RQAW | DCCM

ADDENDUM NO. 2

Job Name: Harrison County Jail MEP Renovation

Project Number: 800-71929

Date of Addendum: **12/12/2025**

THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND IS ISSUED IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY SIGNING THE ADDENDUM ACKNOWLEDGEMENT SECTION OF YOUR PROPOSAL.

BIDDING RFI QUESTIONS & RESPONSES

General Questions:

1. Pre-Bid Meeting was held on December 9, 2025, refer to attached for list of attendees and agenda.

2. **QUESTION:** The invitation to bid it reads 10% bid bond and on another sheet reads 5%. Can you clarify?

RESPONSE: The bid bond is 5%. Spec 00 11 16 Invitation to Bid is updated in Addendum 2.

3. **QUESTION:** Is prevailing wage required.

RESPONSE: Prevailing wage is not required.

4. **QUESTION:** Where can we stage construction such as construction trailers?

RESPONSE: There are several acceptable locations behind the building for construction staging. Please see the areas circled below.

Architecture Related Questions:

1. **QUESTION:** Alternate #3- All Interior Walls to Receive New Paint in New Construction. Are all walls in all areas to be painted whether or/not any work has took place within these rooms.

RESPONSE: Yes, that is correct. Alternate #3 text revision to say "Paint all interior walls of all existing spaces, excluding base bid rooms Office 3000A, Office 3000B, Hallway 3000E, Office 3000D, and Office 3000C."

2. **QUESTION:** I was unable to find anything on security caulk. Are we to assume that any New Fixtures within the Detention Spaces are to receive Security Caulk? There was not any specification for Security Caulk in the bid documents.

RESPONSE: Refer to specification section 07 92 00 Joint Sealers.

3. **QUESTION:** Could the design team indicate what rooms will require the retention clips. The approximate cost for adding the retention clips is around $4.00 @ s.f. If we could get a list of rooms requiring the clips or ceilings drawings highlighted indicated the areas where clips are required. Reference section 055123 – Acoustical Ceilings page 4, 2.3E & page 6, 3.3B8.

RESPONSE: Retention clips will need to be provided to the following ceilings in rooms:

- Inmate Processing 1221
- Booking Officer / Control CC3 1200
- Sally Port 1220
- Breath 1218
- Breath 1219
- Tlt. 1215
- Kitchen 1209
- Medical Exam 1204
- Sally Port 1207
- Shake Down 1206
- Laundry 1309
- Sally Port 1104
- Passage 1302
- Sally Port 1301
- Corridor 1306
- Corridor 1401
- Corridor 1304
- Indoor Recreation 1303

4. **QUESTION:** Potential footing wall detail issue on the new mechanical room. My readings of the foundation plan would show the back of the wall 6" from the center of the 6" column. The base plate is called out to be 16" square, putting it into the wall 2". Typically, I have the wall poured prior to erecting the columns. If that's the case then simply the base plates are offset on the bottom of the column.

RESPONSE: Mechanical Room Wall Section, view 3A on sheet AF1A2 has been revised to allow the footing to have an extra 1/8" from the stone. View 5D and 1E on sheet AF1A2, have also been revised to clarify the dimensions of the exterior wall types.

5. **QUESTION**: On drawing A5.3 finishes they state UT urethane coating, is there a spec?

RESPONSE: For architectural drawings, we don't have any sheets with this labeling. In Architectural scope of work, we don't call for any urethane coatings in our finishes.

6. **QUESTION:** If you could provide a little more information concerning Alternate #4 I would appreciate it. As I understand it we are replacing the Detention Grade H.M. Doors @ Openings 1026, 1207, & 1216 along with the Associated Hardware in the base bid, but are we replacing all Detention Doors & Hardware throughout as Alternate #4?

RESPONSE: Refer to revised specification section **11 19 30_Security Hardware and Sliding Door Devices** for detention door scope of work pertaining to Alternate #4.

Security Electronics Related Questions:

1. **QUESTION:** In the specs it calls for all security systems in conduit. On the drawings, the detail drawings show open air, plenum rated cable above accessible ceilings. We are figuring conduit systems in exposed areas and hard ceilings and j-hook pathways in accessible ceilings concealed to view. Is this acceptable?

RESPONSE: Conduit for exposed areas and hard ceilings and plenum cable above ceiling is sufficient.

2. Are the Audio Communications system stations getting replaced with new devices? We were unable to find any locations on the drawings. Will new cable be required if they are being replaced?

RESPONSE: Cable for the 155 intercom stations is being re-used. There are 155 existing intercom stations that need replaced with new.

Specifications:

Specifications

1. **Modify** specification **TOC (Volume 1).**
2. **Modify** specification section **00 11 16 Invitation to Bid.** Updated the bid bond language.
3. **Added** specification section **01 91 13 Commissioning Requirements**.
4. **Modify** specification **TOC (Volume 2).**
5. **Replace** specification section **07 42 15 Insulated Metal Wall Panel** in its entirety with attached section.
6. **Replace** specification section **11 19 30 Security Hardware and Sliding Door Devices** in its entirety with attached section.
7. **Replace** specification section **11 19 60 Cell Padding** in its entirety with attached section.

8. **Modify** specification section **23 34 23 HVAC Power Ventilators.** Added CaptiveAire to approved manufacturer list.
9. **Modify** specification section **26 32 13 Engine Generators.** Changed to Natural Gas type in lieu of Diesel.
10. **Add** specification section **26 05 73 Power System Studies.**
11. **Delete** specification section **263633 Connection Cabinets for Portable Generators and Load Banks – Foxfab Power Solutions.**
12. **Modify** specification section **28 13 00 Electronic Access Control.** Added 2-year software support agreement.

Drawings:

General Drawings

1. G-103 – OVERALL FIRST FLOOR PHASING PLAN
    - **a. Clarifications:**
        - **i.** Graphical revision to color coding of phase 1.
2. PH-101 – FIRST FLOOR PHASE 1 AND PH-102 – FIRST FLOOR PHASE 2 & 3
    - **a. Clarifications:**
        - **i.** Graphical revision to color coding of phase 1. Phasing notes #A1, A2, A3, A4, A5, and A6 revised to take place during phase 2 construction.

Structural Drawings

1. S300 – SECTION
    - **a. Clarifications:**
        - **i.** Updated detail 3/S300.

Architecture Drawings

1. AD-101 – OVERALL FIRST FLOOR DEMOLITION PLAN AND AD-102 – OVERALL SECOND FLOOR DEMOLITION PLAN
    - a. **Clarifications:**
        - i. Demo Floor Plan Note #8 “Demolish existing tile floor, prep and prepare subfloor as required for installation of new carpet” is now note #7. Note #7 from the bid set drawings are no longer being used.
        - ii. Alternate 2 added, this affects rooms 1405, 1406, 1415,1417,1424, and 1426 for existing ADA plumbing fixtures and grab bars being replaced with new. Reference plumbing drawings.

iii. Alternate 4 added, reference specification section **11 19 30_Security Hardware and Sliding Door Devices**. Existing door tags graphically added to Overall First and Second Demolition Floor Plans for new scope of work on alternate 4.
iv. Added General Demolition Note #14.

2. A-101 – OVERALL FIRST FLOOR PLAN AND A-102 – OVERALL SECOND FLOOR PLAN
    a. **Clarifications:**
        i. Alternate 2 added, this affects rooms 1405, 1406, 1415,1417,1424, and 1426 for existing ADA plumbing fixtures and grab bars being replaced with new. Reference plumbing drawings.
        ii. Alternate 3 added, this affects all existing interior wall paint, excluding base bid rooms office 3000A, office 3000B, hallway 3000E, office 3000D, and office 3000C.
        iii. Alternate 4 added, reference specification section **11 19 30_Security Hardware and Sliding Door Devices**. Existing door tags graphically added to Overall First and Second Floor Plans for scope of work on alternate 4.
        iv. General notes FF, GG, II, and KK are no longer being used.
3. AC-101 – FIRST FLOOR REFLECTED CEILING PLAN AND AC-102 - SECOND FLOOR REFLECTED CEILING PLAN
    a. **Clarifications:**
        i. Ceiling type GWB added to reflected ceiling plan legend.
        ii. Rooms Elec. 1034, office stor. 1016, and evidence stor. 1013 to receive hard lid ceilings.
4. AR-101 – ARCHITECTURAL FLOOR PLAN
    a. **Clarifications:**
        i. Revised roof elevations to be closer to each new roof to roof ladder for clarification.
        ii. Revised graphic line weight of existing versus new roof for clarification.
5. AF1A1 – NEW CONSTRUCTION UNIT PLANS, ELEVATIONS, & DOORS
    a. **Clarifications:**
        i. Revised sheet title to say, “new construction unit plans, elevations, & doors”.
        ii. Revised Interiors finish schedule.
        iii. Revised plan note #F1.
        iv. Revised door & frame schedule.
        v. Revised views 2A, 3A, 5A, 5C, and 6D. This includes the addition of new sections and typical details on sheet A-601, revisions to interiors finish schedule, revisions to plan note #F1, revisions to door & frame schedule, and revision to detail text.

6. AF1A2 – NEW CONSTRUCTION SECTIONS & DETAILS
    a. **Clarifications:**
        i. Revised sheet title to say, “New construction sections & details.”
        ii. Revised views 1A, 1E, 3A, 3E, 4A, 5D, 6D, and 6E for clarification.
7. AF1A3 – ENLARGED RESTROOM, ARCHITECTURAL INTERIOR ELEVATIONS, & DETAILS
    a. **Clarifications:**
        i. Revised sheet title to say, “Enlarged restroom, architectural interior elevations, & details.”
        ii. General notes FF, GG, II, and KK are no longer being used.
        iii. View 5e has been revised.
8. A-601 – SECTIONS & TYPICAL DETAILS
    a. **Clarifications:**
        i. Views 1A, 1B, 1C, 2A, 2B, 2C, and 3C have been removed from the sheet.
        ii. Added views 2D, 2E, 3D, 4A, 4B, 4C, 4D, 5A, and 5D.
        iii. Revised sheet title to say, “Sections & typical details”.

Fire Protection Drawings

1. F800 – FIRE PROTECTION DETAILS
    a. **Clarifications:**
        i. Revised clean agent system detail with added notes for room construction design and door fan test.

Plumbing Drawings

1. P100A – FOUNDATION PLUMBING DEMOLITION PLANS – UNIT A
    a. **Clarifications:**
        i. Revised Plumbing Plan Demolition Notes.
        ii. Revised key plan notes referencing sewer lines to be hydro-jet cleaned.
        iii. Added key plan notes to include underground sanitary areas for cleaning.
        iv. Revised key plan notes referencing incoming water, fire and gas service lines to remain in operation until final relocation is complete.

2. P100B – FOUNDATION PLUMBING DEMOLITION PLANS – UNIT B
    a. **Clarifications:**
        i. Revised Plumbing Plan Demolition Notes.
        ii. Revised key plan notes referencing sewer lines to be hydro-jet cleaned.

iii. Added key plan notes to include underground sanitary areas for cleaning.

3. P110A – FIRST FLOOR PLUMBING DEMOLITION PLANS – UNIT A
    a. **Clarifications:**
        i. Revised Plumbing Plan Demolition Notes.
        ii. Added key plan notes to clarify scope of work.

4. P110B – FIRST FLOOR PLUMBING DEMOLITION PLANS – UNIT b
    a. **Clarifications:**
        i. Revised Plumbing Plan Demolition Notes.
        ii. Revised key plan notes to clarify scope of work.

5. P120A – SECOND FLOOR PLUMBING DEMOLITION PLANS – UNIT A
    a. **Clarifications:**
        i. Revised Plumbing Plan Demolition Notes.
        ii. Revised key plan notes to clarify scope of work.

6. P120B – SECOND FLOOR PLUMBING DEMOLITION PLANS – UNIT B
    a. **Clarifications:**
        i. Revised Plumbing Plan Demolition Notes.
        ii. Revised key plan notes to clarify scope of work.

7. P120C – INTERSTITIAL LEVEL PLUMBING DEMOLITION PLANS
    a. **Clarifications:**
        i. Revised Plumbing Plan Demolition Notes.
        ii. Revised key plan notes to clarify scope of work.
8. P200A – FOUNDATION PLUMBING PLAN – UNIT A
    a. **Clarifications:**
        i. Revised gas routing to emergency generator.

9. P200B – FOUNDATION PLUMBING PLAN – UNIT B
    a. **Clarifications:**
        i. Revised gas routing to emergency generator.

10. P210A – FIRST FLOOR PLUMBING PLAN – UNIT A
    a. **Clarifications:**

i. Added fixture designations and keynotes for Alternate 2 correctional fixture replacement.
ii. Revised key plan notes to clarify scope of work.

11. P210B – FIRST FLOOR PLUMBING PLAN – UNIT B
    a. **Clarifications:**
        i. Added fixture designations and keynotes for Alternate 2 correctional fixture replacement.
        ii. Revised key plan notes to clarify scope of work.
        iii. Revised gas piping sizes to emergency generator.

12. P220A – SECOND FLOOR PLUMBING PLAN – UNIT A
    a. **Clarifications:**
        i. Revised gas pipe sizes to make-up air units.

13. P220B – SECOND FLOOR PLUMBING PLAN – UNIT B
    a. **Clarifications:**
        i. Added fixture designations and keynotes for Alternate 2 correctional fixture replacement.
        ii. Revised key plan notes to clarify scope of work.

14. P230 – ROOF PLUMBING PLAN
    a. **Clarifications:**
        i. Revised gas piping sizes to make-up air units.
        ii.
15. P500 – ENLARGED PLUMBING PLANS
    a. **Clarifications:**
        i. Revised gas and water piping sizes to equipment inn Laundry, Kitchen and Plumbing room areas.

16. P600 – PLUMBING SCHEDULES
    a. **Clarifications:**
        i. Moved showers SH-1 and SH-2 to Correctional Plumbing Fixture Schedule.
        ii. Revised and added correctional fixture models and fixtures for Alternate 2 replacement.
        iii. Revised wall hydrant WH-1 model to match existing fixture for easy replacement.

17. P701 – PLUMBIN NATURAL GAS PIPING DIAGRAM
    a. **Clarifications:**
        i. Revised PRV schedule sizes, loads and model numbers.
        ii. Revised gas load values.
        iii. Revised gas routing to emergency generator.
        iv. Revised gas pipe sizing.
        v.
18. P800 – PLUMBING DETAILS WILLOUGHBY
    a. **Clarifications:**
        i. Added Drunk Tank fixtures to list of scope of work for Alternate 2 fixture replacement and water management system.
        ii.
19. P801 – PLUMBING DETAILS
    a. **Clarifications:**
        i. Revised gas pipe sizes to water heaters.

Electrical Drawings

1. Sheet E001 ELECTRICAL SYMBOLS ABBREVIATION AND GENERAL NOTES
    a. Replace with attached revised sheet in its entirety.
2. Sheet E010 ELECTRICAL SITE PLAN
    a. Replace with attached revised sheet in its entirety.
3. Sheet E110A FIRST FLOOR DEMOLITION PLAN – UNIT A
    a. Replace with attached revised sheet in its entirety.
4. Sheet E110B FIRST FLOOR DEMOLITION PLAN – UNIT B
    a. Replace with attached revised sheet in its entirety.
5. Sheet E120A SECOND FLOOR ELECTRICAL DEMOLITION PLAN – UNIT A
    a. Replace with attached revised sheet in its entirety.
6. Sheet E120B SECOND FLOOR ELECTRICAL DEMOLITION PLAN – UNIT B
    a. Replace with attached revised sheet in its entirety.
7. Sheet E130B INTERSTITIAL ELECTRICAL DEMOLITION PLAN – UNIT B
    a. Replace with attached revised sheet in its entirety.
8. Sheet E210A FIRST FLOOR LIGHTING PLAN – UNIT A
    a. Replace with attached revised sheet in its entirety.
9. Sheet E210B FIRST FLOOR LIGHTING PLAN – UNIT

a. Replace with attached revised sheet in its entirety.

10. Sheet E220A SECOND FLOOR LIGHTING PLAN – UNIT A
    a. Replace with attached revised sheet in its entirety.
11. Sheet E220B SECOND FLOOR LIGHTING PLAN – UNIT B
    a. Replace with attached revised sheet in its entirety.
12. Sheet E230B INTERSTITIAL LIGHTING PLAN – UNIT B
    a. Replace with attached revised sheet in its entirety.
13. Sheet E310A FIRST FLOOR POWER PLAN – UNIT A
    a. Replace with attached revised sheet in its entirety.
14. Sheet E310B FIRST FLOOR POWER PLAN – UNIT B
    a. Replace with attached revised sheet in its entirety.
15. Sheet E320A SECOND FLOOR POWER PLAN – UNIT A
    a. Replace with attached revised sheet in its entirety.
16. Sheet E320B SECOND FLOOR POWER PLAN – UNIT B
    a. a. Replace with attached revised sheet in its entirety.
17. Sheet E330B INTERSTITIAL POWER PLAN – UNIT B
    a. Replace with attached revised sheet in its entirety.
18. Sheet E340 ROOF POWER PLAN
    a. Replace with attached revised sheet in its entirety.
19. Sheet E410A FIRST FLOOR SYSTEMS PLAN – UNIT A
    a. Replace with attached revised sheet in its entirety.
20. Sheet E410B FIRST FLOOR SYSTEMS PLAN – UNIT B
    a. Replace with attached revised sheet in its entirety.
21. Sheet E420A SECOND FLOOR SYSTEMS PLAN – UNIT A
    a. Replace with attached revised sheet in its entirety.
22. Sheet E420B SECOND FLOOR SYSTEMS PLAN – UNIT B
    a. Replace with attached revised sheet in its entirety.
23. Sheet E430B INTERSTITIAL SYSTEMS PLAN – UNIT B
    a. Replace with attached revised sheet in its entirety.
24. Sheet E500 ENLARGED ELECTRICAL PLAN
    a. Replace with attached revised sheet in its entirety.
25. Sheet E600 ELECTRICAL SCHEDULES
    a. Replace with attached revised sheet in its entirety.
26. Sheet E601 ELECTRICAL SCHEDULES
    a. Replace with attached revised sheet in its entirety.

27. Sheet E602 ELECTRICAL SCHEDULES
    a. Replace with attached revised sheet in its entirety.
28. Sheet E603 ELECTRICAL SCHEDULES
    a. Replace with attached revised sheet in its entirety.
29. Sheet E604 ELECTRICAL SCHEDULES
    a. Replace with attached revised sheet in its entirety.
30. Sheet E800 ELECTRICAL DETAILS
    a. Replace with attached revised sheet in its entirety.

END OF ADDENDUM 2

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8770 North St., Ste. 110
Fishers, IN 46038
317.588.1798

Meeting Attendance: Harrison County Jail – MEP Renovation

Name	Representing (Department, Division, etc.)	In Attendance (X)	Phone	E-mail
Trey Kuerzi	Certified Protection Services, F.S.	X	812-734-5419	trey kuerzi@yahoo.com jkuerzijr@yahoo.com
Tony Snellen	Parco Constructors Group.	X	502-716-9464 502-266-2577	Tony@parcoconstruction.com
Zach Pope	Siemens	X	502-224-9719	Zach.Pope@siemens.com
Don Lurie	Everpar	X	502.377-0462	DLurie@Everpar.com
Corey Mullin	Armour Electric	X	812 9141722	Corey@armourelectric.net
Larry Mullin	Armour Electric	X	812-725-5456	lmullin@armourelectric.net
Luke Wehe	SEUFERT	X	812-309-0801 LWehe@SEUFERTCONSTRUCTION.com	
Neil Weyer	Weyer Electric	X	812-367-1650	neil@weyerelectric.com
DANIEL SHIREMAN	SHIREMAN		812-969-4475	daniel@LLshireman.com
Paul Sanders	R&R	X	502-664-6880	Paul_Sanders@rr-mech.com
James Avery	Chemtrent	X	502-712-5017	james.avery@chemtreat.com

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8770 North St., Ste. 110
Fishers, IN 46038
317.588.1798

Meeting Attendance:

Name	Representing (Department, Division, etc.)	In Attendance (X)	Phone	E-mail
Jeremy Hester	Lusk Mech		270-272-8010	jhester@theluskgroup.com
Joey English	Lusk		270 999 0108	JEnglish@theluskgroup.com
Eric Baum	United Mech		502 616 3246	eric@unitedmechanical.com
Ross Hoffman	RG Mechanical		812-683-0675	ross@rgmechanical.net
Matt Gisser	" "		812-683-0675	matt@rgmechanical.net
Tim Reutman	HFI		812 360 3898	treutman@horrell-fish.com
Colin Hindman	HFI		812-339-2979	chindman@horrell-fish.com
Mike Crull	Poynter		812-902-8175	mikecrull@poynter sheermond.com
JEFF Beck	WEDDLE BROS		82327-4016	Jbeck@weddlebros.com
Eric Cashen	Best		302-649-5586	ericcashen@bestmechanical.com
Nathan Trotter	HMW		812-827-1941	nathan@huntingburgmachineworks.com

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8770 North St., Ste. 110
Fishers, IN 46038
317.588.1798

Meeting Attendance: Harrison County Jail – MEP Renovation

Name	Representing (Department, Division, etc.)	In Attendance (X)	Phone	E-mail
Anthony Hall	G.C.	✓	502 957 747	AHALL@EHConst.com
Don Uebelhor		✓	812-351-2113	Don@huntingburgmachineworks.com

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Pre-Bid Meeting Agenda

Harrison County Jail – MEP Renovation

December 9, 2025

1. **Introduction:**
    a. Engineers / Architect – RQAW / DCCM
    b. Owner – Harrison County Board of Commissioners

2. **Project Overview:**
    a. MEP Renovation
    b. Bid Packages:
        i. 1 Bid Package
            1. ALTERNATE No. 1 (SANITARY GRINDER MANHOLE):
            2. ALTERNATE No. 2 (CORRECTIONAL FIXTURES & WATER MANAGEMENT SYSTEM):
            3. ALTERNATE No. 3 (WALL PAINT):
            4. ALTERNATE No. 4 (DETENTION DOOR & HARDWARE):
    c. Contingency Allowance: **$375,000**
    d. Schedule

3. **Documents:**
    a. Accessible through Eastern Engineering digital plan room
        i. Phone Number: (317) 598-0661
    b. Upcoming Addenda
        i. Addendum 2 – Bid Questions, pre-bid attendee list & minutes – 12.12.2025

4. **Bid Instructions:**
    a. Bid Questions to contact Dustin Barth, (317) 588-1725, dbarth@dccm.com
    b. Bids due on **12.18.2025 @ 1:30pm EST – Open at 2 pm EST**
    c. Deliver sealed bids to the address below

Harrison County Auditor
245 Atwood St. NE, Suite 211
Corydon, IN, 47112

5. **Q&A:** All questions related to design and project scope will be answered and distributed via addenda.

6. **Tour**

INDEX

DIVISION 0 – BIDDING AND CONTRACT REQUIREMENTS

Letter of Instructions
Bidders Request for Information Form
00 11 16 Invitation to Bid
00 21 14 Instructions to Bidders
00 31 00 Information Available to Bidders
00 41 00 Form No. 96 (Revised 2005) Contractor's Bid for Public Work
00 41 13 Bid Form – Stipulated Price
00 43 00 Bid Form Supplements
00 52 14 Agreement - AIA
00 72 14 General Conditions - AIA

DIVISION 1 – GENERAL REQUIREMENTS

01 10 00 Summary of Work
01 20 00 Price and Payment Procedures
01 30 00 Administrative Requirements
01 33 00 Submittal Procedures
01 40 00 Quality Requirements
01 50 00 Temporary Facilities
01 60 00 Product Requirements
01 70 00 Execution Requirements
01 91 13 Commissioning Requirements

END OF VOLUME 1 INDEX

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DOCUMENT 00 11 16 INVITATION TO BID

NOTICE is hereby given that sealed bids will be received as follows:

BY: HARRISON COUNTY COMMISSIONERS

FOR: HARRISON COUNTY JAIL - MEP RENOVATION

Bids will be opened and publicly read aloud at:

Commissioners' Meeting Room
Harrison County Government Center
245 Atwood St.,
Corydon, IN 47112

At the following day and time: December 18th, 2025 at 2:00 PM

Sealed bids can be delivered to the Harrison County Auditor's Office until 1:30 PM at 245 Atwood St., NE, Suite 211, Corydon, Indiana, 47112. After 1:30 PM they shall be delivered to the Commissioners' Meeting Room located on the first floor of the Harrison County Government Center, 245 Atwood St., Corydon, IN 47112, up until the scheduled time of the noticed bid opening.

Bids received after the date and time set for receipt and opening of bids as herein indicated will be returned unopened.

Bids will be received for a single prime contract.

Bids shall be in full accordance with the Construction Documents which are now on file with the Owner or with the Architect and may be examined by prospective Bidders at the following locations:

Harrison County Auditor
245 Atwood St. NE, Suite 211
Corydon, IN, 47112
Phone: 812-738-8241

Bidders may obtain complete sets of Bid Documents from the office of Eastern Engineering, 9901 Allisonville Rd, Fishers, IN 46038, Phone: 317-598-0661, www.easternengineering.com.

Bids shall include BID SECURITY in the form of a Bid Bond or certified check in the amount of a sum no less than Five (5) percent of the Bid Sum including all add alternates.

Refer to other bidding requirements described in Document 00 21 14 - Instructions to Bidders.

BIDDERS are encouraged to attend a pre-bid conference / walk-thru with representatives of the Owner and Architect to discuss the project and related requirements. Prebid conference will convene at 10:00 AM local time, on December 9th @ The Harrison County Jail, 1445 Gardner Lane NW, Corydon, IN 47112.

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The Owner reserves the right to accept or reject any or all bids and to waive any irregularities in bidding. The owner shall award the contract to the contractor which the owner believes is qualified to perform the services included in the project and provides the best value to the owner.

Base bids may be held for the following period before award of Contract:

Sixty (60) Days

Should a successful Bidder withdraw his bid or fail to satisfactorily execute all of the requirements and enter into a written Contract within ten (10) days after Notice of Acceptance of his bid, the Owner may declare the Bid Security forfeited, not as a penalty, but as liquidated damages.

The successful Bidder shall furnish a Performance Bond and Payment Bond from an approved surety company, which will remain in full force and effect for a period of one (1) year after date of final acceptance of work. Performance Bond and Payment Bond shall be in an amount equal to the following percentage of the Contract Sum:

One hundred percent (100%)

END OF DOCUMENT

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SECTION 019113
COMMISSIONING REQUIREMENTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, and other Division-01 Specification Sections, apply to work of this Section.

B. Division 22 – Plumbing

C. Division 23 – Heating Ventilating and Air Conditioning

D. Division 26 – Electrical

1.02 SUMMARY

A. Section includes commissioning process requirements for the following systems:
   1. Mechanical, including HVAC&R equipment and controls
      a. Domestic Hot Water and Plumbing Controls for Cells
      b. Emergency Power Switch Over

B. Section Includes:
   a. General requirements for coordinating and scheduling commissioning.
   b. Commissioning meetings.
   c. Commissioning documentation and scheduling commissioning.
   d. Construction checklists, including, but not limited to, installation checks, startup, performance tests, and performance test demonstration.
   e. Commissioning tests and commissioning test demonstration.
   f. Adjusting, verifying, and documenting identified systems and assemblies.

1.03 REFERENCES

A. Drawings and general provisions of contract, including general and supplementary conditions, general mechanical provisions and Division-1 Specification sections, apply to work of this section.

B. AABC National Standards – 2002: For Total System Balance

C. ASHRAE Standard 202 – 2018; Commissioning Process for Buildings and Systems

D. ASHRAE Guideline 0-2019: The Commissioning Process

E. ASHRAE Guideline 1.1-2007: The HVAC&R Technical Requirements for the Commissioning Process

F. ASHRAE Guideline 1.3-2018: Building Operations and Maintenance Training for the HVAC&R Commissioning Process

G. ASHRAE Guideline 1.4-2014: Procedures for Preparing Facilities Systems Manuals

H. ACG Building Systems Commissioning Guideline – January 2024

I. ANSI/ASHRAE/IES Standard 90.1 – 2016; Energy Standard for Buildings Except Low Rise Residential Buildings (SI Edition)

J. ANSI/ASHRAE/IES Standard 189.1 – 2014: Standard for the Design of High-Performance Green Buildings

K. BCA New Construction Building Commissioning Best Practices –2018

L. BICSI: Telecommunications Distribution Methods Manual, 13th Edition – 2014

M. ICC G4 – 2018 Guideline for Commissioning

N. NECA 90: Commissioning Building Electrical Systems – 2015

O. NFPA 70: National Electrical Code – 2018

1.04 DESCRIPTION OF WORK

A. The purpose of the commissioning process is to provide the owner/operator of the facility with a high level of assurance that the commissioned systems have been installed in the prescribed manner and operate within the performance guidelines set out in the Owner's Project Requirements (OPR). The Commissioning Authority (CxP) shall provide the owner with an unbiased, objective view of the system's installation, operation, and performance. This process is not intended to eliminate or reduce the responsibility of the design team or installing contractors to provide a finished product. Commissioning is intended to enhance the quality of system start-up and aid in the orderly transfer of systems for beneficial use by the owner. The CxP will be a member of the construction team, administrating and coordinating commissioning activities with the design team, construction manager, subcontractors, manufacturers and equipment suppliers.

B. This commissioning plan has been included for reference only to define contractors' responsibilities. Each contractor should review this procedure and include adequate time in their proposal.

1.05 INSTALLING CONTRACTORS CLOSE-OUT SUBMITTALS

A. Commissioning Report Supplemental Information:
   a. During Construction Commissioning Phase, provide the following as soon as possible:
      1) Startup reports
      2) Approved test procedures
      3) Test data forms, completed and signed
      4) Controls point-to-point verification documentation
      5) Preliminary test and balance report(s)
      6) Progress reports
      7) Commissioning issues reports showing resolution of issues
      8) Correspondence or other documents related to resolution of issues
      9) Other reports required by commissioning authority

B. Provide Operation and Maintenance Data: For proprietary test equipment, instrumentation, and tools to include in operation and maintenance manuals.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.01 ROLES OF THE COMMISSIONING AUTHORITY

A. The primary responsibility is to inform the owner, the construction manager and design team on the status, integration, and performance of commissioned systems within the facility.

B. The CxP shall function as a catalyst and initiator to disseminate information and assist the design and construction teams in implementing completion of the construction process. This shall include system verification, functional performance testing, and conformance with the intended design of each system. Services include documenting construction observations, verification and functional performance testing, and documenting proper distribution of performance and operating information to the owner's O&M staff.

C. The CxP shall observe and coordinate testing as required to assure system performance meets the Basis of Design and Owner's Project Requirements.

D. The CxP shall provide technical expertise to oversee and verify the correction of deficiencies found during the commissioning process.

E. The CxP is to remain an independent party with specific knowledge of commissioned systems on the project. The CxP shall investigate the scope and extent of the problem and facilitate communication to determine responsibilities by delineating specifications. The CxP shall monitor resolution for conformance with design intent and prevailing industry standards.

F. The CxP shall document the date of acceptance as determined by the construction manager, owner and design team.

G. The CxP will review phasing plans as provided by the Construction manager relating to temporary use of HVAC equipment, O&M considerations, warranty issues, impact of construction sequencing on occupied areas, and interruption of services from the existing equipment.

3.02 SYSTEMS INCLUDED IN THE COMMISSIONING PROCESS

A. Mechanical, including HVAC&R equipment and controls

B. Domestic Hot Water and Plumbing Controls for Cells

C. Emergency Power Switch Over

3.03 CONTRACTOR SCHEDULING

A. Commissioning Schedule: Integrate commissioning into Contractor's construction schedule.
   a. Include detailed commissioning activities in monthly updated Contractor's construction schedule and short interval schedule submittals.
   b. Schedule the start date and duration for the following commissioning activities:
      1) Submittals.
      2) Preliminary operation and maintenance manual submittals.
      3) System verification checklists
      4) Operation and Maintenance Manuals
      5) Startup
      6) Functional performance tests
      7) Operation and Maintenance Training

B. Two-Week Look-Ahead Commissioning Schedule:
   a. Two weeks prior to the beginning of tests, submit a detailed two-week look-ahead schedule. Thereafter, submit updated two-week look-ahead schedules weekly for the duration of commissioning.

C. Owner's Witness Coordination:
   a. Coordinate Owner's witness participation via Architect.
   b. Notify Architect of commissioning schedule changes at least one week in advance for activities requiring the participation of Owner's witness.

3.04 COMMISSIONING PLAN

A. Commissioning Team
   a. The Commissioning Team (CT) shall consist of key parties involved in design, construction and testing of this facility. It is necessary for each agency to appoint team members that will have long-term commitments to this project. One team member shall be provided by each of the parties listed below:
      1) Using Agency – Harrison County Board of Commissioners
      2) Project Architect – RQAW
      3) Design MEP Engineer – RQAW
      4) Commissioning Authority (CxP) – TBD
      5) General Contractor (GC) – TBD
      6) Mechanical Contractor (MC) – TBD
      7) Plumbing Contractor (PC) – TBD
      8) Sheet Metal Contractor (SM) – TBD
      9) Temperature Controls Contractor (TCC) – TBD
      10) Test and Balance Contractor (TABC) – TBD
      11) Electrical Contractor (EC) – TBD
      12) Lighting Controls Equipment Contractor (LCEC) – TBD

B. Commissioning Meetings

a. Commissioning meetings will be held in conjunction with progress meetings as necessary. The CxP will be on site for the Cx meetings. Commissioning meetings will be used to address any problems that alter the design intent or affect the commissioning process.

C. Issues Resolution Log (IRL)
   a. The use of Issues Resolution Log is a method employed by the CxP to monitor and record problems, their causes, and solutions. The use of these lists promotes communication between the installing contractors, design team, commissioning agent, and owner, in order to expedite their resolution in a timely manner.
   b. The CxP will regularly submit IRL's to the Commissioning Team in order to document and resolve deficiencies as quickly as possible. The frequency of IRL submission will be adjusted as project conditions dictate.

D. System Verification Checklists (SVC's) / Manufacturers' Checklists
   a. The CxP will write SVC's based on the contract documents. These tests will be created for systems and subsystems. See section 3.2 SYSTEMS INCLUDED IN THE COMMISSIONING PROCESS for list of systems to be commissioned. Draft copies will be submitted to the Commissioning Team for review and comment prior to placement on the job site. A master copy of the SVC's will be bound in a three-ring binder and placed on the job site for completion by the installing contractors. No system will be started until the appropriate SVC's have been completed.
   b. The CxP will review the SVC for each piece of equipment prior to start-up.
   c. The equipment manufacturers' checklists must also be reviewed by the CxP prior to start-up. These lists must be completed by the installing contractor and reviewed by the CxP before start-up commences.

E. Submittal Reviews
   a. The CxP will review contractor submittals that apply to systems being commissioned for compliance with the owner's project requirements and basis of design, concurrent with the architect or engineer of record.

F. Systems Manual
   a. The CxP or other project team members must develop a systems manual that provides future operating staff the information needed to understand and optimally operate the commissioned systems of the project.

G. Start-Up
   a. Start-up of major commissioned systems will be witnessed the CxP. The appropriate contractors and/or manufacturer's representative will be required on site to perform start-up. No system will be started until the appropriate SVC's have been completed.

H. Controls Monitoring
   a. Close monitoring of the Control Supplier's (CS) progress will promote efficient coordination of the TAB work. The CS will be expected to submit point-to-point checklists verifying that his work has been completed and all systems are ready for TAB work and Functional Performance Testing.

I. TAB Monitoring
   a. The preliminary TAB report set-up will be reviewed prior to HVAC equipment start-up, in order to assure that the final TAB report format and content are acceptable.
   b. TAB work will be monitored so that any problems that prevent or hinder proper air and water balance can be addressed and corrected with minimal delays.
   c. A pencil copy of the TAB report will be reviewed prior to submission of the final TAB report and before Functional Performance Tests can begin. A written CxP review will be submitted to the TAB contractor and to the Design Team for their comments. A TAB report approved by the DT will be required before Functional Performance Testing can be carried out. The CxP will visit the site during the TAB process in order to assist TABC and CC in the effective completion of their scope of work.

J. Functional Performance Tests (FPT)
   a. The CxP will write FPT's and these tests will be created for commissioned systems and subsystems. See section 3.2 'SYSTEMS INCLUDED IN THE COMMISSIONING PROCESS' for list of systems to be commissioned. Each major system will be tested by the contractor. The sampling rate for terminal equipment or devices tested will be 100% which will be tested through trending or other methods determined by the CxP. This will be coordinated and witnessed by the CxP and the owner's maintenance staff. Witnessing the FPT's will serve as a compliment to the O&M Training. No FPT's will be performed until the system and related subsystems until the following documentation has been provided:
      1) SVC's are completed by installing contractors.
      2) Startup reports have been submitted.
      3) Preliminary TAB report has been submitted and reviewed.
      4) The completion of the control system has been documented through point-to-point checklists and/or other documentation.
   b. Functional Performance Tests shall include:
      1) HVAC Direct Digital Controls system will be tested as necessary to achieve owner's requirements conformance outlined in the construction documents.
      2) HVAC systems will be tested to assure that the building as an integrated system operates properly.
      3) Domestic Hot Water system will be tested under relevant operating conditions.
      4) The electrical system trade representative will demonstrate to the CxP design intent conformance of service and distribution system operation, and with the CxP present the electrical system trade representative will verify proper operation of commissioned systems.
   c. Off-season mode testing will be implemented as necessary. Installing contractors will be expected to participate as required by the project specifications.

K. Building Turn-Over / Owner Orientation / User Training
   a. The CxP will monitor contractors in preparing and coordinating O&M manuals, working closely with each contractor to achieve specificity and completeness.
   b. Owner training will be coordinated with the assistance of the CxP. The training will be provided by the installing contractor, or manufacturer's representative, and witnessed by the CxP. This training should include both classroom training and hands-on operational training. The owner may choose to videotape this training for future use. The CxP will visit the site during the Turn-Over and Training period to assure that any on-going problems related to commissioned systems are being addressed and corrected in a timely and efficient manner.
   c. The CxP will assist the owner/user with warranty issues.
   d. The CxP will assist in the coordination of off-season testing, calibrating, and servicing as specified in the contract documents.

3.05 ROLES AND RESPONSIBILITES OF INSTALLING CONTRACTORS

A. Installing Contractor Roles
   a. General Contractor (GC)
   b. Mechanical Contractor (MC)
   c. Sheet Metal Contractor (SMC)
   d. Plumbing Contractor (PC)
   e. Testing, Adjusting and Balance Contractor (TABC)
   f. Temperature Controls Contractor (TCC)
   g. Electrical Contractor (EC)

B. General Contractor Responsibilities (GC)
   a. Attend commissioning meetings scheduled by the CxP.

b. Assure cooperation and participation of specialty sub-contractors such as sheet metal, piping, refrigeration, temperature controls, TAB, and building envelope in commissioning activities.
c. Assure acceptable representation, with the means and authority to prepare and coordinate execution of the commissioning program as described in the contract documents.
d. Assure that the CxP shall receive a copy of all construction documents, addenda, change orders and appropriate approved submittals and shop drawings for review and use in development of the commissioning plan.
e. Coordinate inclusion of commissioning activities in the construction schedule.
f. Facilitate resolution of deficiencies identified by observation or performance testing.

C. Mechanical Contractor (MC) Responsibilities
a. Include requirements for submittal data (including partial load data), O&M data, and training in each purchase order or sub-contract.
b. Assure cooperation and participation of specialty sub-contractors such as sheet metal, piping, refrigeration, temperature controls, and TAB in commissioning activities.
c. Assure participation of major equipment manufacturers in appropriate startup, training, and testing activities.
d. Attend commissioning meetings scheduled by the CxP.
e. Assist the CxP in system verification and performance testing.
f. Prepare preliminary schedule for commissioned system inspections, O&M manual submission, training sessions, pipe and duct system testing, flushing and cleaning, equipment start-up, system verification, performance testing, and system completion for use by the CxP. Update schedule as appropriate throughout the construction period.
g. Complete System Verification Checklists and manufacturer's pre-start checklists prior to scheduling startup of commissioned equipment.
h. Monitor and respond to Resolution Tracking Forms distributed by the CxP in order to expedite corrective actions necessary to achieve design intent.
i. Notify the CxP a minimum of two weeks in advance of scheduled system start-up.
j. Update drawings to as-built condition and review with the CxP throughout the construction process.
k. Schedule vendor and subcontractor provided training sessions as required by project specifications.
l. Provide written notification that the following work has been completed in accordance with the project specifications, and that the equipment, systems and sub-systems are operating in accordance with design intent.
1) HVAC equipment including fans, air handling units, dehumidification units, ductwork, dampers, terminal devices, etc.
2) Fire detection and smoke detection devices furnished under other divisions as they affect the operation of the HVAC systems.
3) That DDC is functioning in accordance with design intent.
m. Participate in the Functional Performance Tests as required to achieve design intent.
n. Participate in the off-season mode testing as required to achieve design intent.
o. Participate in O&M Training as required by project specifications.
p. Provide a complete set of as-built drawings and O&M manuals for review.

D. Sheet Metal Contractor Responsibilities (SMC)
a. Include requirements for submittal data (including partial load data), O&M data, and training in each purchase order or sub-contract.
b. Assure cooperation and participation of specialty sub-contractors such as piping, refrigeration, water treatment, temperature controls, and TAB in commissioning activities.

c. Assure participation of major equipment manufacturers in appropriate startup, training, and testing activities.
d. Attend commissioning meetings scheduled by the CxP.
e. Assist the CxP in system verification and performance testing.
f. Prepare preliminary schedule for commissioned system inspections, O&M manual submission, training sessions, pipe and duct system testing, flushing and cleaning, equipment start-up, system verification, performance testing, and system completion for use by the CxP. Update schedule as appropriate throughout the construction period.
g. Complete System Verification Checklists and manufacturer's pre-start checklists prior to scheduling startup of commissioned equipment.
h. Monitor and respond to Resolution Tracking Forms distributed by the CxP in order to expedite corrective actions necessary to achieve design intent.
i. Notify the CxP a minimum of two weeks in advance of scheduled system start-up.
j. Provide startup reports within 5 working days of startup activities.
k. Update drawings to as-built condition and review with the CxP throughout the construction process.
l. Schedule vendor and subcontractor provided training sessions as required by project specifications.
m. Provide written notification that the following work has been completed in accordance with the project specifications, and that the equipment, systems and sub-systems are operating in accordance with design intent.
    1) HVAC equipment including fans, air handling units, dehumidification units, ductwork, dampers, terminal devices, etc.
    2) Fire detection and smoke detection devices furnished under other divisions as they affect the operation of the HVAC systems.
n. Participate in the Functional Performance Tests as required to achieve design intent.
o. Participate in the off-season mode testing as required to achieve design intent.
p. Participate in O&M Training as required by project specifications.
q. Provide a complete set of as-built drawings and O&M manuals for review.

E. Plumbing Contractor (PC) Responsibilities
a. Include cost for commissioning requirements in the contract price.
b. Review design for provision of power to equipment.
    1) Verify proper hardware specifications exist for performance as defined by the OPR.
    2) Verify proper safeties and interlocks are included in the design of electrical connections for plumbing equipment.
c. Attend commissioning meetings scheduled by the CxP.
d. Verify proper installation and performance of all plumbing installation services provided.
e. Complete System Verification Checklists and manufacturer's pre-start checklists prior to scheduling startup of commissioned plumbing equipment.
f. Monitor and respond to Resolution Tracking Forms distributed by the CxP in order to expedite corrective actions necessary to achieve design intent.
g. Provide a plumbing system technician to assist during verification and performance testing.
h. Participate in the Functional Performance Tests as required to achieve design intent.
i. Participate in the off-season mode testing as required to achieve design intent.
j. Participate in O&M Training as required by project specifications.

F. Test and Balance Contractor Responsibilities (TABC)
a. Attend commissioning meetings scheduled by the CxP.
b. Submit the TAB procedures and preliminary TAB report to the CxP for review at least two weeks prior to beginning TAB work.

c. Notify the CxP a minimum of two weeks in advance of scheduled TAB work.
d. Provide partial, preliminary TAB Reports by phase, by building section, by system, or as required by the CxP.
e. Assist the CxP in system verification and performance testing.
f. Monitor and respond to Resolution Tracking Forms distributed by the CxP in order to expedite corrective actions necessary to achieve design intent.
g. Participate in verification of the TAB report, which will consist of repeating any selected measurement contained in the TAB report where required by the CxP for verification or diagnostic purposes.
h. Participate in the Functional Performance Tests as required to achieve design intent.
i. Provide sound and vibration measurements where required to assist in diagnosis of areas exhibiting unacceptable levels of noise or vibration.
j. Participate in the off-season mode testing as required to achieve design intent.
k. Participate in O&M Training as required by project specifications.

G. Temperature Control Contractor Responsibilities (TCC)
a. Review control sequence and component selection for conformance with design intent.
1) Verify that specified safeties and interlocks have been selected.
2) Verify proper selection of control valves and actuators based on design parameters.
3) Verify proper selection of control dampers and actuators based on design parameters.
4) Verify that sensor selection conforms to design intent.
b. Attend commissioning meetings scheduled by the CxP.
c. Provide the following submittals to the CxP:
1) Hardware and software submittals.
2) Control panel construction shop drawings.
3) Narrative description of control sequences for each commissioned system and subsystem.
4) Schematics showing all control points, sensor locations, point names, actuators, controllers and where necessary, points of access.
5) A list of all control points, including analog inputs, analog outputs, digital inputs and digital outputs. Include the values of all parameters for each system point. Provide a separate list for each stand-alone control unit.
6) A complete listing of all software routines employed in operating the control system. Also provide a program narrative that describes the logic flow of the software and the functions of each routine and sub-routine. The narrative should also explain individual math or logic operations that are not clear from reading the software listing.
7) Hardware operation and maintenance manuals.
8) Application software and project applications code manuals.
9) Panel and equipment insert documents.
d. Verify that specified interfaces provided by others are compatible with DDC hardware and software.
e. Coordinate installation and programming of DDC with construction and commissioning schedules.
f. Complete System Verification Checklists and manufacturer’s pre-start checklists prior to scheduling startup of commissioned equipment.
g. Provide control system technician to assist during equipment startup.
h. Monitor and respond to Resolution Tracking Forms distributed by the CxP in order to expedite corrective actions necessary to achieve design intent.
i. Participate in the Functional Performance Tests as required by the project specifications.

j. Provide a control system technician to assist during verification and performance testing.
k. Provide system modifications to achieve system operation as defined by the design intent.
l. Provide support and coordination for TAB contractor. Provide all devices, such as portable operator terminals and all software for the TAB to use in completing TAB procedures.
m. Provide written notification that the TCC scope of work has been completed in accordance with the project specifications, and that the equipment, systems and sub-systems are operating in accordance with design intent, and that DDC is functioning in accordance with design intent.
n. Participate in the Functional Performance Tests as required to achieve design intent.
o. Participate in the off-season mode testing as required to achieve design intent.
p. Participate in O&M Training as required by project specifications. Include training on hardware operations and programming.

H. Electrical Contractor Responsibilities (EC)
a. Review design for provision of power to the commissioned equipment.
1) Verify proper hardware specifications exist for performance as defined by the OPR.
2) Verify proper safeties and interlocks are included in the design of electrical connections for HVAC equipment.
3) Lighting Controls
b. Attend commissioning meetings scheduled by the CxP.
c. Verify proper installation and performance of all electrical services provided.
d. Complete System Verification Checklists and manufacturer's pre-start checklists prior to scheduling startup of commissioned equipment.
e. Monitor and respond to Resolution Tracking Forms distributed by the CxP in order to expedite corrective actions necessary to achieve design intent.
f. Notify the CxP a minimum of two weeks in advance of scheduled system start-up.
g. Provide startup reports within 5 working days of startup activities.
h. Provide an electrical system technician to assist during verification and performance testing.
i. Participate in the Functional Performance Tests as required to achieve design intent.
j. Participate in the off-season mode testing as required to achieve design intent.
k. Participate in O&M Training as required by project specifications.
l. Provide a complete set of as-built drawings and O&M manuals for review.

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SECTION 07 42 15

INSULATED METAL WALL PANEL

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Steel faced, Insulated (polyisocyanurate) metal wall panels.

B. Products requiring coordination with this section, but furnished and installed in other Sections include:

1. Cast Stone specified in Section 04 72 00 Cast Stone Masonry

C. Accessories including Rails, hat channel, brick ties, accessories, fasteners, flashings, and perimeter trim.

1.2 REFERENCES

A. American Architectural Manufacturers Association (AAMA)

1. AAMA 501.1: Standard Test Method for Metal Curtain Walls for water penetration using Dynamic Pressure.
2. AAMA 501.2: Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls and Sloped Glazing Systems.

B. American Society of Civil Engineers (ASCE)

1. ASCE 7: Minimum Design Loads for Buildings and Other Structures.

C. ASTM International

1. ASTM A480: Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet and Strip.
2. ASTM A653: Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
3. ASTM A755: Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil-Coating Process for Exterior Exposed Building Products
4. ASTM A792: Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot–Dip Process
5. ASTM A924: Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process
6. ASTM B117: Standard Practice for Operating Salt Spray (Fog) Apparatus
7. ASTM B209: Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
8. ASTM C209: Standard Test Methods for Cellulosic Fiber Insulating Board
9. ASTM C273: Standard Test Method for Shear Properties of Sandwich Core Materials.

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10. ASTM C518: Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
11. ASTM C920: Standard Specification for Elastomeric Joint Sealants
12. ASTM D224; Standard Specification for Smooth-Surfaced Asphalt Roll
13. ASTM D522: Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings
14. ASTM D523: Standard Test Method for Specular Gloss
15. ASTM D714: Standard Test Method for Evaluating Degree of Blistering of Paints
16. ASTM D968: Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive
17. ASTM D1308: Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes
18. ASTM D1621: Standard Test Method for Compressive Properties of Rigid Cellular Plastics
19. ASTM D1622: Standard Test Method for Apparent Density of Rigid Cellular Plastics
20. ASTM D1623: Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics
21. ASTM D1654: Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
22. ASTM D1929: Standard Test Method for Determining Ignition Temperature of Plastics
23. ASTM D2126: Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging.
24. ASTM D2244: Standard practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates
25. ASTM D2247: Standard Practice for Testing Water Resistance of Coatings in 100 percent Relative Humidity
26. ASTM D2794: Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)
27. ASTM D3273: Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
28. ASTM D3359: Standard Test Methods for Measuring Adhesion by Tape Test
29. ASTM D3363: Standard Test Method for Film Hardness by Pencil Test
30. ASTM D4145: Standard Test Method for Coating Flexibility of Prepainted Sheet
31. ASTM D4214: Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films
32. ASTM D6226: Standard Test Method for Open Cell Content of Rigid Cellular Plastics.
33. ASTM E72: Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
34. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials
35. ASTM E90: Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
36. ASTM E283: Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
37. ASTM E330: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
38. ASTM E331: Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

D. International Building Code (IBC): current edition

E. National Fire Protection Agency (NFPA)

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1. NFPA 259: Standard Test Method for Potential Heat of Building Materials.
2. NFPA 268: Standard Test Method for Determining Ignitibility of Exterior Wall Assemblies Using a Radiant Heat Energy Source.
3. NFPA 285: Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components.

F. UL

1. UL1715: Fire Test of Interior Finish Material.

1.3 ADMINISTRATIVE REQUIREMENTS

A. Pre-installation meeting: Conduct a pre-installation meeting at the job site attended by Owner, Architect, Manufacturer's Technical Representative, Panel Installer, and Contractors of related trades. Coordinate structural support requirements in relation to insulated wall panel system, installation of any separate air/water barriers, treatment of fenestration, and other requirements specific to the project.

1.4 SUBMITTALS

A. Refer to Section 01 33 00 Submittal Procedures.

B. Product Data: Submit manufacturer current technical literature for each type of product.

C. Shop Drawings: Submit detailed drawings and panel analysis showing:

1. Profile
2. Gauge of both exterior and interior sheet
3. Location, layout and dimensions of panels
4. Location and type of fasteners
5. Shape and method of attachment of all trim
6. Locations and type of sealants
7. Installation sequence
8. Coordination Drawings: Provide elevation drawings and building sections which show panels in relationship to required locations for structural support. Include panel details and details showing attachment to structural support.
9. Other details as may be required for a weathertight installation

D. Panel Analysis: Provide panel calculations to verify panels will withstand the design wind loads indicated without detrimental effects or deflection exceeding L/180. Include effects of thermal differential between the exterior and interior panel facings and resistance to fastener pullout.

E. Samples: Provide nominal 3 x 5 inch of each color indicated.

F. Miscellaneous Certifications:

1. Submit documentation that products have been certified in accordance with ISO 14025.

G. Quality Assurance Submittals

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1. Design Data, Test Reports: Provide manufacturer test reports indicating product compliance with requirements.
2. Manufacturer Erection Instructions: Provide manufacturer's written installation instructions including proper material storage, material handling, installation sequence, panel location(s), and attachment methods, details and required trim and accessories.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Manufacturer shall have a minimum of five (5) years experience in the production of insulated wall panels. Manufacturer shall demonstrate past experience with examples of projects of similar type and exposure.
2. Manufacturer to be registered with a Program Operator with a Certified, Environmental Product Declaration, in conformance with ISO 14025, for Insulated Metal Panels.

B. Installer Qualifications: Authorized by the manufacturer and the work shall be supervised by a person having a minimum of five (5) years experience installing insulated wall panels on similar type and size projects.

1.6 DELIVERY, STORAGE AND HANDLING

A. Refer to Section 01 60 00 Product Requirements.

B. Deliver panel materials and components in manufacturer's original, unopened, undamaged packaging with identification labels intact.

C. Store wall panel materials on dry, level, firm, and clean surface. Stack no more than two bundles high. Elevate one end of bundle to allow moisture run-off, cover and ventilate to allow air to circulate and moisture to escape.

1.7 WARRANTY

A. Limited Warranty: Standard form in which manufacturer agrees to repair or replace items that fail in materials or workmanship within specified warranty period. The items covered by the warranty include structural performance including bond integrity, deflection and buckling.

1. Warranty Period: Two (2) years from date of Substantial Completion, or 2 years and 6 months from the date of shipment from manufacturer's plant, whichever occurs first.

B. Weathertight Wall Warranty: Provide manufacturer's standard limited weathertight wall warranty in which manufacturer will warrant against leakage under the specified project design criteria or normal weather and atmospheric conditions for a period of ten (10) years based on a review of final installation drawings and verification of installation by a manufacturer trained installer. Project installation inspection is at the sole discretion of the manufacturer.

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PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Insulated Barrier Wall Panel:

1. Kingspan Insulated Panels Ltd. 12557 Coleraine Drive, Caledon, ON L7E 3B5 (866-442-3594); 5202-272nd Street, Langley, B.C. V4W 1S3 (866-442-3594) (www.kingspanpanels.ca);
2. Kingspan Insulated Panels, Inc., 726 Summerhill Drive, Deland, FL 32724 (888-882-5862); 2000 Morgan Road, Modesto, CA 95358 (800-377-5110) (www.kingspanpanels.us)

B. Basis of Design: Kingspan KarrierPanel®

C. Approved manufacturers:

1. Centria/Nucor MetalWrap

D. Substitution Limitations:

1. Submit written request for approval of substitutions to the Architect a minimum of 14 days prior to the date for receipt of bids. Include the following information:

    a. Name of the materials and description of the proposed substitute.
    b. Drawings, cut sheets, performance and test data.
    c. List of projects similar scope and photographs of existing installations.
    d. Test reports indicating compliance with the performance criteria.
    e. Other information necessary for evaluation.

2. After evaluation by Architect, approval will be issued via addendum. No verbal approval will be given.
3. Substitutions following award of contract are not allowed except as stipulated in Division 01 – General Requirements.

2.2 EXTERIOR WALL PANELS

A. Performance Criteria – Insulated Barrier Wall Panel:

1. Structural Test: Structural performance shall be verifiable by witnessed structural testing for simulated wind loads in accordance with ASTM E72 and E330. Deflection criteria shall be L/180.
2. Freeze / Heat Cycling Test: Panels shall exhibit no delamination, surface blisters, permanent bowing or deformation when subjected to cyclic temperature extremes of minus 36 deg. F to plus 180 deg. F temperatures for twenty one, eight-hour cycles.
3. Water Penetration: There shall be no uncontrolled water penetration through the panel joints at a pressure differential of 20 psf, when tested in accordance with ASTM E331.
4. Dynamic Water Penetration: There shall be no uncontrolled water penetration through the panel assembly at a pressure difference of 15 psf, when tested in accordance with AAMA 501.1.

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5. Air Infiltration: Air infiltration through the panel shall not exceed 0.01 cfm/sf at 6.24 psf air pressure differential when tested in accordance with ASTM E283.
6. Humidity Test: Panels shall exhibit no delamination or metal interface corrosion when subjected to plus 140 deg. F temperature and 100 percent relative humidity for a total of 1500 hours (62 days).
7. Autoclave Test: Panels shall exhibit no delamination or shrinkage/melting of the foam core from the metal skins after being subjected in an autoclave to a pressure of 2psig (13.8kPa) at a temperature of plus 218 deg. F (plus 103 deg. C) for a period of 2 1/2 hours.
8. Seismic Performance: Comply with ASCE 7, Section 13, "Seismic Design Requirements for Non-Structural Components". Panels shall be hard-fastened to structure along one edge only such that lateral slippage between panels can occur in the event of seismic activity.
9. Fire Test Response Characteristics: Steel-faced panels with polyisocyanurate (POLYISO) core shall fully comply with Chapter 26 of International Building Code regarding the use of Foam Plastic.
    a. Flame Spread and Smoke Developed Tests on exposed Insulating Core:
        1) ASTM E84 Flame spread and smoke developed indices:
            a) Flame Spread: 25 or less.
            b) Smoke Developed: 450 or less.
    b. UL1715 Fire Test of Interior Finish Material: Successfully passed acceptance criteria.
    c. NFPA 259 Potential Heat Content; established for foam core.
    d. NFPA 268 Ignitability of Exterior Wall Assemblies Using a Radiant Heat Source; successfully passed acceptance criteria.
    e. NFPA 285 Intermediate Scale Multi-story Fire Evaluation; successfully passed acceptance criteria when installed per listed details.
    f. UL 263 Fire Resistive Rating; classified as a component of a fire-rated wall assembly for 1-hour and 2-hour rating Design No. U053 (rated assemblies include appropriate layers of fire-rated Type X Gypsum board).
    g. CAN/ULC S101 Standard Methods of Fire Endurance Tests of Building Construction Materials
        1) Fire Endurance Test – 10 minutes: 3 inch or greater Panels remained in place without joint stitch fastening
        2) Fire Endurance Test – 10 minutes: Less than 3 inch Panels remained in place with joint stitch fastening
    h. ASTM D1929 Minimum Flash and Self Ignition; established for foam core.
    i. S101, S102, S127, S134, S138 UL Canada fire test standards; successfully passed.

10. Insulating Core: Polyisocyanurate (POLYISO) core, ASTM C591 Type IV, CFC and HCFC free, compliant with Montreal Protocol and Clean Air Act, with the following minimum physical properties:

    a. Core is 95 percent closed cell when tested in accordance with ASTM D6226
    b. Panel shall provide a nominal total R-value of 23(U value of 0.046) in accordance ASTM C1363.
    c. Foam has a density of 2.2 to 2.8 pounds per cubic foot when tested in accordance with ASTM D1622
    d. Compressive Stress: Panels shall have a compressive stress of 24 psi. when tested according to ASTM D1621
    e. Shear Stress: 22 psi when tested in accordance with ASTM C273
    f. Tensile Stress: 24 psi when tested in accordance with ASTM D1623
    g. Oven Aging at 212 degrees F:

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1) 14 days: minus 0.6 percent volume change
2) Tested according to ASTM D2126

h. Low Temperature Aging at minus 40 degrees F:
1) 14 days: minus 0.2 percent volume change
2) Tested according to ASTM D2126

B. Paint Finish Characteristics:

1. Gloss: 15 ± 5 measured at 60 degree angle tested in accordance with ASTM D523.
2. Pencil Hardness: HB-H minimum tested in accordance with ASTM D3363.
3. Flexibility, T-Bend: 1-2T bend with no adhesion loss when tested in accordance with ASTM D4145.
4. Flexibility, Mandrel: No cracking when bent 180° around a 1/8 mandrel as tested in accordance with ASTM D522.
5. Adhesion: No adhesion loss tested in accordance with ASTM D3359.
6. Reverse Impact: No cracking or adhesion loss when impacted 3000 by inches of metal thickness (lb-in), tested in accordance with ASTM D2794.
7. Abrasion Resistance: Nominal 65 liters of falling sand to expose 5/32 inch diameter of metal substrate when tested in accordance with ASTM D968.
8. Graffiti Resistance: Minimal effect.
9. Acid Pollutant Resistance: No effect when subjected to 30 percent sulfuric acid for 18 hours, or 10 percent muriatic acid for 15 minutes when tested in accordance with ASTM D1308.
10. Salt Fog Resistance: Passes 1000 hours, when tested in accordance with ASTM B117 (5 percent salt fog at 95 deg. F).
11. Cyclic Salt Fog and UV Exposure: Passes 2016 hours when tested in accordance with ASTM D5894.
12. Humidity Resistance: Passes 1500 hours at 100 percent relative humidity and 95 deg. F, with a test rating of 10 when tested in accordance with ASTM D2247, and D714.
13. Color Retention: Passes 5000 hours when tested in accordance with ASTM G153 and G154.
14. Chalk Resistance: Maximum chalk is a rating of 8 when tested in accordance with ASTM D4214, Method A.
15. Color Tolerances: Maximum of 5ΔE Hunter units on panels when tested in accordance with ASTM D2244.

C. Panel Assembly:

1. Panel thickness: 2-3/4” or 3 inches thick.
2. Panel width: 36” or 42 inches
3. Panel Lengths: Minimum 8 feet, maximum 33.
4. Panel Attachment: Shall consist of fasteners and 16 gauge galvanized Kingspan Rail subgirt integrated with the panel side joint.
5. Horizontal Panel Joint Reveals: 3/8 inch.

6. Vertical Joint Treatments (for horizontal panels):

a. Panel trimless ends with black gasket insert
b. Surface mounted top hat metal flashing

7. Vertical Panel Joint Reveals: 3/8 inch.
8. Exterior Face of Panel:

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a. Material:

1) Steel coil material shall be in accordance with ASTM A755: Grade 33, G90 galvanized steel in accordance with ASTM A653 and A924
2) Gauge: 26 gauge

b. Profile: Shadowline
c. Texture: Non-directional stucco embossed
d. Exterior Paint Finish Color:

1) Selected from current manufacturers color chart.
2) Finish System:

a) 1.0 mil. Fluropolymer (PVDF) Two Coat system: 0.2 mil primer with 0.8 mil Kynar 500 (70 percent) SOLID color coat.

9. Interior Face of Panel:

a. Material:

1) Steel coil material shall be in accordance with ASTM A755: Grade 33, G90 galvanized steel in accordance with ASTM A653 and A924 .

b. Profile: Shadowline.

1) Profile description: Linear striations nominal 0.0625 inch deep by 3/4 inches wide at 3 inches on center.

c. Texture: Non-directional stucco embossed.
d. Gauge: 26 gauge.
e. Interior Finish: Modified polyester, dry film thickness of 1.0 mil including primer
f. Color: Selected from the current Kingspan Insulated Panels stock color chart.

D. Rails: Manufacturer's standard, ASTM A653 cold-formed, G90 hot-dip galvanized Rails.

2.3 Insulated Barrier Wall ACCESSORIES

A. Fasteners:

1. Self drilling fasteners shall be corrosion resistant plated steel with neoprene bonded washer, as recommended by manufacturer.
2. Material: Hex-head type with steel and neoprene washer and 12 gauge stainless steel clip supplied by the manufacturer.
3. Size: As recommended by manufacturer.

B. Perimeter Trims:

1. Fabricated perimeter trim and metal flashing: Shall be same gauge, material and coating color as exterior face of insulated metal wall panel.

C. Sealants: Butyl, non-skinning/curing type as recommended by manufacturer.

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D. Butyl Tape: As recommended by manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Provide field measurements to manufacturer as required to achieve proper fit of the preformed wall panel envelope. Measurements shall be provided in a timely manner so that there is no impact to construction or manufacturing schedule.

B. Supporting Steel: All structural supports required for installation of panels shall be by others. Support members shall be installed within the following tolerances:

1. Plus or minus 1/8 inch in 5 feet in any direction along plane of framing.
2. Plus or minus 1/4 inch cumulative in 20 feet in any direction along plane of framing.
3. Plus or minus 1/2 inch from framing plane on any elevation.
4. Plumb or level within 1/8 inch at all changes of transverse for pre-formed corner panel applications.
5. Verify that bearing support has been provided behind vertical joints of horizontal panel systems and horizontal joints of vertical panel systems. Width of support shall be as recommended by manufacturer.

C. Examine individual panels upon removing from the bundle; notify manufacturer of panel defects. Do not install defective panels.

3.2 BARRIER WALL PANEL INSTALLATION

A. Installation shall be in accordance with manufacturer's installation guidelines and recommendations.

1. Multi-story installation fire stopping as recommended by manufacturer or otherwise indicated on the approved shop drawings

B. Install panels plumb, level, and true-to-line to dimensions and layout indicated on approved shop drawings.

C. Cut panels prior to installing, where indicated on shop drawings, using a power circular saw with fine tooth carbide tip blade per manufacturer's instructions. Personnel should wear respiratory and eye protection devices.

D. Butyl Weather Barrier Sealant:

1. Apply non-skinning butyl sealant as shown on shop drawings and manufacturer's installation instructions as necessary to establish the vapor barrier for the panels.
2. Use non-skinning butyl tube sealant only for tight metal-to-metal contact.
3. Do not use non-skinning butyl tube sealant to bridge gaps.

E. Rail Attachment

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1. Attachment at panel joint: Place panel fasteners through Rails. Fasteners are concealed within the joint of the panel. Set fastener in Butyl Sealant. Secure Rail to structural supports.
2. Secure opposite side of Rail, using manufacturer recommended fasteners.
3. Space fasteners as recommended by manufacturer or otherwise indicated on the approved shop drawings.
4. Alter Rails as required to accommodate panel accessories per approved shop drawings and manufacturer's standard details.

F. Install perimeter trim for insulated barrier wall panels, where indicated and where trim will be concealed by finish materials.

G. TRIM INSTALLATION

1. Place trim and trim fasteners only as indicated per details on the approved shop drawings.
2. Field drill weep holes where appropriate in horizontal trim; minimum 1/4 inch diameter at 24 inches on center.
3. Place a continuous strip of butyl tube sealant between the inside back face of closure trims and interior panel faces for proper vapor seal.

H. SEALANT INSTALLATION FOR EXPOSED JOINTS

1. Clean and prime surfaces to receive exterior exposed sealants in accordance with sealant manufacturer's recommendations.
2. Follow sealant manufacturer's recommendations for joint width-to-depth ratio, application temperature range, size and type of backer rod, and compatibility of materials for adhesion.
3. Direct contact between butyl and silicone sealants shall not be permitted.

I. TRIM INSTALLATION

1. Place trim and trim fasteners only as indicated per details on the approved shop drawings.
2. Field drill weep holes where appropriate in horizontal trim where indicated on shop drawings.
3. Place a continuous strip of butyl tape or butyl sealant on closure trims for the length of the panel to be covered as indicated on shop drawings.

3.3 FIELD QUALITY CONTROL

A. Testing shall be performed on Barrier Wall Panel prior to the installation of the finish wall materials.

B. Testing Agency: General Contractor shall engage an independent testing and inspection agency acceptable to the architect to perform field tests and inspections and to prepare reports of findings.

C. Field Water Test: After completing portion of metal wall panel assembly including accessories and trim, test a 2-bay area selected by the architect for water penetration in accordance with AAMA 501.2.

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3.4 CLEANING AND PROTECTION

A. Remove protective film immediately after installation.

B. Touch-up, repair or replace metal panels and trim that have been damaged.

C. After metal wall panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.

END OF SECTION

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SECTION 11 19 30

SECURITY HARDWARE AND SLIDING DOOR DEVICES

PART 1 - GENERAL

1.1 SUMMARY

A. Detention Equipment Contractor (DEC) shall furnish plant and field labor, equipment, appliances, services and materials, perform work and otherwise assume all responsibility related to fabrication and installation of detention equipment indicated in this section.

B. DEC shall coordinate with installation of electronic security automation systems provided under Division 28 in strict compliance with Contract Documents.

1.2 SECTION INCLUDES ALL HARDWARE REQUIRED FOR PROPER OPERATION OF SECURITY AND DETENTION DOORS

A. Detention hardware and locking devices.
1. Swinging detention doors.
2. Sliding detention doors.
3. Security access panels.
4. Security roof hatches.
5. Key cabinets.
6. As required by the contract documents.

B. Builders' hardware and accessories for detention doors and frames.

C. Appurtenances for detention doors, frames and partitions.

D. Coordinate with installation of electronic security automation systems provided under Division 28.

1.3 RELATED WORK TO BE PERFORMED BY OTHERS

A. Division 9 - Finishes

1. Remove foreign materials such as mortar, plaster, concrete, waterproofing and dust from surfaces of hardware prior to finish painting.

2. Retouch shop coat of rust inhibiting primer paint and finish paint hardware after installation and final adjustment.

3. Complete floor finishes, waterproofing, plastering and painting on or near detention equipment after installation and final adjustment.

B. Division 11
1. 11 19 20 - Detention Hollow Metal Doors and Frames

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2. 11 19 40 - Detention Security Windows
3. 11 19 50 - Detention and Security Glass and Glazing

C. Division 28 – Security Electronics

1.4 SUBMITTALS

A. Submit shop drawings for approval prior to fabrication and delivery of materials or products.

B. Provide CADD-generated drawings:

1. Include dimensions, configurations of materials, and connection details required to clearly convey the proper relationship of detention equipment to work being performed by others.

4. Show sizes, details of construction, assembly methods, hardware, and other details of items specified in this Section.

3. Draw to scale of not less than 1/4 inch equals 1 foot for plans and 1 inch equals 1 foot for sections.

C. Include following minimum requirements in initial submittal package:

1. Keying plan:
   a. Submit proposed keying plan for each floor of each building.
   b. Identify room numbers and each detention door or piece of equipment to be operated by key.
   c. Identify electrically controlled or operated doors with an "E" symbol.
   d. Prefix lock types as follows: "P" for Paracentric, "M" for mogul, "C" for commercial and "HS" for high security.
   e. Exclude dimensions and other equipment information from this plan.

2. Hardware schedule:
   a. Submit eight (8) copies. Include specification references and product comparisons.
   b. Submit hardware on vertical schedule.
   c. Indicate project name, location, Architect, GC, hardware suppliers and AHC preparing schedule.
   d. Include hardware items proposed for use at each opening, as well as other hardware necessary to complete work of this Section.
   e. Include for each item:
      1. Manufacturer's name, catalog number and type designation
      2. Quantities
      3. Size
      4. Finish
   f. Indicate degree of opening for each door, Architect's hardware set number, finishes and substitutions proposed for specified items.
   g. List doors required in this Section in numerical order and show keying proposed for each in accordance with keying plans.
   h. Provide single samples of each item of hardware specified for use on this project. Samples will not be returned.

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3. Failure to provide any part of minimum requirements described above will result in rejection of total submittal package.

D. Discrepancies:

1. Direct Architect's attention to any discrepancies between detention equipment drawings and Contract Drawings.

2. Subsequent discrepancies that may be discovered by other contractors during construction are to be immediately reported to Architect and DEC for resolution.

3. Other contractors shall not proceed with any work affecting detention equipment until such discrepancies are completely resolved.

E. Architect will not coordinate drawings for composite parts of joint-venture efforts under this Section. Partial or separate drawing submittals for various components required herein will result in rejection of total submittal package.

F. Provide drawings for field distribution and contract records after approval of all submittals.

1.5 TEST REPORTS

A. Testing Laboratory:

1. Independent testing laboratory capable of compliance with specifications of American Society for Testing and Materials (ASTM).

2. Selected by DEC.

3. Approved by Architect.

4. Furnish certification and reports directly to DEC with copies for transmittal to Architect.

B. DEC responsibilities:

1. Absorb costs associated with testing.

2. Submit test reports to Architect prior to delivery of following materials to job site:
   a. Hardware.

1.6 REGULATORY REQUIREMENTS

A. Perform work in compliance with latest editions of:

1. Federal, state, and local codes and ordinances, or agencies having jurisdiction.

2. National Electric Code, NFPA 70.

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3. Standard for Fire Doors and Windows, NFPA 80.

4. Life Safety Code, NFPA 101-88.

B. In cases where Specifications call for materials or construction of better quality or larger size than codes require, Specifications shall take preference. Codes shall govern in cases of direct conflict with Specifications or Contract Drawings.

1.7 DELIVERY, STORAGE AND HANDLING

A. Packing and shipping:

1. Wrap and crate finished components and assemblies at factory to prevent damage or marring of surface finishes during shipping and handling.

2. Stretch-wrap locking and operating devices and control consoles to protect from dust and debris.

3. Handle and transport detention equipment to job site carefully to prevent damage.

B. Acceptance at site:

1. Coordinate delivery of detention equipment embedded items with GC in accordance with construction progress and schedule to avoid delays.

2. Coordinate size of building access and route to location of equipment installation with GC.

3. Upon delivery, immediately inspect components and assemblies for damage and remove damaged items from job site. Damaged components will be rejected and will not be incorporated into the work.

4. General Contractor:
   a. Receive from carrier, unload, and store materials furnished under this section but not installed by DEC.
   b. Install embedded items in correct locations, plumb, true, and to tolerances prescribed by DEC.

C. Storage and protection:

1. Provide adequate protection for products and materials during storage and installation.

2. General Contractor:
   a. Provide adequate protection for materials furnished under this section but not installed by DEC during storage and after installation.
   b. Provide secure, dry storage area or room for DEC storage in each building and on each floor.

1.8 SEQUENCING AND SCHEDULING

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A. Submit detailed schedule of field installation activities to Architect or GC, as applicable at least two months before field installation is to begin. Include activities to describe all aspects of field installation.

B. Submit revised schedule to Architect or GC, as applicable each month showing status of each activity and revised project completion date.

1.9 WARRANTY

A. Prior to final acceptance, provide Owner with written warranty covering locking and operating devices furnished under this section for period of one (1) year from date of substantial completion. During this period, make necessary repairs and corrections to defects in Work and replace defective parts at no cost to Owner.

B. Warranty does not cover consequential or incidental damages. Work made necessary by abuse, misuse, accidents, or negligence of using personnel is excluded from this agreement.

B. Provide emergency service during warranty period, including maximum twenty-four (24) hour response time for emergency calls requiring visits to facility.

C. Special Warranty: Manufacturer agrees to repair or replace components of detention door hardware that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Structural failures including excessive deflection, cracking, or breakage.
b. Faulty operation of electrical and/or mechanical components.
c. Deterioration of metals, metal finishes, and other materials beyond normal weathering or detention use.

2. Warranty Period for Security Door Closers: Ten (10) years from date of Substantial Completion.

1.10 MAINTENANCE MANUALS/SPARE PARTS

A. Operating and maintenance manuals: Provide Owner with two (2) operating and maintenance manuals for locking and operating devices furnished and installed under this section. Clearly identify all parts and include manufacturer's standard part number for each component of various mechanisms.

B. Spare Parts:

1. Furnish one (1) complete spare set of right and left hand motors, gears, locks and switches for each type specified per hardware schedule.

2. Pack parts in suitable containers and label clearly.

3. Provide building maintenance department with two (2) of each type of special tools required

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for installation, removal, or adjustment of hardware and equipment provided under this section.

1.11 KEYS FOR DETENTION LOCKS

A. Provide for safekeeping of keys for locks provided under this section. Ensure that building security is not breached through job site loss or theft of keys being used for hardware installation or "fit-up" purposes.

B. Die-stamp each key for detention locks with identification designated on approved keying schedule.

C. Upon completion of Work and prior to final acceptance, present one (1) complete set of keys to Owner's designated representative and obtain a signed receipt. Send subsequent keys ordered to same individual via registered mail, return receipt requested.

E. By no means shall any keys be turned over directly to the Contractor.

F. Submit a total of five (5) sets of keys.

PART 2 - PRODUCTS

2.1 DETENTION HARDWARE AND LOCKING DEVICES

A. Pre-qualified manufacturers:

1.	Hinges:	Specified – Willoughby Industries (WI) Acceptable – NW Specialty Hardware
2.	Locksets:	Specified – Willoughby Industries (WI) Acceptable – Approved equal
3.	Electric Strikes:	Specified – HES (HS) Acceptable – Approved equal
4.	Sliding Door Operators:	Specified – Titan Steel Door (TN) Acceptable – Approved equal
5.	Concealed Door Closers:	Specified – LCN (LC) Acceptable – Approved equal
6.	Door Pulls:	Specified – Willoughby Industries (WI) Acceptable – NW Specialty Hardware
7.	Thresholds and Gasket:	Specified – National Guard Products (NG) Acceptable – Approved equal

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8. Floor/Wall Stops: Specified – Pauly Jail (PJ)
Acceptable – Approved equal

Other Acceptable Manufacturers:

1. R.R. Brink Locking Systems, Shorewood, Illinois

2. Southern Folger Detention Equipment Company, San Antonio, Texas

B. Non-Prequalified Manufacturers:

1. Any Non-Prequalified Manufacturer who intends to submit a bid on this section of the Specifications shall submit the following data to the Architect in writing fourteen (14) days prior to bid date and shall be approved by addendum seven (7) days prior to bid date. Verbal approval will not satisfy this requirement. Grounds for disqualification shall exist if it is proven that the information submitted is inaccurate or, in the opinion of the Architect, does not satisfy the requirements.
   a. Provide a narrative and historical description of the firm from inception, including history of ownership, partnership, incorporation, and/or other organizational information. Include information on the growth of the firm over time to include the number of employees, relocation(s) of the firm, major production equipment purchases and replacements.
   b. List the firm's business volume (dollar amount) for the last five (5) fiscal years.
   c. Provide a statement that the firm has been in business for a minimum of ten (10) continuous years, and the principals and key personnel that have been engaged in successfully providing procurement, management, installation and commissioning of security detention projects.
   d. Provide a list of all employees in a supervisory capacity, stating their area of responsibility and their years of experience in that capacity.
   e. Submit a list of all projects completed in the last ten (10) years.
   f. Submit a list of five (5) projects that this corporation, under its current name, has built in the last five (5) years comparable in size and construction. Include in this list:
      1. Project Name, Owner, Contract Name, Address and Phone Number.
      2. Project Manager Name, Address and Phone Number.
      3. Using Agency Name, Address and Phone Number.
      4. Architect and Engineer of Record Name, Address and Phone Number.
      5. General Contractor and/or Construction Manager Name, Address and Telephone Number.

      For each project listed provide the following:
      1. Name and location of project.
      2. Type of project (state or federal prison, county or city jail)
      3. Project delivery method (traditional, design/bid/build, design/build, design/build/manage, general construction, construction manager, etc.)

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4. Scope of the Project including total number of cells, total project square footage, type of product and service provided on that project, and the total quantity of the contract.
5. Date of final completion and occupancy.

g. Submit a list of five (5) projects that this corporation, under its current name, has built in the last ten (10) years comparable in size and construction that have been in continuous operation for a minimum of five (5) years. Include in this list:
   1. Project Name, Owner, Contact Name, Address and phone number.
   2. Project Manager Name, Address and Phone Number.
   3. Using Agency Name, Address and Phone Number.
   4. Architect and Engineer of Record Name, Address and Phone Number.
   5. General Contractor and/or Construction Manager Name, Address and Telephone Number.

   For each project listed provide the following:
   1. Name and location of project.
   2. Type of project (state or federal prison, county or city jail)
   3. Project delivery method (traditional, design/bid/build, design/build, design/build/manage, general construction, construction manager, etc.)

h. Provide an audited financial statement from a recognized accounting firm for the most recent fiscal year.

i. Submit a listing of all projects in which the detention equipment contractor is presently or has been involved in litigation and the status thereof. In addition to this statement, please respond to the following questions A through G. For any "YES" answer to the following questions, please attach a separate sheet, which provides a brief explanation of the facts, names of the parties involved, dollar amount being claimed from your firm, and the present status of the case. Attach explanations of any lawsuit alleging negligent of defective work, or breach of contract on part of the firm. Do not include lien matters, automobile accident cases, or workman's compensation cases:
   1. Has a court issued a judgment of $50,000.00 of more against the firm or its predecessors in the past five (5) years?
      _____ YES _____ NO
   2. Has the firm or its predecessors been party to the settlement of a lawsuit with a potential value of $50,000.00 or more?
      _____ YES _____ NO
   3. Is the firm or its predecessors currently a party to a pending lawsuit with a potential value of $50,000.00 or more?
      _____ YES _____ NO
   4. In the past five years, has any key person, the firm or its predecessors defaulted on a loan?
      _____ YES _____ NO
   5. Has the firm of its predecessors or any person of the firm or its predecessors ever been suspended or debarred by a state, federal or municipal agency?
      _____ YES _____ NO
   6. In the past five (5) years, has the firm or its predecessors been terminated on or failed to complete any contract?

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_____ YES _____ NO

j. Submit a statement that you will conform with the following in regard to project coordination, procurement, schedules, and delivery of materials necessary to complete your scope of work.
   1. The Manufacturer must complete the submittal package of all items listed below within six weeks of written notice to proceed.
      a. Hardware Schedule – including wiring diagram and templates.
   2. The submitted manufacturers must commit in writing to the following schedule. The Architect or Construction Manager maintains the right to make adjustments to the schedule prior to contract execution.
      a. Shipment of all detention door hardware within twelve (12) weeks.

C. Key cylinders and tumbler sets:

1. Each paracentric key lock will include six (6) lever tumblers. Maximum clearance between tumbler gate and locking fence is 0.31 inches. Fit tumblers to allow for .025 inches of wear before the replacement of a key is required. Tumblers shall be spring temper bronze alloy C-26000 with notched gate edge.

2. Mogul pin tumbler cylinder shall be brass, 2 inches in diameter, with stainless steel balls, tumblers and springs. Cylinders to comply with UL 437 and be labeled by nationally recognized independent testing laboratory.

D. Paracentric keys:

1. Material: Silicon bronze/copper alloy with tensile strength of 60,000 psi, yield strength of 20,000 psi and Rockwell hardness of B-73/75.

2. Stamp with key code as directed.

3. Furnish five (5) keys for each code.

E. Mogul keys:

1. Material: Stamp from CDA-78200 hard temper alloy with Rockwell hardness of B-85.

2. Stamp with key code as directed.

3. Furnish five (5) keys per code.

F. Type: Door Hinges – Basis of design: WSH4545

1. Meets or Exceeds ASTM F-1750-03 Grade 1 Security Hinge Rating
2. ANSI/BHMA A156.7 Hinge Pattern
3. 4-1/2" x 4-1/2" x 3/16"
4. Cast 304 Stainless Steel
5. Brushed Stainless Finish
6. Anti-Friction Wear Resistant Bearings

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7. Rated For 300lb Door w/ 3 Hinges per ASTM F-1750-03
8. 1/4-20 Flat Head Security Screws Provided

G. Type: Food Pass/Cuff Port Hinges – By door manufacturer.

2.02 – LOCKS AND KEYING

A. Electromechanical Operation – Basis of design: WLS-1520 Series

1. Lock case and cover are constructed of 11-gauge stainless steel. All internal parts including strike plate are machined stainless, cast stainless steel and other non-ferrous alloys. Fitted for mechanical operation via either proprietary Mogul or user's commercial key cylinder.
2. Provide locks that are compatible with a stop (push) side cylinder access pocket. Key cylinder
extensions (KCE) are not acceptable.
3. UL Listed to 3 hours per UL10B.
4. Provide internal lock status switch. Provide model number WLS-DPS-FM door position switch in parallel to ensure positive, tamper resistant signaling of a closed and deadlocked door.
5. Provide locks with half-cycle latch hold-back function.
6. Exposed fasteners: Pinned Torx head.
7. Certification: ASTM F1577 Grade 1 criteria.

B. Mechanical Deadbolt – Basis of design: WLS-1710 Series

1. Investment cast stainless steel.
2. Stainless steel deadbolt.
3. Bolt throw: 5/8".
4. Bolt size: 1-1/2" x 3/4".
5. Provide bolt keeper with dust box, WL-8002DB.
6. Provide locks for Hollow Metal Mounting.

C. Mechanical Food Pass/Cuff Port Lock – Basis of design: WLS-1717 Series

1. Investment cast stainless steel.
2. Stainless steel latch.
3. Latch size: 1-1/2" x 3/4"

D. Mechanical Automatic Deadlatch – Basis of design: WLS-1770 Series

1. Investment cast stainless steel.
2. Stainless steel deadlatch with two hardened steel inserts.
3. Latch throw: 3/4".
4. Latch size: 2" x 3/4".
5. Provide 1-way escutcheon, EC-1.
6. Provide bolt keeper with dust box, WL-8002DB, standard; WL-8002PS at monitored locations.
7. Provide locks for Hollow Metal Mounting.
8. UL Listed to 3 hours per UL10B.

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D. Mechanical Automatic Deadlatch – Basis of design: WLS-1780 Series

1. Investment cast stainless steel.
2. Stainless steel deadbolt with three hardened steel inserts.
3. Latch throw: 3/4”.
4. Latch size: 2” x 3/4”.
5. Provide 1-way escutcheon.
6. Provide bolt keeper with dust box, WL-8002DB, standard; WL-8002PS at monitored locations.
7. Provide locks for Hollow Metal Mounting.
8. Certification: ASTM F1577 and F1450 Grade 1 criteria.

E. Mortise Lever Lockset – Basis of design: WLS-1100 Series

1. Stainless steel lock case, armor front, springs, and working parts.
2. Solid forged-brass trim cannot be removed when the door is in the closed and locked position. Conceal all mounting screws. A locked or inactive knob spins freely to prevent forced breakage of the lock works.
3. Latch made of stainless steel with a full 3⁄4” throw.
4. Stainless steel strike plate.
5. Exposed fasteners – pinned “Torx” head.
6. Provide a lever handle and track set.

G. KEYS AND KEYING

1. The DEC will meet with the Architect and Owner to review the keying schedule and systems layout. All locks are to be keyed as directed as a result of this meeting.
2. Mogul type cylinder shall be keyed in sets and master keyed to level as directed.
    a. Provide five (5) keys per key alike set.
    b. Provide five (5) keys per master level.
3. Paracentric type cylinder shall be keyed alike in sets, no master key.
    a. Provide five (5) keys per key alike set.
4. All keys shall be stamped with number or letter combination as directed.

H. KEY CONTROL SYSTEM

1. Key Cabinets and components as manufactured by Telkee, out of 18-gauge steel (minimum). System shall include completely set up three-way cross index system, installation of keys and tag system, and instructions to the owner on proper use of the system. Cabinet to be size to accommodate one complete set of all detention building keys. Allow for 50% future expansion.

2.04 – DOOR CLOSERS – Basis of design: LCN 2210 Series

1. Vandal resistant design for concealed mounting.
2. Handed for right or left swinging doors.
3. Closers to meet ADA reduced opening force requirements.
4. All closers furnished with Torx tamper resistant machine screws

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5. Full rack and pinion hydraulic action.
6. UL certified for three hours in compliance with UL10C.
7. 15-year warranty.

2.05 – DOOR POSITION SWITCH – Basis of design: WLS-DPS-FM Series

1. Furnish magnetic concealed door position switches. Switch is single pole double throw type with rating of .5 amps at 24V maximum.

2.06 – MISCELLANEOUS HARDWARE

1. Combo Pull: As specified in the hardware sets: WPP0310 Series
2. Loop Pull: As specified in the hardware sets: WDP0108 Series
3. Protection plates (kick and armor) shall be .050 thick type 304 stainless steel. Kickplates shall be 8" high. Plates shall be 2" less than door width. All protection plates are to be mounted with stainless steel pop rivets.
4. Provide silencers in metal door frames, unless not permitted for fire rating, or unless bumper-type weatherstripping is provided; three per single door frame, two per double door frame. All exterior doors to have bumper type weatherstripping.
5. Threshold and weather seal: As specified in hardware sets.
6. Passage set for Fire Label openings, if necessary: WLS-1100 Series.

2.2 – FINISHES:

A. Unless noted in the hardware groups, finished are to be furnished as follows:

1.	Hinges	Stainless Steel	630/US32D
2.	Cylinders	Brushed Chrome	626/US26D
3.	Closers	Painted Aluminum	689
4.	Pulls	Stainless Steel	630/US32D
5.	Thresholds/Rigid Gasket	Anodized Aluminum	628
6.	Self-Adhesive Gasket	Charcoal	
7.	Floor/Wall Stops	Black	

PART 3 - EXECUTION

3.1 VERIFICATION OF CONDITIONS

A. Examine areas and surfaces to receive materials, assemblies and equipment furnished and installed under this section:

1. Verify proper location of embeds, frames and items installed by others.

2. Check rough-ins and field dimensions of building construction.

3. Inspect concrete and masonry to ensure construction within required tolerances.

4. Confirm locations of materials ingress openings in building.

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B. Report unsatisfactory conditions to Architect in writing. Do not begin installation of detention equipment until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. General Contractor:

1. Provide openings through exterior and interior building walls to accommodate ingress of detention equipment. Coordinate sizes and locations of openings with DEC.

2. Ensure accuracy of building construction, including sizes and locations of beams and columns, concrete and masonry walls, evenness of concrete and dimensional consistency.
   a. Concrete floors and ceilings should be level and true.
   b. Where concrete is uneven, chip or grout as required for proper fit between detention equipment steel and concrete.

3. Broom clean, properly light and heat areas of building where detention equipment is to be installed.

4. Prior to installation of electrical and mechanical hardware or locking and operating devices and controls, exterior closing walls should be in place, exterior windows glazed, and roof completely installed to prevent weather damage to components. Provide DEC written notification to proceed with installation once these conditions have been met. Installation will not commence until DEC receives written notification.

5. Provide 220 volt AC, 60 cycle, 3 phase power for use by DEC in connection with installation of detention equipment.
   a. If permanent power service is not available within reasonable access to detention areas when installation of detention equipment begins, provide temporary power (50 amps per welding machine) and bear expense.
   b. If sufficient temporary power is not available, reimburse DEC for extra labor and fuel required for use of gasoline welding machines.

5. Steel Detention Doors and Frames: Comply with BHMA A156.115 Series.

6. Surface-Applied Detention Door Hardware: Drill and tap detention doors and frames according to SDI A250.6.

3.3 INSTALLATION

A. General:

1. Install fixtures, materials, assemblies and equipment listed in Articles 1.2 and 1.4 in strict compliance with Specifications, Contract Drawings and manufacturers' recommendations and instructions.

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2. Provide necessary drawings, setting diagrams or other information required to Contractor responsible for installation of DEC-furnished items to be installed by others.

3. Supervise installation of electronic security systems provided under Division 28.

B. Attachment and connection of detention equipment:

1. Secure detention equipment permanently in place with minimum of exposed fasteners and free from warp, twists, bends, rough edges, cracks or open joints. Exposed fasteners shall be uniform in size, spacing and appearance and shall be tamper-resistant.

2. Punch bolt holes not more than 1/16 inch larger in diameter than bolts to be used. Accurately space and align holes to permit insertion of bolts. When bolts are used, nuts shall be tightly drawn and bolt threads battered to prevent removal.

3. Remove loose scale, rust, oil and other foreign matter from surfaces to be welded. Welds shall show uniform cross-sections, good penetration of base metals, smoothness of weld metal with a minimum of craters, porosity and clinkers.

4. Thoroughly clean burns, welds and welding spatter on detention equipment resulting from fabrication and installation.

5. Welds which are neat in appearance and evenly spaced shall not require grinding.

C. Supervision:

1. Work shall be performed under direct supervision of competent, experienced, factory-trained project superintendent who shall be full-time employee of DEC.

2. DEC's superintendent shall be present at job site during all phases of installation of detention equipment.

3. DEC shall be responsible for conduct and performance of jobsite personnel and shall ensure that Work progresses without serious conflict with related work being performed simultaneously by other trades.

3.4 ADJUSTING

1. Adjust and check each operating item of detention door hardware and each detention door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust detention door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
2. Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.

3.5 CLEANING AND PROTECTION

1. Clean adjacent surfaces soiled by detention door hardware installation.
2. Clean operating items as necessary to restore proper function and finish.

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3. Provide final protection and maintain conditions that ensure that detention door hardware is without damage or deterioration at time of substantial completion.

3.6 DEMONSTRATION

A. Provide designated custodial personnel instruction in proper operation of detention equipment and electronic security systems for a period of time not less than three (3) working days.

C. Provide designated maintenance personnel instruction in proper maintenance of detention equipment and electronic security systems for a period of time not less than three (3) working days.

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3.7 HARDWARE SCHEDULE

Hardware Set S01.1 Cell Retro 8" Lock
Each to receive:

3	EA	Hinge	WSH4545K 4.5" x 4.5" US32D	WI
1	EA	Elec. Jamb Lock	WLS-1520M-K1 -24VDC US32D	WI
1	EA	Retro 8" Jamb Lock	WLS-Retro 8" Jamb Lock US32D	WI
1	EA	Loop Pull	WDP0108K US32D	WI
1	EA	#2 Flush Pull	8000056 (By Door Mfr)	TN
1	EA	Wall Stop	WS-01 Black	FP
3	EA	Silencer	SR64-GRY	IV
1	EA	Magnetic DPS	WL1020-0249 US32D	WI

Hardware Set S01.1.1 Cell Retro 2" Lock
Each to receive:

3	EA	Hinge WSH4545K 4.5" x 4.5" US32D	WI	
1	EA	Elec. Jamb Lock	WLS-1520M-K1 -24VDC US32D	WI
1	EA	Retro 2" Jamb Lock	WLS-Retro 2" Jamb Lock US32D	WI
1	EA	Loop Pull	WDP0108K US32D	WI
1	EA	#2 Flush Pull	8000056 (By Door Mfr)	TN
1	EA	Wall Stop	WS-01 Black	FP
3	EA	Silencer	SR64-GRY	IV
1	EA	Magnetic DPS	WL1020-0249 US32D	WI

Hardware Set S02.2 Masonry Cell - Slam Lock/FP
Each to receive:

3	EA	Hinge WSH4545K 4.5" x 4.5" US32D	WI	
2	EA	FP Hinge	TFP-852330 USP (By Door Mfr)	TN
1	EA	Deadlatch	WLS-1770-K1 -OS-SD-EC1 US32D	WI
1	EA	Food Pass Lock	WLS-1717 US32D	WI
1	EA	Loop Pull	WDP0108K US32D	WI
1	EA	#2 Flush Pull	8000056 (By Door Mfr)	TN
1	EA	Wall Stop	WS-01 Black	FP
3	EA	Silencer	SR64-GRY	IV

Hardware Set S04.1 Corridor/General Use
Each to receive:

3	EA	Hinge WSH4545K 4.5" x 4.5" US32D	WI	
1	EA	Elec. Jamb Lock	WLS-1520M-K2 -24VDC US32D	WI
1	EA	Loop Pull	WDP0108K US32D	WI
1	EA	Combo Pull	WPP0310K US32D	WI
1	EA	Concealed Closer	2214 .689 LC	
1	EA	Wall Stop	WS-01 Black	FP
3	EA	Silencer	SR64-GRY	IV
1	EA	Magnetic DPS	WL1020-0249 US32D	WI

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3	EA	Hinge WSH4545K 4.5" x 4.5" US32D		WI
1	EA	Retro 8" Jamb Lock	WLS-Retro 8" Jamb Lock US32D	WI
1	EA	Loop Pull	WDP0108K US32D	WI
1	EA	Combo Pull	WPP0310K US32D	WI
1	EA	Concealed Closer	2214 .689 LC	
1	EA	Wall Stop	WS-01 Black	FP
3	EA	Silencer	SR64-GRY	IV
1	EA	Magnetic DPS	WL1020-0249 US32D	WI

Hardware Set S04.1.2 Corridor/General Use
Each to receive:

3	EA	Hinge WSH4545K 4.5" x 4.5" US32D		WI
1	EA	Elec. Jamb Lock	WLS-1520M-K2 -24VDC US32D	WI
1	EA	Retro 2" Jamb Lock	WLS-Retro 2" Jamb Lock US32D	WI
1	EA	Loop Pull	WDP0108K US32D	WI
1	EA	Combo Pull	WPP0310K US32D	WI
1	EA	Concealed Closer	2214 .689 LC	
1	EA	Wall Stop	WS-01 Black	FP
3	EA	Silencer	SR64-GRY	IV
1	EA	Magnetic DPS	WL1020-0249 US32D	WI

Hardware Set S04.3 Dayroom
Each to receive:

3	EA	Hinge WSH4545K 4.5" x 4.5" US32D		WI
2	EA	FP Hinge	TFP-852330 USP (By Door Mfr)	TN
1	EA	Elec. Jamb Lock	WLS-1520M-K2 -24VDC US32D	WI
1	EA	Food Pass Lock	WLS-1717 US32D	WI
1	EA	Loop Pull	WDP0108K US32D	WI
1	EA	Combo Pull	WPP0310K US32D	WI
1	EA	Concealed Closer	2214 .689 LC	
1	EA	Wall Stop	WS-01 Black	FP
3	EA	Silencer	SR64-GRY	IV
1	EA	Magnetic DPS	WL1020-0249 US32D	WI

Hardware Set S04.3.1 Dayroom Retro Lock
Each to receive:

3	EA	Hinge WSH4545K 4.5" x 4.5" US32D		WI
2	EA	FP Hinge	TFP-852330 USP (By Door Mfr)	TN
1	EA	Retro 8" Jamb Lock	WLS-Retro 8" Jamb Lock US32D	WI
1	EA	Food Pass Lock	WLS-1717 US32D	WI
1	EA	Loop Pull	WDP0108K US32D	WI
1	EA	Combo Pull	WPP0310K US32D	WI
1	EA	Concealed Closer	2214 .689 LC	
1	EA	Wall Stop	WS-01 Black	FP
3	EA	Silencer	SR64-GRY	IV
1	EA	Magnetic DPS	WL1020-0249 US32D	WI

1	EA	Detention Slider	FDH423 x MRC-2 x Opening Size USP	TN

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2	EA	#1 Flush Pull	8000200 (By Door Mfr)	TN
3	EA	Gasketing	5050C x Door height	NG
2	EA	Sweep601A x Clear opening + 2.5"		NG
1	EA	Sweep603A x Clear opening + 2.5"		NG
1	EA	Removable Door Skirt	4231158V x Door Width	TN

Hardware Set S06.1 Dayroom to Dayroom
Each to receive:

3	EA	Hinge WSH4545K 4.5" x 4.5" US32D		WI
1	EA	Retro 8" Jamb Lock	WLS-Retro 8" Jamb Lock US32D	WI
2	EA	Combo Pull	WPP0310K US32D	WI
1	EA	Concealed Closer	2214 .689 LC	
1	EA	Wall Stop	WS-01 Black	FP
1	EA	Threshold	8135S x 36" PA TORX-10x1-1/2"	NG
1	EA	Gasketing	5050C x 204"	NG
1	EA	Magnetic DPS	WL1020-0249 US32D	WI

Hardware Set S09.1 Exterior/Secure Perimeter - Oversize
Each to receive:

3	EA	Hinge WSH4545K 4.5" x 4.5" US32D		WI
1	EA	Elec. Jamb Lock	WLS-1520M-K2 -24VDC US32D	WI
1	EA	Loop Pull	WDP0108K US32D	WI
1	EA	Combo Pull	WPP0310K US32D	WI
1	EA	Concealed Closer	2214 .689 LC	
1	EA	Door Stop	FS18L	IV
1	EA	Threshold	896S x 48" PA TORX-10x1-1/2"	NG
1	EA	Gasketing	161SA x 48" x 84"	NG
1	EA	Magnetic DPS	WL1020-0249 US32D	WI

Hardware Set S09.2 Exterior/Secure Perimeter - Oversize
Each to receive:

4	EA	Hinge WSH4545K 4.5" x 4.5" US32D		WI
1	EA	Elec. Jamb Lock	WLS-1520M-K2 -24VDC US32D	WI
1	EA	Loop Pull	WDP0108K US32D	WI
1	EA	Combo Pull	WPP0310K US32D	WI
1	EA	Concealed Closer	2214 .689 LC	
1	EA	Door Stop	FS18L	IV
1	EA	Threshold	896S x 48" PA TORX-10x1-1/2"	NG
1	EA	Gasketing	161SA x 48" x 84"	NG
1	EA	Magnetic DPS	WL1020-0249 US32D	WI

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3.8 DETENTION DOOR SCHEDULE

Opening #	I	Area/Description	Notes	N1:	New door lock, hinges, DPS
1026	A	SP swing door Commercial	Not part of scope	N2:	New door slab
1026	B	SP swing ext door	N1, N2, N3	N3:	New frame
1027		Stairs	N1 need to verify this is not commercial	N4:	New FP door, lock, & hinges
1036		Corridor	N1	N5:	New slider device & frame, reuse door
1102		Communications Control	N1	N6:	Marathon padding
1104	A	Lobby SP - operating as expected	Not part of scope	N7:	Side/transom lites
1104	B	Lobby SP - operating as expected	Not part of scope		
1105	A	Corridor leading from inmate proc to attor visit	N1		
1105	B	Elec equip to 1302	N1		
1109	A	Attor visit			
1109	B	Attor visit			
1110	A	Vest - Commerical	Not part of scope		
1110	B	Vest	N1		
1111		Attor vist	N1		
1202	B	Padded cell bathroom door	N1, N2, N3, N6		
1204		Medical Exam	N1		
1206		Shake down	N1 need to verify this is not commercial		
1207	A	SP swing, ext door	N1, N2, N3, N7		
1207	B	SP slider - operating as expected	Not part of scope		
1207	C	SP slider - operating as expected	Not part of scope		
1209		Exterior door into kitchen	N1, N2, N3		
1209	C	Commercial	Not part of scope		
1209		Kitchen across from 1204 medical	N1		
1210		Commercial	Not part of scope		
1211		Commercial	Not part of scope		
1213	B	Property storage	N1		
1216	C	Exterior door into SP	N1, N2, N3		
1217		Commercial	Not part of scope		
1218		Commercial	Not part of scope		
1220	A	Vehicle SP Slider in garage area	N5		
1220	B	Vehicle SP slider - operating as expected	Not part of scope		

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1222		Holding cell	N1, N2, N4		
1223		Holding cell	N1, N2, N4		
1224		Holding cell	N1, N2, N4		
1225		Holding cell	N1, N2, N4		
1226		Holding cell	N1, N2, N4		
1227		Drunk tank	N1, N2, N4		
1228		Holding cell	N1, N2, N4		
1229		Holding cell	N1, N2, N4		
1230		Holding cell	N1, N2, N4		
1232		Commercial	Not part of scope		
1300	A	Outdoor rec	N1, N2, N3, N7		
1300	B	Outdoor rec	N1		
1301	A	SP slider - operating as expected	Not part of scope		
1301	B	SP slider - operating as expected	Not part of scope		
1303	A	Indoor rec	N1		
1303	B	Indoor rec	N1		
1304		Corridor slider - operating as expected	Not part of scope		
1307	A	Classroom	N1		
1307	B	Classroom	N1		
1308	A	Counselor/director	N1		
1308	B	Counselor/director	N1		
1309		Laundry	N1		
1400		Control CC2	N1		
1401		Stair no. 9 (lower)	N1		
1402		Dayroom	N1		
1402		Stair No. ?	N1		
1407	A	Female dayroom	N1		
1407	B	Female dayroom	N1		
1407		Stair No. 5	N1		
1410	A	Max sec dayroom	N1		
1410	B	Max sec dayroom	N1		
1410		Stair No. 6	N1		
1411		HC Cell	N1		
1412		HC Cell	N1		
1413		HC Cell	N1		
1414		HC Cell	N1		
1415		HC Cell	N1		
1418	A	Dayroom	N1		
1418	B	Dayroom	N1		
1418		Stair No. 7	N1		

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1421	A	Dayroom	N1		
1421	B	Dayroom	N1		
1421		Stair No. 8	N1		
1425	A	Work release dayroom	N1		
1425	B	Work release dayroom	N1		
1425		Stair No. 9 (upper)	N1		
2100		Cell	N1		
2101		Cell	N1		
2102		Cell	N1		
2103		Cell	N1		
2104		Cell	N1		
2108	A	Dayroom	N1		
2109		Cell	N1		
2110		Cell	N1		
2111		Cell	N1		
2112		Cell	N1		
2113		Cell	N1		
2114		Cell	N1		
2115		Cell	N1		
2116		Cell	N1		
2117		Cell	N1		
2118		Cell	N1		
2121	A	Dayroom	N1		
2121	D	Dayroom	N1		
2123		Cell	N1		
2124		Cell	N1		
2125		Cell	N1		
2126		Cell	N1		
2127		Cell	N1		
2128		Cell	N1		
2129		Cell	N1		
2130		Cell	N1		
2131	A	Dayroom	N1		
2132		Cell	N1		
2133		Cell	N1		
3001	B	Hearing	N1		
3002	B	Passage	N1		
3003		Corridor	N1		
3003		Stair No. 2	N1		
3004		Lobby	N1		

END OF SECTION 11 19 30

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SECTION 11 19 60

CELL PADDING

PART 1 - GENERAL

1.1.1 SCOPE

A. Provide all labor and materials required to furnish and install all cell padding (walls, floors, doors, frames) within padded cell or holding room as indicated on drawings and specified herein.

1.2 SUBMITTALS

A. Submit shop drawings showing list of materials, elevations, dimensions, sections, thickness of materials, coverage rates, method of anchoring vertical panels, and any other pertinent information. Shop drawings shall show sizes of all vertical panels. Each vertical panel shall be numbered in the shop according to its size (or shape) which shall correspond to the same number listed for each vertical panel as shown on the installation shop drawings.

B. Submit three (3) samples, minimum 3" x 3" in size, for approval and acceptance of protection padding system for use in safety cells or holding rooms.

C. Submit two (2) copies of resin manufacturer's maintenance instructions. Instructions shall contain manufacturer's recommended cleaning materials and detailed procedures for minor repairs.

D. Upon completion of the work, Contractor for work under this section shall certify in writing that all materials used comply with this specification.

1.3 GUARANTEE

A. Contractor for work under this section shall agree to repair or replace any defective materials or work for a period of one (1) year from the date of project completion. This guarantee shall also include any loss of adhesion or resiliency, delamination, structural failure, deterioration of vertical joints, any peeling or cracking of wearing coats. This guarantee does not cover damage caused by sharp or burning objects.

B. Guarantee shall be signed by both the Contractor for work under section and the Prime Contractor.

1.4 QUALIFICATIONS

A. Because of the special nature of work specified within this section, persons, firms or corporations desiring to bid on this section of work shall meet the following:

1. Have a minimum of five (5) years experience in the fabrication and installation of protection padding work of a type similar to that required herein.

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2. Have at least ten (10) successful installations.

1.5 GENERAL REQUIREMENTS

A. Before fabrication of vertical panels, verify all measurements at the job site to ensure proper fit. Allow sufficient time for taking accurate field dimensions so that fabrications and installation are within the construction schedule.

B. A minimum temperature of 50 SF shall be maintained for the duration of the installation.

PART 2 - PRODUCT

2.1 MANUFACTURERS

A. Marathon Engineering Corporation, 5615 2nd Street West, Lehigh Acres, FL 33971 (239) 303-7378.

B. No substitutions permitted.

2.2 GENERAL

A. Protection padding material as hereinafter specified shall be a synthetic resinous material. Substitutions of a closed-cell polyvinyl chloride or other types of synthetic surfacing materials will not be permitted.

B. All vertical wall panels shall be prefabricated; resinous surfacing on floors and doors shall be cast-in-place. Vertical joints between panels shall be sealed to produce an overall monolithic surface.

C. Color of urethane surfacing and wearing coats shall be as indicated in Color Schedule.

2.3 MATERIALS

A. Isocyanate resin material for use in surfacing, fill at vertical joints and holes for fasteners, and wearing coats shall, in addition to meeting the following minimum physical properties when cured, contain a flame retardant additive which, when tested in accordance with ASTM E-84, results in a flame spread of 90 or less, fuel contribution of 15 or less and smoke development of 225 or less. Material shall be self-extinguishing.

1. Weight: Approximately 3 lbs. per square foot per 1/2 inch.

2. Tensile Strength Range: 300 psi minimum (ASTM D412).

3. Hardness Range: 50-60 shore A-2 typical ASTM D2240.

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4. Temperature Stability: Essentially unaffected from 35 degrees F to 120 degrees F.

5. Density: 1.4 g/cm^3 typical.

6. Moisture Absorption: 0.8% to 1.05% by weight.

7. Compression Set: 90% recovery after 72 hours at 50% compression 72 degrees F. (ASTM D395).

8. Compression Properties: 30 psi to 70 psi at 10% modulus. 300 psi to 500 psi at 50% modulus.

9. Elongation at break: 150% typical (ASTM D412).

10. Fungus Resistance: Complete.

B. Primer for concrete floors, plywood backing, and metal doors shall be of type as recommended by the resin manufacturer.

C. Fasteners for use in securing vertical panels shall be as recommended by the installer. Expansion shield type of anchors shall be used where attachment is made directly to masonry walls.

PART 3 - EXECUTION

3.1 INSPECTION

A. Inspect surfaces to receive work under this section. Notify the Architect in writing if surfaces are not satisfactory for application of materials. Commencement of work constitutes acceptance of surfaces.

3.2 PREPARATION OF SURFACES

A. Surfaces to receive cast-in-place protection padding shall be free from oil, dirt, dust, paint, and other foreign materials. Sweep, vacuum and damp mop when necessary to remove dust.

1. Floors: Fill small cracks which would interfere with a satisfactory installation. Moisture test concrete floors before beginning installation to determine the dryness of concrete.

3.3 VERTICAL PANEL INSTALLATION

A. All vertical panels shall be prefabricated in the shop as hereinafter specified and mechanically fastened to walls. (Adhesive application of panels will not be allowed.) NOTE: All vertical panels shall be installed prior to applying resin surfacing to floors.

B. Vertical panels shall be fabricated of 1" nominal thickness safety padding on 7/16" OSB backing.

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C. Panels at windows shall be fabricated as detailed on the drawings. After panels are installed, provide an overpour of resin as hereinafter specified on upper portion of horizontal window mullion.

D. Panels shall be mechanically fastened to masonry and plastered walls. Fasteners shall be spaced not to exceed 16" on center, both vertically and horizontally on masonry walls, and 12" on center vertically at each stud and furring channel bearing. (Space fasteners not more than 1" from panel edges.) Panels shall be installed with 1/8" to 1/4" space between adjacent panels. All fasteners shall be concealed. At all fastener locations, holes shall be drilled through resin surfacing to plywood backing; holes to be slightly larger than fastener head.

E. Vertical bars at windows shall be completely covered with resin on all sides.

F. At completion of panel installation, all vertical joints between panels and holes through face of panels for fasteners shall be filled with liquid resin. All voids occurring at panel tops shall receive a continuous bead of resin fill. After resin fill has completely cured, sandpaper filled areas flush and smooth with resin panels.

3.4 FLOOR AND DOOR INSTALLATION

A. After concrete and metal surfaces have been thoroughly cleaned, apply one (1) coat of primer as recommended by the manufacturer.

B. An overpour of resin shall be placed over the primed surfaces to a minimum thickness of 1/2". Overpour of urethane shall be installed to meet and joint all vertical surfaces to produce a monolithic surface, free of voids or cracks.

3.5 FINAL SURFACING

A. After all materials have been placed on vertical and floor areas and sanded properly, one coat of textured coating should be applied.

END OF SECTION 11 19 60

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SECTION 233423
HVAC POWER VENTILATORS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Centrifugal roof ventilators.
   2. Ceiling Exhaust Fans

1.02 PERFORMANCE REQUIREMENTS

A. Project Altitude: Base fan-performance ratings on actual Project site elevation.

B. Operating Limits: Classify according to AMCA 99.

1.03 SUBMITTALS

A. Action Submittals:
   1. Product Data: For each type of product indicated. Include rated capacities, operating characteristics, and furnished specialties and accessories. Also include the following:
      a. Certified fan performance curves with system operating conditions indicated.
      b. Certified fan sound-power ratings.
      c. Motor ratings and electrical characteristics, plus motor and electrical accessories.
      d. Material thickness and finishes, including color charts.
      e. Dampers, including housings, linkages, and operators.
      f. Roof curbs.
   2. Seismic Qualification Data: Certificates for indoor, basic air-handling units, accessories, and components, from manufacturer.
      a. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
      b. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
      c. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

B. Informational Submittals:
   1. Field quality-control reports.

C. Closeout Submittals:
   1. Operation and Maintenance Data: For power ventilators to include in emergency, operation, and maintenance manuals.

D. Maintenance Material Submittals:
   1. Belts: One spare set for each belt-driven unit.

1.04 QUALITY ASSURANCE

A. AMCA Compliance:
   1. Comply with AMCA performance requirements and bear the AMCA-Certified Ratings Seal.
   2. Operating Limits: Classify according to AMCA 99.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

C. UL Standards: Power ventilators shall comply with UL 705. Power ventilators for use for restaurant kitchen exhaust shall also comply with UL 762.

PART 2 PRODUCTS

2.01 CENTRIFUGAL ROOF VENTILATORS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following. Where a specific manufacturer is listed in the Drawings, this shall be considered the Basis-of-Design.

1. Greenheck Fan Corporation.
2. Loren Cook Company.
3. New York Blower Company.
4. PennBarry.
5. Twin City Fan & Blower.
6. CaptiveAire

B. Housing: Removable, spun-aluminum, dome top and outlet baffle; square, one-piece, aluminum base with venturi inlet cone.
   1. Downblast Units: Provide spun-aluminum discharge baffle to direct discharge air downward.
   2. Upblast Units: Provide spun-aluminum discharge baffle to direct discharge air upward, with rain and snow drains.

C. Fan Wheels: Aluminum hub and wheel with backward-inclined blades.

D. Direct Drive (Where Applicable): Motor mounted in airstream, factory wired to disconnect switch located on outside of fan housing.

E. Belt Drives (Where Applicable):
   1. Resiliently mounted to housing.
   2. Fan Shaft: Turned, ground, and polished steel; keyed to wheel hub.
   3. Shaft Bearings: Permanently lubricated, permanently sealed, self-aligning ball bearings.
   4. Pulleys: Cast-iron, adjustable-pitch motor pulley. Spring-loaded idler pulley for automatic belt tensioning.
   5. Fan and motor isolated from exhaust airstream.

F. Accessories:
   1. Disconnect Switch: Nonfusible type, with thermal-overload protection, NEMA 3r mounted on fan housing, factory wired through an internal aluminum conduit.
   2. Bird Screens: Removable, 1/2-inch mesh, aluminum or stainless steel wire.
   3. Dampers: Counterbalanced, parallel-blade, backdraft dampers mounted in curb base; factory set to close when fan stops.
   4. Motorized Dampers: Parallel-blade dampers mounted in curb base with electric actuator; wired to close when fan stops.

G. Roof Curbs: Galvanized steel; mitered and welded corners; 1-1/2-inch-thick, rigid, fiberglass insulation adhered to inside walls; and 1-1/2-inch wood nailer. Size as required to suit roof opening and fan base. Self-flashing without a cant strip configuration, with mounting flange.
   1. Overall Height: 18 inches unless indicated otherwise.
   2. Sloped Roof Mounting (Where Applicable): Manufacture curb for roof slope.
   3. Burglar Bars: 1/2-inch-thick steel bars welded in place on 6-inch centers both directions.

2.02 CEILING EXHAUST FANS

A. Manufacturers:
   1. Broan-NuTone
   2. Carnes
   3. Greenheck
   4. Panasonic
   5. PennBarry
   6. Twin City Fan & Blower

B. Centrifugal Fan Unit: V-belt or direct driven with galvanized steel housing, resiliently mounted motor, gravity backdraft damper in discharge.

C. Disconnect Switch: Cord and plug-in housing for thermal overload protected motor and wall mounted switch.

D. Grille: Molded white plastic.

E. Sheaves: Cast iron or steel, dynamically balanced, bored to fit shafts and keyed; variable and adjustable pitch motor sheaves selected so required rpm is reached with sheaves set at mid-position; fan shaft with self-aligning pre-lubricated ball bearings.

F. Performance Ratings: As indicated on drawings.

2.03 MOTORS

A. Comply with NEMA designation, temperature rating, service factor, enclosure type, and efficiency requirements for motors as indicated on Drawings and specified in another Division 23 Section. Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.

2.04 SOURCE QUALITY CONTROL

A. Certify sound-power level ratings according to AMCA 301. Factory test fans according to AMCA 300. Label fans with the AMCA-Certified Ratings Seal.

B. Certify fan performance ratings, including flow rate, pressure, power, air density, speed of rotation, and efficiency by factory tests according to AMCA 210. Label fans with the AMCA-Certified Ratings Seal.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install fans and accessories in accordance with manufacturer’s instructions.

B. Install power ventilators level and plumb.

C. Lift and support units with manufacturer's designated lifting or supporting points.

D. Secure roof-mounted fans to roof curbs with cadmium-plated hardware. Coordinate roof curb installation with General Contractor.

E. Support suspended units from structure using threaded steel rods and spring hangers with vertical-limit stops having a static deflection of 2 inches specified in another Division 23 Section.

F. Install units with clearances for service and maintenance.

3.02 CONNECTIONS

A. Drawings indicate general arrangement of ducts and duct accessories. Make final duct connections with flexible connectors.

B. Install ducts adjacent to power ventilators to allow service and maintenance.

3.03 FIELD QUALITY CONTROL

A. Perform tests and inspections.

B. Perform the following tests and inspections with the assistance of a factory-authorized service representative:
   1. Verify that shipping, blocking, and bracing are removed.
   2. Verify that unit is secure on mountings and supporting devices and that connections to ducts and electrical components are complete. Verify that proper thermal-overload protection is installed in motors, starters, and disconnect switches.
   3. Verify that cleaning and adjusting are complete.
   4. Disconnect fan drive from motor, verify proper motor rotation direction, and verify fan wheel free rotation and smooth bearing operation. Reconnect fan drive system, align and adjust belts, and install belt guards.
   5. Adjust belt tension where applicable.
   6. Adjust damper linkages for proper damper operation.
   7. Provide and verify lubrication for bearings and other moving parts.
   8. Verify that manual and automatic volume control and fire and smoke dampers in connected ductwork systems are in fully open position.
   9. Disable automatic temperature-control operators, energize motor and adjust fan to indicated rpm, and measure and record motor voltage and amperage.

10. Shut unit down and reconnect automatic temperature-control operators.
11. Remove and replace malfunctioning units and retest as specified above.

C. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

D. Prepare test and inspection reports.

END OF SECTION

SECTION 260573
POWER SYSTEM STUDIES

PART 1 GENERAL

1.01 REFERENCE STANDARDS

A. NEMA MG 00001 - Motors and Generators; 2024.

B. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.02 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Coordinate the work to provide equipment and associated protective devices complying with criteria for selection and adjustment, as determined by studies to be performed.
   2. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

B. Sequencing:
   1. Submit study reports prior to or concurrent with product submittals.
   2. Do not order equipment until matching study reports and product submittals have both been evaluated by Architect.

1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Study reports, stamped or sealed and signed by study preparer.

1.04 POWER SYSTEM STUDIES

A. Scope of Studies:
   1. Except where study descriptions below indicate exclusions, analyze system at each bus from primary protective devices of utility source down to each piece of equipment involved, including parts of system affecting calculations being performed (e.g. fault current contribution from motors).
   2. Include in analysis alternate sources and operating modes (including known future configurations) to determine worst case conditions.

B. General Study Requirements:
   1. Comply with NFPA 70.
   2. Perform studies utilizing computer software complying with specified requirements; manual calculations are not permitted.

C. Data Collection:
   1. Compile information on project-specific characteristics of actual installed equipment, protective devices, feeders, etc. as necessary to develop single-line diagram of electrical distribution system and associated input data for use in system modeling.
      a. Utility Source Data: Include primary voltage, maximum and minimum three-phase and line-to-ground fault currents, impedance, X/R ratio, and primary protective device information.
         1) Obtain up-to-date information from Utility Company.
      b. Generators: Include manufacturer/model, kW and voltage ratings, and impedance.
      c. Motors: Include manufacturer/model, type (e.g. induction, synchronous), horsepower rating, voltage rating, full load amps, and locked rotor current or NEMA MG 00001 code letter designation.
      d. Transformers: Include primary and secondary voltage ratings, kVA rating, winding configuration, percent impedance, and X/R ratio.
      e. Protective Devices:
         1) Circuit Breakers: Include manufacturer/model, type (e.g. thermal magnetic, electronic trip), frame size, trip rating, voltage rating, interrupting rating, available

SECTION 263213
ENGINE GENERATORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Packaged engine generator system and associated components and accessories:
   1. Generator set enclosure.

1.02 RELATED REQUIREMENTS

A. Section 033000 - Cast-in-Place Concrete: Concrete equipment pads.

B. Section 235100 - Breechings, Chimneys, and Stacks: Engine exhaust piping.
   1. Includes installation of exhaust silencer specified in this section.

C. Section 260526 - Grounding and Bonding for Electrical Systems.

D. Section 260529 - Hangers and Supports for Electrical Systems.

E. Section 260548 - Vibration and Seismic Controls for Electrical Systems.
   1. Includes requirements for the seismic qualification of equipment specified in this section.

F. Section 260553 - Identification for Electrical Systems: Identification products and requirements.

G. Section 263600 - Transfer Switches.

1.03 REFERENCE STANDARDS

A. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2023.

B. NECA/EGSA 404 - Standard for Installing Generator Sets; 2014.

C. NEMA MG 00001 - Motors and Generators; 2024.

D. NFPA 37 - Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines; 2024, with Amendment.

E. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

F. NFPA 99 - Health Care Facilities Code; 2024, with Errata.

G. NFPA 110 - Standard for Emergency and Standby Power Systems; 2025.

H. UL 1236 - Battery Chargers for Charging Engine-Starter Batteries; Current Edition, Including All Revisions.

I. UL 2200 - Stationary Engine Generator Assemblies; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Coordinate compatibility of generator sets to be installed with work provided under other sections or by others.
      a. Transfer Switches: See Section 263600.
   2. Coordinate the work with other trades to avoid placement of ductwork, piping, equipment or other potential obstructions within the spaces dedicated for engine generator system.
   3. Coordinate arrangement of equipment with the dimensions and clearance requirements of the actual equipment to be installed.
   4. Coordinate the work to provide electrical circuits suitable for the power requirements of the actual auxiliary equipment and accessories to be installed.
   5. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

B. Preinstallation Meeting: Convene one week before starting work of this section; require attendance of all affected installers.

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide manufacturer's standard catalog pages and data sheets for each product, including ratings, configurations, dimensions, finishes, weights, service condition requirements, and installed features. Include alternator starting capabilities, engine fuel consumption rates, and cooling, combustion air, and exhaust requirements.
   1. Include generator set sound level test data.
   2. Include characteristic trip curves for overcurrent protective devices upon request.

C. Shop Drawings: Include dimensioned plan views and sections indicating locations of system components, required clearances, and field connection locations. Include system interconnection schematic diagrams showing all factory and field connections.
   1. Identify mounting conditions required for equipment seismic qualification.

D. Manufacturer's equipment seismic qualification certification.

E. Fuel Storage Tank Calculations: Indicate maximum running time for generator set configuration provided.

F. Specimen Warranty: Submit sample of manufacturer's warranty.

G. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and operation of product.

H. Manufacturer's factory emissions certification.

I. Provide NFPA 110 required documentation from manufacturer where requested by authorities having jurisdiction, including but not limited to:
   1. Certified prototype tests.
   2. Torsional vibration compatibility certification.
   3. NFPA 110 compliance certification.
   4. Certified rated load test at rated power factor.

J. Manufacturer’s detailed field testing procedures.

K. Field quality control test reports.

L. Operation and Maintenance Data: Include detailed information on system operation, equipment programming and setup, replacement parts, and recommended maintenance procedures and intervals.
   1. Include contact information for entity that will be providing contract maintenance and trouble call-back service.

M. Executed Warranty: Submit documentation of final executed warranty completed in Owner's name and registered with manufacturer.

N. Maintenance contracts.

1.06 QUALITY ASSURANCE

A. Comply with the following:
   1. NFPA 70 (National Electrical Code).
   2. NFPA 110 (Standard for Emergency and Standby Power Systems); meet requirements for Level 1 system.
   3. NFPA 37 (Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines).

B. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

1.07 WARRANTY

A. See Section 017800 - Closeout Submittals, for additional warranty requirements.

B. Provide minimum five year manufacturer warranty covering repair or replacement due to defective materials or workmanship.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Packaged Engine Generator Set:
   1. Caterpillar Inc: www.cat.com/#sle.
   2. Cummins Power Generation Inc: www.cumminspower.com/#sle.
   3. Generac Power Systems: www.generac.com/industrial/#sle.Generac Power Systems: www.generac.com/industrial/#sle.Generac Power Systems: www.generac.com/industrial/#sle.

B. Substitutions: See Section 016000 - Product Requirements.

C. Source Limitations: Furnish engine generator sets and associated components and accessories produced by single manufacturer and obtained from single supplier.

2.02 PACKAGED ENGINE GENERATOR SYSTEM

A. Provide new engine generator system consisting of all required equipment, sensors, conduit, boxes, wiring, piping, supports, accessories, system programming, etc. as necessary for a complete operating system that provides the functional intent indicated.

B. Provide products listed, classified, and labeled as suitable for the purpose intended.

C. System Description:
   1. Application: Emergency/standby.
   2. Configuration: Single packaged engine generator set operated independently (not in parallel).

D. Packaged Engine Generator Set:
   1. Type: Gaseous (spark ignition).
   2. Power Rating: As indicated on drawings, standby.
   3. Voltage: As indicated on drawings.

E. Generator Set General Requirements:
   1. Prototype tested in accordance with NFPA 110 for Level 1 systems.
   2. Factory-assembled, with components mounted on suitable base.
   3. List and label engine generator assembly as complying with UL 2200.
   4. Power Factor: Unless otherwise indicated, specified power ratings are at 0.8 power factor for three phase voltages and 1.0 power factor for single phase voltages.
   5. Provide suitable guards to protect personnel from accidental contact with rotating parts, hot piping, and other potential sources of injury.
   6. Main Line Circuit Breakers: Provide factory-installed line side connections with suitable lugs for load side connections.

F. Seismic Qualification: Provide engine generator assemblies and associated components suitable for application under the seismic design criteria specified in Section 260548 where required. Include certification of compliance with submittals.

G. Service Conditions: Provide engine generator system and associated components suitable for operation under the service conditions at the installed location.
   1. Altitude: _____ feet (_____ m).
   2. Ambient Temperature: Between _____ and 104 degrees F (_____ and 40 degrees C).
   3. Design Wind Speed: mph.

H. Starting and Load Acceptance Requirements:
   1. Cranking Method: Cycle cranking complying with NFPA 110 (15 second crank period, followed by 15 second rest period, with cranking limiter time-out after 3 cycles), unless otherwise required.

2. Cranking Limiter Time-Out: If generator set fails to start after specified cranking period, indicate overcrank alarm condition and lock-out generator set from further cranking until manually reset.
3. Start Time: Capable of starting and achieving conditions necessary for load acceptance within 10 seconds (NFPA 110, Type 10).
4. Maximum Load Step: Supports 100 percent of rated load in one step.

I. Exhaust Emissions Requirements:
1. Comply with federal (EPA), state, and local regulations applicable at the time of commissioning; include factory emissions certification with submittals.
2. Do not make modifications affecting generator set factory emissions certification without approval of manufacturer and Engineer. Where such modifications are made, provide field emissions testing as necessary for certification.

J. Sound Level Requirements:
1. Do not exceed 75 dBA when measured at 23 feet (7 m) from generator set in free field (no sound barriers) while operating at full load; include manufacturer's sound data with submittals.

2.03 ENGINE AND ENGINE ACCESSORY EQUIPMENT

A. Provide engine with adequate horsepower to achieve specified power output at rated speed, accounting for alternator efficiency and parasitic loads.

B. Engine Fuel System - Gaseous (Spark Ignition):
1. Fuel Source: Natural gas.
2. Engine Fuel Connections: Provide suitable, approved flexible fuel lines for coupling engine to fuel source.
3. Provide components/features indicated and as necessary for operation and/or required by applicable codes, including but not limited to:
a. Carburetor.
b. Gas pressure regulators.
c. Fuel shutoff control valves.
d. Low gas pressure switches.

C. Engine Starting System:
1. System Type: Electric, with DC solenoid-activated starting motor(s).
2. Battery(s):
a. Battery Type: Lead-acid.
b. Battery Capacity: Size according to manufacturer's recommendations for achieving starting and load acceptance requirements under worst case ambient temperature; capable of providing cranking through two complete periods of cranking limiter time-outs without recharging.
c. Provide battery rack, cables, and connectors suitable for the supplied battery(s); size battery cables according to manufacturer's recommendations for cable length to be installed.
3. Battery-Charging Alternator: Engine-driven, with integral solid-state voltage regulation.
4. Battery Charger:
a. Provide dual rate battery charger with automatic float and equalize charging modes and minimum rating of 10 amps; suitable for maintaining the supplied battery(s) at full charge without manual intervention.
b. Capable of returning supplied battery(s) from fully discharged to fully charged condition within time required by NFPA 110 for Level indicated while carrying normal loads.
c. Listed as complying with UL 1236.
d. Furnished with integral overcurrent protection; current limited to protect charger during engine cranking; reverse polarity protection.
e. Provide integral DC output ammeter and voltmeter with five percent accuracy.

f. Provide alarm output contacts as necessary for alarm indications.

D. Engine Speed Control System (Governor):
1. Single Engine Generator Sets (Not Operated in Parallel): Provide electronic isochronous governor for controlling engine speed/alternator frequency.
2. Generator Sets Used with Closed Transition Transfer Switches: Provide electronic isochronous governor with frequency regulation suitable for transfer.
3. Frequency Regulation, Electronic Isochronous Governors: No change in frequency from no load to full load; plus/minus 0.25 percent at steady state.

E. Engine Lubrication System:
1. System Type: Full pressure, with engine-driven, positive displacement lubrication oil pump, replaceable full-flow oil filter(s), and dip-stick for oil level indication. Provide oil cooler where recommended by manufacturer.

F. Engine Cooling System:
1. System Type: Closed-loop, liquid-cooled, with unit-mounted radiator/fan and engine-driven coolant pump; suitable for providing adequate cooling while operating at full load under worst case ambient temperature.
2. Fan Guard: Provide suitable guard to protect personnel from accidental contact with fan.
3. Coolant Heater: Provide thermostatically controlled coolant heater to improve starting under cold ambient conditions; size according to manufacturer's recommendations for achieving starting and load acceptance requirements under worst case ambient temperature.

G. Engine Air Intake and Exhaust System:
1. Air Intake Filtration: Provide engine-mounted, replaceable, dry element filter.
2. Engine Exhaust Connection: Provide suitable, approved flexible connector for coupling engine to exhaust system.
3. Exhaust Silencer: Provide critical grade or better exhaust silencer with sound attenuation not less than basis of design; select according to manufacturer's recommendations to meet sound performance requirements, where specified.

2.04 ALTERNATOR (GENERATOR)

A. Alternator: 4-pole, 1800 rpm (60 Hz output) revolving field, synchronous generator complying with NEMA MG 00001; connected to engine with flexible coupling; voltage output configuration as indicated, with reconnectable leads for 3 phase alternators.

B. Exciter:
1. Exciter Type: Brushless; provide permanent magnet generator (PMG) excitation system; self-excited (shunt) systems are not permitted.
2. PMG Excitation Short-Circuit Current Support: Capable of sustaining 300 percent of rated output current for 10 seconds.
3. Voltage Regulation (with PMG excitation): Plus/minus 0.5 percent for any constant load from no load to full load.

C. Temperature Rise: Comply with UL 2200.

D. Insulation System: NEMA MG 00001, Class H; suitable for alternator temperature rise.

E. Enclosure: NEMA MG 00001, drip-proof.

F. Total Harmonic Distortion: Not greater than five percent.

G. Alternator Heater: Provide strip heater to prevent moisture condensation on alternator windings.

2.05 GENERATOR SET CONTROL SYSTEM

A. Provide microprocessor-based control system for automatic control, monitoring, and protection of generator set. Include sensors, wiring, and connections necessary for functions/indications specified.

B. Control Panel:
   1. Control Panel Mounting: Unit-mounted unless otherwise indicated; vibration isolated.
      a. Top of control panel shall be located no more than 60 inches (1,500 mm) above finished grade, or no more than 60 inches (1,500 mm) above the working platform, if one is required to meet these height restrictions. If a working platform is required, it shall be provided by the manufacturer.
   2. Generator Set Control Functions:
      a. Automatic Mode: Initiates generator set start/shutdown upon receiving corresponding signal from remote device (e.g. automatic transfer switch).
      b. Manual Mode: Initiates generator set start/shutdown upon direction from operator.
      c. Reset Mode: Clears all faults, allowing generator set restart after a shutdown.
      d. Emergency Stop: Immediately shuts down generator set (without time delay) and prevents automatic restarting until manually reset.
      e. Cycle Cranking: Programmable crank time, rest time, and number of cycles.
      f. Time Delay: Programmable for shutdown (engine cooldown) and start (engine warmup).
      g. Voltage Adjustment: Adjustable through range of plus/minus 5 percent.
   3. Generator Set Status Indications:
      a. Voltage (Volts AC): Line-to-line, line-to-neutral for each phase.
      b. Current (Amps): For each phase.
      c. Frequency (Hz).
      d. Real power (W/kW).
      e. Reactive power (VAR/kVAR).
      f. Apparent power (VA/kVA).
      g. Power factor.
      h. Duty Level: Actual load as percentage of rated power.
      i. Engine speed (RPM).
      j. Battery voltage (Volts DC).
      k. Engine oil pressure.
      l. Engine coolant temperature.
      m. Engine run time.
      n. Generator powering load (position signal from transfer switch).
   4. Generator Set Protection and Warning/Shutdown Indications:
      a. Comply with NFPA 110; configurable for NFPA 110 Level 1 or Level 2, or NFPA 99 systems including but not limited to the following protections/indications:
         1) Overcrank (shutdown).
         2) Low coolant temperature (warning).
         3) High coolant temperature (warning).
         4) High coolant temperature (shutdown).
         5) Low oil pressure (shutdown).
         6) Overspeed (shutdown).
         7) Low fuel level (warning).
         8) Low coolant level (warning/shutdown).
         9) Generator control not in automatic mode (warning).
         10) High battery voltage (warning).
         11) Low cranking voltage (warning).
         12) Low battery voltage (warning).
         13) Battery charger failure (warning).
      b. In addition to NFPA 110 requirements, provide the following protections/indications:
         1) High AC voltage (shutdown).
         2) Low AC voltage (shutdown).
         3) High frequency (shutdown).
         4) Low frequency (shutdown).

5) Overcurrent (shutdown).
c. Provide contacts for local and remote common alarm.
d. Provide lamp test function that illuminates all indicator lamps.
5. Other Control Panel Features:
a. Event log.

C. Remote Annunciator:
1. Remote Annunciator Mounting: Wall-mounted; Provide flush-mounted annunciator for finished areas and surface-mounted annunciator for non-finished areas unless otherwise indicated.
2. Generator Set Status Indications:
a. Generator powering load (via position signal from transfer switch).
b. Communication functional.
3. Generator Set Warning/Shutdown Indications:
a. Comply with NFPA 110; configurable for NFPA 110 Level 1 or Level 2, or NFPA 99 systems including but not limited to the following indications:
1) Overcrank (shutdown).
2) Low coolant temperature (warning).
3) High coolant temperature (warning).
4) High coolant temperature (shutdown).
5) Low oil pressure (shutdown).
6) Overspeed (shutdown).
7) Low fuel level (warning).
8) Low coolant level (warning/shutdown).
9) Generator control not in automatic mode (warning).
10) High battery voltage (warning).
11) Low cranking voltage (warning).
12) Low battery voltage (warning).
13) Battery charger failure (warning).
b. Provide audible alarm with silence function.
c. Provide lamp test function that illuminates all indicator lamps.

D. Remote Emergency Stop: Provide approved red, mushroom style remote emergency stop button where indicated or required by authorities having jurisdiction.

2.06 GENERATOR SET ENCLOSURE

A. Enclosure Type: Sound attenuating, weather protective.

B. Enclosure Material: Steel or aluminum.

C. Hardware Material: Stainless steel.

D. Color: Manufacturer's standard.

E. Access Doors: Lockable, with all locks keyed alike.

F. Openings: Designed to prevent bird/rodent entry.

G. External Drains: Extend oil and coolant drain lines to exterior of enclosure for maintenance service.

H. Sound Attenuating Enclosures: Line enclosure with non-hydroscopic, self-extinguishing sound-attenuating material.

I. Exhaust Silencers: Where exhaust silencers are mounted within enclosure in main engine compartment, insulate silencer to minimize heat dissipation as necessary for operation at rated load under worst case ambient temperature.

J. Enclosure Space Heater: Provide thermostatically controlled enclosure space heater to prevent condensation and improve starting under cold ambient conditions; size according to

manufacturer's recommendations for achieving starting and load acceptance requirements under worst case ambient temperature.

2.07 GENERATOR SET ENCLOSURE ACCESS PLATFORM

A. Platform Material: Prefabricated aluminum flooring and handrails.

B. Platform Flooring: Slip-resistant open grate, minimum 42 inches (1,000 mm) wide.

C. Platform shall meet all OSHA requirements, and shall include permanent integral stair access.

2.08 SOURCE QUALITY CONTROL

A. See Section 014000 - Quality Requirements, for additional requirements.

B. Perform production tests on generator sets at factory to verify operation and performance characteristics prior to shipment.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that the ratings and configurations of generator sets and auxiliary equipment are consistent with the indicated requirements.

C. Verify that rough-ins for field connections are in the proper locations.

D. Verify that mounting surfaces are ready to receive equipment.

E. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

A. Perform work in accordance with NECA 1 (general workmanship).

B. Install products in accordance with manufacturer's instructions.

C. Install generator sets and associated accessories in accordance with NECA/EGSA 404.

D. Arrange equipment to provide minimum clearances and required maintenance access.

E. Unless otherwise indicated, mount generator set on properly sized, minimum 6 inch (150 mm) high concrete pad constructed in accordance with Section 033000.

F. Provide required support and attachment in accordance with Section 260529.

G. Provide required vibration isolation and/or seismic controls in accordance with Section 260548.

H. Use manufacturer's recommended oil and coolant, suitable for the worst case ambient temperatures.

I. Provide engine exhaust piping in accordance with Section 235100, where not factory installed.
   1. Include piping expansion joints, piping insulation, thimble, condensation trap/drain, rain cap, hangers/supports, etc. as indicated or as required.
   2. Do not exceed manufacturer's maximum back pressure requirements.

J. Do not insulate piping for engine components restricted by manufacturer.

K. Install exhaust silencer in accordance with Section 235100, where not factory installed.

L. Provide grounding and bonding in accordance with Section 260526.

M. Identify system wiring and components in accordance with Section 260553.

3.03 FIELD QUALITY CONTROL

A. See Section 014000 - Quality Requirements, for additional requirements.

B. Provide services of a manufacturer's authorized representative to prepare and start systems and perform inspection and testing. Include manufacturer's detailed testing procedures and field reports with submittals.

C. Notify Owner and Architect at least two weeks prior to scheduled inspections and tests.

D. Notify authorities having jurisdiction and comply with their requirements for scheduling inspections and tests and for observation by their personnel.

E. Provide all equipment, tools, and supplies required to accomplish inspection and testing, including load bank and fuel.

F. Preliminary inspection and testing to include, at a minimum:
   1. Inspect each system component for damage and defects.
   2. Verify tightness of mechanical and electrical connections are according to manufacturer's recommended torque settings.
   3. Check for proper oil and coolant levels.

G. Prepare and start system in accordance with manufacturer's instructions.

H. Perform acceptance test in accordance with NFPA 110.

I. Inspection and testing to include, at a minimum:
   1. Verify compliance with starting and load acceptance requirements.
   2. Verify voltage and frequency; make required adjustments as necessary.
   3. Verify phase sequence.
   4. Verify control system operation, including safety shutdowns.
   5. Verify operation of auxiliary equipment and accessories (e.g. battery charger, heaters, etc.).
   6. Perform load tests in accordance with NFPA 110 (1.5 hour building load test followed by 2 hour full load test).

J. Provide field emissions testing where necessary for certification.

K. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

L. Submit detailed reports indicating inspection and testing results and corrective actions taken.

3.04 CLEANING

A. Clean exposed surfaces to remove dirt, paint, or other foreign material and restore to match original factory finish.

3.05 CLOSEOUT ACTIVITIES

A. See Section 017800 - Closeout Submittals, for closeout submittals.

B. See Section 017900 - Demonstration and Training, for additional requirements.

C. Demonstration: Demonstrate proper operation of system to Owner, and correct deficiencies or make adjustments as directed.

D. Training: Train Owner's personnel on operation, adjustment, and maintenance of system.
   1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
   2. Provide minimum of four hours of training.
   3. Instructor: Manufacturer's authorized representative.
   4. Location: At project site.

E. After successful acceptance test and just prior to Substantial Completion, replace air, oil, and fuel filters and fill fuel storage tank.

3.06 MAINTENANCE

A. Provide to Owner a proposal as an alternate to the base bid, a separate maintenance contract for the service and maintenance of engine generator system for two years from date of Substantial Completion; Include a complete description of preventive maintenance, systematic examination, adjustment, inspection, and testing, with a detailed schedule.

END OF SECTION

field-adjustable trip response settings, and features (e.g. zone selective interlocking).

2) Fuses: Include manufacturer/model, type/class (e.g. Class J), size/rating, and speed (e.g. time delay, fast acting).

f. Protective Relays: Include manufacturer/model, type, settings, current/potential transformer ratio, and associated protective device.

g. Conductors: Include feeder size, material (e.g. copper, aluminum), insulation type, voltage rating, number per phase, raceway type, and actual length.

D. Study Reports:

1. General Requirements:

a. Identify date of study and study preparer.

b. Identify study methodology and software product(s) used.

c. Identify scope of studies, assumptions made, implications of possible alternate scenarios, and any exclusions from studies.

d. Identify base used for per unit values.

e. Include single-line diagram and associated input data used for studies; identify buses on single-line diagram as referenced in reports, and indicate bus voltage.

f. Include conclusions and recommendations.

1.05 QUALITY ASSURANCE

A. Study Preparer Qualifications: Professional electrical engineer licensed in the State in which the Project is located and with minimum five years experience in preparation of studies of similar type and complexity using specified computer software.

B. Computer Software for Study Preparation: Use the latest edition of commercially available software utilizing specified methodologies.

END OF SECTION

Section 28 13 00 – ELECTRONIC ACCESS CONTROL

PART 1 -GENERAL

01.06 GENERAL CONDITIONS

B. Drawings and general provisions of Contract, including General and Supplementary Conditions, apply to this and other sections of Division 28.

01.07 RELATED WORK

B. Related work specified in other sections of Division 28:

1. PLC Electronic Detention Monitoring and Control System

01.08 DESCRIPTION OF WORK

B. This section includes the requirements and operational characteristics for an Access Control System, which is an integral part of the Electronic Security System.

C. The existing Hirsch Model 8 Access Control Controllers shall be re-used.

D. The existing Hirsch software shall be upgraded to the latest compatible software as specified herein.

E. Add a 2-year Hirsch Velocity Server Software Support Agreement to the system.

F. The existing Hirsch server shall be reused.

G. Replace the fifteen (15) existing Hirsch Scramble Pads with new. Re-use cable.

H. Provide all labor, equipment, materials, and supervision to install, program, calibrate, adjust, document, and test the total system as required herein and on the drawings.

I. Where shown on the documents, provide proximity readers and other access control system devices (i.e. - scramble pads). Upon correctly entering a personal ID code or presenting a proximity card, keyfob, etc., the system shall grant access to a controlled device or resource.

01.09 SUBMITTALS

B. All products and systems described in this section shall be submitted in accordance with Section 28 05 00.

01.10 TECHNICAL REQUIREMENTS, ELECTRONIC ACCESS CONTOL SYSTEM

A. General: The following information is provided to establish required system performance for the complete operating HIRSCH ACCESS CONTROL SYSTEM. Contractor shall provide equipment, wiring, and software programming, as necessary, to provide a complete system as described herein and as shown on the drawings.

1. Contractor shall be responsible for providing equipment and software to achieve the specified system performance described herein and, by reference, realize absolute and seamless compatibility with the existing system.

2. Contractor shall ensure that modifications provided under this scope of work have no negative effect on the existing systems and operations, and no permanent effect beyond that specified or implied by the scope of work unless otherwise noted herein.

B. Attributes

1. The system shall comprise Electronic Access Control System field devices located as shown on the drawings and connected together to provide a complete and operational system.

2. The HIRSCH ACCESS CONTROL SYSTEM shall be based on a distributed system of fully intelligent, stand-alone controllers, operating in a multi-tasking, multi-user environment.

3. The HIRSCH ACCESS CONTROL SYSTEM shall utilize a single seamlessly integrated relational database for all functions utilizing a fully multi-tasking multi-threading Microsoft Windows Server 2008 (32-bit) environment and utilize SQL 2008 R2 (64-bit) as the database engine.

4. The HIRSCH ACCESS CONTROL SYSTEM shall function as an Electronic Access Control System and shall integrate alarm monitoring, ID badging and database management into a single platform. A modular and network-enabled architecture shall allow maximum versatility for tailoring secure and dependable access and alarm monitoring solutions.

5. The HIRSCH ACCESS CONTROL SYSTEM shall be a modular and network-enabled access control system. The HIRSCH ACCESS CONTROL SYSTEM shall be capable of controlling multiple remote sites, alarm monitoring, video imaging, ID badging, emailing of events and alarms, digital video and CCTV switching and control that allows for easy expansion or modification of inputs and remote control stations. The HIRSCH ACCESS CONTROL SYSTEM control at a central computer location shall be under the control of a single software program and shall provide full integration of all components. It shall be alterable at any time depending upon facility requirements. HIRSCH ACCESS CONTROL SYSTEM reconfiguration shall be accomplished online through system programming. The HIRSCH ACCESS CONTROL SYSTEM shall include the following:

   a. Multi-User/Network Capabilities: The HIRSCH ACCESS CONTROL SYSTEM shall support multiple operator workstations via local area network/wide area network (LAN/WAN). The communications between the workstations and the server computer shall utilize the TCP/IP standard over industry standard IEEE 802.3 (Ethernet). The communications between the server and workstations shall be supervised, and shall automatically generate alarm messages when the server is unable to communicate with a workstation. The operators on the network shall have the capability to log on to workstations and remotely configure devices from the workstation. Standard operator permission levels shall be enforced, with full operator audit.

   b. Licensing: The system shall include a license that provides unlimited number of doors, readers and alarm points, and the following features: Photo ID badging, Graphics, Alarm Monitoring, unlimited number of clients, unlimited WEB client console for mobiles devices, and advanced feature set.

c. There shall be no additional licenses required to expand the number of readers, inputs, outputs, client workstations or web client console connections. Systems that shall require additional licensing for standard expansion shall not be accepted.

6. Relational Database Management System: The HIRSCH ACCESS CONTROL SYSTEM shall support industry standard relational database management systems. This shall include relational database management system Microsoft SQL Server 2008.

7. System Partitioning: The HIRSCH ACCESS CONTROL SYSTEM shall provide the option to restrict access to sensitive information by Roles. The HIRSCH ACCESS CONTROL SYSTEM shall support dynamic partitioning. An HIRSCH ACCESS CONTROL SYSTEM in which partitions are set up at installation and cannot be easily changed shall not be acceptable.

8. The HIRSCH ACCESS CONTROL SYSTEM shall have an available LDAP Integration that will run as a Windows Service and listen for log entries written by Active Directory to the domain controller's Event Logs for AD user adds, updates, and deletes to synchronize HIRSCH ACCESS CONTROL SYSTEM users and credentials in real time. In addition, LDAP Integration will poll Active Directory on a scheduled basis for AD user changes as a secondary measure to ensure synchronization. LDAP Integration will include a configuration application to configure synchronization rules and physical access. Basic features of Active Velocity include (but are not limited to):

   a. Automatic synchronization of AD and HIRSCH ACCESS CONTROL SYSTEM users in real time.

   b. Disable/Enable Velocity credentials for physical access based on status of AD users. For example, if an AD user is disabled, LDAP integration will disable all credentials associated with the AD user resulting in no physical access to any doors on the premise secured by HIRSCH ACCESS CONTROL SYSTEM.

   c. Map AD fields to HIRSCH ACCESS CONTROL SYSTEM User Defined Fields (UDFs) through LDAP integration configuration. Changes made to AD user fields will be synchronized with associated HIRSCH ACCESS CONTROL SYSTEM UDFs

   d. Add/Update/Delete performed on AD users will be synchronized with associated HIRSCH ACCESS CONTROL SYSTEM user.

   e. Auto provision physical access to a user’s credential based on AD user’s job code or assigned AD user field. LDAP integration will make use of HIRSCH ACCESS CONTROL SYSTEM Credential Templates to assign default access based on the AD user’s position or group name (to be decided by customer).

9. Unicode: The HIRSCH ACCESS CONTROL SYSTEM shall utilize Unicode worldwide character set standard. The HIRSCH ACCESS CONTROL SYSTEM shall support double-byte character sets.

10. Encryption: The HIRSCH ACCESS CONTROL SYSTEM shall provide multiple levels of data encryption.

    a. True AES data encryption between the host and internal controller communications boards shall be provided. The encryption shall ensure data security that is compliant with the requirements of FIPS-197 and SCIF environments. Master keys shall be downloaded to the intelligent controller,

which shall then be authenticated through the HIRSCH ACCESS CONTROL SYSTEM based on a successful match.

b. Controller communications boards shall be available with 128-Bit FIPS197 AES encryption (SNIB2) or with 256-bit FIPS140-2 encryption algorithms.

c. Transparent database encryption, including log files and backups

d. SQL secure connections via SSL

11. Supervised Alarm Points: Both supervised and non-supervised alarm point monitoring shall be provided. Upon recognition of an alarm, the system shall be capable of switching CCTV cameras that are associated with the alarm point.

12. Alarm Monitoring Supervision: The system shall support input point supervision. The sensitivity of the line supervision shall be 2% AA Standard. End-of-Line modules shall be placed at the device end only. The system shall display the following alarm point monitoring functions:

a. Normal

b. Forced Entry

c. Alarm

d. Door Open too Long (Door Prop)

e. Noisy

f. Short

g. Out-of-Spec

h. Tamper

13. Windows Authentication Login: The HIRSCH ACCESS CONTROL SYSTEM shall use an integrated authentication method which utilizes Windows user accounts and policies.

14. Roles

a. The Systems Administrator defines the Operator Role that allows permissions for each specific component of the system. The System Administrators can assign one or more Roles to an Operator. These roles authorize which workstation and what the Operator is allowed to see and do within the EAC.

b. Options:

1) Each system component will have a set of Options specific to that component. The System Administrator defines which Options are available for each User.

2) Standard Options for each component shall be Add, Delete, Save, and Edit

c. System Components Shall Include:

1) Application Permission: Identifies which modules are visible to an Operator and which tasks within the application are available.

2) Cameras can be assigned or restricted by role.

3) Command Sets: Control over any point or points through a single

mouse click

4) Credential Templates: Pre-defines access and all attributes within Enrollment except the specific card or PIN

5) Controller Hardware: Each point is subject to a permission by Time Zone

6) Door Groups: Access through Reader + Time Zone in multiple combinations

7) Event Viewer Filters: Events may be routed and specified to a single workstation and down to a single event

8) Function Groups: Multiple functions both control and access, pre-defined utilizing keypad and may be assigned to multiple PINS that assume the same functionality

9) Graphics: Live state changes in graphical format

10) Person Groups: Segregation of the Enrollment Manager database and may limit to a single Person Group by Operator Role

11) Person Templates: Auto populate customer defined fields for Enrollment Manager

12) Reports: 112 basic reports with SQL statement capability for creating custom reports

13) Status Viewer Groups: Built in filters for monitoring one or multiple points in any combination. Allows access to all properties and functions

14) Video Explorer Groups shall enable pre-configured camera views on system launch.

d. Alarm and Event Routing can be defined by Operator Role. Specific alarms and events can be routed by Time Zone to Operators to allow for only those Operators needing to see certain alarms and events to see them

15. Operators: Operators entered into the system shall take on the properties of the Roles to which they are assigned. If the Operator is already defined in the Operating System, the “Find” feature can be used to select this Operator for use in Velocity

16. Switch Operator: There shall be the capability to change Operators without the need for the current Operator to Log Off the computer. The new Operator’s permissions are then used during the session to control access to HIRSCH ACCESS CONTROL SYSTEM functionality

17. Information Access: The HIRSCH ACCESS CONTROL SYSTEM shall be capable of limiting operator access to sensitive information. Operators must have proper authorization to edit the information.

18. Graphical User Interface: The HIRSCH ACCESS CONTROL SYSTEM shall be fully compliant with Microsoft graphical user interface standards, with the look and feel of the software being that of a standard Windows application, including hardware tree-based system configuration.

19. Status Viewer: The software shall include a Status Viewer which will display real-time status of all or selected Doors, Readers, Inputs, Relays, Expansion Inputs,

Expansion Relays, and Controllers. Devices may be grouped into “Status Groups”, which are selectable from a drop down list. Authorized operators shall be capable of right clicking each point to control the point to change the complete properties including the ability to mask/unmask alarms, trigger relays, access and control the doors, view the state of the relay and line module voltage. Devices may have selected information displayed. Filtering of components shall be built into the Status viewer. The available information includes the following:

a. Name and Address

b. Status

c. Alarm and Acknowledged Status

d. Masking Status

e. Line Module Input Status and Type

f. Relay Status

g. Detailed Relay Status

h. Controller Threat Level Status

i. Revision Number

j. Enables Status

k. Controller Alarm Relay, Tamper, and Battery Status

20. Alarm Viewer

a. The Alarm Viewer shall have 4 panes: Alarm, Acknowledged Alarms, Instructions, and Comments. Counters will indicate Active Alarms, Acknowledged Alarms, and Off Normal Conditions. The Alarm Viewer may be manually launched or launched automatically in the event of a new alarm occurrence. Alarm Viewer properties that may be configured include:

1) Require Acknowledgement before Clearing

2) Auto Acknowledge on RTN (Return to Normal)

3) Require Entry of Note on Acknowledgement

4) Force New Note on Multiple Acknowledgements

5) Require Entry of Note on Clear

6) Force New Note on Multiple Clear

7) Restore Alarm Viewer on New Alarm

8) Specify the number of Cached Alarms to Load at Launch of Alarm Viewer

b. Foreground, Background, Alarm, and Secure colors may be changed. In addition, the Columns of data viewed in the Alarm and Acknowledged windows may be selected, and the sequence in which they will appear. :

c. Right-Clicking an Alarm Event shall display a list of available options, including

1) Acknowledge Selected/All

2) Clear Selected/All

3) Add Operator Note

4) Go To Graphic

5) Display Credential (User Photo)

6) Replay WAV file

7) NVR Alarm Video: Show Viewer, and Get Recorded Alarm Video

21. Event Viewer

a. The Event Viewer can display all or Filtered Transactions. Custom filters may be defined and selected, or Standard selections can be made for main categories of Event types. Column width, order, selection, and scrolling direction are user definable, as well as text and background color.

b. The number of cached events to load when launched (up to 10,000) may be defined. The Operator shall be able to scroll back in time to view events no longer seen on the screen, without the need for running a report.

22. Keyboard Shortcuts: The HIRSCH ACCESS CONTROL SYSTEM shall allow the user to use a shortcut key to enable designated system commands.

23. User Functions and ADA Compliance: The HIRSCH ACCESS CONTROL SYSTEM shall provide user functions and ADA (Americans with Disabilities Act) compliant capability to trigger an event at the HIRSCH ACCESS CONTROL SYSTEM intelligent controller when a defined card is presented.

24. Boolean Logic Functions: The system shall support Boolean algebra logic function programming. The system shall support ‘AND’, ‘OR’, and ‘IF/THEN’ programming function for any input/and/or output device in the system.

25. Report Manager

a. The Report Manager shall allow the Operator to select from a number of pre-defined Reports. Custom Reports can be created outside the software, and added to a Custom folder, making the Custom Reports available from within the Report Manager application.

b. When a Report is selected, the default Criteria and Sorting options may be used, or custom Criteria and Sorting options may be selected. The report criteria can be optionally displayed on the top of the report.

c. After the report is run, it may be viewed, printed, or saved in various standard file formats.

d. Standard Reports: Provide a minimum of the following standard reports, completely configured, formatted and linked to the system database:

1) Customization Reports

a) Component Resources

b) Customizations Reports

2) Hardware Configuration

a) Controllers

b) Doors

c) Expansion Inputs

d) Expansion Relays
e) Inputs
f) Network Layout
g) Printers
h) Readers
i) Relays

3) History Logs
a) Active Alarms by Date
b) Alarm Log by Date
c) Alarm Log by Date with Comments
d) All Events Log
e) External Events Log
f) Internal Events Log
g) Operator Log
h) User Activity Log

4) User Information
a) Credential Status
b) Door Access by Person
c) Dossier Style by Person
d) Expired and To-Be-Expired Person Access
e) Expired Credentials
f) Last Access by Person
g) Person Access and Function Group Summary
h) Person Access and Function Group Summary with Codes and Cards
i) Person Access by Door
j) Person Access Summary
k) Person Access Summary with Codes and Cards
l) Person FG Summary with Codes and Cards
m) Person Function Group Summary
n) Who Is Inside Where

5) Software Configuration
a) Command Sets
b) Door Groups
c) Function Group Extensions
d) Functions Groups with Users
e) Functions with Users

f) Holiday Schedules

g) Holidays

h) Master Door Groups

i) Master Door Groups with Persons

j) Operator Groups

k) Operators

l) Time Zones – Grand Master Time Zone

m) Time Zones – Master Time Zone

n) Time Zones – Standard Time Zone

o) Time Zones – Standard Time Zones in Use

e. Reports – Boolean Logic: Provide software that supports easy access reporting using Boolean Logic for the creation, storage and retrieval of user-defined reports comprising information extracted from the system database. All database information including, but not limited to, event, activity, audit trail, cardholder and configuration information shall be accessible for database searches, on-screen viewing, and inclusion onto printed reports. Database links shall be user-definable.

26. Database Operator Audit Log: The HIRSCH ACCESS CONTROL SYSTEM shall be capable of creating a detailed audit log in the history file following any change made to the HIRSCH ACCESS CONTROL SYSTEM database by an operator. The audit log shall record specific changes or manual operations made by an operator.

27. Hardware XML Configuration: The HIRSCH ACCESS CONTROL SYSTEM shall support the ability to define hardware to simplify the process of creating an access control system including time zones, door set-ups, and alarm action triggers.

C. HIRSCH ACCESS CONTROL SYSTEM Software Functionality

1. General: This information is provided to explain the HIRSCH ACCESS CONTROL SYSTEM functional capabilities. Some, but not all, of these functions will be utilized to accomplish the functionality required for this project

2. The HIRSCH ACCESS CONTROL SYSTEM Software shall inherently support an unlimited number of card readers, input points, intrusion detection points, and relay outputs. The HIRSCH ACCESS CONTROL SYSTEM database server shall support an unlimited number of cardholders, visitors, and assets limited only by the available memory on the Controller. The database server shall also support an unlimited number of system events and System Operator transactions in the history file limited only by available hard disk space. Client Workstations shall be limited only by the limitations of the operating system server software.

3. Time Zones

a. Time Zones define periods during which readers, cards, codes, alarm inputs, doors, or other system features are active or inactive. Basic configuration parameters shall “ask” the Operator to define “when” the user is enabling (or disabling) a specific feature. In addition to Monday-Sunday, there shall be one day of the week called Holiday. When selected, there will be 4 Holiday Schedules that determine if the Holiday is to be followed for this Time Zone. There shall be 64 Standard Time Zones, 64 Master Time Zones, and 20

Grand Master Time Zones

b. Each time zone shall be assignable to an alphanumeric name of up to 50 characters. Time zones shall be applied to access levels, card reader modes, alarm inputs, alarm outputs, and alarm masking and logging functions. Time zones shall be allowed to belong to any or all access levels so that the time zone only has to be defined once.

4. Holidays

a. The HIRSCH ACCESS CONTROL SYSTEM software shall support Holidays to make an exception to a time zone on a specific date. Each time zone has up to 4 holiday schedules. There are 366 user definable holidays per year. It shall be possible for the operator to “make the rest of today a holiday”. Holidays shall be selected from a calendar, including the ability to select multiple days.

5. Access Levels

a. The HIRSCH ACCESS CONTROL SYSTEM shall be capable of defining access levels with unlimited number of credentials per cardholder. Access Levels shall consist of a combination of card readers and time zones.

b. Each Access Level shall be assignable to an alphanumeric name using up to 50 characters.

c. Card readers shall have the ability to be assigned to any or all access levels defined in the HIRSCH ACCESS CONTROL SYSTEM. Individual card readers shall be capable of having a distinct time zone assigned to it.

d. The HIRSCH ACCESS CONTROL SYSTEM shall allow an ‘Allow User Commands’ option to be assigned on a per access level basis where keypad readers are in use.

6. Temporary Access Levels

a. The HIRSCH ACCESS CONTROL SYSTEM shall support Guest Credentials. Using the Enrollment feature a Guest credential may be configured the same as any other credential without being permanently assigned to a specific person. Credential Templates may be pre-configured with an access allotment to allow credentials to be pre-programmed before they are issued. The Guest credential may be a PIN or card and can be set to expire, disable, and can be re-assigned once returned and disassociated from the previous user. The system log will track transactions to each specific user within the time frame it was assigned to that user.

7. Function Groups

a. Credentials can be assigned to perform a single User Function, such as Momentary Access, or multiple functions such as Momentary Access in one controller and Control Trigger Function in a relay controller for Elevator Access. When multiple User Functions are required by a Person, a Function Group may be defined and associated with one or more credentials. The Function Group requires a ScramblePad keypad to be used, where the Person’s base Credential PIN number is entered, followed by an * (Asterisk), followed by a one or two digit Extension digit, which defines which User Function will be issued for which Control. This allows for a single person to perform multiple User Functions such as: Unlock Door, Relock Door, Change Threat Level, Mask Alarm Inputs, Lock Down Doors.

8. Credential Templates: Credential Templates allow the System Administrator to establish all parameters for a credential except the unique card or code. Pre-defined credentials that include the following parameters:

   a. Linking – allows for linked credentials to auto update when changes are made to the template.

   b. Badge Template Assignment – pre-determines which Badge Template will be printed when the Credential is assigned using the template.

   c. The system shall be capable of issuing users various types of credentials. Credentials can be utilized a variety of ways dependent on requirements at specific areas. These would include: Badge Only, Keypad, Card, Dual, Card+Dual, Keypad+Dual, Keypad+Card

   d. Card Type – defines bit format

   e. Activation/Expiration Date

   f. Code Length - pre-established code length from 3 to 15 digits

   g. Duress Digit – may be selected for each credential using the template

   h. Access or Control Credential Assigned

      1) Door Group

      2) Control Function

   i. Limits

      1) Threat Authority

      2) Day/Use Limits

      3) 2-Person Rule

      4) Apply Globally

   j. Options

      1) Executive Override Passback

      2) Special Needs Additional Timers

      3) Print Control

   k. Biometrics

      1) Smartcard Reader

      2) Panel ID and Site ID

      3) Expiration Date

9. Command Sets

   a. A Command Set defines an action or actions to be sent to one or more controllers. Command Sets can include: Unlock and Relock a Door; Lock Down and Release a Lock Down on one or more doors; make the rest of today a Holiday; Mask all Interior Alarm Points; change the facility Threat Level; Forgive All Passback. After being defined, a Command Set can be executed from the Command Set window, or from a Graphic Floor Plan icon, if defined. There shall be an unlimited number of Command Sets available to be defined. Command sets shall be defined with pick lists, and shall be

capable of being restricted by Operator Group and Workstation.

10. First Person Unlock: The HIRSCH ACCESS CONTROL SYSTEM shall provide a First Card Unlock feature than when configured retards a pre-determined time zone activated unlock command until a valid credential has been presented and granted access to the portal.

11. The following functions shall not require a host computer and shall function for all devices configured in a RS-485 topology.

    a. Two-Man Rule: Two access credentials required to enter an area. A user can be defined as Normal, A/B Rule A, A/B Rule B, or Executive Override. Function can be enabled/disabled by Time Zone.

    b. Door Interlocking (Mantrap): Requires authorized user to pass through a portal and for the portal to close and be in secure mode before the user can pass through the next portal. Function shall be implemented without third party hardware or software.

    c. Anti-passback Control: An authorized access credential shall not be able to re-enter an area until it has exited the area by presenting the credential to an exit reader.

    d. Timed Anti-passback: An authorized credential shall not be able to re-enter an area for a programmable time period.

    e. Occupancy Counting: The system shall be able to identify the number of credentials that have entered an area. The system shall be able to set minimum and maximum limits for any area and shall be capable of triggering one or more event based on the minimum and maximum levels for the area. The system shall be capable of displaying the count in any secured area without the need to run a report.

    f. Virtual Relays: The system shall support the ability to program alarm and event triggers for multiple points without requiring a physical relay. This function shall be capable of triggering control functions (inputs/outputs) through Time Zones allowing IF/THEN statements.

    g. Threat Levels: Threat levels shall allow an operator to change the function of the system based on the Threat Level chosen. Each system device can be programmed to operate in a different mode based on the current Threat Level for the system.

        1) No additional software license shall be required to enable the threat level feature.

        2) The system shall support a minimum of 99 threat levels.

    h. Use Count Limit: Limits the number of times a credential can be used before it is disabled. The system shall be able to set the limit from 1 to 255.

    i. Temporary-Day Limit: Shall specify the number of number of days a credential shall function before it is disabled.

    j. Absentee Rule: Shall disable a credential after a specified number of absences.

    k. After Hours Rule: Sets the time and date after which a credential will no longer be valid. Use of the credential after the expiration time and date shall prevent the credential from allowing access at a portal and shall notify the operator.

l. Duress Code at Keypad (ScramblePad only): Allows a user to enter a specific PIN when being forced to open a portal. The portal shall still open and a duress alarm shall be sent to the operator.

m. Function Commands: This function allows a user to enter a command at a keypad to activate a pre-programmed set of functions. A function command can include inputs and outputs in the event. An example would be to lock all doors in an area or arm all alarm points in a zone. The system shall support up to 99 Function Commands per credential.

n. Tag User: Sends an alert to the Alarm Viewer each time the credential/PIN is used at a reader/keypad location regardless of access authorized or denied. This alarm can also be issued when the card/code triggers a tagged control zone. A lost or stolen credential may also be tagged, so an alarm would occur if it was used.

o. Extended Individual Strike Times: The HIRSCH ACCESS CONTROL SYSTEM shall support Extended Individual Strike Times that allows a card reader's strike to be active for an extended period of time beyond the pre-determined standard strike time on a per cardholder basis. The extended strike time shall be user definable up to 8100 seconds. Extended strike times shall be set on a card reader by card reader basis.

p. Extended Individual Door Held Open Times: The HIRSCH ACCESS CONTROL SYSTEM shall support Extended Individual Door Held Open Times that allows a card reader's door to be held open for an extended period of time beyond the pre-determined standard held open time on a per cardholder basis. The extended held open time shall be user definable up to 1440 minutes. Extended held open times shall be set on a card reader by card reader basis.

1) Only those cardholders having Command Authority at a given card reader configured for 'Allow User Commands' shall have the ability to execute the Extended Held Open command at that card reader. The Extended Held Open command shall be available after a valid cardholder has received an Access Grant at the card reader. The cardholder shall have a period of fifteen seconds after the Access Grant to enter the extended held open command sequence.

12. Field Hardware Communications

a. The HIRSCH ACCESS CONTROL SYSTEM shall support communication with the Controllers by the following protocols:

1) RS-232

2) RS-485

3) TCP/IP

b. Communication baud rate shall be system selectable with a range between 1,200 to 115,200 bits per second.

c. Download communication between the HIRSCH ACCESS CONTROL SYSTEM and the Controller shall be fully multi-tasking and shall not interfere with operational functions.

d. Upon loss of communications between the HIRSCH ACCESS CONTROL SYSTEM Server and the Controller an alarm shall be created with a time stamp. Upon re-established communication the HIRSCH ACCESS

CONTROL SYSTEM and the Controller shall automatically re-synchronize from the point of communication loss without operator intervention.

e. Firmware Upgrades: Controller firmware shall be upgradeable via download from the server.

13. Multi-Drop Panel Support

a. The HIRSCH ACCESS CONTROL SYSTEM shall support a multi-drop Controller architecture whereby up to 16 Controllers shall be multi-dropped over RS485 from a single IP Port and whereby all 16 panels communicate back to that or IPport.

b. The multi-drop panel support shall be used in conjunction with other Controller wiring support such as the star wiring configuration, home-run wire architecture, and advanced distributed network architecture.

14. Global Boolean Event Linkage

a. The HIRSCH ACCESS CONTROL SYSTEM shall support a global linkage feature whereby any input/output/event shall be linked to any other input/output/event in the HIRSCH ACCESS CONTROL SYSTEM. Input / Output Linkages shall be able to span across Controllers multidropped off the same IP port.

b. System Administrators shall be able to create global I/O function lists, each consisting of a sequence of actions to be performed, such as changing card reader modes, activating outputs, and opening or closing anti-passback areas. Each function list may include up to six actions.

15. Alarms

a. Pre-Alarm: The HIRSCH ACCESS CONTROL SYSTEM shall support a pre-alarm feature at the ScrambleSmart card reader. The pre-alarm will sound a tone at the card reader prior to the door held open alarm.

b. Alarm/Event Logging

1) Alarms and events in the HIRSCH ACCESS CONTROL SYSTEM shall by default always be recorded in the database. The HIRSCH ACCESS CONTROL SYSTEM shall give System Administrators the ability to select on a time zone basis, the times that they require the HIRSCH ACCESS CONTROL SYSTEM to log specific events to the database.

2) System Administrators shall have the option for Alarm/Events to be set to log or not to log particular alarms/events on any individual reader and or input.

c. Alarm/Event Routing

1) The HIRSCH ACCESS CONTROL SYSTEM shall be capable of allowing System Administrators to route alarms and events to various Alarm Monitoring client workstations on the network. The HIRSCH ACCESS CONTROL SYSTEM shall allow any alarm or event to be routed to one or multiple client workstations on the network regardless of where the alarm is generated in the field. Alarms shall be routed to client workstations on a device by device level.

2) The HIRSCH ACCESS CONTROL SYSTEM shall implement network synchronization that in the event alarm/event is routed to multiple client

workstations, once the first client workstation 'grabs' the alarm, the alarm/event shall be cleared from all other client workstations. As such, alarms that are routed to an Alarm Monitoring client workstation which does not have a System Operator logged in shall be queued so that all unacknowledged alarms will report to that client workstation once a System Operator has logged into the HIRSCH ACCESS CONTROL SYSTEM. Alarms/Events shall be routed based on default settings or time zone control.

3) The HIRSCH ACCESS CONTROL SYSTEM shall provide alarm escalations to system administrators by priority level.

d. Text Instructions: The HIRSCH ACCESS CONTROL SYSTEM shall allow for a set of text instructions to be associated with each alarm that arrives into the HIRSCH ACCESS CONTROL SYSTEM. Each alarm or event in the HIRSCH ACCESS CONTROL SYSTEM shall have its own unique set of text instructions should the System Administrator desire.

e. Customizable Voice Instructions: The HIRSCH ACCESS CONTROL SYSTEM shall allow for a customizable voice instruction to be associated with HIRSCH ACCESS CONTROL SYSTEM alarms. The customizable voice instruction feature shall allow the System Administrator to record a voice instruction of unlimited length.

f. Customizable Voice Annunciation: The HIRSCH ACCESS CONTROL SYSTEM shall allow for a customizable voice annunciation to be associated HIRSCH ACCESS CONTROL SYSTEM alarms. The customizable voice annunciation shall allow the System Administrator to record a voice annunciation of unlimited length.

g. Alarm Function Configuration

1) The System Administrator shall have the ability to configure how the HIRSCH ACCESS CONTROL SYSTEM handles the annunciation of alarms on an individual basis. Each alarm and/or event shall have the option(s) to:

a) Display at one or more Alarm Monitoring client workstation.

b) Allow higher priority alarms to be displayed on the Alarm Monitoring client workstation ahead of lower priority alarms.

c) Require the field device, which generated the alarm to be restored to its normal state before the alarm is cleared.

d) Print the alarm to the local event printer.

e) Have a customized voice message annunciate at the client workstation.

f) Have the alarm breakthrough to the Alarm Monitoring window should the System Operator be working in another application

g) Ensure that the alarm will not be able to be deleted from the Alarm Monitoring window upon acknowledgment.

h) Display text and audio instructions outlining the procedures to follow when responding to the alarm.

i) Automatically call-up associated maps.

j) Automatically call up the associated cardholder record.

k) Automatically call up the associated cardholder photo using the video verification function.

l) Require acknowledgment to clear.

m) Allow mandatory operator note upon acknowledgment.

n) Use pre-defined operator note entries for alarms.

o) Select the option for operator instructions based upon the specific alarm.

p) Send DVR/NVR interface commands to the DVR/NVR

q) Automatically send an e-mail message.

r) Automatically send an alphanumeric page.

s) Have the alarm appear on the Alarm Monitoring window with a flashing colored icon across the alarm for high priority alarms.

t) Have the alarm, when acknowledged, display an alternative flashing color coded icon in the alarm window column

u) Require User Logon for Acknowledgment

v) Require Local Acknowledgement from a related Reader/Keypad.

h. Alarm-Event Mappings: The HIRSCH ACCESS CONTROL SYSTEM attributes in Customization Manager shall be assignable on a ‘global’ basis to all devices that share an alarm description. Thus, the ‘door forced open’ alarm attributes shall apply to any door with a card reader that is forced opened. The HIRSCH ACCESS CONTROL SYSTEM shall have the capability to assign a unique group of alarm attributes to specific device/alarm combinations to override the global settings for specific case settings. For example, System Administrators may assign a different set of attributes to be applied to a ‘door forced open’ at a vehicle gate or door onto the AOA than they would if the front door to a building was forced open. The HIRSCH ACCESS CONTROL SYSTEM must include this type of flexibility. Each device/alarm combination shall have the ability to have its own unique attribute set if the System Administrator desires.

i. Alarm Masking: The HIRSCH ACCESS CONTROL SYSTEM shall support the masking of alarms to be controlled on a time zone basis or by manual control.

1) Alarm Masking shall be able to be implemented in groups or as individual points (a “group” of one).

2) The HIRSCH ACCESS CONTROL SYSTEM shall support a group alarm masking feature where System Administrators shall be able to create groups of alarm inputs that enable them to mask or unmask multiple Input Control Module inputs and card reader inputs simultaneously.

3) The following events shall have the ability to be part of an alarm masking group:

a) Alarm Input Active

b) Card Reader Events

c) Auxiliary Input Active

d) Door Contact Tamper

e) Door Forced Open

f) Door Held Open

g) Card Reader Input Tamper

4) Alarm Masking Groups must support the ability to be masked multiple times. Alarm Masking Groups shall be able to be masked and/or unmasked via Alarm Monitoring commands by guards, via card reader keypad function keys, or via global linkage commands.

5) When a point is “masked” the system shall continue to track the status of the point for display on the active GUI, and monitor the supervisory status of the point and its wiring.

6) The HIRSCH ACCESS CONTROL SYSTEM shall support an Alarm Masking Group status change (Masked to Unmasked or Unmasked to Masked) action to be linked to a function list that is capable of performing many system actions, such as activating a relay output.

j. Input/Output Point Options: The HIRSCH ACCESS CONTROL SYSTEM shall provide the following options for the Input Points:

1) Alarm Masking – The ability to mask the alarm input on a time zone basis.

2) Local Linkage – The ability to locally link outputs with inputs that are attached to the same Controller segment

3) Activate Output - The ability to activate an output on a time zone basis.

4) Activate Output Always- The ability to activate an output always.

5) Guard Tour Log – The ability to configure an input as a designated stop on one or more guard tours.

6) Entry/Exit Delay – The ability to set up entry/exit delays for inputs. This shall include

a) Non-Latched Entry: When an input activates, the alarm will not be reported until the Entry delay expires. If the input is still active when the entry delay expires, the alarm will be reported. If the input is not active when the entry delay expires, then the alarm will not report.

b) Latched Entry: When an input activates, the alarm will not be reported until the Entry delay expires. If the input is still active when the entry delay expires AND the alarm has NOT BEEN MASKED, the alarm will be reported. If the input has been masked when the entry delay expires, then the alarm will not report

c) Exit Delay: When an input activates, the alarm will not be reported (operates as if masked) until the Exit delay expires. If the input is still active when the exit delay expires, the alarm will be reported. If the input is not active when the exit delay expires, the alarm will not be reported.

k. Current Status Indication: The Alarm Monitoring window shall provide a status indicator that displays the current status of alarms, card readers, and Controllers.

l. Pre-Defined “Canned” Alarm Acknowledgment Responses: The HIRSCH ACCESS CONTROL SYSTEM shall have the capability for pre-defined alarm acknowledgment responses for alarms in the HIRSCH ACCESS CONTROL SYSTEM. An unlimited number of pre-defined responses shall be able to be configured for each alarm in the HIRSCH ACCESS CONTROL SYSTEM.

m. Alarm Monitoring – Column Display & Configuration: The HIRSCH ACCESS CONTROL SYSTEM shall allow System Administrators and System Operators to define which columns are displayed in the Main Alarm Monitoring Window and in which order. System Administrators and System Operators shall also be able to determine the column order.

n. On-Line Context Sensitive Help: The HIRSCH ACCESS CONTROL SYSTEM shall provide on-line context sensitive help. The help menus shall be available from any window in the HIRSCH ACCESS CONTROL SYSTEM by pressing the F1 function key or clicking on the help icon in the toolbar.

o. Sorting Capabilities: The HIRSCH ACCESS CONTROL SYSTEM shall allow System Operators to arrange the way that alarms and/or events in the Alarm Monitoring window are listed by sorting the alarms and events. Sort criteria shall be based on priority, time/date, Controller, Card Reader, Input Device, or Cardholder. Additionally alarms and events can be sorted based on asset scan ID, asset name, intercom station, intrusion panel, transmitter, or transmitter input.

16. Device Control through Command Sets: The HIRSCH ACCESS CONTROL SYSTEM shall support Operator Roles for device grouping for uniform command and control of groups of devices within the system. There shall be no limit on the Groupings. Any point connected to the HIRSCH ACCESS CONTROL SYSTEM shall be capable of being grouped together for Operator Control including:

    a. Card Reader Groups

    b. Input Groups

    c. Relay Output Groups

    d. Video Camera Groups

    e. Control Panels

    f. Trigger Groups (groups of inputs and outputs) with associated functions

    g. Threat Levels up to 99

17. Scheduling Agent Utility

    a. The HIRSCH ACCESS CONTROL SYSTEM shall provide an integral Scheduling Utility. The Scheduling Utility shall allow System Administrators to schedule actions to occur on a one-time or a recurring basis. Recurring schedules shall be configured to begin immediately, last indefinitely, or have optional start and end dates.

    b. The Scheduling Utility shall be available from both the System Administration and Alarm Monitoring modules.

    c. The types of actions that shall be schedulable include but are not limited to:

        1) Action Group

        2) Event Archiving / Purging

3) Arm / Disarm Area

4) Start of Guard Tour

5) Execution of Data Exchange Scripts

6) Activate, Deactivate, Pulse Device Output and Device Output Groups

7) Global Anti-Passback Reset

8) Download Firmware to Controllers and IP Cameras

9) Download Database to Controllers

10) Execute Function List

11) Mask / Unmask Inputs, Input Groups, Alarm Mask Groups, Door Forced Open or Held Open

12) Open Door, Open Door Group

13) Change Reader Mode

14) Automatic Reports

15) Reset Use Limit

d. The Scheduling Utility shall maintain a history log in the database for actions that it executes.

18. Access Control

a. Multiple Card Formats: The HIRSCH ACCESS CONTROL SYSTEM shall support an unlimited number of card formats. Magnetic stripe, RFID, contactless smart card, and contact smart card formats shall be supported. Each Controller shall support multiple card formats and combinations of card formats from various bit length structures simultaneously. In addition, the HIRSCH ACCESS CONTROL SYSTEM shall support the following:

1) Any industry standard Wiegand card format.

2) Any industry standard 125Khz and 13.56 MHz card technology.

3) Amy biometric device that provides wiegand output data

b. ID Formats: The HIRSCH ACCESS CONTROL SYSTEM shall support multiple ID formats for a variety of credentials enrolled in the system: These would include Badge Only, Keypad, Card, Dual, Card+Dual, Keypad+Dual, Keypad+Card..

c. Denied Access Attempts Counter: The HIRSCH ACCESS CONTROL SYSTEM shall support a denied access attempts count per controller. The “Denied Attempts Count” value shall be configurable from 1 to 99 seconds. The following access denial types shall cause the current reader to be disables for 1 to 60 minutes:

1) Unknown PIN entry at a card reader configured as ‘PIN or Card’ mode

2) Invalid PIN entered for a given card at a card reader configured as ‘Card and PIN’ mode

3) Non-matching biometric presented for a given card at a card reader in biometric verify mode.

4) Each card reader shall have the ability to have multiple time zone

setting overrides assigned to them as required by the System Administrator.

d. Card Reader Options:

1) The HIRSCH ACCESS CONTROL SYSTEM shall include the following options for each reader on the system:

a) Allow User Commands

b) Rename Auxiliary Inputs

c) Rename Auxiliary Outputs

d) Independently Supervise RQE (request-to-exit) and DPS

e) Configure RQE and DPS as Normally Open or Normally Closed

f) Deny if Duress

g) Alarm Masking

h) Activate Outputs

i) Two Person Rule

j) Do Not Activate Strike on RQE

2) ScrambleSmart Reader shall include standard Card Reader options plus the following options:

a) LED Control

b) Silent Operation

c) Code Tamper Disable User

d) Scramble Normal

e) Viewing Restriction

f) Physical Tamper Switch

g) Moisture, Dust, Dirt and ESD Resistant

h) 125kHz proximity and 13.56MHz (ISO14443A&B/ISO15693) contactless

i) MATCH2 functionality

j) UL Listed

3) On Board MATCH options shall include standard reader options plus the following:

a) Weigand pass through

b) Allow for Greater Distance (Up to 1,800 feet using

18 gauge wires)

c) Configurable Multiple Outputs and Custom Formats

d) Entry and Exit Readers on a Single Reader Controller Port

e) Tamper

f) Addressable

4) The HIRSCH ACCESS CONTROL SYSTEM shall allow for user

definable door strike functionality for each card reader in the HIRSCH ACCESS CONTROL SYSTEM.

a) The HIRSCH ACCESS CONTROL SYSTEM shall allow for each card reader to be selected as either an 'in' reader, 'out' reader, or 'none' to allow for ease of reporting time and attendance basic 'time in' and 'time out' data.

b) Enforce Use Limit – This option shall enable Card Use Limits at the card reader limiting the number of times that cardholders may use their credential to gain access at the card reader

c) Supervise Door – Sets the HIRSCH ACCESS CONTROL SYSTEM so that the card reader door contact is wired as a supervised input.

e. Automatic Credential Deactivation based upon an Event: The HIRSCH ACCESS CONTROL SYSTEM shall have a programmable ability to deactivate an active badge based upon a pre-determined event. Any User Definable Field may be configured with an Expiration Date to effect deactivation based on specific criteria.

19. On-Line Context Sensitive Help: The HIRSCH ACCESS CONTROL SYSTEM shall provide on-line context sensitive help files to guide System Administrators and System Operators in the configuration and operation of the HIRSCH ACCESS CONTROL SYSTEM. The help menu shall be available from any window in the HIRSCH ACCESS CONTROL SYSTEM by pressing the F1 function key or clicking on the Help icon in the toolbar. Help windows shall be context sensitive so System Administrators can move from form to form without leaving the help window. The HIRSCH ACCESS CONTROL SYSTEM shall also come with complete on-line documentation with the HIRSCH ACCESS CONTROL SYSTEM software.

20. System Downloads

a. The HIRSCH ACCESS CONTROL SYSTEM shall provide for the downloading of data to the Controllers. Downloads shall load HIRSCH ACCESS CONTROL SYSTEM information (time zones, access levels, alarm configurations, etc.) into the Controllers first, followed by cardholder information and card reader configurations.

b. All Controllers on the HIRSCH ACCESS CONTROL SYSTEM shall be downloaded simultaneously (in parallel with one another) and bi-directionally so that alarms will still report to their respective Alarm Monitoring client workstations as cardholder information is being downloaded.

c. Information on cardholder status, badge status, time zones or access levels shall download in real time as they are added, modified, or deleted from the HIRSCH ACCESS CONTROL SYSTEM.

21. Auto Exit to Windows : The HIRSCH ACCESS CONTROL SYSTEM shall be configurable to automatically exit the Alarm Monitoring application and log the System Operator out of the Windows when a System Operator logs off an Alarm Monitoring client workstation. The HIRSCH ACCESS CONTROL SYSTEM shall then bring the System Operator to the Windows Login Window for the next System Operator to log on.

22. Manual Control: The HIRSCH ACCESS CONTROL SYSTEM shall provide the System Operator the option to manually control all output points or input points connected to the HIRSCH ACCESS CONTROL SYSTEM. Control points are

defined as any door strike, auxiliary card reader output, or any other relay output point of a Controller.

23. Third Party Interface: The HIRSCH ACCESS CONTROL SYSTEM shall be capable of passing alarm information to any third party system using a published SDK. When the HIRSCH ACCESS CONTROL SYSTEM receives an alarm from any monitoring point on the HIRSCH ACCESS CONTROL SYSTEM, a minimum of three (3) control commands relating to that alarm point may be sent to a third party system per alarm input or card access alarm. The 3 commands are sent based upon the following conditions:

    a. Upon arrival of the alarm at the HIRSCH ACCESS CONTROL SYSTEM

    b. Upon “selecting” or reviewing of the alarm

    c. Upon alarm acknowledgment or clearing the alarm

24. Real-Time, Dynamic Graphical Maps

    a. The HIRSCH ACCESS CONTROL SYSTEM shall support graphical maps that display device / group status, function lists and video cameras dynamically in real-time. The maps may be configured to appear on command or when specified alarms are selected for acknowledgment. Map device icons shall have the ability to dynamically change shape and / or color to reflect the current state of the device.

    b. The HIRSCH ACCESS CONTROL SYSTEM shall support all map formats listed below:

        1) AutoCAD DXF (.dxf)

        2) BMP (.bmp)

        3) JPEG (.jpg)

        4) TIFF (.tif)

        5) Windows Metafile (.wmf, .emf)

        6) VBD (.vbd)

    c. The HIRSCH ACCESS CONTROL SYSTEM shall support map hierarchies or maps within maps. There shall be no limit to the number of maps that shall be nested hierarchically with each other. Multiple maps may be displayed simultaneously.

    d. The HIRSCH ACCESS CONTROL SYSTEM shall support user defined icons for field hardware devices. The HIRSCH ACCESS CONTROL SYSTEM shall also give System Operators the ability to affect the mode of card readers, open doors, mask/unmask alarm inputs, and activate/deactivate/pulse an output from the map icons.

    e. The graphical maps shall have the ability to be printed to a local printer.

25. Credentialing

    a. Credential Management

        1) The HIRSCH ACCESS CONTROL SYSTEM shall include as a standard a Credential Management and Enrollment module that is integral to the HIRSCH ACCESS CONTROL SYSTEM source code with the ability to create and maintain the Cardholder database.

Features shall include the ability to:

a) Add, Modify and Delete records based upon permissions.

b) Capture photo images and signatures.

c) Print Credentials.

d) Boolean Search on any single or multiple fields.

e) Customization of screen layout and field names.

f) Advanced customization of fields, field names and screen tabs (pages) with optional Forms Designing and Editing Module.

g) Determine single or multiple active badges.

h) Assign Access Levels and Access Groups.

i) Bulk Assignment/Modification/Deletion of Access Levels.

j) Bulk Deletion of Cardholder Records.

k) Native support for U.S. Government Standards (FIPS-201)

b. Credentials: The HIRSCH ACCESS CONTROL SYSTEM shall support the following credential types and allow for direct Thermal Dye Sublimation printing onto the credential surface.

1) Composite Credentials - 3.375” x 2.125”, UPVC Composite credentials with an ISO standard 30 mil thickness

2) Proximity credentials

3) Smart Cards – Contact and Contact-less

c. Credential Management Enrollment Features:

1) The HIRSCH ACCESS CONTROL SYSTEM shall allow for automation of enrollment procedures with the following attributes based upon badge type:

a) Default Deactivation Date

b) Default Access Levels

c) Badge Design Layout

d) Badge Printer Selection

e) Encoding Format (if required)

f) Badge ID if set to automatic generation

d. Cardholder Image Capture

1) The HIRSCH ACCESS CONTROL SYSTEM must be compatible with flash lighting, RGB video cameras, composite input cameras, S-Video input sources, USB sources and digital cameras and allow the capturing of the cardholder image at a minimum resolution of 1024 x 968.

2) HIRSCH ACCESS CONTROL SYSTEM image capture, storage, and hardware compression techniques must be in compliance with the ANSI standard or JPEG (Joint Photographic Experts Group). Cardholder images must be stored as Binary Large Objects (BLOB) within the cardholder record.

3) The HIRSCH ACCESS CONTROL SYSTEM shall provide the ability to capture a cardholder's image through the use of any industry standard scanner or digital camera that utilizes a TWAIN interface. Images shall be able to be scanned in at up to 16.7 million colors for a true color scanned image.

e. Image Import: The HIRSCH ACCESS CONTROL SYSTEM shall allow for System Operators to have the ability to import a cardholder's image at the time of enrollment. The HIRSCH ACCESS CONTROL SYSTEM must support the following image formats:

1) Bitmaps (.bmp, .dib)

2) JPEG (.jpg)

3) Portable Network Graphics (.png)

4) TIFF (.tif)

5) Windows Metafile (.wmf, .emf)

f. Biometric Verification: The HIRSCH ACCESS CONTROL SYSTEM application software should be capable of integrating with biometric readers.

g. Network Account Allocation via Active Directory

1) The HIRSCH ACCESS CONTROL SYSTEM shall be able to link an HIRSCH ACCESS CONTROL SYSTEM cardholder account to the cardholder's Active Directory network account.

2) The HIRSCH ACCESS CONTROL SYSTEM shall enforce the allowable number of Network accounts per Cardholder

3) The HIRSCH ACCESS CONTROL SYSTEM shall be able to link/unlink an existing Windows Active Directory Account to a cardholder account.

h. Badge Design: The HIRSCH ACCESS CONTROL SYSTEM shall incorporate a Badge Design module that is integral to the HIRSCH ACCESS CONTROL SYSTEM source code with the ability to create and maintain badge designs. Features shall include the ability to support:

1) Complete Badge design and Layout tools

2) Image Import

3) Ghosting

4) Signature Capture

5) Barcode

6) Smart chip Support

i. ID Printers: The HIRSCH ACCESS CONTROL SYSTEM shall support any printer with industry standard and Microsoft Certified Windows 7 drivers. The HIRSCH ACCESS CONTROL SYSTEM shall support

1) Double-sided full color printing

2) Edge to edge printing

3) High-speed printing

4) Holographic overlays

5) In-line Magnetic Stripe Encoding

j. Image Export: The HIRSCH ACCESS CONTROL SYSTEM shall have the ability to export a captured and cropped cardholder image to an industry standard JPEG (.jpg) file format.

D. Special Functions Requiring Manufacturer Professional Services Group Support

1. Anti-passback features shall be supported natively within the HIRSCH ACCESS CONTROL SYSTEM. When configured in an RS485 fashion, all hardware shall support Global IO capability natively without the use of a Host server.

2. Global IO amongst IP networked controllers shall be supported through Professional Services.

3. Area Control (Global Functions): The HIRSCH ACCESS CONTROL SYSTEM shall provide five (5) area control features: Global Hard Anti-passback, Global Soft Anti-passback, Timed Anti-passback, Two Person Control, and Occupancy Limit. Area control shall be a security method of preventing a person from passing their badge to another person for dual entry into a single location utilizing one credential.

a. Global Hard Anti-passback: The Global Hard Anti-passback feature shall require that a badge always be used to enter and exit an area. The controlled areas shall have both entry and exit card readers at all portals. Entry and Exit Readers shall be able to span across multiple Controllers. Areas shall be logically defined under the HIRSCH ACCESS CONTROL SYSTEM, and area control shall not be required at all areas of the facility to be utilized. Global Hard Anti-passback shall work in the following manner. A cardholder must present his/her badge at the entry card reader of the area that the person wishes to enter. Once access has been granted into the area, the cardholder cannot present the badge to another entry card reader within the same area without first presenting his/her badge to the respective exit card reader of that area. Should a cardholder attempt to use any other card reader in the same area besides the occupied area’s exit card reader once access has been granted to that area, the cardholder shall be denied access and an alarm shall be reported to the Alarm Monitoring client workstation. It shall be possible to have an area within an area and/or multiple areas that are independent of each other in which Global Hard Anti-passback rules shall apply.

b. Global Soft Anti-passback: The Global Soft Anti-passback feature shall require that a badge be used to enter and exit an area. The controlled areas shall have both entry and exit card readers at all portals. Entry and Exit Readers shall be able to span across multiple Controllers. Areas shall be logically defined under the HIRSCH ACCESS CONTROL SYSTEM, and area control shall not be required at all areas of the facility to be utilized. Global Soft Anti-passback shall work in the following manner. A cardholder must present his/her badge at the entry card reader of the area that the person wishes to enter. Once access has been granted into the area, the cardholder cannot present the badge to another entry card reader within the same area without first presenting his/her badge to the respective exit card reader of that area. Should a cardholder attempt to use any other card reader in the same area besides the occupied area’s exit card reader once access has been granted to that area, the cardholder shall be allowed access (if that cardholder has the appropriate access level to access the new area), and an alarm shall be reported to the Alarm Monitoring client workstation. It shall be possible to have an area within an area and/or multiple areas that are independent of each other.

c. The following summary criteria shall apply under Global Hard or Soft Anti-passback:

1) Re-set of Passback Violations or Credential Forgiveness shall be capable so that all cardholders are re-set to Zone 0.

2) Any cardholder shall enter a controlled area any time after Credential Forgiveness by presenting a badge to an HIRSCH ACCESS CONTROL SYSTEM entry card reader.

3) A cardholder shall not exit the controlled area unless he has entered the area presenting a badge to the HIRSCH ACCESS CONTROL SYSTEM entry card reader

4) A cardholder shall not enter the controlled area a second time unless the cardholder has exited that area previously.

5) A cardholder shall be able to enter through any entry card reader and exit through any exit card reader of a single controlled area.

6) These options shall include a "forgiveness" feature that will allow the System Administrator to reset the anti-passback of all cardholders to Time 0 Area 0, either through a manual override or a time zone command.

7) The HIRSCH ACCESS CONTROL SYSTEM shall provide an anti-passback exempt option for privileged or VIP cardholders. Cardholders with this option will not have anti-passback rules applied to them.

8) The HIRSCH ACCESS CONTROL SYSTEM shall also have a “forgiveness” feature that will allow the System Administrator to assign “one free pass” to an individual cardholder. This shall allow the System Administrator to reset the anti-passback of an individual cardholder to Time 0 Area 0.

d. Timed Anti-passback: Timed Anti-Passback shall allow the System Administrator to decide how long after a cardholder has swiped their badge that they will have to wait before the same badge will be accepted again at the same card reader. This helps prevent multiple swipes by an individual to allow access to others through turnstile doors.

E. Who’s Inside Graphical Display:

1. The HIRSCH ACCESS CONTROL SYSTEM software shall natively include a real time Who’s Inside display. When an emergency occurs in an area or building, the user may know immediately who is inside a designated area and manage the swift movement of those people to a safe area. Individual access can be tracked using the Who’s Inside option. Users are grouped into zones and may be manipulated into other zones. Who’s inside will also be able to produce an HTML report from the Who’s Inside window without going inside the Report Manager.

F. Two Person Rule

1. Two-Person Rule shall be provided to restrict access to certain areas unless there are two (2) cardholders present. This restricts individuals from being alone in restricted or highly secure areas. When an area is configured for Two Person Rule, the following criteria shall prevail:

a. Two-person Rule shall support the ability to define A/B Rule allowing the

administrator to specify that it must be a specific combination of credentials. For example: Credential A+A equals no access. Credential A+B equals access. (Supervisor and Employee)

b. The card reader shall grant access only if two valid cardholders (with authorized access levels) swipe their badges one after the other. In the event that a second authorized card is not presented within 10 seconds of the first authorized badge, the card reader shall reset and the first card will have to be swiped again.

c. Once 2 people occupy an area, individual access shall be granted.

d. Individual exit shall be permitted until an area is occupied by only 2 cardholders at which point the Two Person Rule applies for exit.

G. Controllers

1. The Controller (Controller) shall link the HIRSCH ACCESS CONTROL SYSTEM Software to all “down-stream” field hardware components. The Controller shall provide full distributed processing of access control / Alarm Monitoring rules and operations. A fully loaded and configured Controller with shall respond in less than one-half (0.5) second to grant or deny access to cardholder.

2. The Controller shall continue to function normally (stand-alone) in the event that it loses communication with the HIRSCH ACCESS CONTROL SYSTEM server. While in this off-line state, the Controller shall make access granted/denied decisions and maintain a log of the events that have occurred. Events shall be stored in local memory, and then uploaded automatically to the HIRSCH ACCESS CONTROL SYSTEM database after communication has been restored.

3. In addition, the Controller shall incorporate the following features:

a. UL 294, ULC, and CE Certified

b. Support for Host Communications Speed of 115,200 bps

c. Support for Direct Connect, Remote Dial Up, or Local Area Network (LAN) Connection

d. Support for up to 128 MB of On-Board Memory

e. LAN Support shall utilize RJ45 (10/100baseT) Ethernet Interface connectivity

f. Flash Memory for real time program updates and overall host communications

g. Memory storage of up to 132,000 cardholders

h. Support for up to 32 devices consisting of relay, input, and output modules, in any combination desired, with a maximum of 16 I/OCM devices per Controller

i. Support of multiple card technologies

j. Supervised Communications between Controller and HIRSCH ACCESS CONTROL SYSTEM Software

k. AES 128 bit Symmetrical Block Encryption conforming to the FIPS-197 standard and conforming to the ICD 705 standard between Controller and HIRSCH ACCESS CONTROL SYSTEM Software communications driver.

l. Multi – drop support for up to eight Controllers per HIRSCH ACCESS CONTROL SYSTEM communications port

m. Support multiple card formats simultaneously

n. Support for FIPS 201-compliant card formats

o. RS-485 Full Duplex, UL 1076 Grade AA communication channel to the HIRSCH ACCESS CONTROL SYSTEM head-end

p. Integration to other manufacturer's card readers

q. Uninterruptible Power Supply (UPS) with battery backup (** Specify the amount of Backup Time Required)

r. 32-bit Microprocessor

s. A Controller downstream serial port shall multi-drop 16 access control field hardware devices using an RS-485 UL 1076 Grade A communication format allowing a distance of 4,000 feet using Belden 9842 cable or equivalent

t. 28 VDC input power

u. Issue Code Support for both Magnetic and Wiegand Card Formats

v. Individual Shunt Times (ADA Requirement)

w. Up to 15 Digit PIN Codes, including duress PIN Codes

x. Downstream serial RS-232 device support

y. Status LEDs for normal component and communication status

01.11 EQUIPMENT AND MATERIALS

A. System: Hirsch Velocity Security Management System. No Substitutions.

B. System Controller Panels: Provide sufficient controllers and input/output boards to meet all requirements of specifications.

2. HIRSCH ACCESS CONTROL SYSTEM Controller: Where new controllers are required provide the following;

a. Hirsch MX Controller, compatible with the HIRSCH ACCESS CONTROL SYSTEM application software, with a flash ROM module, power supply, battery standby, and Communications Module, as described herein. There will be no substitutions allowed.

b. Reader Support: Controller shall be configurable for 2, 4, or 8 readers. Enclosure, controller board, and accessories shall be the same for 2, 4, or 8 reader configuration for consistency in system hardware layout. Controllers shall be field upgradeable from 2 to 4 to 8 doors through firmware upgrade.

c. Provides Boolean logic functions for input/output points for primary and downstream controllers without need for host server

d. Dedicated encryption processor to enable PKI based certificate level encryption between controllers and host server. Encryption shall also include encrypted communication to readers with imbedded encryption processor.

e. The controller shall have integrated network communications with onboard Ethernet port.

f. High security supervised alarm points.

g. Configurable output relays.

h. Expansion capability within standard controller enclosure footprint:

1) Memory up to 132,000 users

2) 8-imput Alarm Expansion Boards – up to 4

3) 8-output Relay expansion boards – up to 5

i. Controllers shall be capable of upgrading the firmware through the HIRSCH ACCESS CONTROL SYSTEM head-end without requiring the need to access each controller to upgrade the firmware.

j. The controller shall support a MATCH reader interface board for entry/exit readers for a single door utilizing a single reader port on the controller.

k. The MATCH reader interface board shall enable enhanced cable distance from reader to controller up to 1,800 feet using 18 gauge wires.

l. CODE/Buffer: The controller shall be capable of expanding the CODE database up to a maximum of 132,000 Users with the addition of a memory expansion board. The board shall be mounted in the controller cabinet and connect to the controller board via an expansion bus cable. The CODE/Buffer expansion board shall be Hirsch Model MEB\CB64 (64,000 Users) or the MEB\CB128 (128,000 Users). Both Expansion Boards shall expand the Buffer capacity as well as the Code record capacity. The Model M1N shall not accept any CODE/Buffer Expansion board.

m. Event Transaction Buffer: The controller shall be capable of expanding the event transaction buffer up to a maximum of 20,000 events and 2,000 alarms with the addition of a memory expansion board. The board shall be mounted in the controller cabinet and connect to the controller board via an expansion bus cable. The event transaction buffer expansion board shall be Hirsch Model MEB\BE. The Model M1N shall not accept a Buffer Expansion board.

n. Controllers shall utilize Version 7.5.37 or later flash downloadable CCM (Command and Control Module) firmware.

3. Controller General Features: The software for the controller shall reside in Flash ROM (firmware) and be located on a plug removable module on the controller board to facilitate easy field upgradeability of the features. All of the necessary software for a fully functional System is located in the controller. The controller firmware shall be fully supported by the HIRSCH ACCESS CONTROL SYSTEM head-end, and include the following general features at a minimum:

a. 3 - 15 digit keypad Codes.

b. Duress digit for keypad Codes.

c. 150 Time Zones for access restriction and automatic event control.

d. 128 Access Zones for access management.

e. 256 Control Zones for alarm and relay management.

f. 366 programmable holidays this year, 366 days next year. Each Holiday may be assigned to 1 - 4 Holiday Schedules.

g. Automatic daylight savings time clock adjustment.

h. 27 different functions for Codes and cards, such as access, unlock, re-lock, alarm mask, and relay control.

i. Add user records.

j. Tag users for annunciation at host computer.

k. 4,000 Users.

l. 1500 event, 1500 alarm transaction buffer

4. Access Control Features: The controller shall include the following access control features at a minimum

a. Restrict access by: time of day; day of week; door; holiday.

b. Momentary Access of door up to 8100 seconds.

c. Extended Access for User Definable Momentary Access duration (requires ScramblePad). ScramblePad will display time remaining on the minute, and annunciate at the defined “Warning Time”.

d. Special Needs Time Extension to provide additional time for Momentary Access and Door Open Too Long for selected people.

e. Unlock/Re-lock of door by CODE, card, or Time Zone.

f. Door status monitoring shall allow for: door forced monitoring; door-open-too-long monitoring; door-open-too-long while door is unlocked; and auto-re-lock of door when opened or closed.

g. Request-to-exit masks alarm and/or unlocks door.

h. 2 person requirement by door. A user can be defined as Normal, A/B Rule A, A/B Rule B, or Executive Override. Can be disabled by Time Zone.

i. 63 Passback Zones. Can be disabled by Time Zone. A User can be designated with Passback Executive Override.

j. Use Count limits on users.

k. Absentee Rule limits on users.

l. Temporary Day limits on users.

m. Occupancy Counting / Minimum & Maximum limits per Passback Zone.

n. Deadman CODE / Timer.

o. Threat Levels – 99 Levels may be defined. Based on the Level in effect for the facility, selected readers may be disabled, dual readers in Card/Code Only During Time Zone can require dual, and selected User’s Credentials can be disabled.

p. Timed Anti-Passback

5. Alarm Management Features: The controller shall include the following alarm management features at a minimum:

a. Momentarily mask alarm by CODE and/or card.

b. Mask/unmask alarm by CODE and/or card or by Time Zone.

c. Alarm device supervised while masked.

d. Tamper switch on alarm device monitored while masked.

e. Tamper Input may be configured to operate as a “Latch Monitor” with the appropriate door lock hardware.

f. Entry/Exit delay per alarm input.

g. Alarm input triggers relays

6. Controller Connectivity

a. Controllers shall support connection to the security LAN/WAN using TCP/IP protocol, and shall also support connection to the manufacturer's standard data communications protocol (RS-232, RS-485, or RS-422).

b. TCP/IP-connected controllers may act as a network "gateway", to re-transmit controller data via the manufacturers standard data communications protocol (RS-232, RS-485, or RS-422), to other HIRSCH ACCESS CONTROL SYSTEM controllers located within the same site. Provide controllers which support the manufacturer's standard data communications protocol, RS-232/RS-485, as required.

c. LAN/WAN Interface Board: Model SNIB2 10/100 Mbps interface with 128-bit AES encryption.

7. Intelligent Reader Interface: The control panels shall utilize an intelligent reader interface (Model: MRIA or MRIB) to communicate with card readers of various types. The interface shall be microprocessor based and allow data formats including ABA magnetic stripe, Wiegand (26 to 55 bit), Proximity, Bar Code, Touch Memory, RF, and Biometric. The interface shall utilize a digitizing algorithm, which will convert the card data to a unique number, thus eliminating the need for facility codes. A single interface shall support both entrance and exit readers with keypads associated with each door. The interface shall be U.L. Listed to U.L.294. The reader interface shall be included as standard in all Scramble Pads.

8. Controller Power Supply: Provide Hirsch Model PSH5A power supply based on panel configuration.

9. Battery Back-up: Provide Hirsch Model SB7AH batteries to provide battery back-up on 120 VAC power failure.

C. Hirsch Scramble Pad

1. Hirsch Scramble Pad

a. DS47L-HI

01.12 SPARES:

B. Provide one (1) of each type of scramble pad used.

01.13 EXAMINATION

B. Verify that surfaces and areas are ready to receive work.

C. Verify field measurements are as shown on Drawings and as instructed by manufacturer.

D. Verify that required utilities are available, in proper location, and ready for use.

01.14 INSTALLATION

B. Field testing and inspection will be performed under the provisions of Section 280500.

C. Replace equipment, components, and wiring as required to achieve a fully functional system.

01.15 DEMONSTRATION, TRAINING, AND ACCEPTANCE

B. Demonstration, training, and acceptance shall be as described in Section 280500.

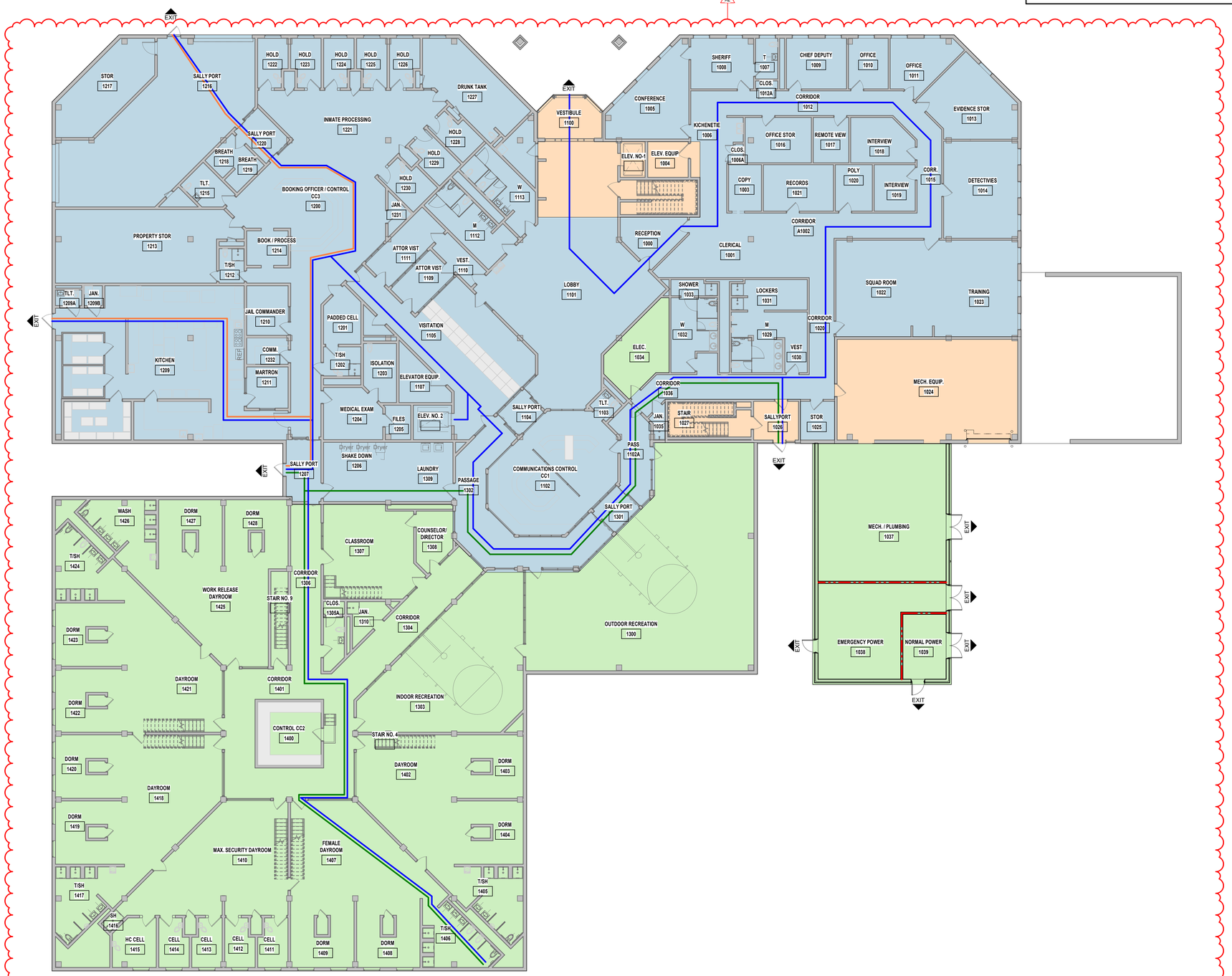
01.16 COMMISSIONING

B. Train Owner's maintenance personnel in the procedures and schedules involved in operating, programming, troubleshooting, servicing, and preventative maintenance of the system. Provide a minimum of 4 hours training.

C. Schedule training with Owner through the Architect, with at least seven days advance notice.

D. Occupancy Adjustments: When requested by the Architect within one year of date of Substantial Completion, provide on-site assistance in adjusting levels, resetting matching transformer taps, and adjusting controls to suit actual occupied conditions.

END OF SECTION 281300



6A **OVERALL FIRST FLOOR PHASING & EGRESS PLAN**
3/32" = 1'-0"

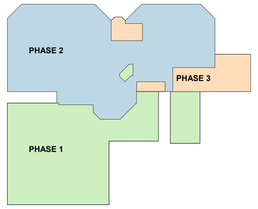
LEGEND:

EXIT EGRESS EXITS

PHASE 1 PATH OF EGRESS

PHASE 2 PATH OF EGRESS

PHASE 3 PATH OF EGRESS



PHASING:

PHASE 1: 9-10 MONTHS
- NEW CENTRAL UTILITY PLANT BUILDOUT SHALL BE COMPLETED.
- HOUSING POD SHALL BE RENOVATED
  - NOTE THAT POD SCOPE IS BROKEN INTO SUB-PHASES 1A, 1B, AND 1C. ALL WORK SHALL BE DONE SUCH THAT ONLY DAYROOMS LOCATED WITHIN THE CURRENT SUB-PHASE ARE UNNOCUPIED. ALL OTHER DAYROOMS SHALL REMAIN OCCUPIED AND OPERATIONAL.
- IT / ELEC ROOM 1034 SHALL UNDERGO RENOVATION AND REPLACEMENT OF EXISTING IT/SECURITY SYSTEMS AS DETAILED BELOW.
- DURING THIS PHASE UNIT A SHALL REMAIN OCCUPIED AND OPERATIONAL.

PHASE 2: 4-5 MONTHS
- FIRST FLOOR UNIT A SHALL BE RENOVATED.
- THE BUILDING MAIN ENTRY, STAIRWELL, AND ELEVATOR MUST REMAIN FUNCTIONAL TO ALLOW ACCESS TO THE OCCUPIED SECOND FLOOR.
- THE BACK STAIRWELL 1027 AND ASSOCIATED SALLYPORT 1026 MUST REMAIN OPERATIONAL TO ALLOW EGRESS FROM THE OCCUPIED SECOND FLOOR.
- UNIT B AND THE SECOND FLOOR OF UNIT A SHALL BE OCCUPIED AND OPERATIONAL DURING THIS PHASE.

PHASE 3: 4 MONTHS
- SECOND FLOOR UNIT A SHALL BE RENOVATED.
- RENOVATE THE FRONT MAIN ENTRY AREA AND THE REAR STAIRWELL / SALLYPORT. COORDINATE WITH OWNER TO ENSURE ACCESS AND EGRESS FOR OCCUPIED FIRST FLOOR DURING PHASE 3.
- AT END OF PHASE 3, DEMO EXISTING MEP PLANT EQUIPMENT IN MECH ROOM 1024 AND COMPLETE NEW SCOPE SHOWN FOR THIS ROOM TO BE CONVERTED INTO ADDITIONAL STORAGE.
- UNIT B AND THE FIRST FLOOR OF UNIT A SHALL BE OCCUPIED AND OPERATIONAL DURING THIS PHASE.

GENERAL PHASING NOTE:
EGRESS PATH REQUIRED TO REMAIN TO BE ACCESSIBLE DURING CONSTRUCTION AT ALL TIMES.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929
Designed By: CW
Drawn By: CW
Checked By: SP
Date: 11.21.2025

MICHAEL FRANCIS GARDNER REGISTERED No. 10700168 STATE OF INDIANA ARCHITECT

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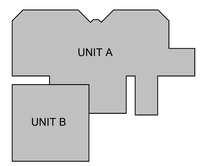

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OVERALL FIRST FLOOR PHASING PLAN

G-103

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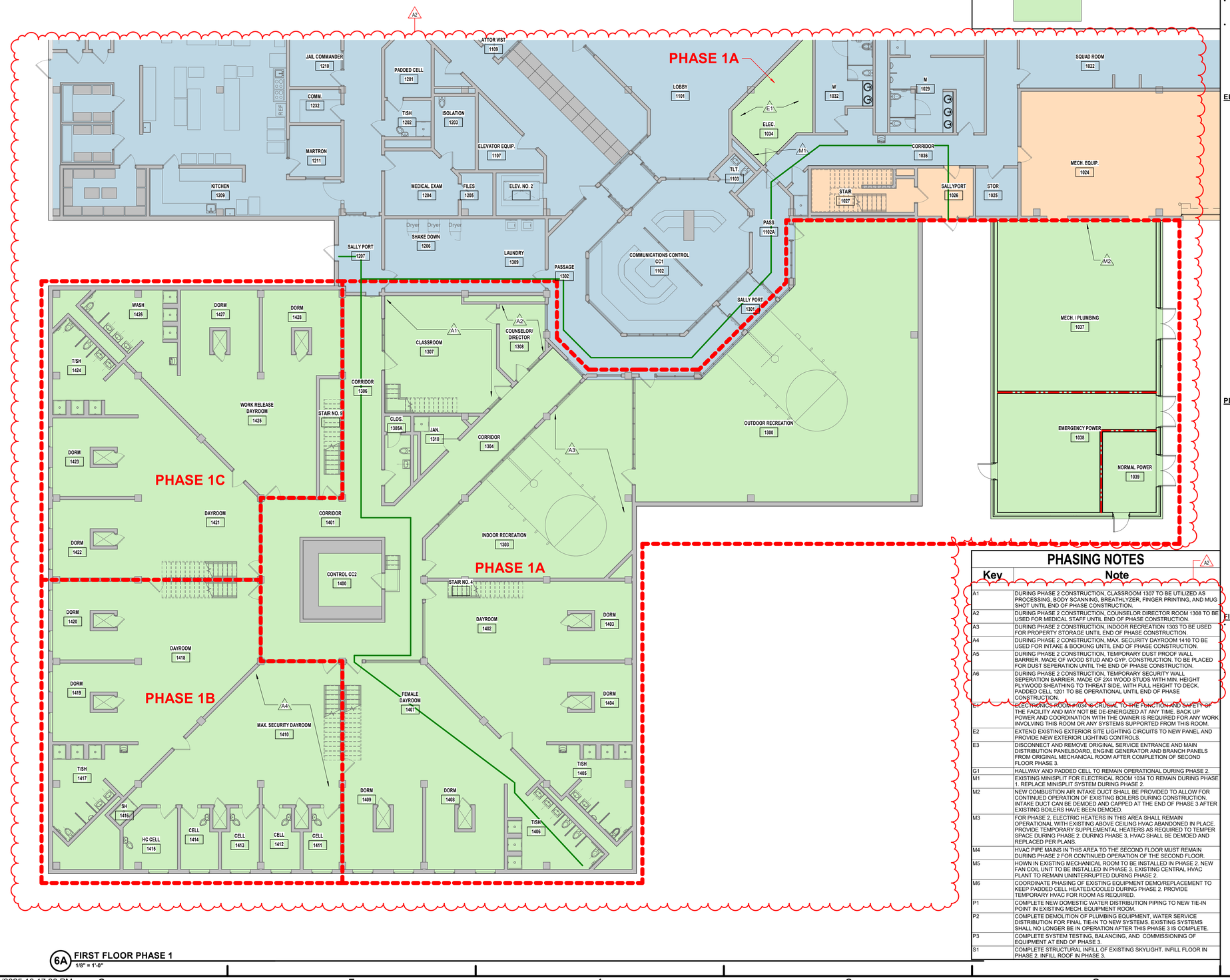
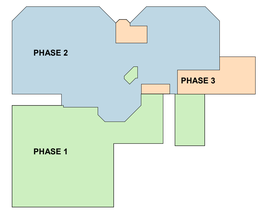


LEGEND:

PHASE SEPARATOR

TEMPORARY WALL / BARRIER

PHASE 1 PATH OF EGRESS



PHASE 1: 9-10 MONTHS

- NEW CENTRAL UTILITY PLANT BUILDOUT SHALL BE COMPLETED.
- HOUSING POD SHALL BE RENOVATED
  - NOTE THAT POD SCOPE IS BROKEN INTO SUB-PHASES 1A, 1B, AND 1C. ALL WORK SHALL BE DONE SUCH THAT ONLY DAYROOMS LOCATED WITHIN THE CURRENT SUB-PHASE ARE UNOCCUPIED. ALL OTHER DAYROOMS SHALL REMAIN OCCUPIED AND OPERATIONAL.
- IT / ELEC ROOM 1034 SHALL UNDERGO RENOVATION AND REPLACEMENT OF EXISTING IT/SECURITY SYSTEMS AS DETAILED BELOW.
- DURING THIS PHASE UNIT A SHALL REMAIN OCCUPIED AND OPERATIONAL.

STRUCTURAL REMARKS

- PROVIDE NEW STRUCTURAL STEEL SUPPORTS AND ROOF REINFORCEMENT FOR NEW ROOFTOP EQUIPMENT DURING PHASES CORRESPONDING TO THE NEW ROOFTOP EQUIPMENT INSTALLATION.

MECHANICAL REMARKS

- CENTRAL COOLING AND HEATING PLANTS SHALL BE COMPLETED AND OPERATIONAL BY THE END OF THIS PHASE.
- MAIN EQUIPMENT FOR THE NEW BUILDING AUTOMATION SYSTEM SHALL BE INSTALLED.
- NEW MINISPLITS SERVING THE NEW EMERGENCY POWER AND NORMAL POWER ROOMS SHALL BE INSTALLED AND OPERATIONAL.
- POD HVAC TO BE DEMOED AND REPLACED ONE SUB-PHASE AT A TIME (1A, 1B, 1C). THE HVAC IN ALL NON-ACTIVE SUB-PHASES AS WELL AS PHASES 2 AND 3 SHALL REMAIN OPERATIONAL DURING PHASE 1.
  - PHASE DEMOLITION OF EXISTING WSHP CONDENSER WATER PIPE MAINS TO ENSURE CONTINUED OPERATION OF OTHER AREA'S HVAC SYSTEMS. EXISTING CENTRAL BOILER / COOLING TOWER PLANT TO REMAIN OPERATIONAL.

ELECTRICAL REMARKS

- A NEW ELECTRIC UTILITY SERVICE ENTRANCE TO BE ESTABLISHED ALONG WITH A NEW NATURAL GAS ENGINE GENERATOR AND ALL NORMAL AND EMERGENCY POWER ASSOCIATED DISTRIBUTION PANELS AND AUTOMATIC TRANSFER SWITCHES TO BE ENERGIZED AND PLACED INTO SERVICE BY THE COMPLETION OF THIS PHASE.
- NEW PANEL BOARD FEEDERS FROM THE NEW MDP FOR PANELS LOCATED IN THE INTERSTITIAL SPACE TO BE INSTALLED AS WELL AS PANEL FEEDERS (PHASE 2 AND PHASE 3) AND BRANCH CIRCUIT CONDUITS FOR PHASE 2 (SOUTH END) TO BE STARTED.
- NEW LIGHTING WILL BE INSTALLED IN THE NORMAL AND EMERGENCY POWER ROOMS AS WELL AS THE NEW MECHANICAL ROOM.
- ELECTRICAL CONNECTOINS WILL BE MADE TO ALL EQUIPMENT IN THE MECHANICAL ROOM.
- A NEW FIRE ALARM PANEL WILL BE INSTALLED AND WILL BE PHASED INTO SERVICE.
- POD DEMOLITION AND ONE FOR ONE REPLACEMENT OF ALL PANELBOARDS, ELECTRICAL WIRING, DEVICES, LIGHT FIXTURES, DISCONNECTS, MOTOR STARTERS AND FIRE ALARM SYSTEM ETC. SHALL COMMENCE IN A SUB-PHASE FASHION (1A,1B AND 1C). THE ELECTRICAL AND LOW VOLTAGE SYSTEMS IN ALL NON-ACTIVE SUB-PHASES AS WELL AS PHASES 2 AND 3 SHALL REMAIN OPERATIONAL DURING PHASE 1.
- CONDUITS AND BACKBOXES TO REMAIN FOR REUSE IN THE POD.
- PHASE DEMOLITION OF EXISTING PANELBOARD FEEDERS AND BRANCH CIRCUITS TO ENSURE CONTINUED OPERATION IN OTHER AREA'S. EXISTING MAIN DISTRIBUTION PANEL AND DISTRIBUTION TO REMAIN OPERATIONAL.
- ALL LOW VOLTAGE WIRING INCLUDING LAN AND SECURITY ELECTRONICS WIRING TO REMAIN INTACT AND IN SERVICE. SECURE ANY LOOSE LOW VOLTAGE WIRING TO STRUCTURE THAT WAS LAYING ON CEILING TILES OR ATTACHED TO DEMOED EQUIPMENT.

PLUMBING REMARKS

- INSTALL NEW UNDERGROUND DOMESTIC WATER SERVICE ENTRANCE, INCLUDING ALL ASSOCIATED MAINS, SITE PIPING, AND CONNECTIONS TO THE BUILDING.
- INSTALL NEW DOMESTIC WATER EQUIPMENT, INCLUDING, BUT NOT LIMITED TO: WATER SOFTENERS, WATER HEATERS, STORAGE TANKS, PUMPS, CONTROL VALVES, BACKFLOW ASSEMBLIES, AND DISTRIBUTION COMPONENTS.
- PREPARE ALL REQUIRED TIE-INS NECESSARY TO SUPPORT TRANSFER OF BUILDING DISTRIBUTION IN PHASES 2 & 3, WITHOUT DISRUPTING OF OPERATION OF EXISTING DOMESTIC WATER DISTRIBUTION SYSTEM.
- BEGIN INSTALLATION OF NEW POD DOMESTIC WATER PIPING WITHOUT IMPACTING ACTIVE SYSTEMS AND COMPLETE INSTALLATION OF ALL NEW POD DOMESTIC WATER PIPING.
- CONDUCT PHASED CUTOVERS FROM EXISTING POD LINES TO NEW PIPING, MAINTAINING DOMESTIC WATER SERVICE TO THE 1ST FLOOR, 2ND FLOOR, AND INTERSTITIAL AREAS THROUGHOUT ALL WORK.
- COMPLETE AND ALL NEW POD WASTE STACK INSTALLATION AND CONNECTION TO NEW AND EXISTING FIXTURES. DEMOLISH EXISTING WASTE STACKS AND ASSOCIATED PIPING UPON REPLACEMENT OF NEW.
- COMPLETE ALL NEW UNDERGROUND WASTE PIPING FOR REPLACEMENT OF NEW SANITARY LINE CONNECTION TO EXISTING.

FIRE PROTECTION REMARKS

- WHILE CEILINGS ARE OPEN, THE CONTRACTOR SHALL INSPECT THE EXISTING FIRE PROTECTION SYSTEM AND REPLACE ANY DEFICIENT MAINS, BRANCHES, DRAINS, SPRINKLER HEADS, AND RELATED COMPONENTS. ALL REPAIRS AND REPLACEMENTS MUST BE COMPLETED BEFORE CEILINGS ARE CLOSED AND COORDINATED WITH NEW ABOVE CEILING TRADES. PHASE DEMOLITION, TEMPORARY SHUTDOWN AND DRAINING OF REPLACED SYSTEM PIPING OR COMPONENTS WHILE SYSTEM TO REMAIN IN OPERATION AS PER CODE.

PHASING NOTES

Key	Note
A1	DURING PHASE 2 CONSTRUCTION, CLASSROOM 1307 TO BE UTILIZED AS PROCESSING, BODY SCANNING, BREATHLYZER, FINGER PRINTING, AND MUG SHOT UNTIL END OF PHASE CONSTRUCTION.
A2	DURING PHASE 2 CONSTRUCTION, COUNSELOR DIRECTOR ROOM 1308 TO BE USED FOR MEDICAL STAFF UNTIL END OF PHASE CONSTRUCTION.
A3	DURING PHASE 2 CONSTRUCTION, INDOOR RECREATION 1303 TO BE USED FOR PROPERTY STORAGE UNTIL END OF PHASE CONSTRUCTION.
A4	DURING PHASE 2 CONSTRUCTION, MAX. SECURITY DAYROOM 1410 TO BE USED FOR INTAKE & BOOKING UNTIL END OF PHASE CONSTRUCTION.
A5	DURING PHASE 2 CONSTRUCTION, TEMPORARY DUST PROOF WALL BARRIER, MADE OF WOOD STUD AND GYP. CONSTRUCTION. TO BE PLACED FOR DUST SEPERATION UNTIL THE END OF PHASE CONSTRUCTION.
A6	DURING PHASE 2 CONSTRUCTION, TEMPORARY SECURITY WALL SEPERATION BARRIER, MADE OF 2X4 WOOD STUDS WITH MIN. HEIGHT PLYWOOD SHEATHING TO THREAT SIDE, WITH FULL HEIGHT TO DECK. PADDED CELL 1201 TO BE OPERATIONAL UNTIL END OF PHASE CONSTRUCTION.
E1	ELECTRONICS ROOM # 1034 IS CRUCIAL TO THE FUNCTION AND SAFETY OF THE FACILITY AND MAY NOT BE DE-ENERGIZED AT ANY TIME. BACK UP POWER AND COORDINATION WITH THE OWNER IS REQUIRED FOR ANY WORK INVOLVING THIS ROOM OR ANY SYSTEMS SUPPORTED FROM THIS ROOM.
E2	EXTEND EXISTING EXTERIOR SITE LIGHTING CIRCUITS TO NEW PANEL AND PROVIDE NEW EXTERIOR LIGHTING CONTROLS.
E3	DISCONNECT AND REMOVE ORIGINAL SERVICE ENTRANCE AND MAIN DISTRIBUTION PANELBOARD, ENGINE GENERATOR AND BRANCH PANELS FROM ORIGINAL MECHANICAL ROOM AFTER COMPLETION OF SECOND FLOOR PHASE 3.
G1	HALLWAY AND PADDED CELL TO REMAIN OPERATIONAL DURING PHASE 2.
M1	EXISTING MINISPLIT FOR ELECTRICAL ROOM 1034 TO REMAIN DURING PHASE 1. REPLACE MINISPLIT SYSTEM DURING PHASE 2.
M2	NEW COMBUSTION AIR INTAKE DUCT SHALL BE PROVIDED TO ALLOW FOR CONTINUED OPERATION OF EXISTING BOILERS DURING CONSTRUCTION. INTAKE DUCT CAN BE DEMOED AND CAPPED AT THE END OF PHASE 3 AFTER EXISTING BOILERS HAVE BEEN DEMOED.
M3	FOR PHASE 2, ELECTRIC HEATERS IN THIS AREA SHALL REMAIN OPERATIONAL WITH EXISTING ABOVE CEILING HVAC ABANDONED IN PLACE. PROVIDE TEMPORARY SUPPLEMENTAL HEATERS AS REQUIRED TO TEMPER SPACE DURING PHASE 2. DURING PHASE 3, HVAC SHALL BE DEMOED AND REPLACED PER PLANS.
M4	HVAC PIPE MAINS IN THIS AREA TO THE SECOND FLOOR MUST REMAIN DURING PHASE 2 FOR CONTINUED OPERATION OF THE SECOND FLOOR.
M5	HOWN IN EXISTING MECHANICAL ROOM TO BE INSTALLED IN PHASE 2. NEW FAN COIL UNIT TO BE INSTALLED IN PHASE 3. EXISTING CENTRAL HVAC PLANT TO REMAIN UNINTERRUPTED DURING PHASE 2.
M6	COORDINATE PHASING OF EXISTING EQUIPMENT DEMO/REPLACEMENT TO KEEP PADDED CELL HEATED/COOLED DURING PHASE 2. PROVIDE TEMPORARY HVAC FOR ROOM AS REQUIRED.
P1	COMPLETE NEW DOMESTIC WATER DISTRIBUTION PIPING TO NEW TIE-IN POINT IN EXISTING MECH. EQUIPMENT ROOM.
P2	COMPLETE DEMOLITION OF PLUMBING EQUIPMENT, WATER SERVICE DISTRIBUTION FOR FINAL TIE-IN TO NEW SYSTEMS. EXISTING SYSTEMS SHALL NO LONGER BE IN OPERATION AFTER THIS PHASE 3 IS COMPLETE.
P3	COMPLETE SYSTEM TESTING, BALANCING, AND COMMISSIONING OF EQUIPMENT AT END OF PHASE 3.
S1	COMPLETE STRUCTURAL INFILL OF EXISTING SKYLIGHT. INFILL FLOOR IN PHASE 2. INFILL ROOF IN PHASE 3.

6A **FIRST FLOOR PHASE 1**
1/8" = 1'-0"

12/11/2025 10:17:30 PM

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929

Designed By: Designer

Drawn By: Author

Checked By: Checker

Date: 11.21.2025

MICHAEL FRANCIS GRONER REGISTERED No. 10700168 STATE OF INDIANA ARCHITECT

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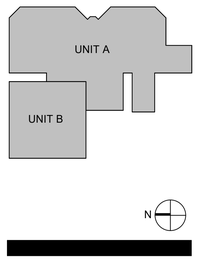
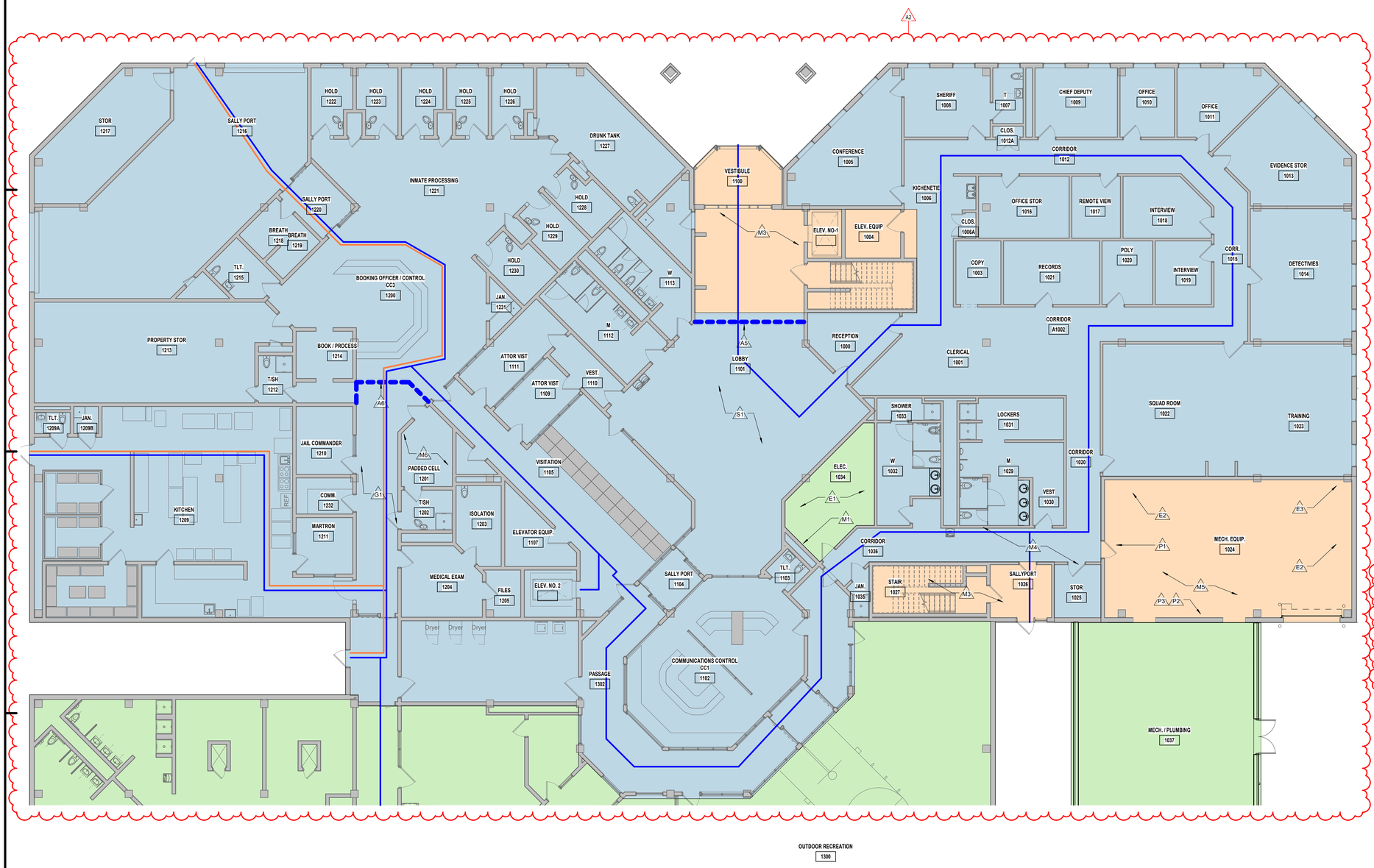


FIRST FLOOR PHASE 1

PH-101



6A **FIRST FLOOR PHASE 2 & 3**
1/8" = 1'-0"

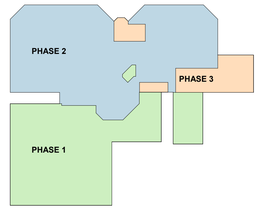
LEGEND:

PHASE SEPARATOR

TEMPORARY WALL / BARRIER

PHASE 2 PATH OF EGRESS

PHASE 3 PATH OF EGRESS



PHASE 2: 4-5 MONTHS
- FIRST FLOOR UNIT A SHALL BE RENOVATED.
- THE BUILDING MAIN ENTRY, STAIRWELL, AND ELEVATOR MUST REMAIN FUNCTIONAL TO ALLOW ACCESS TO THE OCCUPIED SECOND FLOOR.
- THE BACK STAIRWELL 1027 AND ASSOCIATED SALLYPORT 1026 MUST REMAIN OPERATIONAL TO ALLOW EGRESS FROM THE OCCUPIED SECOND FLOOR.
- UNIT B AND THE SECOND FLOOR OF UNIT A SHALL BE OCCUPIED AND OPERATIONAL DURING THIS PHASE.

PHASE 3: 4 MONTHS (FIRST FLOOR SCOPE DESCRIBED HERE)
- RENOVATE THE FRONT MAIN ENTRY AREA AND THE REAR STAIRWELL / SALLYPORT. COORDINATE WITH OWNER TO ENSURE ACCESS AND EGRESS FOR OCCUPIED FIRST FLOOR DURING PHASE 3.
- AT END OF PROJECT, DEMO EXISTING MEP PLANT EQUIPMENT IN MECH ROOM 1024 AND COMPLETE NEW SCOPE SHOWN FOR THIS ROOM TO BE CONVERTED INTO ADDITIONAL STORAGE.

STRUCTURAL REMARKS
- PROVIDE NEW STRUCTURAL STEEL SUPPORTS AND ROOF REINFORCEMENT FOR NEW ROOFTOP EQUIPMENT DURING PHASES CORRESPONDING TO THE NEW ROOFTOP EQUIPMENT INSTALLATION.

MECHANICAL REMARKS
- HVAC SYSTEMS SERVING THE FIRST FLOOR OF UNIT A TO BE DEMOED AND REPLACED WITH NEW.
  - PHASE DEMOLITION OF EXISTING WSHP CONDENSER WATER PIPE MAINS TO ENSURE CONTINUED OPERATION THE SECOND FLOOR HVAC SYSTEMS.
- EXISTING CENTRAL HVAC PLANT SHALL REMAIN OPERATIONAL DURING PHASE 2. EXISTING CENTRAL HVAC PLANT AND COOLING TOWER TO BE DEMOED AT THE END OF PHASE 3.

ELECTRICAL REMARKS
- INSTALL FEEDERS AND LOW VOLTAGE WIRING FOR LAN (INTERNET AND VOIP) FOR TEMPORAY OFFICE AND KITCHEN TRAILERS.
- EXTEND FIRST FLOOR CONDUITS AND WIRING FOR PANEL FEEDERS AND BRANCH CIRCUITS STARTED IN PHASE 1.
- EXTEND PANEL FEEDERS FOR SECOND FLOOR PHASE 3 THAT WERE STARTED IN PHASE 1.
- FIRST FLOOR DEMOLITION AND ONE FOR ONE REPLACEMENT OF ALL PANELBOARDS, ELECTRICAL WIRING, DEVICES, LIGHT FIXTURES, DISCONNECTS, MOTOR STARTERS AND FIRE ALARM SYSTEM ETC.
- ABANDON FIRST FLOOR UNDERGROUND BRANCH CIRCUIT CONDUITS AND INSTALL NEW OVERHEAD CONDUIT AND WIRING.
- EXTEND NEW FIRE ALARM SYSTEM.
- PHASE DEMOLITION OF EXISTING PANELBOARD FEEDERS AND BRANCH CIRCUITS TO ENSURE CONTINUED OPERATION IN OTHER AREA'S. EXISTING MAIN DISTRIBUTION PANEL AND DISTRIBUTION TO REMAIN OPERATIONAL.
- ALL LOW VOLTAGE WIRING INCLUDING LAN AND SECURITY ELECTRONICS WIRING TO REMAIN INTACT AND IN SERVICE. SECURE ANY LOOSE LOW VOLTAGE WIRING TO STRUCTURE THAT WAS LAYING ON CEILING TILES OR ATTACHED TO DEMOED EQUIPMENT.

PLUMBING REMARKS
- INSTALL NEW DOMESTIC WATER DISTRIBUTION SYSTEM PIPING IN THIS PHASE, INCLUDING ALL ASSOCIATED MAINS, BRANCH PIPING, AND CONNECTIONS TO PHASE 1 PIPING.
- INSTALL ALL NEW DOMESTIC WATER DISTRIBUTION SYSTEM PIPING TO CONNECT TO PHASE 3 2ND FLOOR EXISTING PLUMBING FIXTURES.
- INSTALL NEW SHUT-OFF PHASING VALVES TO PREPARE AND COMPLETE ALL REQUIRED TIE-INS NECESSARY TO SUPPORT TRANSFER OF BUILDING DISTRIBUTION IN PHASES 2 & 3, WITHOUT DISRUPTING OPERATION OF EXISTING DOMESTIC WATER DISTRIBUTION SYSTEM.
- CONDUCT PHASED CUTOVERS FROM PHASE 2 WORK, MAINTAINING DOMESTIC WATER SERVICE THROUGHOUT.
- COMPLETE DEMOLITION OF ALL NEW UNDERGROUND WASTE PIPING FOR REPLACEMENT OF NEW SANITARY LINE CONNECTION TO EXISTING. DEMOLITION OF WASTE PIPING SHALL BE PHASED TO MAINTAIN FLOW OF SANITARY SEWER IN OPERATION.
- PREPARE FINAL TIE-INS FOR PHASE 2 & 3 TO NEW DOMESTIC WATER DISTRUBUTION SYSTEM PIPING.

FIRE PROTECTION REMARKS
- WHILE CEILINGS ARE OPEN, THE CONTRACTOR SHALL INSPECT THE EXISTING FIRE PROTECTION SYSTEM AND REPLACE ANY DEFICIENT MAINS, BRANCHES, DRAINS, SPRINKLER HEADS, AND RELATED COMPONENTS. ALL REPAIRS AND REPLACEMENTS MUST BE COMPLETED BEFORE CEILINGS ARE CLOSED AND COORDINATED WITH NEW ABOVE CEILING TRADES.
- PHASE DEMOLITION, TEMPORARY SHUTDOWN AND DRAINING OF REPLACED SYSTEM PIPING OR COMPONENTS WHILE SYSTEM TO REMAIN IN OPERATION AS PER CODE.
- COMPLETE FINAL DEMOLITION OF EXISTING FIRE SPRINKLER SERVICE MAIN AFTER PHASE 3 NEW FIRE TIE-IN COMPLETION.

PHASING NOTES

Key	Note
A1	DURING PHASE 2 CONSTRUCTION, CLASSROOM 1307 TO BE UTILIZED AS PROCESSING, BODY SCANNING, BREATHLYZER, FINGER PRINTING, AND MUG SHOT UNTIL END OF PHASE CONSTRUCTION.
A2	DURING PHASE 2 CONSTRUCTION, COUNSELOR DIRECTOR ROOM 1308 TO BE USED FOR MEDICAL STAFF UNTIL END OF PHASE CONSTRUCTION.
A3	DURING PHASE 2 CONSTRUCTION, INDOOR RECREATION 1303 TO BE USED FOR PROPERTY STORAGE UNTIL END OF PHASE CONSTRUCTION.
A4	DURING PHASE 2 CONSTRUCTION, MAX. SECURITY DAYROOM 1410 TO BE USED FOR INTAKE & BOOKING UNTIL END OF PHASE CONSTRUCTION.
A5	DURING PHASE 2 CONSTRUCTION, TEMPORARY DUST PROOF WALL BARRIER. MADE OF WOOD STUD AND GYP. CONSTRUCTION. TO BE PLACED FOR DUST SEPERATION UNTIL THE END OF PHASE CONSTRUCTION.
A6	DURING PHASE 2 CONSTRUCTION, TEMPORARY SECURITY WALL SEPERATION BARRIER. MADE OF 2X4 WOOD STUDS WITH MIN. HEIGHT PLYWOOD SHEATHING TO THREAT SIDE. WITH FULL HEIGHT TO DECK. PADDED CELL 1201 TO BE OPERATIONAL UNTIL END OF PHASE CONSTRUCTION.
E1	ELECTRICAL EQUIPMENT ROOM 1034 IS IN CONTINUOUS USE BY THE FACILITY AND MAY NOT BE DE-ENERGIZED AT ANY TIME. BACK UP POWER AND COORDINATION WITH THE OWNER IS REQUIRED FOR ANY WORK INVOLVING THIS ROOM OR ANY SYSTEMS SUPPORTED FROM THIS ROOM.
E2	EXTEND EXISTING EXTERIOR SITE LIGHTING CIRCUITS TO NEW PANEL AND PROVIDE NEW EXTERIOR LIGHTING CONTROLS.
E3	DISCONNECT AND REMOVE ORIGINAL SERVICE ENTRANCE AND MAIN DISTRIBUTION PANELBOARD, ENGINE GENERATOR AND BRANCH PANELS FROM ORIGINAL MECHANICAL ROOM AFTER COMPLETION OF SECOND FLOOR PHASE 3.
G1	HALLWAY AND PADDED CELL TO REMAIN OPERATIONAL DURING PHASE 2.
M1	EXISTING MINISPLIT FOR ELECTRICAL ROOM 1034 TO REMAIN DURING PHASE 1. REPLACE MINISPLIT SYSTEM DURING PHASE 2.
M2	NEW COMBUSTION AIR INTAKE DUCT SHALL BE PROVIDED TO ALLOW FOR CONTINUED OPERATION OF EXISTING BOILERS DURING CONSTRUCTION. INTAKE DUCT CAN BE DEMOED AND CAPPED AT THE END OF PHASE 3 AFTER EXISTING BOILERS HAVE BEEN DEMOED.
M3	FOR PHASE 2, ELECTRIC HEATERS IN THIS AREA SHALL REMAIN OPERATIONAL WITH EXISTING ABOVE CEILING HVAC ABANDONED IN PLACE. PROVIDE TEMPORARY SUPPLEMENTAL HEATERS AS REQUIRED TO TEMPER SPACE DURING PHASE 2. DURING PHASE 3, HVAC SHALL BE DEMOED AND REPLACED PER PLANS.
M4	HVAC PIPE MAINS IN THIS AREA TO THE SECOND FLOOR MUST REMAIN DURING PHASE 2 FOR CONTINUED OPERATION OF THE SECOND FLOOR.
M5	HOWN IN EXISTING MECHANICAL ROOM TO BE INSTALLED IN PHASE 2. NEW FAN COIL UNIT TO BE INSTALLED IN PHASE 3. EXISTING CENTRAL HVAC PLANT TO REMAIN UNINTERRUPTED DURING PHASE 2.
M6	COORDINATE PHASING OF EXISTING EQUIPMENT DEMO/REPLACEMENT TO KEEP PADDED CELL HEATED/COOLED DURING PHASE 2. PROVIDE TEMPORARY HVAC FOR ROOM AS REQUIRED.
P1	COMPLETE NEW DOMESTIC WATER DISTRIBUTION PIPING TO NEW TIE-IN POINT IN EXISTING MECH. EQUIPMENT ROOM.
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P3	COMPLETE SYSTEM TESTING, BALANCING, AND COMMISSIONING OF EQUIPMENT AT END OF PHASE 3.
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RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929

Designed By: Designer

Drawn By: Author

Checked By: Checker

Date: 11.21.2025

MICHAEL FRANCIS GARDNER REGISTERED No. 10700168 STATE OF INDIANA ARCHITECT

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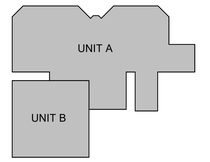

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FIRST FLOOR PHASE 2 & 3

PH-102

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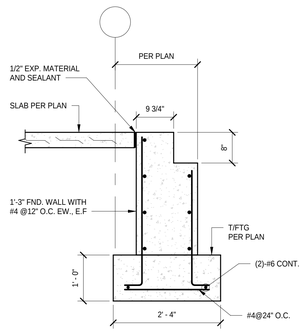
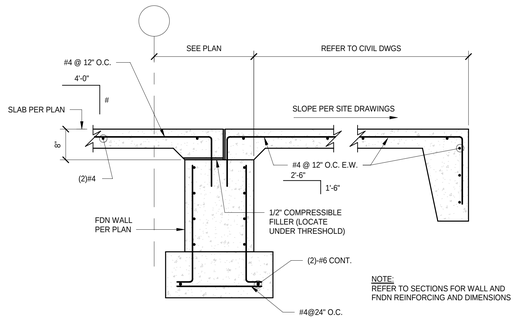


1 SECTION
S300 3/4" = 1'-0"



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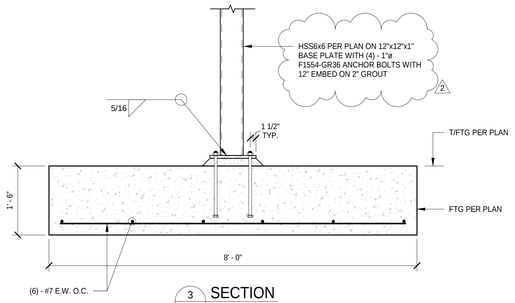

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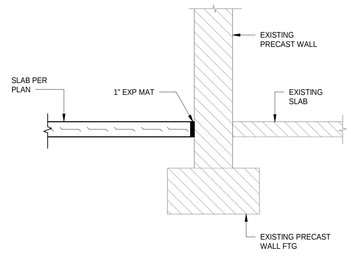

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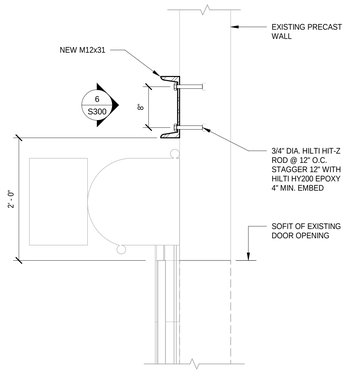

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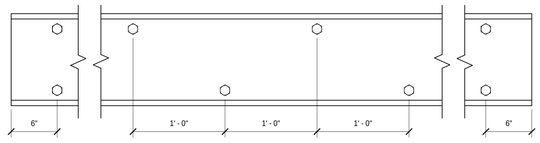

6 ELEVATION
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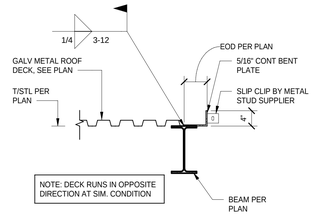

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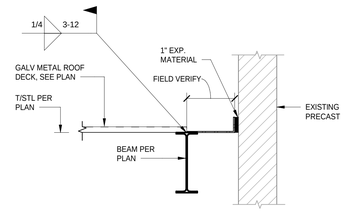

8 SECTION
S300 3/4" = 1'-0"

RQAW
DCCM
JPS CONSULTING ENGINEERS
11 MUNICIPAL DRIVE
SUITE 300, FISHERS, IN 46038
317.617.4270 jpsconsultingeneers.com

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW,
Corydon, IN 47112

#	Revision	Date
	ADDENDUM #001	12.05.2025
	ADDEMDUM #002	12.12.2025

Project #: 800-71929
Designed By: KA
Drawn By: JCB
Checked By: BAP
Date: 11.21.2025

BANGALORE A. PRAKASH REGISTERED No. PE10606070 STATE OF INDIANA PROFESSIONAL ENGINEER

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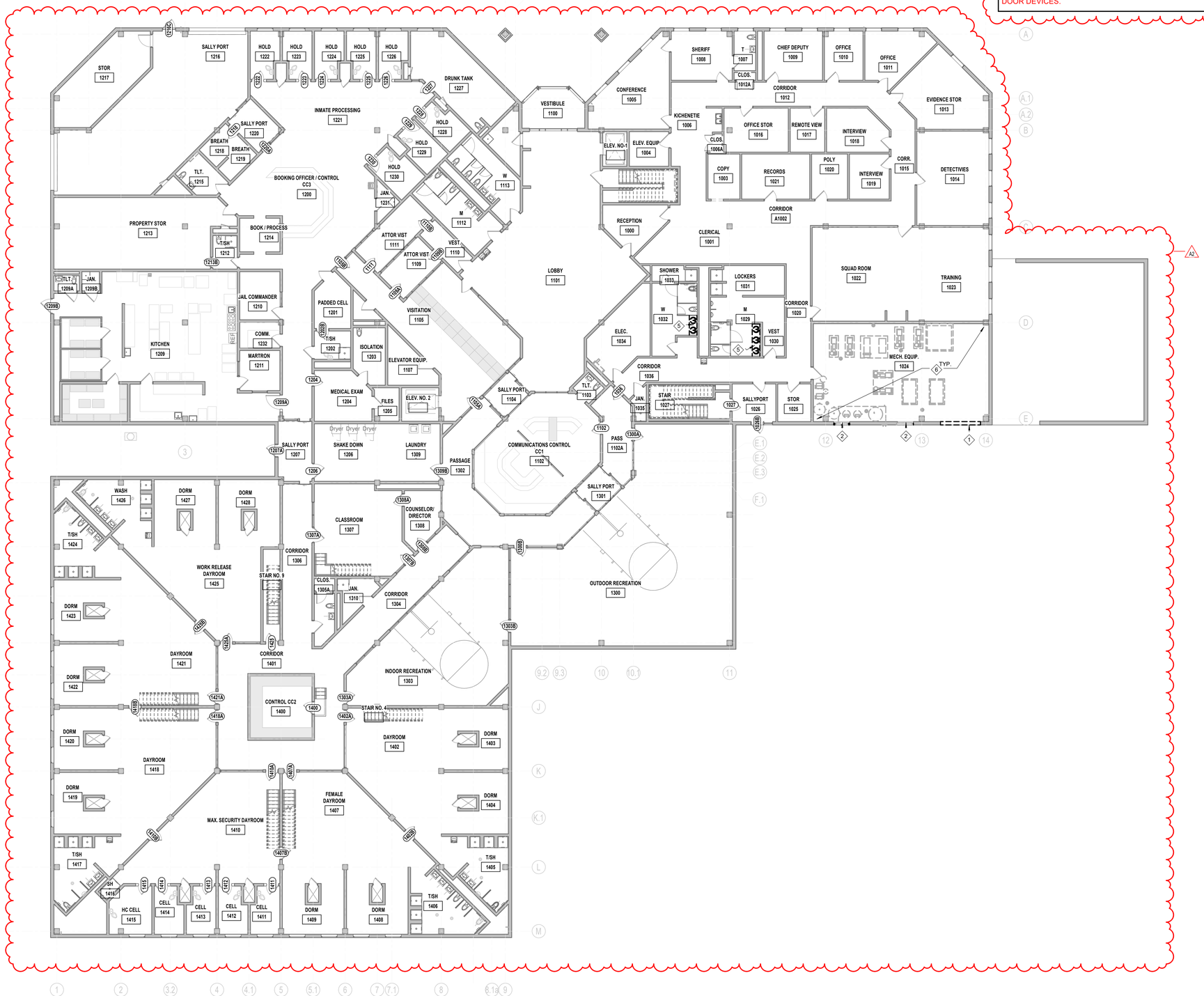
SECTION

S300



6A OVERALL FIRST FLOOR DEMOLITION PLAN

3/32" = 1'-0"

ALTERNATE SUMMARY:

ALT 2 - ALL EXISTING ADA PLUMBING FIXTURES AND GRAB BARS TO BE REPLACED WITH NEW, IN ROOMS 1405, 1406, 1415, 1417, 1424, AND 1426. REFERENCE P-SERIES DWGS.

ALT 4 - FOR EXISTING DETENTION DOOR SCOPE, REFER TO SPECIFICATION SECTION 11 19 30_SECURITY HARDWARE AND SLIDING DOOR DEVICES.

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ARRANGEMENTS.
2. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXISTING SURFACES, MATERIALS, AND COMPONENTS TO REMAIN OR BE RELOCATED. DAMAGE TO THESE RESULTING FROM PERFORMANCE OF WORK SHALL BE REPAIRED BY CONTRACTOR TO SATISFACTION OF OWNER AND ARCHITECT AT NO ADDITIONAL EXPENSE TO OWNER.
3. CONTRACTOR SHALL PROVIDE TEMPORARY DUST PROTECTION AS REQUIRED TO PREVENT CONSTRUCTION DEBRIS AND DUST FROM MIGRATING OUT OF PROJECT AREA. OWNER/ARCHITECT SHALL CONFIRM ALL DUST PREVENTION MEASURES/LOCATIONS AND SHALL DETERMINE CHANGES TO THESE MEASURES.
4. ALL EXISTING EQUIPMENT AND FIXTURES SHALL REMAIN PROPERTY OF OWNER. ALL REUSABLE ITEMS SALVAGED DURING DEMOLITION OPERATIONS SHALL BE RETAINED FOR OWNER'S INSPECTION. ONLY ITEMS SO INSPECTED AND REJECTED BY OWNER SHALL BE DISPOSED. ALL OTHER SUCH ITEMS SHALL BE TURNED OVER TO OWNER FOR DISPOSITION.
5. ALL EXISTING SURFACES LOCATED ADJACENT TO, OR EXPOSED BY DEMOLITION WORK AND SCHEDULED TO RECEIVE NEW CONSTRUCTION SHALL BE PATCHED AND REPAIRED AS REQUIRED TO MATCH ADJACENT OR RECEIVE NEW WORK.
6. ALL EXISTING SURFACES LOCATED ADJACENT TO, OR EXPOSED BY DEMOLITION WORK AND SCHEDULED TO REMAIN EXPOSED AFTER COMPLETION OF NEW CONST. SHALL BE REPAIRED AND PATCHED AS REQUIRED TO MATCH ADJACENT OR TO RECEIVE NEW FINISHES.
7. OWNER WILL BE RESPONSIBLE FOR REMOVAL/REARRANGEMENT OF ALL EXISTING LOOSE FURNISHINGS DURING CONSTRUCTION, UNLESS NOTED OTHERWISE.
8. REFER TO MECH./ELEC. DRAWINGS FOR ADDITIONAL PATCHING AND PREPARATION WORK RELATED TO M.E.P. DEMOLITION ITEMS.
9. EXISTING SLEEVES, HOLES, AND OTHER PENETRATIONS OR NEW DAMAGE OF EXISTING BUILDING STRUCTURE ABOVE GRADE EXPOSED BY DEMOLITION AND REMOVAL OF PIPING, APPURTENANCES, EQUIPMENT SHALL BE PATCHED AND REPAIRED AS PART OF THE WORK. MAINTAIN FIRE RATINGS OF ALL AND ADJACENT CONSTRUCTION AFFECTED.
10. CAP ALL PIPING TO REMAIN OR ABANDONED IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITY HAVING JURISDICTION AND IN ACCORDANCE WITH ALL LOCAL AND STATE PLUMBING AND HEALTH CODES. UTILIZE ONLY PRE-MANUFACTURED AND APPROVED FITTINGS TO CAP EXISTING PIPING.
11. EACH CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION WORK REQUIRED OR NOTED FOR INSTALLATION OF NEW WORK. DEMOLITION MAY INCLUDE ASSOCIATED DISTRIBUTION SYSTEMS, APPURTENANCES, EQUIPMENT SUPPORTING CONTROLS, AND MISCELLANEOUS SUPPORTS, UNLESS NOTED OTHERWISE.
12. COORDINATE ALL DEMOLITION WITH PROJECT SEQUENCING AS DIRECTED BY GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
13. FOR CEILING DEMOLITION, ALL CEILING ASSEMBLIES AND GRIDS TO BE REMOVED IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED IN REFLECTED CEILING DEMOLITIONS PLANS.
14. DURING DEMOLITION, PROTECT ALL EQUIPMENT AND FURNITURE THROUGHOUT CONSTRUCTION.

5.4.092 - DEMO FLOOR PLAN NOTES

Key	Note
1	REMOVE EXISTING DOOR ASSEMBLY IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED HARDWARE, ANCHORS AND BRACING, PREPARE OPENING FOR NEW CONSTRUCTION. REFERENCE ARCHITECTURAL DRAWINGS.
2	REMOVE ALL EXISTING LOUVER ASSEMBLIES IN THEIR ENTIRETY, INCLUDING ALL ASSOCIATED HARDWARE, ANCHORS AND BRACING, PREPARE OPENING FOR NEW CONSTRUCTION.
3	REMOVE EXISTING GUARDRAILS IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED ANCHORS AND BRACKETS. PREPARE FOR NEW CONSTRUCTION, REFERENCE ARCHITECTURAL AND STRUCTURAL FLOOR PLANS FOR NEW CONSTRUCTION.
4	REMOVE EXISITNG WINDOW ASSEMBLY IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED HARDWARE, ANCHORS AND BRACKING. PREPARE OPENING FOR NEW CONSTRUCTION. REFERENCE A SERIES FOR NEW CONSTRUCTION.
5	REMOVE ALL EXISTING LOCKER ROOM SINKS AND COUNTER TOPS. PREPARE FOR NEW CONSTRUCTION, REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS.
6	MECHANICAL EQUIPMENT TO BE DEMOLISHED. REFER TO M SERIES DRAWINGS.
7	DEMOLISH EXISTING TILE FLOOR, PREP AND PREPARE SUBFLOOR AS REQUIRED FOR INSTALLATION OF NEW CARPET.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929

Designed By: DESIGNER

Drawn By: AUTHOR

Checked By: CHECKER

Date: 11.21.2025

MICHAEL FRANCIS GARDNER REGISTERED No. 10700168 STATE OF INDIANA ARCHITECT

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UNIT A

UNIT B

N

OVERALL FIRST FLOOR DEMOLITION PLAN

AD-101

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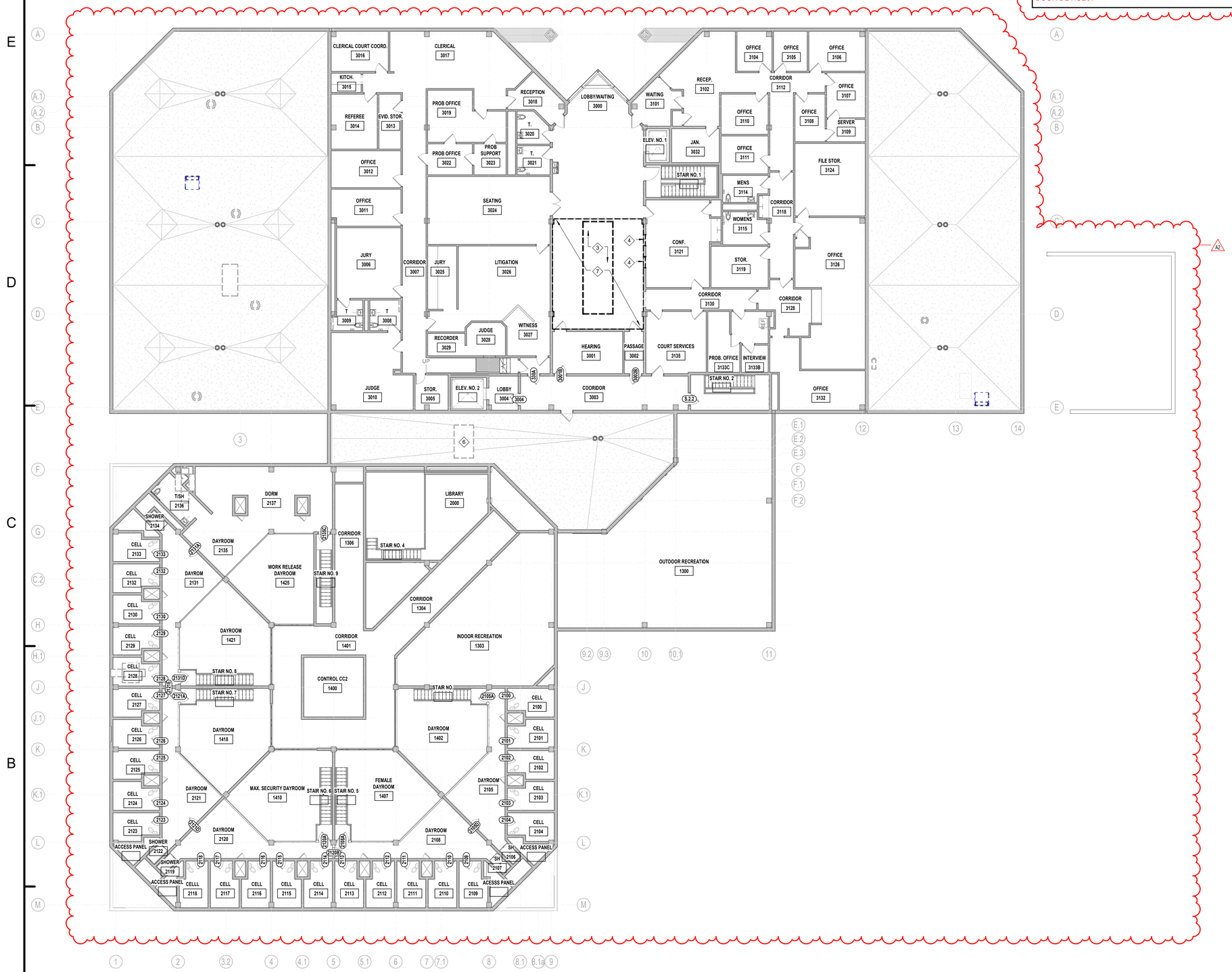

6A OVERALL SECOND FLOOR DEMOLITION PLAN

3/32" = 1'-0"

ALTERNATE SUMMARY:

ALT 2 - ALL EXISTING ADA PLUMBING FIXTURES AND GRAB BARS TO BE REPLACED WITH NEW, IN ROOMS 1405, 1406, 1415, 1417, 1424, AND 1426. REFERENCE P-SERIES DWGS.

ALT 4 - FOR EXISTING DETENTION DOOR SCOPE, REFER TO SPECIFICATION SECTION 11 19 30_SECURITY HARDWARE AND SLIDING DOOR DEVICES.

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ARRANGEMENTS.
2. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXISTING SURFACES, MATERIALS, AND COMPONENTS TO REMAIN OR BE RELOCATED. DAMAGE TO THESE RESULTING FROM PERFORMANCE OF WORK SHALL BE REPAIRED BY CONTRACTOR TO SATISFACTION OF OWNER AND ARCHITECT AT NO ADDITIONAL EXPENSE TO OWNER.
3. CONTRACTOR SHALL PROVIDE TEMPORARY DUST PROTECTION AS REQUIRED TO PREVENT CONSTRUCTION DEBRIS AND DUST FROM MIGRATING OUT OF PROJECT AREA. OWNER/ARCHITECT SHALL CONFIRM ALL DUST PREVENTION MEASURES/LOCATIONS AND SHALL DETERMINE CHANGES TO THESE MEASURES.
4. ALL EXISTING EQUIPMENT AND FIXTURES SHALL REMAIN PROPERTY OF OWNER. ALL REUSABLE ITEMS SALVAGED DURING DEMOLITION OPERATIONS SHALL BE RETAINED FOR OWNER'S INSPECTION. ONLY ITEMS SO INSPECTED AND REJECTED BY OWNER SHALL BE DISPOSED. ALL OTHER SUCH ITEMS SHALL BE TURNED OVER TO OWNER FOR DISPOSITION.
5. ALL EXISTING SURFACES LOCATED ADJACENT TO, OR EXPOSED BY DEMOLITION WORK AND SCHEDULED TO RECEIVE NEW CONSTRUCTION SHALL BE PATCHED AND REPAIRED AS REQUIRED TO MATCH ADJACENT OR RECEIVE NEW WORK.
6. ALL EXISTING SURFACES LOCATED ADJACENT TO, OR EXPOSED BY DEMOLITION WORK AND SCHEDULED TO REMAIN EXPOSED AFTER COMPLETION OF NEW CONST. SHALL BE REPAIRED AND PATCHED AS REQUIRED TO MATCH ADJACENT OR TO RECEIVE NEW FINISHES.
7. OWNER WILL BE RESPONSIBLE FOR REMOVAL/REARRANGEMENT OF ALL EXISTING LOOSE FURNISHINGS DURING CONSTRUCTION, UNLESS NOTED OTHERWISE.
8. REFER TO MECH./ELEC. DRAWINGS FOR ADDITIONAL PATCHING AND PREPARATION WORK RELATED TO M.E.P. DEMOLITION ITEMS.
9. EXISTING SLEEVES, HOLES, AND OTHER PENETRATIONS OR NEW DAMAGE OF EXISTING BUILDING STRUCTURE ABOVE GRADE EXPOSED BY DEMOLITION AND REMOVAL OF PIPING, APPURTENANCES, EQUIPMENT SHALL BE PATCHED AND REPAIRED AS PART OF THE WORK. MAINTAIN FIRE RATINGS OF ALL AND ADJACENT CONSTRUCTION AFFECTED.
10. CAP ALL PIPING TO REMAIN OR ABANDONED IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITY HAVING JURISDICTION AND IN ACCORDANCE WITH ALL LOCAL AND STATE PLUMBING AND HEALTH CODES. UTILIZE ONLY PRE-MANUFACTURED AND APPROVED FITTINGS TO CAP EXISTING PIPING.
11. EACH CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION WORK REQUIRED OR NOTED FOR INSTALLATION OF NEW WORK. DEMOLITION MAY INCLUDE ASSOCIATED DISTRIBUTION SYSTEMS, APPURTENANCES, EQUIPMENT SUPPORTING CONTROLS, AND MISCELLANEOUS SUPPORTS, UNLESS NOTED OTHERWISE.
12. COORDINATE ALL DEMOLITION WITH PROJECT SEQUENCING AS DIRECTED BY GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
13. FOR CEILING DEMOLITION, ALL CEILING ASSEMBLIES AND GRIDS TO BE REMOVED IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED IN REFLECTED CEILING DEMOLITIONS PLANS.
14. DURING DEMOLITION, PROTECT ALL EQUIPMENT AND FURNITURE THROUGHOUT CONSTRUCTION.

5.4.092 - DEMO FLOOR PLAN NOTES

Key	Note
1	REMOVE EXISTING DOOR ASSEMBLY IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED HARDWARE, ANCHORS AND BRACING, PREPARE OPENING FOR NEW CONSTRUCTION. REFERENCE ARCHITECTURAL DRAWINGS.
2	REMOVE ALL EXISTING LOUVER ASSEMBLIES IN THEIR ENTIRETY, INCLUDING ALL ASSOCIATED HARDWARE, ANCHORS AND BRACING, PREPARE OPENING FOR NEW CONSTRUCTION.
3	REMOVE EXISTING GUARDRAILS IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED ANCHORS AND BRACKETS. PREPARE FOR NEW CONSTRUCTION, REFERENCE ARCHITECTURAL AND STRUCTURAL FLOOR PLANS FOR NEW CONSTRUCTION.
4	REMOVE EXISITNG WINDOW ASSEMBLY IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED HARDWARE, ANCHORS AND BRACKING. PREPARE OPENING FOR NEW CONSTRUCTION. REFERENCE A SERIES FOR NEW CONSTRUCTION.
5	REMOVE ALL EXISTING LOCKER ROOM SINKS AND COUNTER TOPS. PREPARE FOR NEW CONSTRUCTION, REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS.
6	MECHANICAL EQUIPMENT TO BE DEMOLISHED. REFER TO M SERIES DRAWINGS.
7	DEMOLISH EXISTNG TILE FLOOR, PREP AND PREPARE SUBFLOOR AS REQUIRED FOR INSTALLATION OF NEW CARPET.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929

Designed By: Designer

Drawn By: Author

Checked By: Checker

Date: 11.21.2025

MICHAEL FRANCIS GARDNER
REGISTERED
No. 10700168
STATE OF INDIANA
ARCHITECT

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UNIT A

UNIT B

N

OVERALL SECOND FLOOR DEMOLITION PLAN

AD-102

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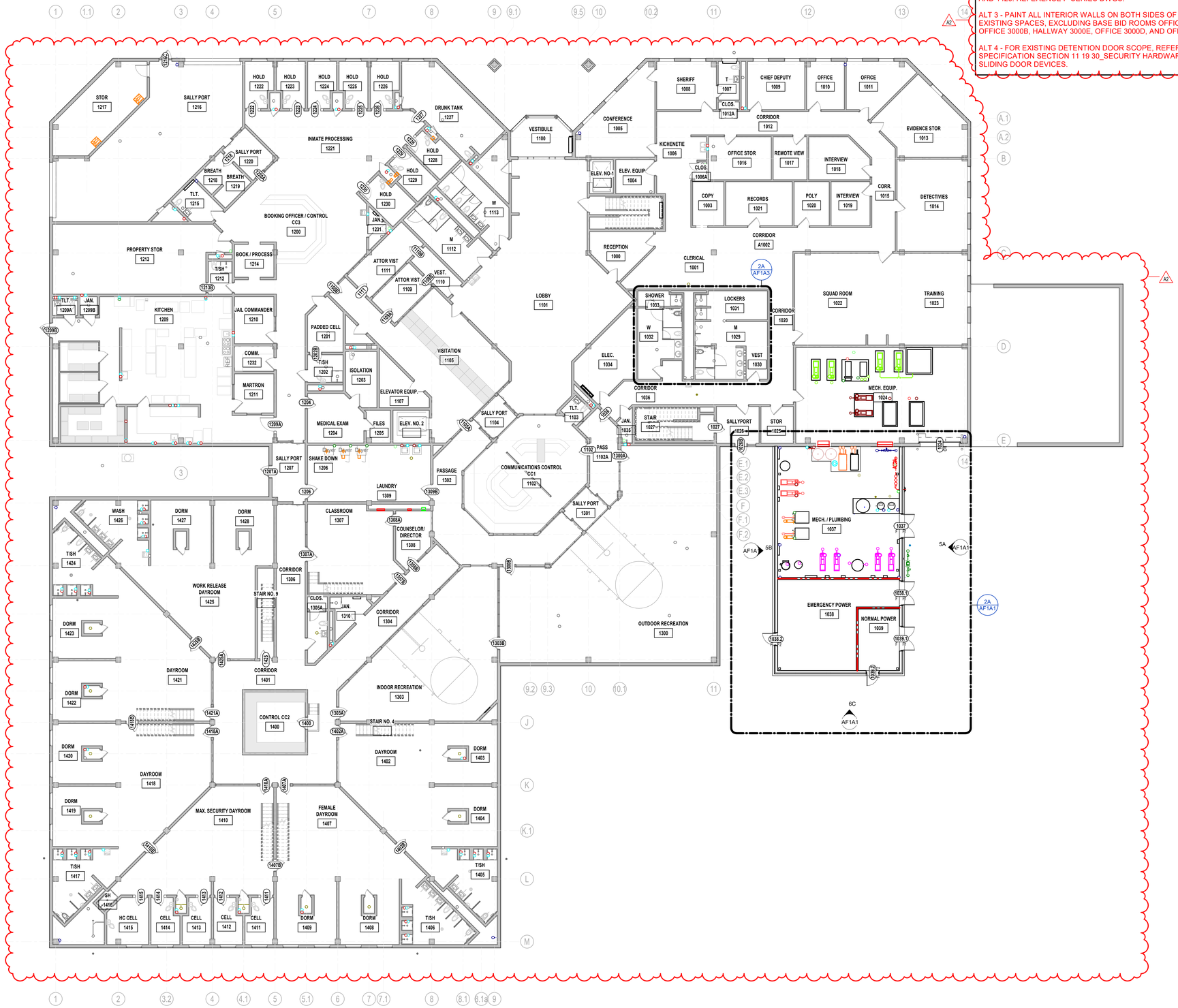

6A **OVERALL FIRST FLOOR PLAN**
3/32" = 1'-0"

ALTERNATE SUMMARY:

ALT 2 - ALL EXISTING ADA PLUMBING FIXTURES AND GRAB BARS TO BE REPLACED WITH NEW, IN ROOMS 1405, 1406, 1415, 1417, 1424, AND 1426. REFERENCE P-SERIES DWGS.

ALT 3 - PAINT ALL INTERIOR WALLS ON BOTH SIDES OF ALL EXISTING SPACES, EXCLUDING BASE BID ROOMS OFFICE 3000A, OFFICE 3000B, HALLWAY 3000E, OFFICE 3000D, AND OFFICE 3000C.

ALT 4 - FOR EXISTING DETENTION DOOR SCOPE, REFER TO SPECIFICATION SECTION 11 19 30_SECURITY HARDWARE AND SLIDING DOOR DEVICES.

GENERAL PLAN NOTES

(A) DRAWINGS ESTABLISH THE DESIGN INTENT OF WORK TO BE PERFORMED. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HIGHEST INDUSTRY STANDARDS. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL TRADES SHALL CAREFULLY COORDINATE WORK OF ALL OTHER TRADES. ANY DISCREPANCIES OR CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND THE OWNER PRIOR TO FABRICATION OR INSTALLATION.

(B) CONTRACTORS SHALL BE RESPONSIBLE FOR CHECKING THE CONTRACT DOCUMENTS FOR COORDINATION BETWEEN ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, SECURITY AND LANDSCAPING. CONTRACTORS SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS AND FOR VERIFYING THEM WITH THE CONTRACT DOCUMENTS. ANY DISCREPANCY IN THE CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT PRIOR TO ANY FABRICATION OR CONSTRUCTION.

(C) PLAN NOTES INDICATE ONE GRAPHIC REPRESENTATION TYPICAL. THE CONTRACTOR SHALL USE THE GRAPHIC REPRESENTATIONS FOR THE COUNT, NOT THE KEYED PLAN NOTES. THE ABSENCE OF A KEYED PLAN NOTE ON THE PLANS DOES NOT ABSOLVE THE CONTRACTOR FROM PROVIDING THE FEATURE GRAPHICALLY REPRESENTED ON THE DRAWING.

(D) ALL DIMENSIONS SHOWN ARE TO FACE OF STUD OR MASONRY UNLESS NOTED OTHERWISE. DIMENSIONS DESIGNATED AS "CLR OR "CLEAR" INDICATE A CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH. DIMENSIONS OF EXTERIOR WALLS ARE TO OUTSIDE EDGE OF EXTERIOR FINISH.

(E) DIMENSIONS FOR ALL OPENINGS FOR MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL ETC. SHALL BE COORDINATED WITH THE VENDORS AND SHALL BE FURNISHED AT EACH DOORWAY AND RATED WALL PENETRATION PER THE CODE COMPLIANCE PLAN AND APPLICABLE CODES

(F) PROVIDE BRACING AND BLOCKING AS REQUIRED IN WALLS SUPPORTING CASEWORK, TACKBOARDS, MARKERBOARDS, TELEVISIONS, RESTROOM ACCESSORIES, AND ANY ADDITIONAL WALL MOUNTED EQUIPMENT. COORDINATE WALL MOUNTED EQUIPMENT WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS.

(G) ALL COMMERCIAL DOOR FRAMES ARE LOCATED 4" FROM ADJACENT WALL, UNLESS NOTED OTHERWISE.

(H) ALL EXPOSED OUTSIDE CORNERS OF CMU SHALL BE BULLNOSE.

(I) SEAL ALL JOINTS BETWEEN DISSIMILAR MATERIALS.

(J) ALL GYPSUM WALLBOARD IS 5/8" TYPE "X", UNLESS NOTED OTHERWISE.

(K) ALL INTERIOR STUD WALLS ARE TYPE "SHAG" UNLESS NOTED OTHERWISE.

(L) BASE ELEVATION OF ADDITION IS 0'-0" = XXX' (UNITED STATES GEOLOGICAL SURVEY DATA). COORDINATE WITH CIVIL DRAWINGS.

(M) ALL WALLS GOING TO DECK ARE TO BE SECURED TO DECK/STRUCTURE ABOVE AS REQUIRED. PROVIDE ADDITIONAL BRACING AS REQUIRED.

(N) ALL WALLS THAT HAVE THE DESIGNATION "C" AND ARE IN A SPACE WITH NO CEILING WILL BE 10FT TALL.

(O) ALL CORRIDOR SURFACES SHALL BE FLUSH, AT JUNCTIONS OF MASONRY AND STUD WALLS. MASONRY WALL LOCATIONS SHALL HOLD TRUE AND MTL STUDS SHALL BE MOVED AS REQUIRED TO PROVIDE FLUSH CONNECTION BETWEEN CHY. BD. AND MASONRY. VERIFY NO. OF LAYERS OF GYP. BD. W/ WALL TYPES. RELOCATION OF WALL SHALL BE APPROVED BY ARCHITECT PRIOR TO CONST. AT TRANSITIONS FROM 1 LAYER GYP. BD. TO 2 LAYERS OF GYP. ON MTL STUDS A MIN. CORRIDOR WIDTH OF 5'-0" FROM FACE OF STUDS SHALL BE MAINTAINED.

(P) ALL BUILDING MATERIALS (INCLUDING BUT NOT LIMITED TO METAL FLASHING, VAPOR BARRIERS, AIR/WATER RESISTANT BARRIERS, THRU-WALL FLASHING, ETC.) SHALL BE LAPPED TO SHED WATER TO THE OUTSIDE OF THE BUILDING ENVELOPE.

(Q) SEE CODE COMPLIANCE PLAN G-101 AND G-102 FOR FIRE RATED WALLS.

(R) SEE WALL TYPE LEGEND A-002 AND A-003 FOR WALLS AND CONSTRUCTION REQUIREMENTS.

(S) SEE STRUCTURAL/ARCHITECTURAL FOR CONTROL/EXPANSION JOINT LOCATIONS.

(T) SLOPE CONCRETE SLABS TO FLOOR DRAINS AT 1/16" MIN. PER FT.

(U) ALL EXPOSED PIPES, DUCTS CONDUITS IN SECURITY AREAS SHALL BE ENCLOSED WITH SECURITY BULKHEAD/COVER/PLATES. PROVIDE TAMPER RESISTANT ANCHORS

(V) WHEREVER VOLUME DAMPERS (V.D.) ARE LOCATED ABOVE SECURITY CEILINGS, PROVIDE 2'-0"x2'-0" ACCESS PANELS IN THE CEILING. REFER TO MECHANICAL DRAWINGS FOR NUMBER AND LOCATION. COORDINATE WITH ELECTRICAL DRAWINGS. PANELS SHALL BE SECURITY TYPE TO MATCH ADJACENT CEILING.

(W) ALL CHASE WALLS SHALL BE FULL HEIGHT UNLESS NOTED OTHERWISE

(X) ALL INTERIOR AND EXTERIOR EXPOSED STEEL TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.

(Y) SUFFIXES WITHIN SPECIFICATION REFERENCES (i.e. 10 11 33.XX or 10 11 33.A) IN THE DRAWINGS CAN BE IGNORED. THESE SUFFIXES ARE A SORTING MECHANISM IN PREPARING THESE DRAWINGS.

(Z) ALL ROUGH OPENINGS R.O.) SHALL BE VERIFIED WITH SELECTED WINDOW AND DOOR MANUFACTURER. ANY CHANGES FROM THE BASIS OF DESIGN WILL BE COORDINATED WITH ALL TRADES AND ROUGH OPENINGS ADJUSTED AS REQUIRED. ANY DISCREPANCIES FOUND WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION. ANY CHANGES AND REVISIONS WILL BE AT CONTRACTORS EXPENSE.

(AA) ALL CONSTRUCTION AROUND PLUMBING FIXTURES IS REQUIRED TO BE COORDINATED WITH SELECTED MANUFACTURERS. ADJUST WALLS AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF THE SELECTED MANUFACTURERS PLUMBING FIXTURES. ANY CHANGES AND REVISIONS WILL BE DONE AT CONTRACTORS EXPENSE.

(BB) BUILDING ENVELOPE CONTINUITY WILL BE MONITORED BY A COMMISSIONING AGENT. TRANSITIONS BETWEEN BUILDING SYSTEMS (E. ROOF TO WALL, CURTAINWALL TO EXTERIOR WALL, ETC.) SHALL INCLUDE CONTINUOUS AIR/VAPOR AIR BARRIER SYSTEM. ALL PENETRATIONS IN THE BUILDING ENVELOPE (INCLUDING WINDOWS, DOORS, STOREFRONT, ETC.) SHALL BE SEALED WITH AIR TIGHT WEATHER SEALS. AT ANY LOCATION WHERE MASONRY TIES OR OTHER MATERIALS PENETRATE THE AIR BARRIER, EACH PENETRATION SHALL BE SEALED AIRTIGHT.

(CC) ALL EXPOSED FASTENERS IN DETENTION/SECURITY AREAS INCLUDING BUT NOT LIMITED TO DOOR HARDWARE, ELECTRICAL, PLUMBING, MECHANICAL ETC. ARE TO BE SECURITY TAMPER RESISTANT TYPE.

(DD) ALL EXPOSED STRUCTURE TO BE PRIMED AND PAINTED WITH HIGH PERFORMANCE PAINT.

(EE) NON-PREFINISHED INTERIOR SURFACES (MASONRY/DRYWALL/STEEL) IN DETENTION AREAS SHALL RECEIVE HIGH PERFORMANCE EPOXY COATING, AND SHOULD BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO PREFINISHED SURFACES DURING CONSTRUCTION SHALL BE REPAIRED AT CONTRACTORS EXPENSE.

(FF) NOT USED.

(GG) NOT USED.

(HH) ALL ELECTRICAL DEVICES TO BE COORDINATED WITH ALL CASEWORK LOCATION. ADJUST DEVICE LOCATIONS AS REQUIRED TO AVOID CONFLICT, ANY CONFLICT NEEDS TO BE DIRECTED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

(II) NOT USED.

(JJ) PROVIDE WATER MANAGEMENT SYSTEM AT DETENTION PLUMBING FIXTURES - SEE PLUMBING.

(KK) NOT USED.

(LL) ALL COMMERCIAL HOLLOW METAL FRAMES IN STUD WALL CONSTRUCTION TO BE WRAP AROUND WALL DEPTH. ALL COMMERCIAL HOLLOW METAL FRAMES IN CMU CONSTRUCTION TO BE 5-3/4" DEEP CENTRALLY LOCATED IN THE WALL ASSEMBLY WITH BULLNOSE CMU CORNERS. ALL SECURITY HOLLOW METAL FRAMES IN CAMU/PRECAST WALLS TO BE 7-5/8" DEEP, CENTRALLY LOCATED OR AT EXTERIOR APPLICATION 3" FROM THE EXTERIOR FACE.

(MM) PROVIDE ADDITIONAL ACCESS PANELS AT ALL LOCATIONS REQUIRED FOR MAINTENANCE. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS. PROVIDE SECURITY ACCESS PANELS IN SECURITY AREAS. SEE AF103 AND AF104 FOR SECURITY AREAS.

(NN) SECURITY SEALANT: PROVIDE SECURITY TYPE SEALANT AT ALL DISSIMILAR MATERIAL IN SECURITY AREAS. SEE AF103 AND AF104 FOR SECURITY AREAS. ALL MASONRY CONTROL JOINTS ARE TO RECEIVE FLEXIBLE SECURITY SEALANTS IN SECURITY AREAS. ALL RATED ASSEMBLIES ARE TO RECEIVE RATED SECURITY SEALANT OF THE SAME MANUFACTURER. SECURITY SEALANT TO BE TO 10' ABOVE FINISHED LEVEL WHERE INMATES WILL BE PRESENT. @ 10' AFF PROVIDE COMMERCIAL GRADE JOINT SEALANT OR FIRE RATED JOINT SYSTEM. ALL STEEL CELLS TO FLOOR JOINTS SHALL HAVE DYNAPOXY OR EQUAL SECURITY CAULKING.

(OO) PROVIDE AN 8" STEEL PIPE BOLLARD FILLED WITH CONCRETE TO 3'-6" A.F.F. BOLLARDS ARE TO BE PROVIDED AT EACH OVERHEAD DOOR LOCATION, TWO AT EACH JAMB ON BOTH EXTERIOR AND INTERIOR SIDE OF THE JAMB PAINT EACH BOLLARD SAFETY YELLOW

(PP) PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL TILE WET WALL LOCATIONS

(QQ) MASONRY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLEAN AND TOOLED JOINTS AT ALL LOCATIONS, INCLUDING BUT NOT LIMITED TO DETENTION AREAS. THE MASONRY CONTRACTOR WILL ALSO BE RESPONSIBLE FOR CLEAN AND TOOLED JOINTS AT BASE OF MASONRY AND SLAB CONDITION. ANY POCKETS OR GAPS SHALL REQUIRE SECURITY CAULKING IN DETENTION AREAS AND SHALL BE THE RESPONSIBILITY OF THE MASONRY CONTRACTOR.

(RR) CLEAN ALL WALL SURFACES PRIOR TO FINISHING AND ANY GROUT OR DEBRIS STUCK ON WALL SURFACES MUST BE REMOVED PRIOR TO APPLYING FINISHES. ANY DEBRIS AND GROUT WHICH IS LEFT AND PAINTED OVER WILL BE REQUIRED TO BE REMOVED AND REFINISHED AT CONTRACTORS EXPENSE.

(SS) ALL COMMERCIAL PLUMBING ADA FIXTURES ARE TO RECEIVE ALL REQUIRED GRAB-BARS AS OUTLINED BY ICC A117.1 (MOST CURRENT EDITION AT THE BEGINNING OF PROJECT CONSTRUCTION). INCLUDE ALL HORIZONTAL AND VERTICAL GRAB-BARS. PROVIDE BLOCKING OR MANUFACTURERS EQUIVALENT AT ALL GRAB-BAR LOCATIONS. ALL SECURITY GRAB-BARS TO RECEIVE PRE-MANUFACTURED ANTI-LIGATURE PLATE WITH WEEPS. HEIGHT OF ALL GRAB BARS SHALL BE PER ICC A117.1 (36" TO TOP OF GRIPPING SURFACE).

(TT) ALL EXPANSION JOINT COVERS THROUGH RATED WALLS/CEILING/FLOOR ASSEMBLIES SHALL MEET THE RATING REQUIREMENTS OF EACH ASSEMBLY PER THE FIRE AND LIFE SAFETY PLANS.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929

Designed By: CW

Drawn By: CW

Checked By: SP

Date: 11.21.2025

MICHAEL FRANCIS GARNESS
No. 10700168
STATE OF INDIANA
REGISTERED
ARCHITECT

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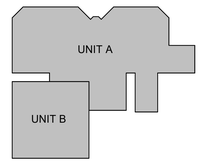

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OVERALL FIRST FLOOR PLAN

A-101

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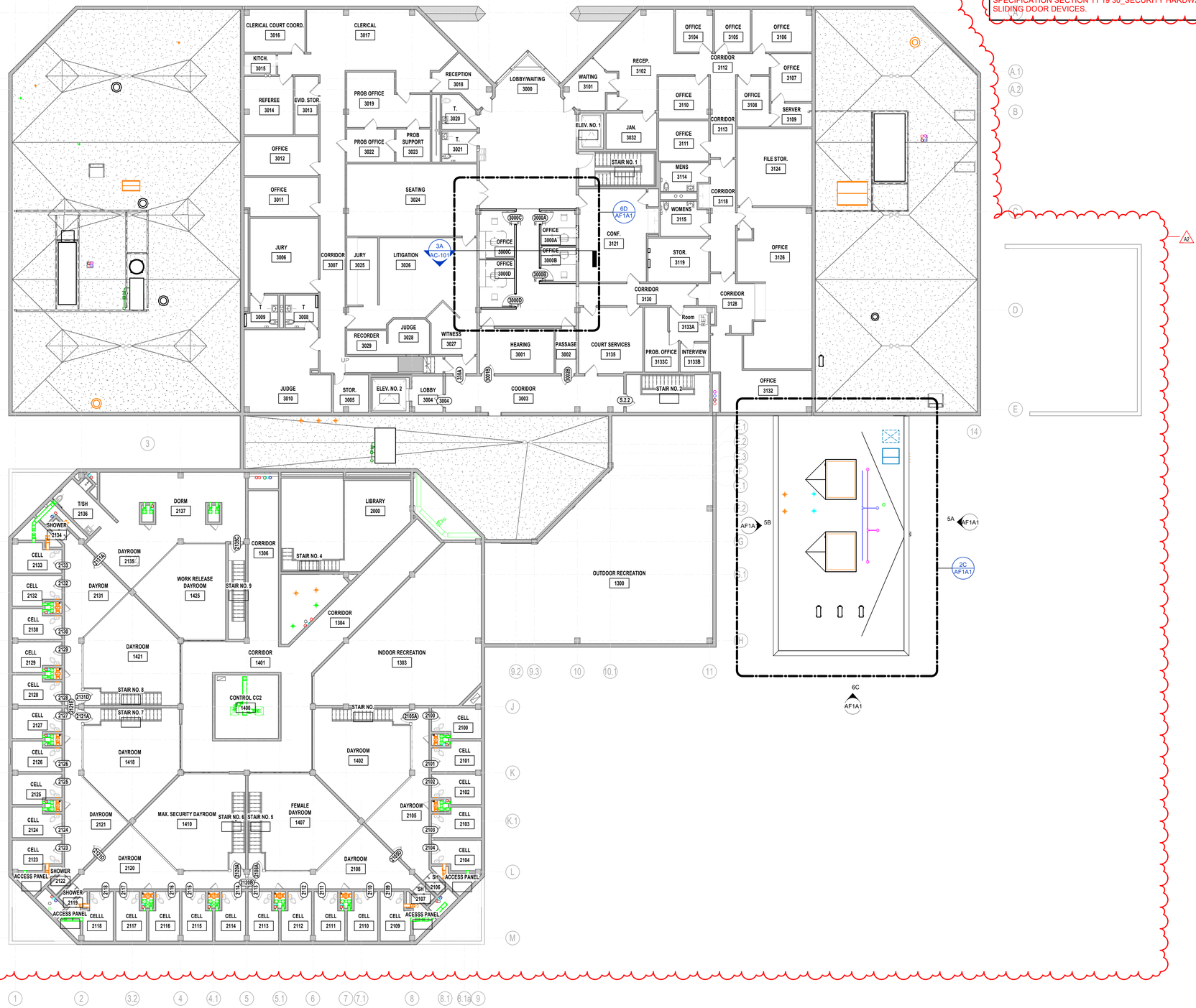

1 **OVERALL SECOND FLOOR PLAN**
3/32" = 1'-0"

ALTERNATE SUMMARY:

ALT 2 - ALL EXISTING ADA PLUMBING FIXTURES AND GRAB BARS TO BE REPLACED WITH NEW, IN ROOMS 1405, 1406, 1415, 1417, 1424, AND 1426. REFERENCE P-SERIES DWGS.

ALT 3 - PAINT ALL INTERIOR WALLS ON BOTH SIDES OF ALL EXISTING SPACES, EXCLUDING BASE BID ROOMS OFFICE 3000A, OFFICE 3000B, HALLWAY 3000E, OFFICE 3000D, AND OFFICE 3000C.

ALT 4 - FOR EXISTING DETENTION DOOR SCOPE, REFER TO SPECIFICATION SECTION 11 19 30_SECURITY HARDWARE AND SLIDING DOOR DEVICES.

GENERAL PLAN NOTES

(A.) DRAWINGS ESTABLISH THE DESIGN INTENT OF WORK TO BE PERFORMED. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HIGHEST INDUSTRY STANDARDS. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL TRADES SHALL CAREFULLY COORDINATE WORK OF ALL OTHER TRADES. ANY DISCREPANCIES OR CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND THE OWNER PRIOR TO FABRICATION OR INSTALLATION.
(B.) CONTRACTORS SHALL BE RESPONSIBLE FOR CHECKING THE CONTRACT DOCUMENTS FOR COORDINATION BETWEEN ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, SECURITY AND LANDSCAPING. CONTRACTORS SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS AND FOR VERIFYING THEM WITH THE CONTRACT DOCUMENTS. ANY DISCREPANCY IN THE CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT PRIOR TO ANY FABRICATION OR CONSTRUCTION.
(C.) PLAN NOTES INDICATE ONE GRAPHIC REPRESENTATION TYPICAL. THE CONTRACTOR SHALL USE THE GRAPHIC REPRESENTATIONS FOR THE COUNT, NOT THE KEYED PLAN NOTES. THE ABSENCE OF A KEYED PLAN NOTE ON THE PLAN DOES NOT ABSOLVE THE CONTRACTOR FROM PROVIDING THE FEATURE GRAPHICALLY REPRESENTED ON THE DRAWING.
(D.) ALL DIMENSIONS SHOWN ARE TO FACE OF STUD OR MASONRY. UNLESS NOTED OTHERWISE. DIMENSIONS DESIGNATED AS "CLR OR "CLEAR" INDICATE A CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH. DIMENSIONS OF EXTERIOR WALLS ARE TO OUTSIDE EDGE OF EXTERIOR FINISH.
(E.) DIMENSIONS FOR ALL OPENINGS FOR MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL ETC. SHALL BE COORDINATED WITH THE VENDORS AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
(F.) PROVIDE BRACING AND BLOCKING AS REQUIRED IN WALLS SUPPORTING CASEWORK, TACKBOARDS, MARKERBOARDS, TELEVISIONS, RESTROOM ACCESSORIES, AND ANY ADDITIONAL WALL MOUNTED EQUIPMENT. COORDINATE WALL MOUNTED EQUIPMENT WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS.
(G.) ALL COMMERCIAL DOOR FRAMES ARE LOCATED 4" FROM ADJACENT WALL, UNLESS NOTED OTHERWISE.
(H.) ALL EXPOSED OUTSIDE CORNERS OF CMU SHALL BE BULLNOSE.
(I.) SEAL ALL JOINTS BETWEEN DISSIMILAR MATERIALS.
(J.) ALL GYPSUM WALLBOARD IS 5/8" TYPE 'X', UNLESS NOTED OTHERWISE.
(K.) ALL INTERIOR STUD WALLS ARE TYPE "SHAT" UNLESS NOTED OTHERWISE.
(L.) BASE ELEVATION OF ADDITION IS 0'-0" = XXX' (UNITED STATES GEOLOGICAL SURVEY DATA). COORDINATE WITH CIVIL DRAWINGS.
(M.) ALL WALLS GOING TO DECK ARE TO BE SECURED TO DISCRETE STRUCTURE ABOVE AS REQUIRED. PROVIDE ADDITIONAL BRACING AS REQUIRED.
(N.) ALL WALLS THAT HAVE THE DESIGNATION "C" AND ARE IN A SPACE WITH NO CEILING WILL BE 10FT TALL.
(O.) ALL CORRIDOR SURFACES SHALL BE FLUSH. AT JUNCTIONS OF MASONRY AND STUD WALLS. MASONRY WALL LOCATIONS SHALL HOLD TRUE AND MTL STUDS SHALL BE MOVED AS REQUIRED TO PROVIDE FLUSH CONNECTION BETWEEN GYP. BD. AND MASONRY. VERIFY NO. OF LAYERS OF GYP. BD. IN WALL TYPES. RELOCATION OF WALL SHALL BE APPROVED BY ARCHITECT PRIOR TO CONST. AT TRANSITIONS FROM 1 LAYER GYP. BD. TO 2 LAYERS OF GYP. ON MTL STUDS A MIN. CORRIDOR WIDTH OF 5'-9" FROM FACE OF STUDS SHALL BE MAINTAINED.
(P.) ALL BUILDING MATERIALS (INCLUDING BUT NOT LIMITED TO METAL FLASHING, VAPOR BARRIERS, AIR/WATER RESISTANT BARRIERS, THRU-WALL FLASHING, ETC.) SHALL BE LAPPED TO SHED WATER TO THE OUTSIDE OF THE BUILDING ENVELOPE.
(Q.) SEE CODE COMPLIANCE PLAN G-101 AND G-102 FOR FIRE RATED WALLS.
(R.) SEE WALL TYPE LEGEND A-002 AND A-003 FOR WALLS AND CONSTRUCTION REQUIREMENTS.
(S.) SEE STRUCTURAL/ARCHITECTURAL FOR CONTROL/EXPANSION JOINT LOCATIONS.
(T.) SLOPE CONCRETE SLABS TO FLOOR DRAINS AT 1/16" MIN. PER FT.
(U.) ALL EXPOSED PIPES, DUCTS CONDUITS IN SECURITY AREAS SHALL BE ENCLOSED WITH SECURITY BULKHEAD/COVER/PLATES. PROVIDE TAMPER RESISTANT ANCHORS.
(V.) WHEREVER VOLUME DAMPERS (V.D.) ARE LOCATED ABOVE SECURITY CEILINGS, PROVIDE 2'-0"x2'-0" ACCESS PANELS IN THE CEILING. REFER TO MECHANICAL DRAWINGS FOR NUMBER AND LOCATION. COORDINATE WITH ELECTRICAL DRAWINGS. PANELS SHALL BE SECURITY TYPE TO MATCH ADJACENT CEILING.
(W.) ALL CHASE WALLS SHALL BE FULL HEIGHT UNLESS NOTED OTHERWISE.
(X.) ALL INTERIOR AND EXTERIOR EXPOSED STEEL TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
(Y.) SUFFIXES WITHIN SPECIFICATION REFERENCES (i.e. 10 11 33.XX or 10 11 33.A1) IN THE DRAWINGS CAN BE IGNORED. THESE SUFFIXES ARE A SORTING MECHANISM USED IN PREPARING THESE DRAWINGS.
(Z.) ALL ROUGH OPENINGS (R.O.) SHALL BE VERIFIED WITH SELECTED WINDOW AND DOOR MANUFACTURER. ANY CHANGES FROM THE BASIS OF DESIGN WILL BE COORDINATED WITH ALL TRADES AND ROUGH OPENINGS ADJUSTED AS REQUIRED. ANY DISCREPANCIES FOUND WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION. ANY CHANGES AND REVISIONS WILL BE AT CONTRACTORS EXPENSE.
(AA.) ALL CONSTRUCTION AROUND PLUMBING FIXTURES IS REQUIRED TO BE COORDINATED WITH SELECTED MANUFACTURERS. ADJUST WALLS AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF THE SELECTED MANUFACTURERS PLUMBING FIXTURES. ANY CHANGES AND REVISIONS WILL BE DONE AT CONTRACTORS EXPENSE.
(BB.) BUILDING ENVELOPE CONTINUITY WILL BE MONITORED BY A COMMISSIONING AGENT. TRANSITIONS BETWEEN BUILDING SYSTEMS (E. ROOF TO WALL, CURTAINWALL TO EXTERIOR WALL, ETC.) SHALL INCLUDE CONTINUOUS AIR/VAPOR AIR BARRIER SYSTEM. ALL PENETRATIONS IN THE BUILDING ENVELOPE (INCLUDING WINDOWS, DOORS, STOREFRONT, ETC.) SHALL BE SEALED WITH AIR TIGHT WEATHER SEALS. AT ANY LOCATION WHERE MASONRY TIES OR OTHER MATERIALS PENETRATE THE AIR BARRIER, EACH PENETRATION SHALL BE SEALED AIRTIGHT.
(CC.) ALL EXPOSED FASTENERS IN DETENTION/SECURITY AREAS (INCLUDING BUT NOT LIMITED TO DOOR HARDWARE, ELECTRICAL, PLUMBING, MECHANICAL ETC. ARE TO BE SECURITY TAMPER RESISTANT TYPE.
(DD.) ALL EXPOSED STRUCTURE TO BE PRIMED AND PAINTED WITH HIGH PERFORMANCE PAINT.
(EE.) NON-PREFINISHED INTERIOR SURFACES (MASONRY/DRYWALL/STEEL) IN DETENTION AREAS SHALL RECEIVE HIGH PERFORMANCE EPOXY COATING, AND SHOULD BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO PREFINISHED SURFACES DURING CONSTRUCTION SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
(FF.) NOT USED.
(GG.) NOT USED.
(HH.) ALL ELECTRICAL DEVICES TO BE COORDINATED WITH ALL CASEWORK LOCATION. ADJUST DEVICE LOCATIONS AS REQUIRED TO AVOID CONFLICT, ANY CONFLICT NEEDS TO BE DIRECTED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
(II.) NOT USED.
(JJ.) PROVIDE WATER MANAGEMENT SYSTEM AT DETENTION PLUMBING FIXTURES - SEE PLUMBING.
(KK.) NOT USED.
(LL.) ALL COMMERCIAL HOLLOW METAL FRAMES IN STUD WALL CONSTRUCTION TO BE WRAP AROUND WALL DEPTH. ALL COMMERCIAL HOLLOW METAL FRAMES IN CMU CONSTRUCTION TO BE 5-3/4" DEEP CENTRALLY LOCATED IN THE WALL ASSEMBLY WITH BULLNOSE CMU CORNERS. ALL SECURITY HOLLOW METAL FRAMES IN CAMUFRECAST WALLS TO BE 7-5/8" DEEP, CENTRALLY LOCATED ON AT EXTERIOR APPLICATION 7" FROM THE EXTERIOR FACE.
(MM.) PROVIDE ADDITIONAL ACCESS PANELS AT ALL LOCATIONS REQUIRED FOR MAINTENANCE. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION CONTRACTORS. PROVIDE SECURITY ACCESS PANELS IN SECURITY AREAS. SEE AF103 AND AF104 FOR SECURITY AREAS.
(NN.) SECURITY SEALANT: PROVIDE SECURITY TYPE SEALANT AT ALL DISSIMILAR MATERIAL IN SECURITY AREAS. SEE AF103 AND AF104 FOR SECURITY AREAS. ALL MASONRY CONTROL JOINTS ARE TO RECEIVE FLEXIBLE SECURITY SEALANTS IN SECURITY AREAS. ALL RATED ASSEMBLIES ARE TO RECEIVE RATED SECURITY SEALANT OF THE SAME MANUFACTURER. SECURITY SEALANT TO BE TO 10' ABOVE FINISHED LEVEL WHERE INMATES WILL BE PRESENT. @ 10' AFF PROVIDE COMMERCIAL GRADE JOINT SEALANT OR FIRE RATED JOINT SYSTEM. ALL STEEL CELLS TO FLOOR JOINTS SHALL HAVE DYNAPOXY OR EQUAL SECURITY CAULKING.
(OO.) PROVIDE ANY STEEL PIPE BOLLARD FILLED WITH CONCRETE TO 3'-6" A.F.F. BOLLARDS ARETO BE PROVIDED AT EACH OVERHEAD DOOR LOCATION, TWO AT EACH JAMB ON BOTH EXTERIOR AND INTERIOR SIDE OF THE JAMB. PAINT EACH BOLLARD SAFETY YELLOW
(PP.) PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL TILE WET WALL LOCATIONS
(QQ.) MASONRY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLEAN AND TOOLED JOINTS AT ALL LOCATIONS, INCLUDING BUT NOT LIMITED TO DETENTION AREAS. THE MASONRY CONTRACTOR WILL ALSO BE RESPONSIBLE FOR CLEAN AND TOOLED JOINTS AT BASE OF MASONRY AND SLAB CONDITION. ANY POCKETS OR GAPS SHALL REQUIRE SECURITY CAULKING IN DETENTION AREAS AND SHALL BE THE RESPONSIBILITY OF THE MASONRY CONTRACTOR.
(RR.) CLEAN ALL WALL SURFACES PRIOR TO FINISHING AND ANY GROUT OR DEBRIS STUCK ON WALL SURFACES MUST BE REMOVED PRIOR TO APPLYING FINISHES. ANY DEBRIS AND GROUT WHICH IS LEFT AND PAINTED OVER WILL BE REQUIRED TO BE REMOVED AND REFINISHED AT CONTRACTORS EXPENSE.
(SS.) ALL COMMERCIAL PLUMBING ADA FIXTURES ARE TO RECEIVE ALL REQUIRED GRAB BARS AS OUTLINED BY ICC A117.1 (MOST CURRENT EDITION AT THE BEGINNING OF PROJECT CONSTRUCTION). INCLUDE ALL HORIZONTAL AND VERTICAL GRAB BARS. PROVIDE BLOCKING OR MANUFACTURERS EQUIVALENT AT ALL GRAB BAR LOCATIONS. ALL SECURITY GRAB-BARS TO RECEIVE PRE- MANUFACTURED ANTI-LIGATURE PLATE WITH WEEPS. HEIGHT OF ALL GRAB BARS SHALL BE PER ICC A117.1 (36" TO TOP OF GRIPPING SURFACE).
(TT.) ALL EXPANSION JOINT COVERS THROUGH RATED WALLS/CEILING/FLOOR ASSEMBLIES SHALL MEET THE RATING REQUIREMENTS OF EACH ASSEMBLY PER THE FIRE AND LIFE SAFETY PLANS.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929
Designed By: Designer
Drawn By: Author
Checked By: Checker
Date: 11.21.2025

MICHAEL FRANCIS GARINGER REGISTERED No. 10700168 STATE OF INDIANA ARCHITECT

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UNIT A
UNIT B

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OVERALL SECOND FLOOR PLAN

A-102

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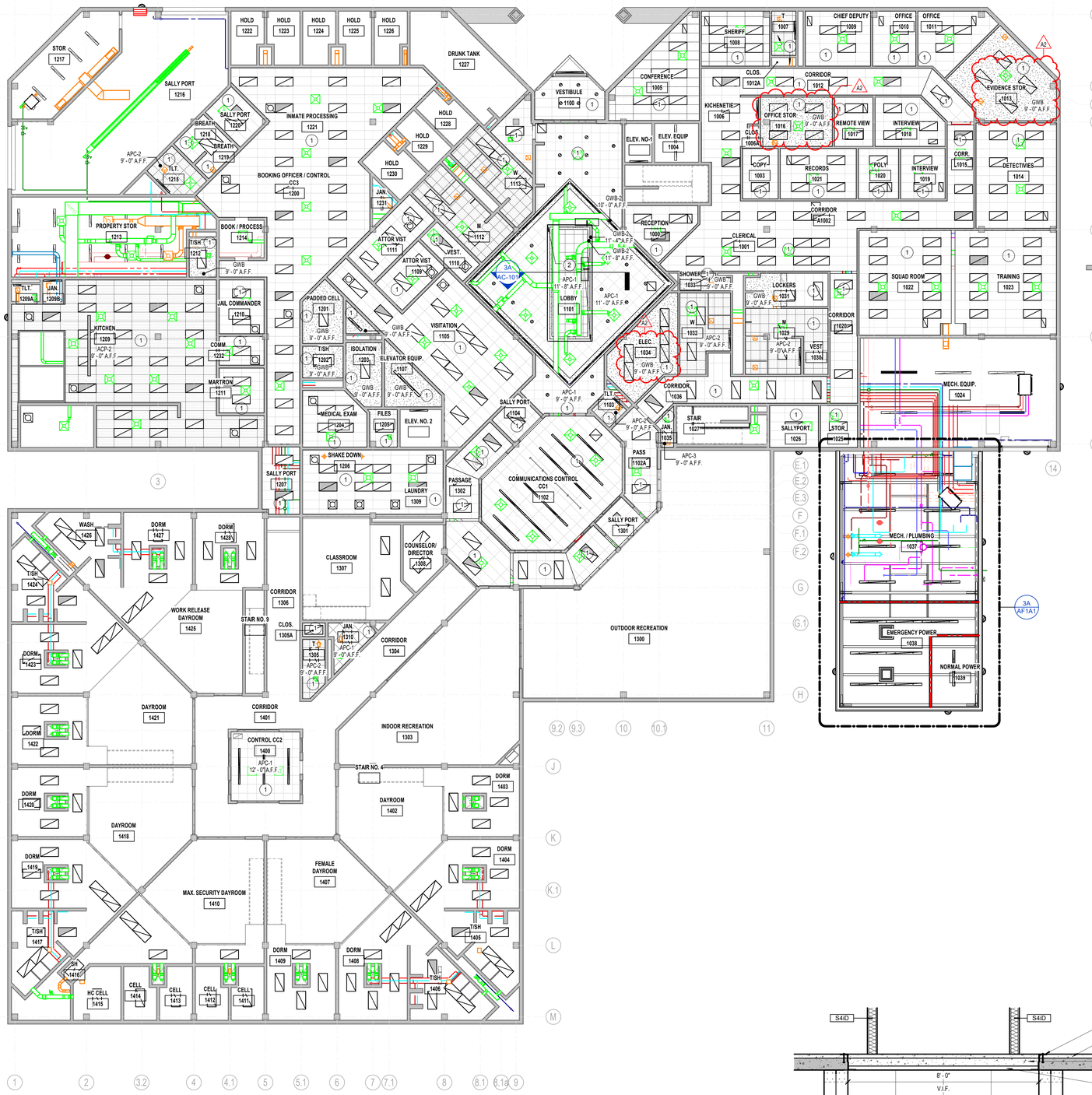
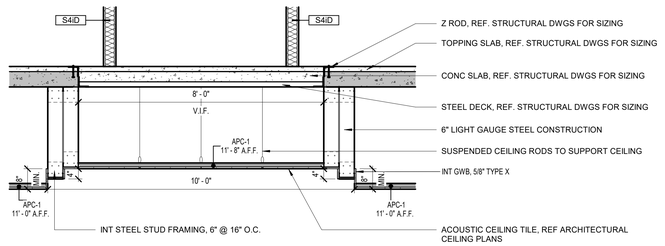


6A FIRST FLOOR REFLECTED CEILING PLAN
3/32" = 1'-0"



3A SKYLIGHT INFILL CEILING SECTION DETAIL
1/2" = 1'-0"

REFL. CEILING PLAN NOTES

1. ALL GRIDS ARE CENTERED IN ROOMS, UNLESS NOTED OTHERWISE.
2. COORDINATE BULKHEAD SIZES W/ MECHANICAL DUCTWORK.
3. REFER TO MEP DRAWINGS FOR CEILING FIXTURES/EQUIPMENT AND COORDINATE W/ ALL TRADES.
4. ALL EXPOSED DUCTWORK, PIPING ETC. SHALL BE PAINTED. COLOR SELECTED BY ARCHITECT.
5. LOCATE SPRINKLER HEADS IN CENTER OF CEILING PANEL - WHERE APPLICABLE.
6. ALL CEILINGS ARE AT 9'-0" AFF. UNLESS NOTED OTHERWISE.
7. ALL BULKHEADS ARE AT 8'-10" AFF. UNLESS NOTED OTHERWISE.
8. ALL NEW GRID SHALL BE APC-1 UNLESS NOTED OTHERWISE.
9. ALL RETENTION CLIPS ARE TO BE SPRINGLOADED CLIPS
10. ALL COMMERCIAL CEILINGS & GRIDS TO BE REPLACED WITH APC-3 TYPICAL, UNLESS OTHERWISE NOTED. NEW CEILING ASSEMBLIES MATCHING THE EXISTING CEILING HEIGHTS, UNLESS OTHERWISE NOTED.
11. ALL RESTROOMS, TOILET ROOMS, SHOWERS, LOCKER ROOMS, AND KTICHEN CEILINGS & GRIDS TO BE REPLACED WITH APC-2 TYPICAL, UNLESS OTHERWISE NOTED. NEW CEILING ASSEMBLIES MATCHING THE EXISTING CEILING HEIGHTS UNLESS OTHERWISE NOTED.
12. HOLD DOWN CLIPS USED IN ALL DETENTION CEILING LOCATIONS.

5.4.120 - CEILING PLAN NOTES

Key	Note
1	REPLACE ALL EXISTING CEILING ASSEMBLIES, GRIDS, AND BULKHEADS WITH NEW, TO MATCH EXISTING CEILING CONFIGURATION. FULL EXTENTS OF NEW CEILING ASSEMBLIES BASED ON DISCRETION OF CONTRACTOR, INCLUDING ALL WORK DONE ABOVE CEILING. REFERENCE S-SERIES AND M-SERIES DRAWINGS. COORDINATE WITH LIGHTING AS NEEDED.
2	NEW CONSTRUCTION 2X2 ACT CEILINGS, GRIDS, AND BULKHEADS TO BE PLACED FLUSH TO ADJACENT CEILINGS, FOR SKYLIGHT INFILL SCOPE. REFER TO M SERIES, S SERIES, AND LIGHTING DRAWINGS FOR COORDINATION.

REFLECTED CEILING PLAN LEGEND

APC-1	2' X 2' ACOUSTICAL PANEL CEILING		LIGHT FIXTURE (REFERENCE E-SERIES DWGS)
APC-2	2' X 2' WASHABLE ACOUSTICAL PANEL CEILING		RETURN AIR (REFERENCE M-SERIES DWGS)
APC-3	2' X 4' ACOUSTICAL PANEL CEILING	GWB	GYPSUM WALL BOARD, 5/8" ON 3 5/8" METAL STUD (09 29 00)
Walls to Deck			SUPPLY AIR (REFERENCE M-SERIES DWGS)

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929
Designed By: CPW
Drawn By: CPW
Checked By: SP
Date: 11.21.2025

MICHAEL FRANCIS GARDNER REGISTERED No. 10700168 STATE OF INDIANA ARCHITECT

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UNIT A
UNIT B

N

FIRST FLOOR REFLECTED CEILING PLAN

AC-101

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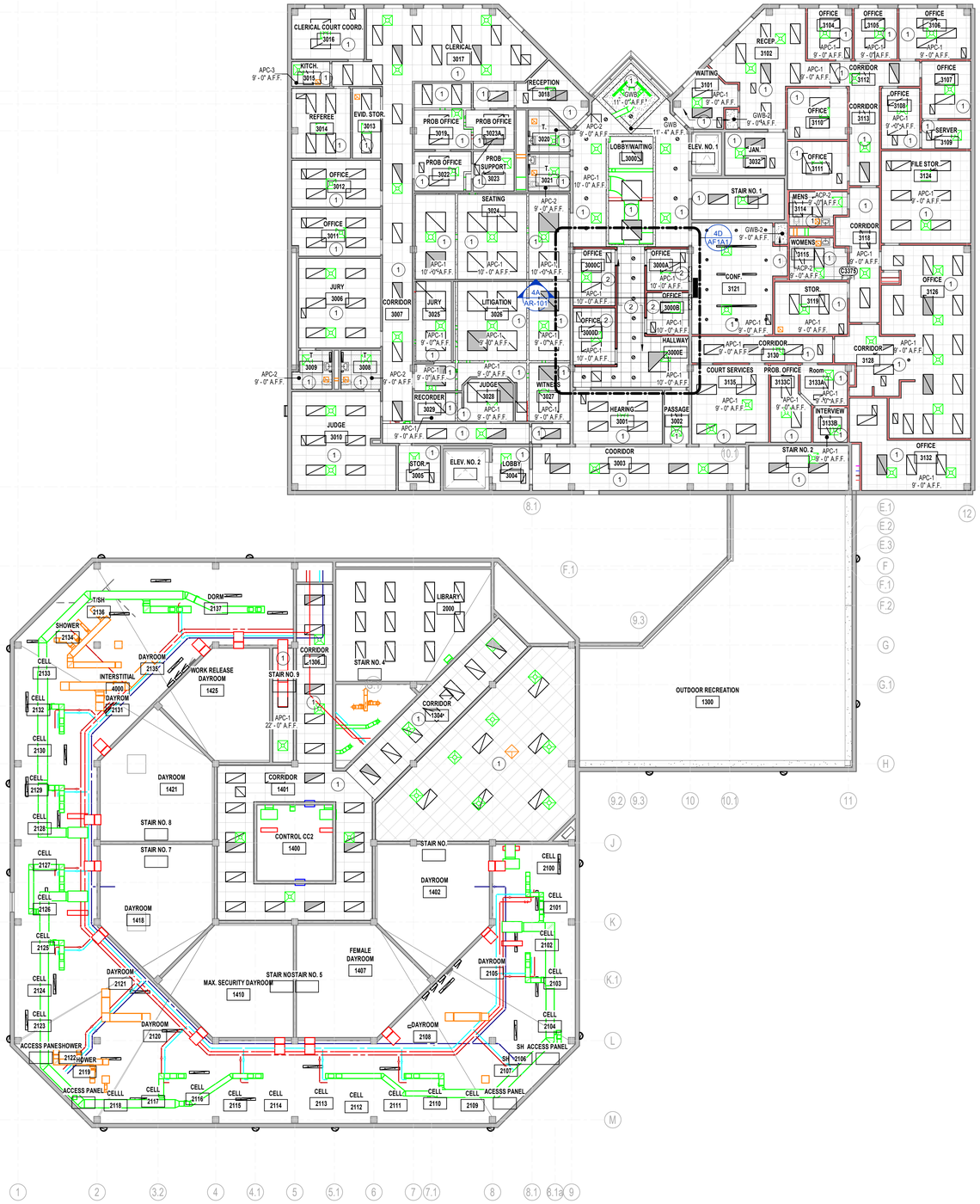

1 SECOND FLOOR REFLECTED CEILING PLAN
3/32" = 1'-0"

REFL. CEILING PLAN NOTES

1. ALL GRIDS ARE CENTERED IN ROOMS, UNLESS NOTED OTHERWISE.
2. COORDINATE BULKHEAD SIZES W/ MECHANICAL DUCTWORK.
3. REFER TO MEP DRAWINGS FOR CEILING FIXTURES/EQUIPMENT AND COORDINATE W/ ALL TRADES.
4. ALL EXPOSED DUCTWORK, PIPING ETC. SHALL BE PAINTED. COLOR SELECTED BY ARCHITECT.
5. LOCATE SPRINKLER HEADS IN CENTER OF CEILING PANEL - WHERE APPLICABLE.
6. ALL CEILINGS ARE AT 0'-0" AFF, UNLESS NOTED OTHERWISE.
7. ALL BULKHEADS ARE AT 8'-10" AFF, UNLESS NOTED OTHERWISE.
8. ALL NEW GRID SHALL BE APC-1 UNLESS NOTED OTHERWISE.
9. ALL RETENTION CLIPS ARE TO BE SPRINGLOADED CLIPS
10. ALL COMMERCIAL CEILINGS & GRIDS TO BE REPLACED WITH APC-3 TYPICAL, UNLESS OTHERWISE NOTED. NEW CEILING ASSEMBLIES MATCHING THE EXISTING CEILING HEIGHTS, UNLESS OTHERWISE NOTED.
11. ALL RESTROOMS, TOILET ROOMS, SHOWERS, LOCKER ROOMS, AND KTICHEN CEILINGS & GRIDS TO BE REPLACED WITH APC-2 TYPICAL, UNLESS OTHERWISE NOTED. NEW CEILING ASSEMBLIES MATCHING THE EXISTING CEILING HEIGHTS UNLESS OTHERWISE NOTED.
12. HOLD DOWN CLIPS USED IN ALL DETENTION CEILING LOCATIONS.

5.4.120 - CEILING PLAN NOTES

Key	Note
1	REPLACE ALL EXISTING CEILING ASSEMBLIES, GRIDS, AND BULKHEADS WITH NEW, TO MATCH EXISTING CEILING CONFIGURATION. FULL EXTENTS OF NEW CEILING ASSEMBLIES BASED ON DISCRETION OF CONTRACTOR, INCLUDING ALL WORK DONE ABOVE CEILING. REFERENCE S-SERIES AND M-SERIES DRAWINGS. COORDINATE WITH LIGHTING AS NEEDED.
2	NEW CONSTRUCTION 2X2 ACT CEILINGS, GRIDS, AND BULKHEADS TO BE PLACED FLUSH TO ADJACENT CEILINGS, FOR SKYLIGHT INFILL SCOPE. REFER TO M SERIES, S SERIES, AND LIGHTING DRAWINGS FOR COORDINATION.

REFLECTED CEILING PLAN LEGEND

APC-1	2' X 2' ACOUSTICAL PANEL CEILING		LIGHT FIXTURE (REFERENCE E-SERIES DWGS)
APC-2	2' X 2' WASHABLE ACOUSTICAL PANEL CEILING		RETURN AIR (REFERENCE M-SERIES DWGS)
APC-3	2' X 4' ACOUSTICAL PANEL CEILING	GWB	GYPSUM WALL BOARD, 5/8" ON 3 5/8" METAL STUD (09 29 00)
Walls to Deck			SUPPLY AIR (REFERENCE M-SERIES DWGS)

RQAW

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MICHAEL FRANCIS GARNESS
No. 10700168
STATE OF INDIANA
REGISTERED
ARCHITECT

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UNIT A
UNIT B

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SECOND FLOOR REFLECTED CEILING PLAN

AC-102

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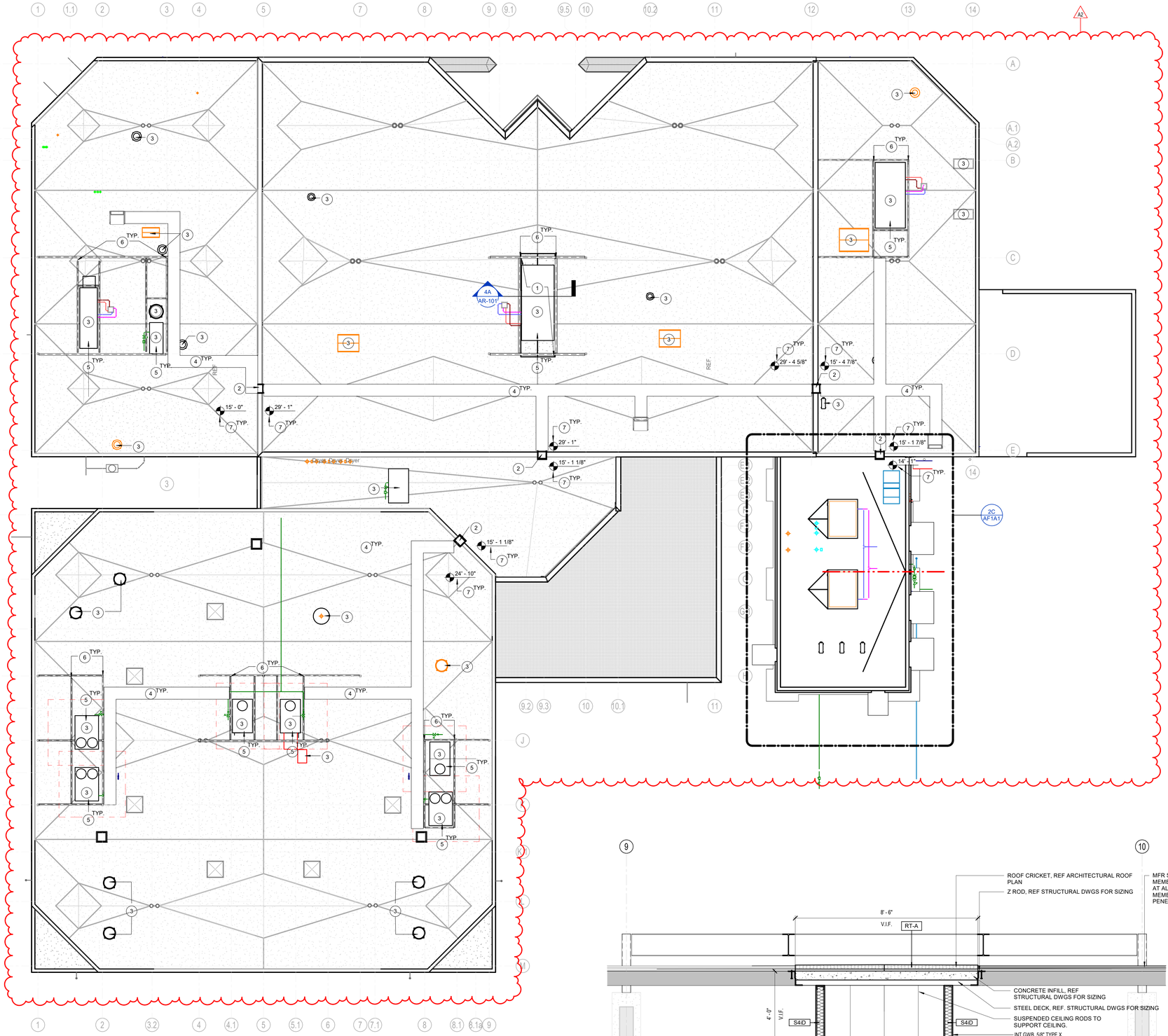
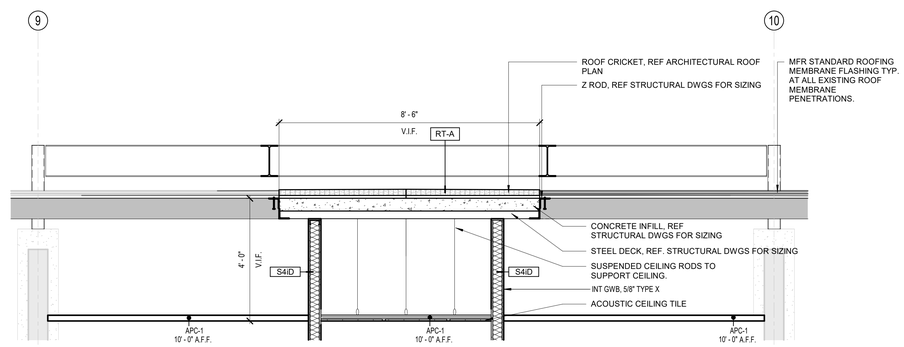


6A **ROOF PLAN**
3/32" = 1'-0"



4A **ROOF SKYLIGHT SECTION**
1/2" = 1'-0"

GENERAL ROOF PLAN NOTES

1. TAPERED INSULATION SHALL BE INSTALLED TO ACHIEVE POSITIVE DRAINAGE WITH A MINIMUM RESULTANT SLOPE OF 1/4" PER FOOR, UNLESS INDICATED OTHERWISE.
2. LOW SLOPE ROOF AREAS SHALL HAVE A MINIMUM OF 4" RIGID INSULATION OVER ROOF DECK. SADDLES, CRICKETS, AND SLOPE PORTIONS OF FLAT ROOF DECK SHALL BE FORMED BY TAPERED INSULATION. AREAS WHERE TAPERED INSULATION IS ANTICIPATED HAVE BEEN INDICATED, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE SLOPED SURFACES TO ACHIEVE PROPER DRAINAGE.
3. ROOF PENETRATIONS AND EQUIPMENT SHOWN SHALL NOT BE CONSIDERED ALL INCLUSIVE. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL DOCUMENTS TO CONFIRM PENETRATIONS AND EQUIPMENT LOCATIONS. FLASH ALL ROOF PENETRATIONS IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDATIONS. PROVIDE CRICKETS TO ALLOW FOR PROPER DRAINAGE AROUND UNITS.
4. ROOF WALKWAY PADS OR BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDATION WHERE INDICATED AND AROUND ENTIRE PERIMETER OF ROOFTOP EQUIPMENT.
5. ALL ROOF SYSTEMS ARE "ROOF TYPE A" EXCEPT WHERE NOTED OTHERWISE.

5.4.140 - ROOF PLAN NOTES

Key	Note
1	NEW ROOF CRICKETS TO INFILL EXISTING SKYLIGHT, MAINTAIN POSTIVE ROOF DRAINAGE AND PROPERLY SEAL AROUND INFILL.
2	ROOF ACCESS LADDER(S), MANUFACTURER TO VERIFY PARAPET HEIGHT IN FIELD, PRIOR TO FABRICATION. REF DETAIL SC / A-601.
3	NEW MEP EQUIPMENT, REFER TO S-SERIES AND M-SERIES DRAWINGS FOR EXACT EXTENT AND LOCATIONS.
4	RUBBER MEMBRANE APPROVED ROOF WALK PADS TO ALL MECHANICAL EQUIPMENT SHOWN ON ROOF.
5	PROVIDE ROOF CRICKETS FOR ALL NEW ROOF CURBS ASSOCIATED WITH MECH EQUIPMENT, DUCTWORK PENETRATIONS, AND PIPING PENETRATIONS.
6	MFR STANDARD ROOFING MEMBRANE FLASHING TYP. AT ALL EXISTING ROOF MEMBRANE PENETRATIONS.
7	VERIFY ROOF ELEVATION IN FIELD PRIOR TO FABRICATION.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

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UNIT A
UNIT B

N

ARCHITECTURAL ROOF PLAN

AR-101

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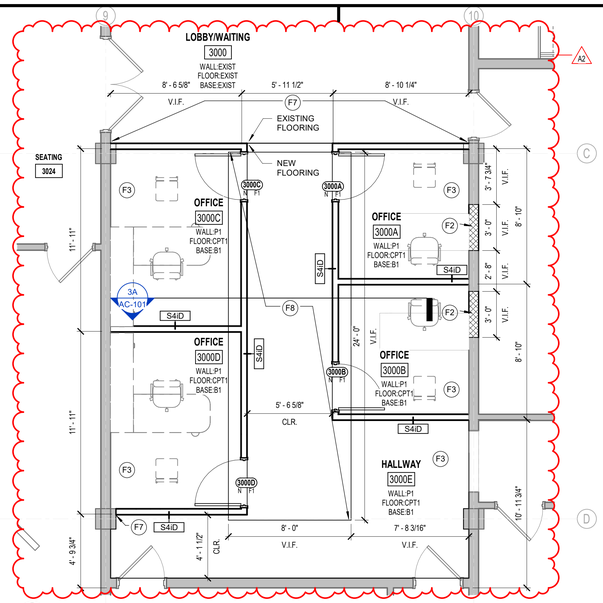
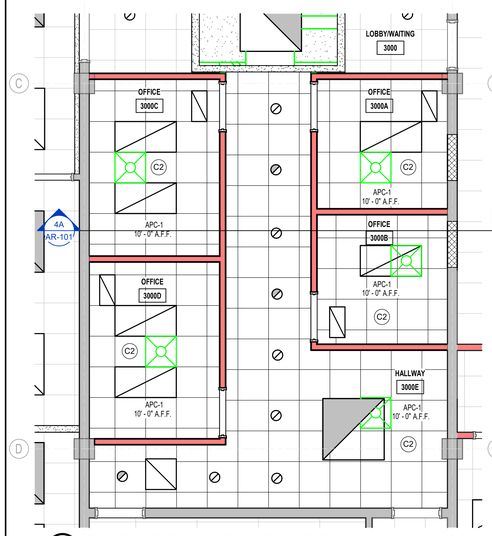


6D **NEW OFFICES SECOND FLOOR PLAN**
1/4" = 1'-0"



4D **NEW OFFICES REFLECTED CEILING PLAN**
1/4" = 1'-0"

DOOR & FRAME SCHEDULE

MARK	DOOR PANEL TYPE	MATL	GLA Z	SIZE H	SIZE W	SIZE TH	FRAME MARK	FRAME MATL	FRAME GLA Z	LABEL	HDWR SET	MARK	Comments
1024	OH	ST	--	10' - 0"	10' - 0"	2"	--	ST	--		95.90.OHD	1024	DPS
1037	F	HM	--	7' - 0"	6' - 0"	1 3/4"	F1	HM	--		15.04/10CVR.43.1.DP S	1037	PANIC HARDWARE
1038.1	F	HM	--	7' - 0"	6' - 0"	1 3/4"	F1	HM	--		15.04/10CVR.43.1.DP S	1038.1	PANIC HARDWARE
1038.2	F	HM	--	7' - 0"	3' - 0"	1 3/4"	F2	HM	--		15.04/10CVR.43.1.DP S	1038.2	PANIC HARDWARE
1039.1	F	HM	--	7' - 0"	6' - 0"	1 3/4"	F1	HM	--		15.04/10CVR.43.1.DP S	1039.1	PANIC HARDWARE
1039.2	F	HM	--	7' - 0"	3' - 0"	1 3/4"	F2	HM	--		15.04/10CVR.43.1.DP S	1039.2	PANIC HARDWARE
3000A	N	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		55.05.50	3000A	
3000B	N	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		55.05.50	3000B	
3000C	N	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		55.05.50	3000C	
3000D	N	WD	TG	7' - 0"	3' - 0"	1 3/4"	F1	HM	--		55.05.50	3000D	

GENERAL NOTES

A. THIS DOOR SCHEDULE(S) IS FURNISHED FOR WHATEVER ASSISTANCE IT MAY AFFORD THE CONTRACTOR. DO NOT CONSIDER IT AS ENTIRELY INCLUSIVE. CAREFULLY EXAMINE THE DRAWINGS (ESPECIALLY THE FLOOR PLANS) AND THE SPECIFICATIONS TO DETERMINE THE EXTENT OF DOOR AND FRAME QUANTITIES REQUIRED (INCLUDING INTERIOR BORROWED LITE OR SIDELITE OPENINGS). SHOULD ANY PARTICULAR DOOR, FRAME, OR INTERIOR BORROWED LITE OR SIDELITE SHOWN ON THE DRAWINGS BE INADVERTENTLY OMITTED FROM THIS SCHEDULE, SUPPLY SAME AS REQUIRED FOR SIMILAR OPENINGS.

B. VERIFY LOCKSETS WITH THE OWNER DURING SUBMITTALS.

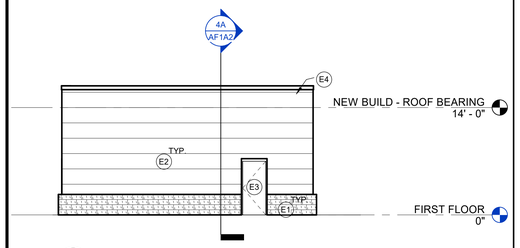
C. ALL COMMERCIAL 4'-0" WIDE DOORS TO HAVE CONTINUOUS HINGES. ALL SECURITY 4'-0" WIDE DOORS TO HAVE 4 HINGES

ABBREVIATIONS

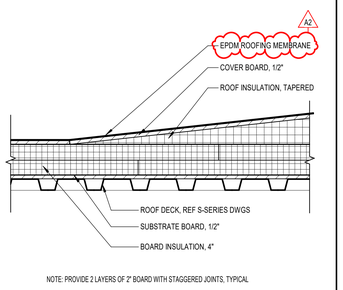
AL	ALUMINUM	TG	1/4" TEMPERED GLAZING
HM	HOLLOW METAL	IG	1" INSULATED GLAZING
SHM	SECURITY HOLLOW METAL	LG	LAMINATED GLAZING
ST	STEEL	FG	FROSTED GLAZING
WD	WOOD	SP	SPANDREL PANEL

PLAN NOTES

Key	Note
C1	PAINT STRUCTURE ABOVE.
C2	NEW CONSTRUCTION 2X2 ACT CEILINGS USED FOR SKYLIGHT INFILL, OFFICES, AND HALLWAY. REFER TO M SERIES, S SERIES, AND LIGHTING FOR COORDINATION.
E1	SPLIT FACE CMU, ARCHITECT TO SELECT COLOR.
E2	INSULATED METAL PANEL, ARCHITECT TO SELECT COLOR.
E3	HOLLOW METAL DOOR AND FRAME, SEE DOOR SCHEDULE.
E4	MANUFACTURED METAL COPING. ARCHITECT TO PICK COLOR.
E5	EXPANSION JOINT.
E6	ROOF SCUPPER AND DOWNSPOUT, REFER TO M SERIES DRAWINGS.
F1	INFILL WALL OPENING WITH NEW OVERHEAD DOOR.OVERHEAD COILING DOOR ASSEMBLY WITH MOTORIZED OPERATOR.
F2	INFILL EXISTING WALL OPENING WITH NEW CMU. PAINT FINISH TO MATCH ADJACENT WALL CONDITIONS.
F3	PREP AND PREPARE SUBFLOOR AS REQUIRED FOR INSTALLATION OF NEW CARPET.
F4	2-HOUR FIRE BARRIER
F5	INFILL EXISTING LOUVER OPENINGS WITH NEW MASONRY INFILL.PAINT NEW MASONRY TO MATCH ADJACENT EXISTING PRECAST EXTERIOR WALLS.
F6	REPLACE EXISTING SINKS AND COUNTERTOP WITH NEW, SS1 COUNTERTOP AND UNDERMOUNTED SINKS. REFER TO P-SERIES DRAWINGS.
F7	ALIGN NEW STUD WALL WITH FACE OF STRUCTURAL COLUMN.
F8	SEE S SERIES FOR FLOOR INFILL. PREP AND PREPARE NEW SUBFLOOR FOR CARPET FINISH.
F9	6" STEEL BOLLARD, CONCRETE FILLED. TO BE PRIMED AND PAINTED SAFTEY YELLOW.
R1	MANUFACTURED METAL COPING. ARCHITECT TO PICK COLOR.
R2	ROOF CRICKETS TO MAINTAIN POSITIVE ROOF DRAINAGE.
R3	EXPANSION JOINT.
R4	ROOF TO ROOF LADDER.
R5	CHILLERS, REFER TO M-SERIES DRAWINGS.
R6	ROOF SCUPPER AND DOWNSPOUT, REFER TO ARCHITECTURAL ROOF PLAN AND DETAIL 1A, 4/AF1A2.

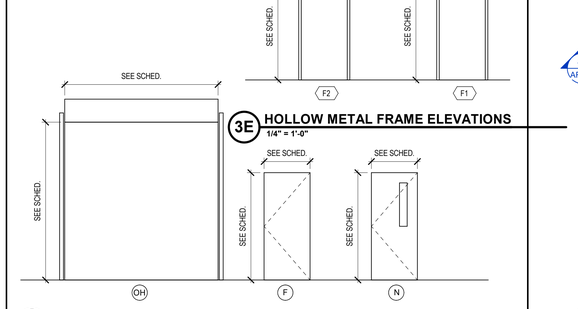


6C **SOUTH ELEVATION**
1/8" = 1'-0"



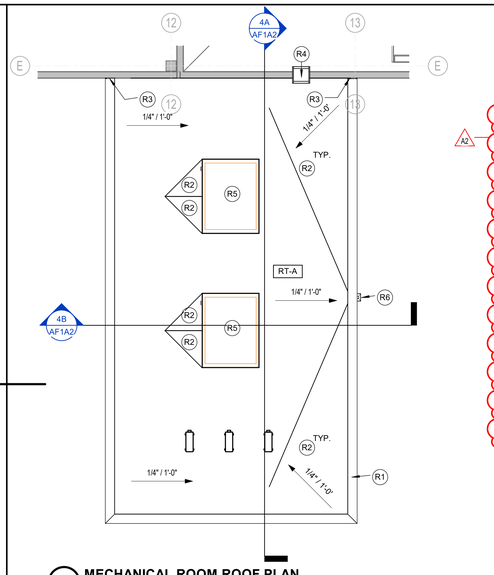
NOTE: PROVIDE 2 LAYERS OF 2" BOARD WITH STAGGERED JOINTS, TYPICAL

5C **ROOF TYPE - RT-A**
1 1/2" = 1'-0"



3E **HOLLOW METAL FRAME ELEVATIONS**
1/4" = 1'-0"

3C **DOOR PANEL ELEVATIONS**
1/4" = 1'-0"



2C **MECHANICAL ROOM ROOF PLAN**
1/8" = 1'-0"

INTERIORS FINISH LEGEND

CARPET	
CPT1	MFR: PATCRAFT (OR APPROVED EQUAL) COLLECTION/STYLE : ELEMENTAL 7683 TILE SIZE: 24 IN X 24 IN THICKNESS: 0.250 IN. INSTALLATION PATTERN: ASHLAR COLOR: WEATHERED 2627
SEALED CONCRETE	
SC1	REFER TO SPECIFICATIONS
PAINT	
P1	MFR: SHERWIN-WILLAMS (OR APPROVED EQUAL) FINISH: EGGSHELL COLOR: PICK FROM MFR STANDARD RANGE
VINYL WALL BASE	
B1	MFR: JOHNSONITE: A TARKETT COMPANY (OR APPROVED EQUAL) PROFILE: TRADITIONAL VINYL 4" COLOR: PICK FROM MFR STANDARD RANGE
SOLID SURFACE	
SS1	MFR: CORIAN (OR APPROVED EQUAL) COLOR: PICK FROM MFR STANDARD RANGE

GENERAL PLAN NOTES

(A) DRAWINGS ESTABLISH THE DESIGN INTENT OF WORK TO BE PERFORMED. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HIGHEST INDUSTRY STANDARDS. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL TRADES SHALL CAREFULLY COORDINATE WORK OF ALL OTHER TRADES. ANY DISCREPANCIES OR CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND THE OWNER PRIOR TO FABRICATION OR INSTALLATION.

(B) CONTRACTORS SHALL BE RESPONSIBLE FOR CHECKING THE CONTRACT DOCUMENTS FOR COORDINATION BETWEEN ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, SECURITY AND LANDSCAPING. CONTRACTORS SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS AND FOR VERIFYING THEM WITH THE CONTRACT DOCUMENTS. ANY DISCREPANCY IN THE CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT PRIOR TO ANY FABRICATION OR CONSTRUCTION.

(C) PLAN NOTES INDICATE ONE GRAPHIC REPRESENTATION TYPICAL. THE CONTRACTOR SHALL USE THE GRAPHIC REPRESENTATIONS FOR THE COUNT, NOT THE KEYED PLAN NOTES. THE ABSENCE OF A KEYED PLAN NOTE ON THE PLAN DOES NOT ABSOLVE THE CONTRACTOR FROM PROVIDING THE FEATURE GRAPHICALLY REPRESENTED ON THE DRAWING.

(D) ALL DIMENSIONS SHOWN ARE TO FACE OF STUD OR MASONRY, UNLESS NOTED OTHERWISE. DIMENSIONS DESIGNATED AS "CLR OR "CLEAR" INDICATE A CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH. DIMENSIONS OF EXTERIOR WALLS ARE TO OUTSIDE EDGE OF EXTERIOR FINISH.

(E) DIMENSIONS FOR ALL OPENINGS FOR MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL ETC. SHALL BE COORDINATED WITH THE VENDORS AND SHALL BE FIRE STOPPED AT EACH FLOOR/ROOF AND RATED WALL PENETRATION PER THE CODE COMPLIANCE PLAN AND APPLICABLE CODES.

(F) PROVIDE BRACING AND BLOCKING AS REQUIRED IN WALLS SUPPORTING CASEWORK, THICKBOARDS, MARKERBOARDS, TELEVISIONS, RESTROOM ACCESSORIES, AND ANY ADDITIONAL WALL MOUNTED EQUIPMENT. COORDINATE WALL MOUNTED EQUIPMENT WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS.

(G) ALL COMMERCIAL DOOR FRAMES ARE LOCATED 4" FROM ADJACENT WALL, UNLESS NOTED OTHERWISE.

(H) ALL EXPOSED OUTSIDE CORNERS OF CMU SHALL BE BULLNOSE.

(I) SEAL ALL JOINTS BETWEEN DISSIMILAR MATERIALS.

(J) ALL GYPSUM WALLBOARD IS 5/8" TYPE "X", UNLESS NOTED OTHERWISE.

(K) ALL INTERIOR STUD WALLS ARE TYPE "S4ID" UNLESS NOTED OTHERWISE.

(L) BASE ELEVATION OF ADDITION IS 0'-0" = XXX' (UNITED STATES GEOLOGICAL SURVEY DATA). COORDINATE WITH CIVIL DRAWINGS

(M) ALL WALLS GOING TO DECK ARE TO BE SECURED TO DECK/STRUCTURE ABOVE AS REQUIRED. PROVIDE ADDITIONAL BRACING AS REQUIRED.

(N) ALL WALLS THAT HAVE THE DESIGNATION "C" AND ARE IN A SPACE WITH NO CEILING WILL BE 10FT TALL.

(O) ALL CORRIDOR SURFACES SHALL BE FLUSH. AT JUNCTIONS OF MASONRY AND STUD WALLS, MASONRY WALL LOCATIONS SHALL HOLD TRUE AND MTL STUDS SHALL BE MOVED AS REQUIRED TO PROVIDE FLUSH CONNECTION BETWEEN CIVP, BD. AND MASONRY. VERIFY NO. OF LAYERS OF CIYP. BD. W WALL TYPES. RELOCATION OF WALL SHALL BE APPROVED BY ARCHITECT PRIOR TO CONST. AT TRANSITIONS FROM 1 LAYER GYP. BD. TO 2 LAYERS OF CIYP. ON MTL STUDS A MIN. CORRIDOR WIDTH OF 5'-0" FROM FACE OF STUDS SHALL BE MAINTAINED.

(P) ALL BUILDING MATERIALS (INCLUDING BUT NOT LIMITED TO METAL FLASHING, VAPOR BARRIERS, AIR/WATER RESISTANT BARRIERS, THRU-WALL FLASHING, ETC.) SHALL BE LAPPED TO SHED WATER TO THE OUTSIDE OF THE BUILDING ENVELOPE.

(Q) SEE CODE COMPLIANCE PLAN G-101 AND G-102 FOR FIRE RATED WALLS.

(R) SEE WALL TYPE LEGEND A-002 AND A-003 FOR WALLS AND CONSTRUCTION REQUIREMENTS.

(S) SEE STRUCTURAL/ARCHITECTURAL FOR CONTROL/EXPANSION JOINT LOCATIONS.

(T) SLOPE CONCRETE SLABS TO FLOOR DRAINS AT 1/16" MIN PER FT.

(U) ALL EXPOSED PIPES, DUCTS CONDUITS IN SECURITY AREAS SHALL BE ENCLOSED WITH SECURITY BULKHEAD/COVERPLATES. PROVIDE TAMPER RESISTANT ANCHORS.

(V) WHEREVER VOLUME DAMPERS (V D.) ARE LOCATED ABOVE SECURITY CEILINGS, PROVIDE 2'-0"x2'-0" ACCESS PANELS IN THE CEILING. REFER TO MECHANICAL DRAWINGS FOR NUMBER AND LOCATION. COORDINATE WITH ELECTRICAL DRAWINGS. PANELS SHALL BE SECURITY TYPE TO MATCH ADJACENT CEILING.

(W) ALL CHASE WALLS SHALL BE FULL HEIGHT UNLESS NOTED OTHERWISE.

(X) ALL INTERIOR AND EXTERIOR EXPOSED STEEL TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.

(Y) SUFFIXES WITHIN SPECIFICATION REFERENCES (i.e. 10 11 33.XX or 10 11 33.A1) IN THE DRAWINGS CAN BE IGNORED. THESE SUFFIXES ARE A SORTING MECHANISM USED IN PREPARING THESE DRAWINGS.

(Z) ALL ROUGH OPENINGS (R.O.) SHALL BE VERIFIED WITH SELECTED WINDOW AND DOOR MANUFACTURER. ANY CHANGES FROM THE BASIS OF DESIGN WILL BE COORDINATED WITH ALL TRADES AND ROUGH OPENINGS ADJUSTED AS REQUIRED. ANY DISCREPANCIES FOUND WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION. ANY CHANGES AND REVISIONS WILL BE AT CONTRACTORS EXPENSE.

(AA) ALL CONSTRUCTION AROUND PLUMBING FIXTURES IS REQUIRED TO BE COORDINATED WITH SELECTED MANUFACTURERS. ADJUST WALLS AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF THE SELECTED MANUFACTURERS PLUMBING FIXTURES. ANY CHANGES AND REVISIONS WILL BE DONE AT CONTRACTORS EXPENSE.

(BB) BUILDING ENVELOPE CONTINUITY WILL BE MONITORED BY A COMMISSIONING AGENT. TRANSITIONS BETWEEN BUILDING SYSTEMS (E. ROOF TO WALL, CURTAINWALL TO EXTERIOR WALL, ETC.) SHALL INCLUDE CONTINUOUS AIR/TIGHT AIR BARRIER SYSTEM. ALL PENETRATIONS IN THE BUILDING ENVELOPE (INCLUDING WINDOWS, DOORS, STOREFRONT, ETC.) SHALL BE SEALED WITH AIR TIGHT WEATHER SEALS. AT ANY LOCATION WHERE MASONRY TIES OR OTHER MATERIALS PENETRATE THE AIR BARRIER, EACH PENETRATION SHALL BE SEALED AIRTIGHT.

(CC) ALL EXPOSED FASTENERS IN DETENTION/SECURITY AREAS (INCLUDING BUT NOT LIMITED TO DOOR HARDWARE, ELECTRICAL, PLUMBING, MECHANICAL ETC.) ARE TO BE SECURITY TAMPER RESISTANT TYPE.

(DD) ALL EXPOSED STRUCTURE TO BE PRIMED AND PAINTED WITH HIGH PERFORMANCE PAINT.

(EE) NON-PREFINISHED INTERIOR SURFACES (MASONRY/DRYWALL/STEEL) IN DETENTION AREAS SHALL RECEIVE HIGH PERFORMANCE EPOXY COATING, AND SHOULD BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO PREFINISHED SURFACES DURING CONSTRUCTION SHALL BE REPAIRED AT CONTRACTORS EXPENSE.

(FF) NOT USED.

(GG) NOT USED.

(HH) ALL ELECTRICAL DEVICES TO BE COORDINATED WITH ALL CASEWORK LOCATION. ADJUST DEVICE LOCATIONS AS REQUIRED TO AVOID CONFLICT, ANY CONFLICT NEEDS TO BE DIRECTED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

(II) NOT USED.

(JJ) PROVIDE WATER MANAGEMENT SYSTEM AT DETENTION PLUMBING FIXTURES - SEE PLUMBING.

(KK) NOT USED.

(LL) ALL COMMERCIAL HOLLOW METAL FRAMES IN STUD WALL CONSTRUCTION TO BE WRAP AROUND WALL DEPTH. ALL COMMERCIAL HOLLOW METAL FRAMES IN CMU CONSTRUCTION TO BE 9-3/4" DEEP CENTRALLY LOCATED IN THE WALL ASSEMBLY WITH BULLNOSE CMU CORNERS. ALL SECURITY HOLLOW METAL FRAMES IN CAST/PRECAST WALLS TO BE 7-5/8" DEEP, CENTRALLY LOCATED OR AT EXTERIOR APPLICATION 3" FROM THE EXTERIOR FACE.

(MM) PROVIDE ADDITIONAL ACCESS PANELS AT ALL LOCATIONS REQUIRED FOR MAINTENANCE. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION CONTRACTOR. PROVIDE SECURITY ACCESS PANELS IN SECURITY AREAS. SEE AP103 AND AP104 FOR SECURITY AREAS.

(NN) SECURITY SEALANT: PROVIDE SECURITY TYPE SEALANT AT ALL DISSIMILAR MATERIAL IN SECURITY AREAS. SEE AP103 AND AP104 FOR SECURITY AREAS. ALL MASONRY CONTROL JOINTS ARE TO RECEIVE FLEXIBLE SECURITY SEALANTS IN SECURITY AREAS. ALL RATED ASSEMBLIES ARE TO RECEIVE RATED SECURITY SEALANT FROM THE SAME MANUFACTURER. SECURITY SEALANT TO BE TO 1/2" ABOVE FINISHED LEVEL WHERE IMMATES WILL BE PRESENT, @ 10' AFF PROVIDE COMMERCIAL GRADE JOINT SEALANT OR FIRE RATED JOINT SYSTEM. ALL STEEL CELLS TO FLOOR JOINTS SHALL HAVE DYNAPOXY OR EQUAL SECURITY CAULKING.

(OO) PROVIDE 4x8" STEEL PIPE BOLLARD FILLED WITH CONCRETE TO 2'-6" A.F.F. BOLLARDS ARE TO BE PROVIDED AT EACH OVERHEAD DOOR LOCATION, TWO AT EACH JAMB ON BOTH EXTERIOR AND INTERIOR SIDE OF THE JAMB. PAINT EACH BOLLARD SAFETY YELLOW

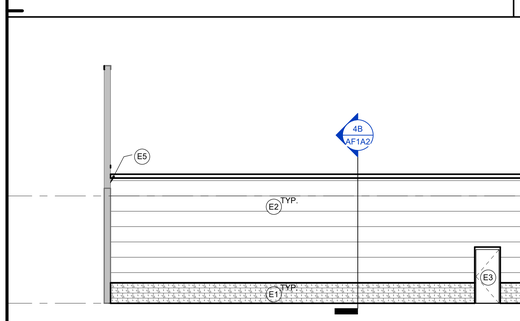
(PP) PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL TILE WET WALL LOCATIONS

(QQ) MASONRY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLEAN AND TOOLED JOINTS AT ALL LOCATIONS, INCLUDING BUT NOT LIMITED TO DETENTION AREAS. THE MASONRY CONTRACTOR WILL ALSO BE RESPONSIBLE FOR CLEAN AND TOOLED JOINTS AT BASE OF MASONRY AND SLAB CONDITION. ANY POCKETS OR GAPS SHALL REQUIRE SECURITY CAULKING IN DETENTION AREAS AND SHALL BE THE RESPONSIBILITY OF THE MASONRY CONTRACTOR.

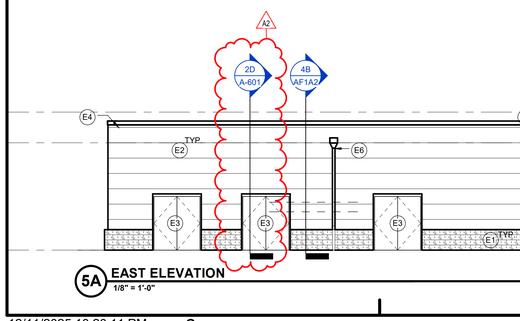
(RR) CLEAN ALL WALL SURFACES PRIOR TO FINISHING AND ANY GROUT OR DEBRIS STUCK ON WALL SURFACES MUST BE REMOVED PRIOR TO APPLYING FINISHES. ANY DEBRIS AND GROUT WHICH IS LEFT AND PAINTED OVER WILL BE REQUIRED TO BE REMOVED AND REFINISHED AT CONTRACTORS EXPENSE.

(SS) ALL COMMERCIAL PLUMBING ADA FIXTURES ARE TO RECEIVE ALL REQUIRED GRAB-BARS AS OUTLINED BY ICC A117.1 (MOST CURRENT EDITION AT THE BEGINNING OF PROJECT CONSTRUCTION). INCLUDE ALL HORIZONTAL AND VERTICAL GRAB-BARS. PROVIDE BLOCKING OR MANUFACTURED EQUIVALENT AT ALL GRAB-BAR LOCATIONS. ALL SECURITY GRAB-BARS TO RECEIVE PRE_MANUFACTURED ANTI-LIGATURE PLATE WITH WEEPS. HEIGHT OF ALL GRAB BARS SHALL BE PER ICC A117.1 (36" TO TOP OF GRIPPING SURFACE).

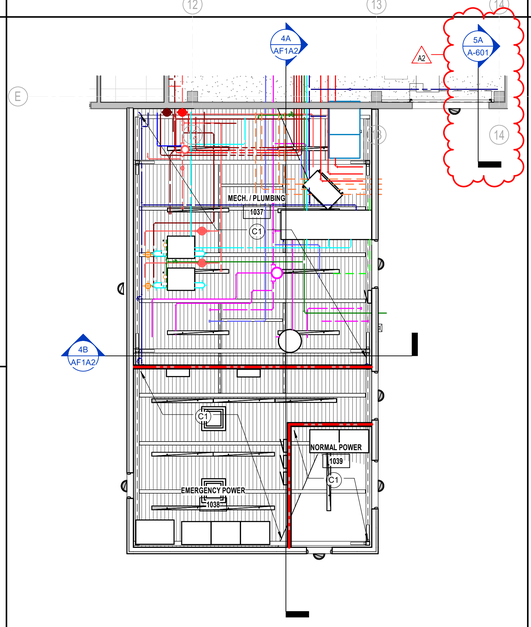
(TT) ALL EXPANSION JOINT COVERS THROUGH RATED WALL/CEILING/FLOOR ASSEMBLIES SHALL MEET THE RATING REQUIREMENTS OF EACH ASSEMBLY PER THE FIRE AND LIFE SAFETY PLANS.



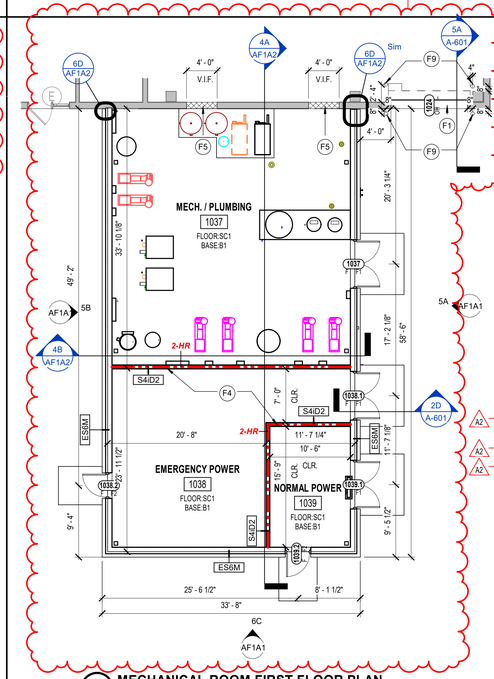
5B **WEST ELEVATION**
1/8" = 1'-0"



5A **EAST ELEVATION**
1/8" = 1'-0"



3A **MECHANICAL ROOM REFLECTED CEILING PLAN**
1/8" = 1'-0"



2A **MECHANICAL ROOM FIRST FLOOR PLAN**
1/8" = 1'-0"

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929

Designed By: CPW

Drawn By: CPW

Checked By: SP

Date: 11.21.2025

MICHAEL FRANCIS GARDNER
REGISTERED
No. 10700168
STATE OF INDIANA
ARCHITECT

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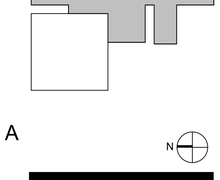

NEW CONSTRUCTION UNIT PLANS, ELEVATIONS, & DOORS

AF1A1

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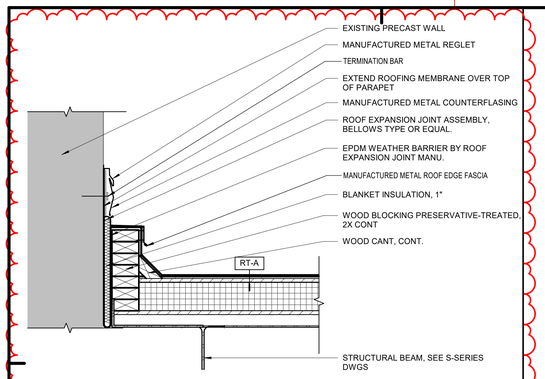
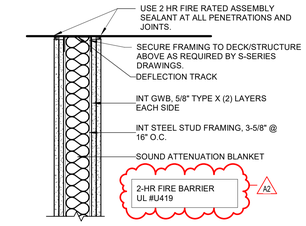
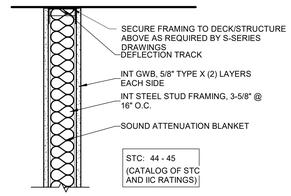


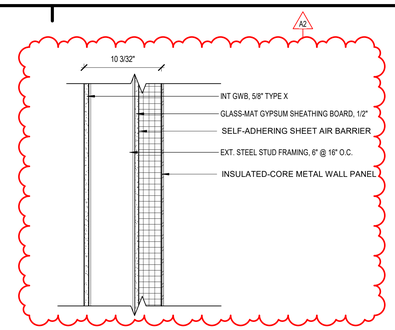
6E ROOF EXPANSION JOINT
1 1/2" = 1'-0"



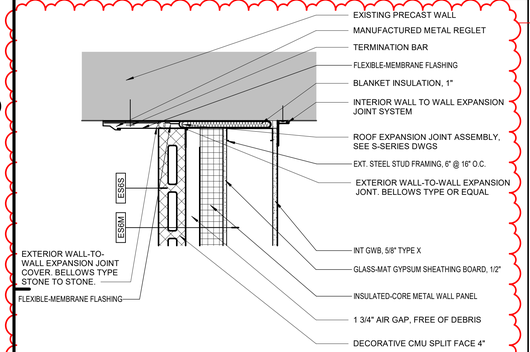
3E S4iD2 WALL TYPE
1 1/2" = 1'-0"



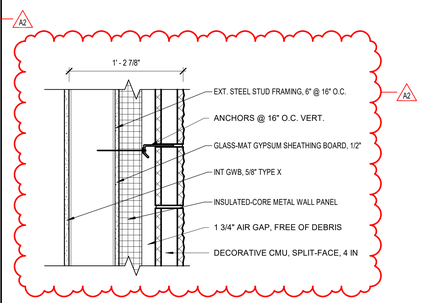
2E S4iD WALL TYPE
1 1/2" = 1'-0"



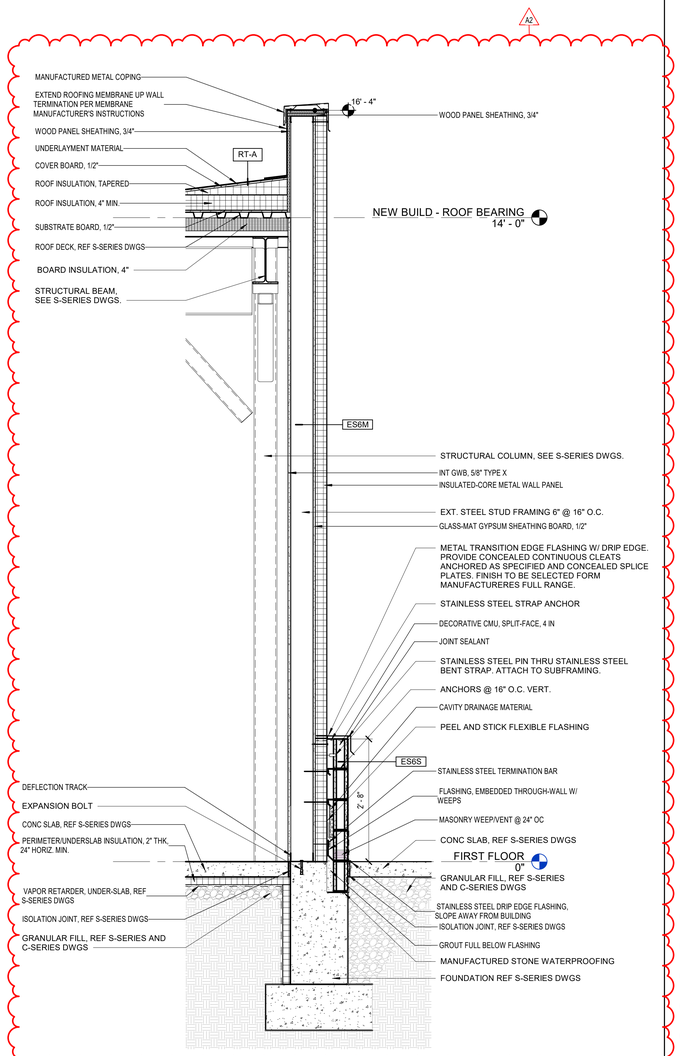
1E ES6M
1 1/2" = 1'-0"



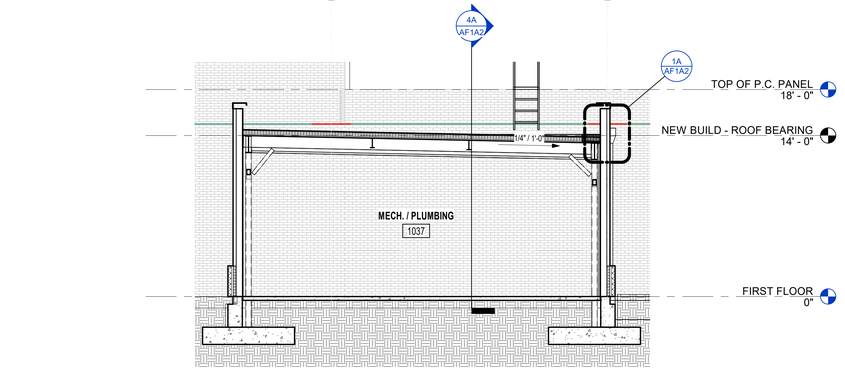
6D PLAN DETAIL EXPANSION JOINT
1 1/2" = 1'-0"



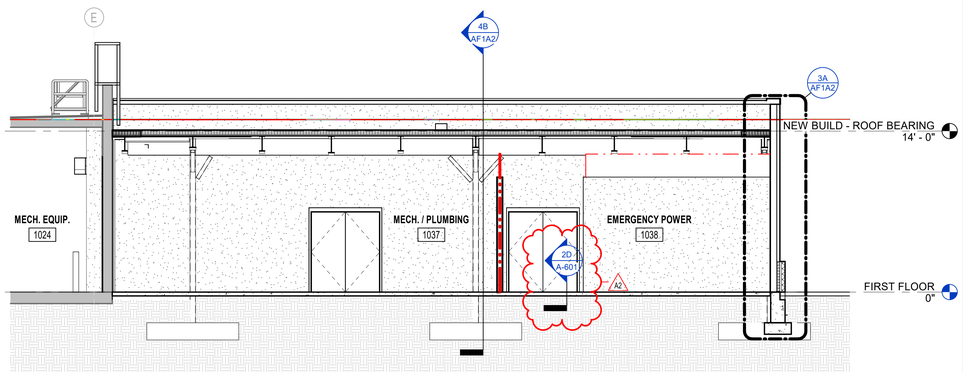
5D ES6S WALL TYPE
1 1/2" = 1'-0"



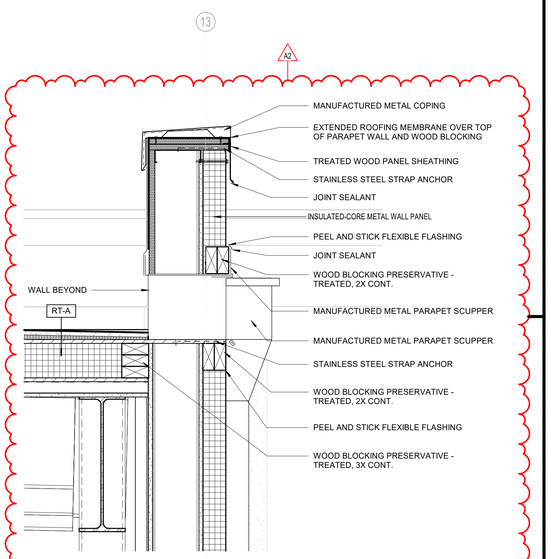
3A MECHANICAL ROOM WALL SECTION
3/4" = 1'-0"



4B MECHANICAL ROOM SECTION 2
3/16" = 1'-0"



4A MECHANICAL ROOM SECTION 1
3/16" = 1'-0"



1A THROUGH WALL SCUPPER DETAIL
1 1/2" = 1'-0"

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

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NEW CONSTRUCTION SECTIONS & DETAILS A2

AF1A2

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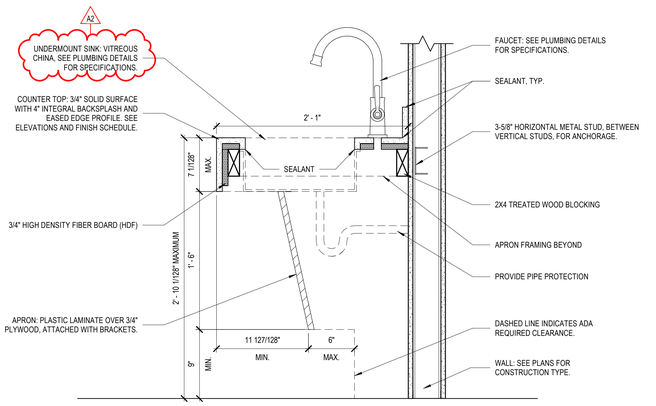
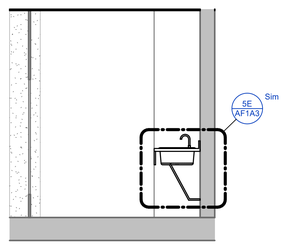
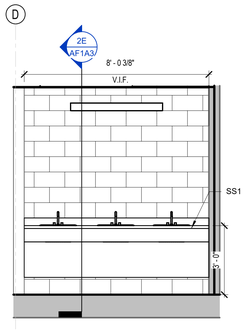


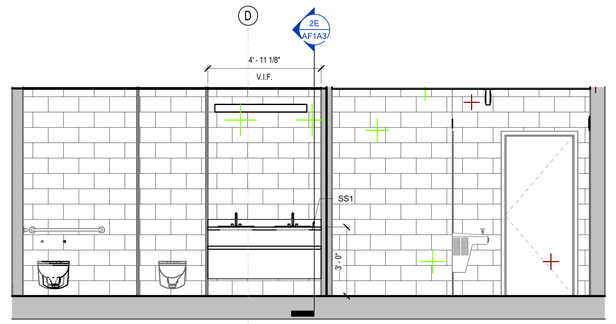
5E CASEWORK (BASE) - UNDERMOUNT SINK (ADA) TYP.
1 1/2" = 1'-0"



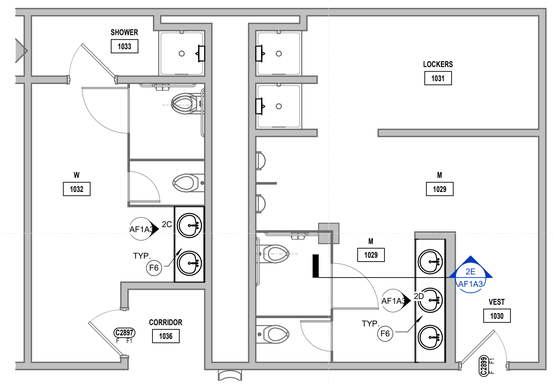
2E COUNTER TOP SECTION TYP.
3/8" = 1'-0"



2D ARCHITECTURE INTERIOR ELEVATION 2
3/8" = 1'-0"



2C ARCHITECTURE INTERIOR ELEVATION 1
3/8" = 1'-0"



2A LOCKER ROOMS NEW CONSTRUCTION
1/4" = 1'-0"

GENERAL NOTES

A. THIS DOOR SCHEDULE(S) IS FURNISHED FOR WHATEVER ASSISTANCE IT MAY AFFORD THE CONTRACTOR. DO NOT CONSIDER IT AS ENTIRELY INCLUSIVE. CAREFULLY EXAMINE THE DRAWINGS (ESPECIALLY THE FLOOR PLANS) AND THE SPECIFICATIONS TO DETERMINE THE EXTENT OF DOOR AND FRAME QUANTITIES REQUIRED (INCLUDING INTERIOR BORROWED LITE OR SIDELITE OPENINGS). SHOULD ANY PARTICULAR DOOR, FRAME, OR INTERIOR BORROWED LITE OR SIDELITE SHOWN ON THE DRAWINGS BE INADVERTENTLY OMITTED FROM THIS SCHEDULE, SUPPLY SAME AS REQUIRED FOR SIMILAR OPENINGS.

B. VERIFY LOCKSETS WITH THE OWNER DURING SUBMITTALS.

C. ALL COMMERCIAL 4'-0" WIDE DOORS TO HAVE CONTINUOUS HINGES. ALL SECURITY 4'-0" WIDE DOORS TO HAVE 4 HINGES

ABBREVIATIONS

AL	ALUMINUM	TG	1/4" TEMPERED GLAZING
HM	HOLLOW METAL	IG	1" INSULATED GLAZING
SHM	SECURITY HOLLOW METAL	LG	LAMINATED GLAZING
ST	STEEL	FG	FROSTED GLAZING
WD	WOOD	SP	SPANDREL PANEL

PLAN NOTES

Key	Note
C1	PAINT STRUCTURE ABOVE.
C2	NEW CONSTRUCTION 2X2 ACT CEILINGS USED FOR SKYLIGHT INFILL, OFFICES, AND HALLWAY. REFER TO M SERIES, S SERIES, AND LIGHTING FOR COORDINATION.
E1	SPLIT FACE CMU, ARCHITECT TO SELECT COLOR.
E2	INSULATED METAL PANEL, ARCHITECT TO SELECT COLOR.
E3	HOLLOW METAL DOOR AND FRAME, SEE DOOR SCHEDULE.
E4	MANUFACTURED METAL COPING. ARCHITECT TO PICK COLOR.
E5	EXPANSION JOINT.
E6	ROOF SCUPPER AND DOWNSPOUT, REFER TO P-SERIES DRAWINGS.
F1	INFILL WALL OPENING WITH NEW OVERHEAD DOOR.OVERHEAD COILING DOOR ASSEMBLY WITH MOTORIZED OPERATOR.
F2	INFILL EXISTING WALL OPENING WITH NEW CMU. PAINT FINISH TO MATCH ADJACENT WALL CONDITIONS.
F3	PREP AND PREPARE SUBFLOOR AS REQUIRED FOR INSTALLATION OF NEW CARPET.
F4	2-HOUR FIRE BARRIER
F5	INFILL EXISTING LOUVER OPENINGS WITH NEW MASONRY INFILL.PAINT NEW MASONRY TO MATCH ADJACENT EXISTING PRECAST EXTERIOR WALLS.
F6	REPLACE EXISTING SINKS AND COUNTERTOP WITH NEW, SS1 COUNTERTOP AND UNDERMOUNTED SINKS. REFER TO P-SERIES DRAWINGS.
F7	ALIGN NEW STUD WALL WITH FACE OF STRUCTURAL COLUMN.
F8	SEE S SERIES FOR FLOOR INFILL. PREP AND PREPARE NEW SUBFLOOR FOR CARPET FINISH.
F9	6" STEEL BOLLARD, CONCRETE FILLED. TO BE PRIMED AND PAINTED SAFTEY YELLOW.
R1	MANUFACTURED METAL COPING. ARCHITECT TO PICK COLOR.
R2	ROOF CRICKETS TO MAINTAIN POSITIVE ROOF DRAINAGE.
R3	EXPANSION JOINT.
R4	ROOF TO ROOF LADDER.
R5	CHILLERS, REFER TO M-SERIES DRAWINGS.
R6	ROOF SCUPPER AND DOWNSPOUT, REFER TO ARCHITECTURAL ROOF PLAN AND DETAIL 1A / AF1A2

GENERAL PLAN NOTES

(A) DRAWINGS ESTABLISH THE DESIGN INTENT OF WORK TO BE PERFORMED. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HIGHEST INDUSTRY STANDARDS. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL TRADES SHALL CAREFULLY COORDINATE WORK OF ALL OTHER TRADES. ANY DISCREPANCIES OR CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND THE OWNER PRIOR TO FABRICATION OR INSTALLATION.
(B) CONTRACTORS SHALL BE RESPONSIBLE FOR CHECKING THE CONTRACT DOCUMENTS FOR COORDINATION BETWEEN ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, SECURITY AND LANDSCAPING. CONTRACTORS SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS AND FOR VERIFYING THEM WITH THE CONTRACT DOCUMENTS. ANY DISCREPANCY IN THE CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT PRIOR TO ANY FABRICATION OR CONSTRUCTION.
(C) PLAN NOTES INDICATE ONE GRAPHIC REPRESENTATION TYPICAL. THE CONTRACTOR SHALL USE THE GRAPHIC REPRESENTATIONS FOR THE COUNT, NOT THE KEYED PLAN NOTES. THE ABSENCE OF A KEYED PLAN NOTE ON THE PLAN DOES NOT ABSOLVE THE CONTRACTOR FROM PROVIDING THE FEATURE GRAPHICALLY REPRESENTED ON THE DRAWING.
(D) ALL DIMENSIONS SHOWN ARE TO FACE OF STUD OR MASONRY, UNLESS NOTED OTHERWISE. DIMENSIONS DESIGNATED AS "CLR OR "CLEAR" INDICATE A CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH. DIMENSIONS OF EXTERIOR WALLS ARE TO OUTSIDE EDGE OF EXTERIOR FINISH.
(E) DIMENSIONS FOR ALL OPENINGS FOR MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL ETC. SHALL BE COORDINATED WITH THE VENDORS AND SHALL BE FIRE STOPPED AT EACH FLOOR/ROOF AND RATED WALL PENETRATION PER THE CODE COMPLIANCE PLAN AND APPLICABLE CODES.
(F) PROVIDE BRACING AND BLOCKING AS REQUIRED IN WALLS SUPPORTING CASEWORK, TACKBOARDS, MARKERBOARDS, TELEVISIONS, RESTROOM ACCESSORIES, AND ANY ADDITIONAL WALL MOUNTED EQUIPMENT. COORDINATE WALL MOUNTED EQUIPMENT WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS.
(G) ALL COMMERCIAL DOOR FRAMES ARE LOCATED 4" FROM ADJACENT WALL, UNLESS NOTED OTHERWISE.
(H) ALL EXPOSED OUTSIDE CORNERS OF CMU SHALL BE BULLNOSE.
(I) SEAL ALL JOINTS BETWEEN DISSIMILAR MATERIALS
(J) ALL GYPSUM WALLBOARD IS 5/8" TYPE "X", UNLESS NOTED OTHERWISE.
(K) ALL INTERIOR STUD WALLS ARE TYPE "SHO" UNLESS NOTED OTHERWISE.
(L) BASE ELEVATION OF ADDITION IS 0'-0" = XXX UNITED STATES GEOLOGICAL SURVEY DATA. COORDINATE WITH CIVIL DRAWINGS
(M) ALL WALLS GOING TO DECK ARE TO BE SECURED TO DECK/STRUCTURE ABOVE AS REQUIRED. PROVIDE ADDITIONAL BRACING AS REQUIRED.
(N) ALL WALLS THAT HAVE THE DESIGNATION "C" AND ARE IN A SPACE WITH NO CEILING WILL BE 10FT TALL.
(O) ALL CORRIDOR SURFACES SHALL BE FLUSH, AT JUNCTIONS OF MASONRY AND STUD WALLS. MASONRY WALL LOCATIONS SHALL HOLD TRUE AND MTL STUDS SHALL BE MOVED AS REQUIRED TO PROVIDE FLUSH CONNECTION BETWEEN GYP. BD. AND MASONRY. VERIFY NO. OF LAYERS OF GYP. BD. W/ WALL TYPES. RELOCATION OF WALL SHALL BE APPROVED BY ARCHITECT PRIOR TO CONST. AT TRANSITIONS FROM 1 LAYER GYP. BD. TO 2 LAYERS OF GYP. ON MTL STUDS A MIN. CORRIDOR WIDTH OF 5'-0" FROM FACE OF STUDS SHALL BE MAINTAINED.
(P) ALL BUILDING MATERIALS (INCLUDING BUT NOT LIMITED TO METAL FLASHING, VAPOR BARRIERS, AIR/WATER RESISTANT BARRIERS, THRU-WALL FLASHING, ETC.) SHALL BE LAPPED TO SHED WATER TO THE OUTSIDE OF THE BUILDING ENVELOPE.
(Q) SEE CODE COMPLIANCE PLAN G-101 AND G-102 FOR FIRE RATED WALLS.
(R) SEE WALL TYPE LEGEND A-002 AND A-003 FOR WALLS AND CONSTRUCTION REQUIREMENTS.
(S) SEE STRUCTURAL/ARCHITECTURAL FOR CONTROL/EXPANSION JOINT LOCATIONS.
(T) SLOPE CONCRETE SLABS TO FLOOR DRAINS AT 1/16" MIN. PER FT.
(U) ALL EXPOSED PIPES, DUCTS CONDUITS IN SECURITY AREAS SHALL BE ENCLOSED WITH SECURITY BULKHEAD/COVERPLATES. PROVIDE TAMPER RESISTANT ANCHORS.
(V) WHEREVER VOLUME DAMPERS (VD.) ARE LOCATED ABOVE SECURITY CEILINGS, PROVIDE 2'-0"x2'-0" ACCESS PANELS IN THE CEILING. REFER TO MECHANICAL DRAWINGS FOR NUMBER AND LOCATION. COORDINATE WITH ELECTRICAL DRAWINGS. PANELS SHALL BE SECURITY TYPE TO MATCH ADJACENT CEILING.
(W) ALL CHASE WALLS SHALL BE FULL HEIGHT UNLESS NOTED OTHERWISE.
(X) ALL INTERIOR AND EXTERIOR EXPOSED STEEL TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
(Y) SUFFIXES WITHIN SPECIFICATION REFERENCES (e.g. to 11 33.XX or to 11 33.A1) IN THE DRAWINGS CAN BE IGNORED. THESE SUFFIXES ARE A SORTING MECHANISM USED IN PREPARING THESE DRAWINGS.
(Z) ALL ROUGH OPENINGS (R.O.) SHALL BE VERIFIED WITH SELECTED WINDOW AND DOOR MANUFACTURER. ANY CHANGES FROM THE BASIS OF DESIGN WILL BE COORDINATED WITH ALL TRADES AND ROUGH OPENINGS ADJUSTED AS REQUIRED. ANY DISCREPANCIES FOUND WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION. ANY CHANGES AND REVISIONS WILL BE AT CONTRACTORS' EXPENSE.
(AA) ALL CONSTRUCTION AROUND PLUMBING FIXTURES IS REQUIRED TO BE COORDINATED WITH SELECTED MANUFACTURERS. ADJUST WALLS AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF THE SELECTED MANUFACTURERS PLUMBING FIXTURES. ANY CHANGES AND REVISIONS WILL BE DONE AT CONTRACTORS' EXPENSE.
(BB) BUILDING ENVELOPE CONTINUITY WILL BE MONITORED BY A COMMISSIONING AGENT. TRANSITIONS BETWEEN BUILDING SYSTEMS (I.E. ROOF TO WALL, CURTAINWALL TO EXTERIOR WALL, ETC.) SHALL INCLUDE CONTINUOUS AIRTIGHT AIR BARRIER SYSTEM. ALL PENETRATIONS IN THE BUILDING ENVELOPE (INCLUDING WINDOWS, DOORS, STOREFRONT, ETC.) SHALL BE SEALED WITH AIR TIGHT WEATHER SEALS. AT ANY LOCATION WHERE MASONRY TIES OR OTHER MATERIALS PENETRATE THE AIR BARRIER, EACH PENETRATION SHALL BE SEALED AIRTIGHT.
(CC) ALL EXPOSED FASTENERS IN DETENTION/SECURITY AREAS (INCLUDING BUT NOT LIMITED TO DOOR HARDWARE, ELECTRICAL, PLUMBING, MECHANICAL ETC. ARE TO BE SECURITY TAMPER RESISTANT TYPE.
(DD) ALL EXPOSED STRUCTURE TO BE PRIMED AND PAINTED WITH HIGH PERFORMANCE PAINT.
(EE) NON-PREFINISHED INTERIOR SURFACES (MASONRY/DRYWALL/STEEL) IN DETENTION AREAS SHALL RECEIVE HIGH PERFORMANCE EPOXY COATING, AND SHOULD BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO PREFINISHED SURFACES DURING CONSTRUCTION SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
(FF) NOT USED.
(GG) NOT USED.
(HH) ALL ELECTRICAL DEVICES TO BE COORDINATED WITH ALL CASEWORK LOCATION. ADJUST DEVICE LOCATIONS AS REQUIRED TO AVOID CONFLICT. ANY CONFLICT NEEDS TO BE DIRECTED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
(II) NOT USED.
(JJ) PROVIDE WATER MANAGEMENT SYSTEM AT DETENTION PLUMBING FIXTURES - SEE PLUMBING.
(KK) NOT USED.
(LL) ALL COMMERCIAL HOLLOW METAL FRAMES IN STUD WALL CONSTRUCTION TO BE WRAP AROUND WALL DEPTH. ALL COMMERCIAL HOLLOW METAL FRAMES IN CMU CONSTRUCTION TO BE 5-3/4" DEEP CENTRALLY LOCATED IN THE WALL ASSEMBLY WITH BULLNOSE CMU CORNERS. ALL SECURITY HOLLOW METAL FRAMES IN CMU/PRECAST WALLS TO BE 7-5/8" DEEP, CENTRALLY LOCATED OR AT EXTERIOR APPLICATION 3" FROM THE EXTERIOR FACE.
(MM) PROVIDE ADDITIONAL ACCESS PANELS AT ALL LOCATIONS REQUIRED FOR MAINTENANCE. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION CONTRACTOR. PROVIDE SECURITY ACCESS PANELS IN SECURITY AREAS. SEE AF103 AND AF104 FOR SECURITY AREAS.
(NN) SECURITY SEALANT: PROVIDE SECURITY TYPE SEALANT AT ALL DISSIMILAR MATERIAL IN SECURITY AREAS. SEE AF103 AND AF104 FOR SECURITY AREAS. ALL MASONRY CONTROL JOINTS ARE TO RECEIVE FLEXIBLE SECURITY SEALANTS IN SECURITY AREAS. ALL RATED ASSEMBLIES ARE TO RECEIVE RATED SECURITY SEALANT FROM THE SAME MANUFACTURER. SECURITY SEALANT TO BE TO 10' ABOVE FINISHED LEVEL WHERE INMATES WILL BE PRESENT, @ 10' AFF PROVIDE COMMERCIAL GRADE JOINT SEALANT OR FIRE RATED JOINT SYSTEM. ALL STEEL CELLS TO FLOOR JOINTS SHALL HAVE DYNAPOXY OR EQUAL SECURITY CAULKING.
(OO) PROVIDE AN 8" STEEL PIPE BOLLARD FILLED WITH CONCRETE TO 3'-6" A.F.F. BOLLARDS ARE TO BE PROVIDED AT EACH OVERHEAD DOOR LOCATION, TWO AT EACH JAMB ON BOTH EXTERIOR AND INTERIOR SIDE OF THE JAMB. PAINT EACH BOLLARD SAFETY YELLOW.
(PP) PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL TILE WET WALL LOCATIONS
(QQ) MASONRY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLEAN AND TOOLED JOINTS AT ALL LOCATIONS, INCLUDING BUT NOT LIMITED TO DETENTION AREAS. THE MASONRY CONTRACTOR WILL ALSO BE RESPONSIBLE FOR CLEAN AND TOOLED JOINTS AT BASE OF MASONRY AND SUB CONDITION. ANY POCKETS OR GAPS SHALL REQUIRE SECURITY CAULKING IN DETENTION AREAS AND SHALL BE THE RESPONSIBILITY OF THE MASONRY CONTRACTOR.
(RR) CLEAN ALL WALL SURFACES PRIOR TO FINISHING AND ANY GROUT OR DEBRIS STUCK ON WALL SURFACES MUST BE REMOVED PRIOR TO APPLYING FINISHES. ANY DEBRIS AND GROUT WHICH IS LEFT AND PAINTED OVER WILL BE REQUIRED TO BE REMOVED AND REFINISHED AT CONTRACTORS EXPENSE.
(SS) ALL COMMERCIAL PLUMBING ADA FIXTURES ARE TO RECEIVE ALL REQUIRED GRAB-BARS AS OUTLINED BY ICC A117.1 MOST CURRENT EDITION AT THE BEGINNING OF PROJECT CONSTRUCTION. INCLUDE ALL HORIZONTAL AND VERTICAL GRAB-BARS. PROVIDE BLOCKING OR MANUFACTURERS EQUIVALENT AT ALL GRAB-BAR LOCATIONS. ALL SECURITY GRAB-BARS TO RECEIVE PRE_MANUFACTURED ANTI-LIGATURE PLATE WITH WEEPS. HEIGHT OF ALL GRAB BARS SHALL BE PER ICC A117.1 (36" TO TOP OF GRIPPING SURFACE).
(TT) ALL EXPANSION JOINT COVERS THROUGH RATED WALL/CEILING/FLOOR ASSEMBLIES SHALL MEET THE RATING REQUIREMENTS OF EACH ASSEMBLY PER THE FIRE AND LIFE SAFETY PLANS.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

[redacted]

Project #: 800-71929

Designed By: CPW

Drawn By: CPW

Checked By: SP

Date: 11.21.2025

MICHAEL FRANCIS GARDNER REGISTERED No. 10700168 STATE OF INDIANA ARCHITECT

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ENLARGED RESTROOM, ARCHITECTURAL INTERIOR ELEVATIONS, & DETAILS

AF1A3

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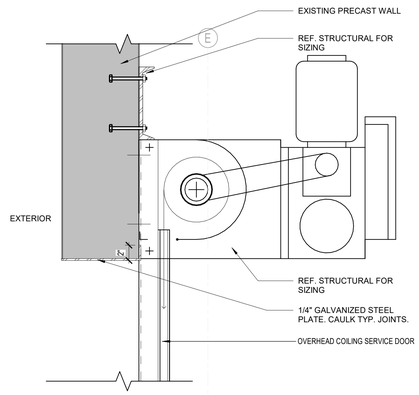
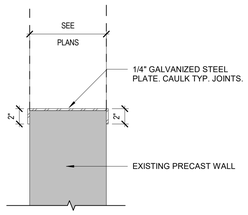
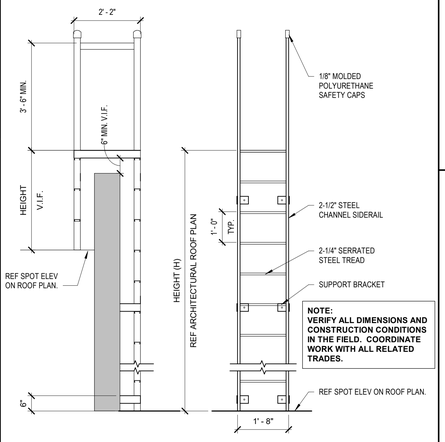


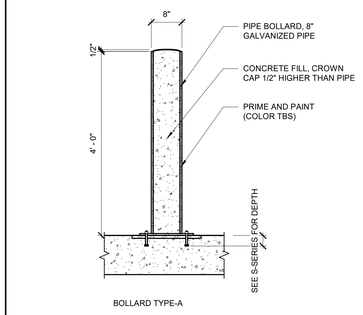
5D OVERHEAD DOOR HEAD DETAIL
1 1/2" = 1'-0"



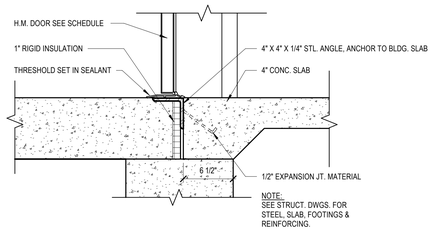
4D OVERHEAD DOOR JAMB DETAIL
1 1/2" = 1'-0"



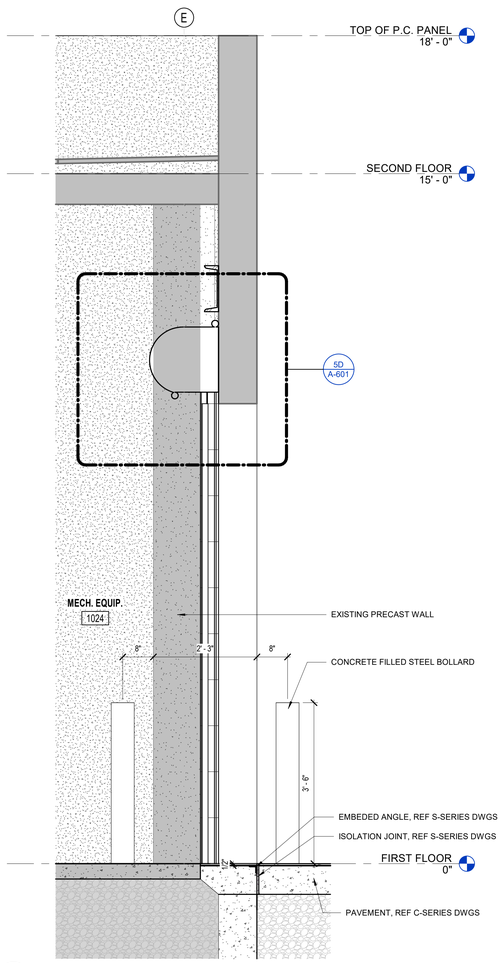
3D ROOF TO ROOF ACCESS LADDER
1/2" = 1'-0"



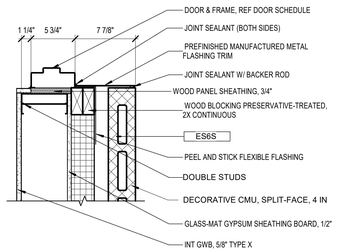
2E BOLLARD TYPE - A DETAIL
3/4" = 1'-0"



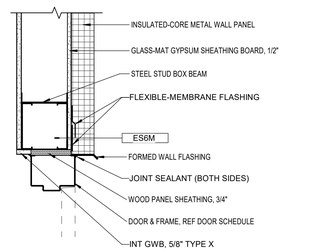
2D SILL @ EXTERIOR H.M. DOOR
1 1/2" = 1'-0"



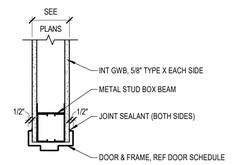
5A OVERHEAD DOOR WALL SECTION
3/4" = 1'-0"



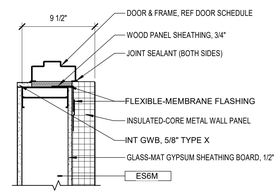
4C HOLLOW METAL JAMB ES6S
1 1/2" = 1'-0"



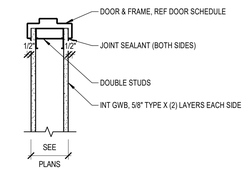
4B HOLLOW METAL HEADER ES6M
1 1/2" = 1'-0"



3B HOLLOW METAL HEAD DETAIL
1 1/2" = 1'-0"



4A HOLLOW METAL JAMB ES6M
1 1/2" = 1'-0"



3A HOLLOW METAL JAMB DETAIL
1 1/2" = 1'-0"

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BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

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#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929
Designed By: CW
Drawn By: CW
Checked By: SP
Date: 11.21.2025

MICHAEL FRANCIS GARDNER
REGISTERED
No. 10700168
STATE OF INDIANA
ARCHITECT

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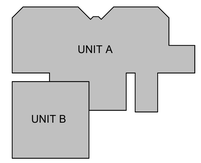

SECTIONS & TYPICAL DETAILS

A-601

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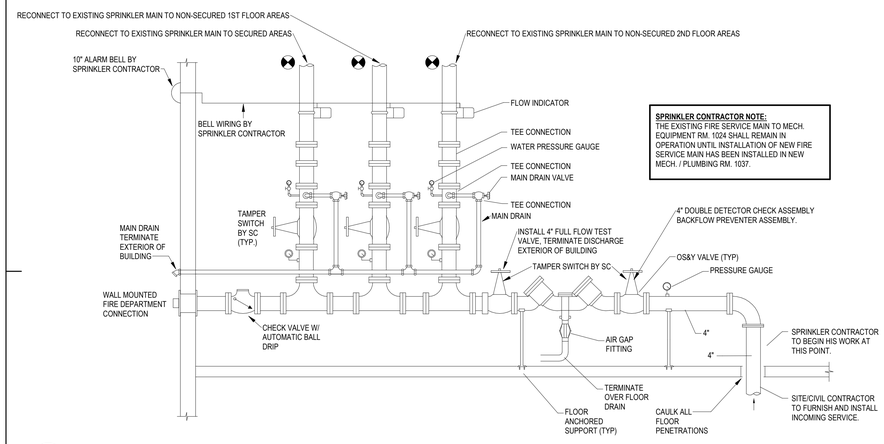
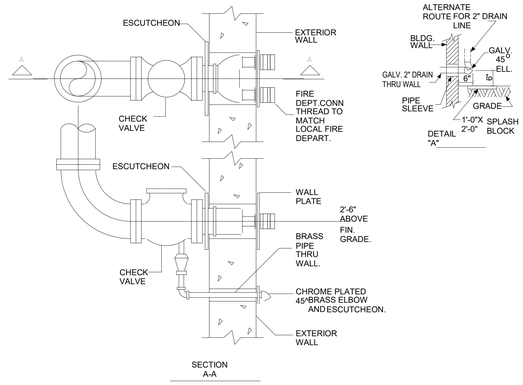
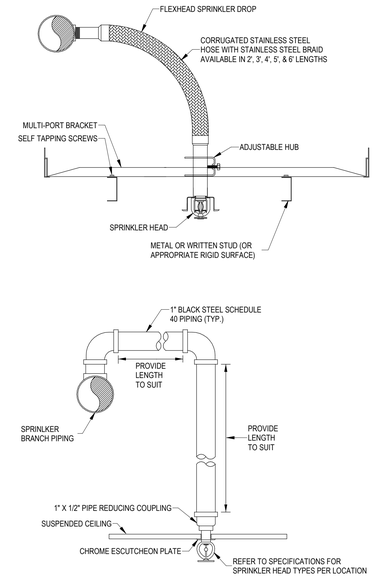


1 FIRE RISER DETAIL
NOT TO SCALE

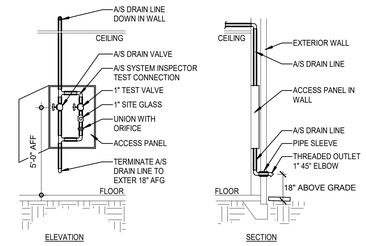


NOTE: PACK WALL OPENING WITH GLASS WOOL INSULATION AFTER INSTALLATION OF PIPING.

2 FIRE DEPARTMENT WALL MOUNTED CONNECTION
NOT TO SCALE

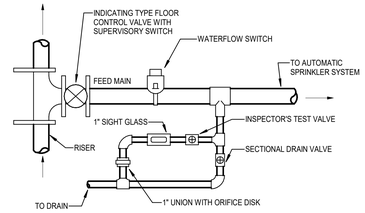


3 SPRINKLER CONNECTION DETAIL
NOT TO SCALE

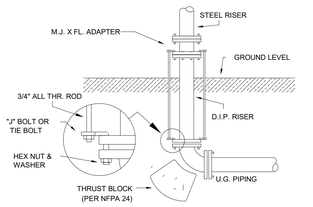


NOTE:
ACCESS PANEL WITH LABEL AUTOMATIC SPRINKLER DRAIN AND INSPECTOR TEST VALVE TO BE INSTALLED WHEN LOCATED IN A FINISHED AREA.

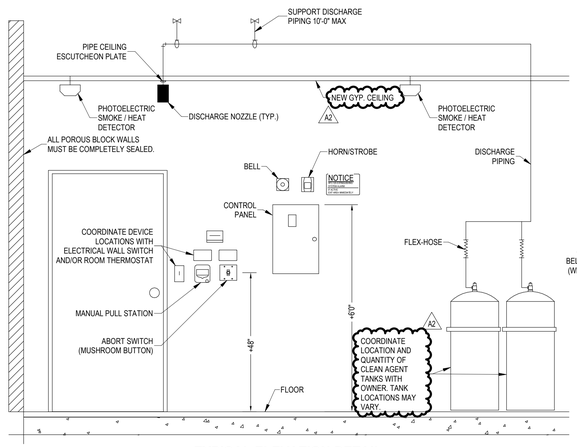
4 INSPECTOR'S TEST STATION DETAIL
NOT TO SCALE



5 SPRINKLER SYSTEM ZONE CONTROL VALVE DETAIL
NOT TO SCALE



6 UNDERGROUND STUB-UP W/ ROD
NOT TO SCALE



A2 **DOOR FAN TEST NOTES:**

1. A DOOR FAN TEST ON THE ROOM WILL BE PERFORMED AS PART OF THE FINAL INSPECTION WITH THE AHJ.
2. ALL PENETRATIONS AND OPENINGS PASSING THROUGH ROOM SHALL BE COMPLETELY SEALED.
3. ALL WALLS AND CEILINGS SHALL BE COMPLETELY SEALED.
4. ALL WALLS, CEILINGS AND DOORS SHALL BE OF FIRE RATED CONSTRUCTION.
5. MODIFICATIONS TO THE EXISTING ROOMS LAYOUT AND CONSTRUCTION SHALL BE MADE TO COMPLY WITH NFPA ROOM DESIGN.

OPERATION OF FIRE SUPPRESSION SYSTEM

SMOKE DETECTION ACTIVATION

A. FIRST DETECTOR IN ALARM IN THE ROOM AREA.
   1. ALARM BELL SOUNDS
   2. DAMPERS CLOSE

B. SECOND DETECTOR IN ALARM IN THE ROOM AREA.
   1. PRE-DISCHARGE HORN / STROBES SOUND & FLASH.
   2. TIME DELAY (30 SECONDS) IS STARTED.
   3. ABORT STATION CAN BE PUSHED AT THIS TIME TO HALT DISCHARGE

C. TIME DELAY (30 SECONDS) EXPIRES.
   1. DISCHARGE HORNS SOUND AND STROBES FLASH.
   2. CLEAN EXTINGUISHING AGENT WILL DISCHARGE VIA THE NOZZLES.

MANUAL STATION ACTIVATION

D. MANUAL PULL STATION IS ACTIVATED.
   1. BELLS SOUND AND STROBES FLASH.
   2. DAMPERS CLOSE.
   3. CLEANS AGENT WILL DISCHARGE IMMEDIATELY VIA THE NOZZLES.

7 CLEAN AGENT DETAIL
NOT TO SCALE

RQAW

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A2	ADDENDUM 2	12/12/2025

Project #: 800-71929
Designed By: K.I.
Drawn By: D.M.
Checked By: K.I.
Date: 11.21.2025

DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF
INDIANA
PROFESSIONAL ENGINEER

Dustin Barth

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FIRE PROTECTION DETAILS

F800

PLAN NOTES

#	NOTE
1	EXISTING GAS SERVICE TO REMAIN IN OPERATION UNTIL INSTALLATION OF NEW GAS SYSTEM IS COMPLETE. DEMOLISH THE EXISTING INCOMING GAS SERVICE AFTER TRANSITION TO NEW RELOCATION SERVICE MAIN. SEE SITE/CIVIL DRAWINGS FOR CONTINUATION AND COORDINATION. COORDINATE PHASING WITH CLIENT, AND ALL TRADES CONTRACTORS.
2	EXISTING INCOMING FIRE PROTECTION SERVICE TO REMAIN IN OPERATION UNTIL INSTALLATION OF NEW FIRE PROTECTION SYSTEM IS COMPLETE. DEMOLISH THE EXISTING INCOMING FIRE PROTECTION SERVICE AFTER TRANSITION TO NEW RELOCATION SERVICE MAIN. SEE SITE/CIVIL DRAWINGS FOR CONTINUATION AND COORDINATION. COORDINATE PHASING WITH CLIENT, AND ALL TRADES CONTRACTORS.
3	EXISTING DOMESTIC WATER SERVICE TO REMAIN IN OPERATION UNTIL INSTALLATION OF NEW DOMESTIC WATER SYSTEM IS COMPLETE. DEMOLISH THE EXISTING INCOMING DOMESTIC WATER SERVICE AFTER TRANSITION TO NEW RELOCATION SERVICE MAIN. SEE SITE/CIVIL DRAWINGS FOR CONTINUATION AND COORDINATION. COORDINATE PHASING WITH CLIENT, AND ALL TRADES CONTRACTORS.
4	DEMOLISH EXISTING SUMP POP-UP WASTE PIPING WITHIN BASIN. PREPARE LATERAL AND EXISTING BASIN FOR INSTALLATION OF NEW SUMP PUMP.
5	EXISTING GREASE TRAP TO REMAIN. OWNER TO SCHEDULE MAINTENANCE PUMPING AND FLUSHING OF EXISTING TRAP AND PIPES.
6	DEMOLISH EXISTING FLOOR DRAIN AND ASSOCIATED PIPING B.F.F.
7	DEMOLISH EXISTING FLOOR CLEANOUT AND ASSOCIATED PIPING B.F.F.
8	DISCONNECT, CUT BACK & CAP EXISTING PIPING B.F.F. FOR FUTURE CONNECTION.
9	DEMOLISH EXISTING SHOWER DRAIN AND PIPE FOR PIPING.
10	CONTRACTOR SHALL PROVIDE ENHANCED HYDRO-JETTING EFFORTS AT THIS LOCATION. PRIOR CCTV INSPECTION IDENTIFIED SIGNIFICANT OBSTRUCTIONS WITHIN THIS SEGMENT. ENSURE COMPLETE REMOVAL OF DEBRIS AND VERIFY FULL PIPE FLOW.

PLUMBING PLAN DEMOLITION NOTES

1. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
2. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
3. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
4. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.
5. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION THE DRAWINGS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN THE INTENT OF THESE DRAWINGS IS THAT IN ALL AREAS OF RENOVATION THAT THEY ARE REMOVED, WHETHER OR NOT SHOWN.
6. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
7. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
8. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE PLUMBING DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
9. ANY FIXTURE OR EQUIPMENT TO BE REMOVED AND REUSED OR TURNED OVER TO THE OWNER, AT OWNERS REQUEST, OR AS INDICATED ON THE DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.
10. THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
11. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.
12. THE PLUMBING CONTRACTOR SHALL COORDINATE HIS DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.
13. REMOVAL OF EXISTING FIXTURES AND EQUIPMENT WILL REQUIRE ISOLATING THE PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. INSTALL NEW ISOLATION VALVES WHERE REQUIRED FOR COMPLETION OF WORK.
13. REMOVAL OF EXISTING PLUMBING FIXTURES AND EQUIPMENT, ETC. WILL REQUIRE CAPPING AND SEALING EXISTING MAINS OR BRANCHES AS NECESARY AND REQUIRED TO ALLOW THE REMAINING SYSTEMS TO FULLY OPERATE WITHOUT DEGRADATION. CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK, AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK. REFER TO CONDITIONS AND DIVISION 1 SECTIONS IN THE SPECIFICATIONS.
14. EXISING PIPING AND EQUIPMENT, ETC., NOT TO BE UTILIZED IN THE COMPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED AS REQUIRED. ALL ENDS OF DISCONTINUED PIPING SHALL BE CAPPED IN THE NEAREST WALL, CEILING OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. OPENINGS LEFT IN WALLS, CEILINGS ETC., WHERE EQUIPMENT AND PIPE, ETC., ARE REMOVED AND NOT REPLACED, SHALL BE PATCHED NEATLY WITH SIMILAR MATERIALTO ADJACENT CONSTRUCTION. REFER TO DRAWINGS DELINEATING NEW WORK FOR ADDITIONAL INFORMATION REGARDING SYSTEMS OR PORTIONS OF SYSTEMS WHERE USE IS TO BE DISCONTINUED.
15. ALL CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR MATERIAL TO ADJACENT CONSTRUCTION.
16. WHERE EXISTING PIPING AND EQUIPMENT, ETC., THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.
17. PORTIONS OF THE EXISTING SYSTEMS MAY BE SHOWN FOR CLARITY EVEN THOUGH IT MAY NOT BE NECESSARY TO MODIFY OR REVISE THEM. ALL EXISTING SYSTEMS ARE SHOWN BASED ON ORIGINAL OR REMODEL BUILING DRAWINGS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.
18. ALL EXISTING FLOOR DRAINS TO BE CLEANED AND FREE FROM DIRT AND DEBRIS. ANY DAMAGED FLOOR DRAINS SHALL BE REPLACED WITH NEW BODIES AND GRATES.
19. WHERE FIXTURES AND PIPING IS TO BE REPLACED WITH NEW, PATCH AND REPAIR ALL FLOORS, WALLS, AND CEILINGS AS REQUIRED FOR NEW WORK.
20. THE EXISTING SANITARY SEWER LINES HAVE BEEN PREVIOUSLY CCTV-SCOPED. ALTHOUGH PRIOR INSPECTION HAS OCCURRED AND AREAS OF PROPOSED PIPE REPLACEMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PERFORM HIGH-PRESSURE HYDRO-JETTING OF ALL EXISTING SANITARY SEWER PIPING WITHIN THE PROJECT LIMITS PRIOR TO ANY NEW CONNECTIONS. ANY CONDITIONS OBSERVED DURING JETTING INCLUDING ADDITIONAL DEFECTS, STRUCTURAL CONCERNS, OBSTRUCTIONS, OR PIPE DETERIORATION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REVIEW AND DIRECTION.

1 FOUNDATION PLUMBING DEMOLITION PLAN - UNIT A
P100A 1/8" = 1'-0"
0 4' 8' 16'

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RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929
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UNIT A

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FOUNDATION PLUMBING DEMOLITION PLAN - UNIT A

P100A

PLAN NOTES

#	NOTE
1	EXISTING WATER LINES UNDER SLAB ARE TO BE ABANDONED IN PLACE AND CAPPED ABOVE GROUND.
2	DISCONNECT, CUT BACK & CAP EXISTING PIPING B.F.F. FOR FUTURE CONNECTION.
3	ROOT INTRUSION OBSERVED IN EXISTING PIPE. CONTRACTOR TO CLEAN AND CLEAR.
4	CONTRACTOR SHALL PROVIDE ENHANCED HYDRO-JETTING EFFORTS AT THIS LOCATION. PRIOR CCTV INSPECTION IDENTIFIED SIGNIFICANT OBSTRUCTIONS WITHIN THIS SEGMENT. ENSURE COMPLETE REMOVAL OF DEBRIS AND VERIFY FULL PIPE FLOW.

A2

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18. ALL EXISTING FLOOR DRAINS TO BE CLEANED AND FREE FROM DIRT AND DEBRIS. ANY DAMAGED FLOOR DRAINS SHALL BE REPLACED WITH NEW BODIES AND GRATES.
19. WHERE FIXTURES AND PIPING IS TO BE REPLACED WITH NEW, PATCH AND REPAIR ALL FLOORS, WALLS, AND CEILINGS AS REQUIRED FOR NEW WORK.
20. THE EXISTING SANITARY SEWER LINES HAVE BEEN PREVIOUSLY CCTV-SCOPED. ALTHOUGH PRIOR INSPECTION HAS OCCURRED AND AREAS OF PROPOSED PIPE REPLACEMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PERFORM HIGH-PRESSURE HYDRO-JETTING OF ALL EXISTING SANITARY SEWER PIPING WITHIN THE PROJECT LIMITS PRIOR TO ANY NEW CONNECTIONS. ANY CONDITIONS OBSERVED DURING JETTING INCLUDING ADDITIONAL DEFECTS, STRUCTURAL CONCERNS, OBSTRUCTIONS, OR PIPE DETERIORATION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REVIEW AND DIRECTION.

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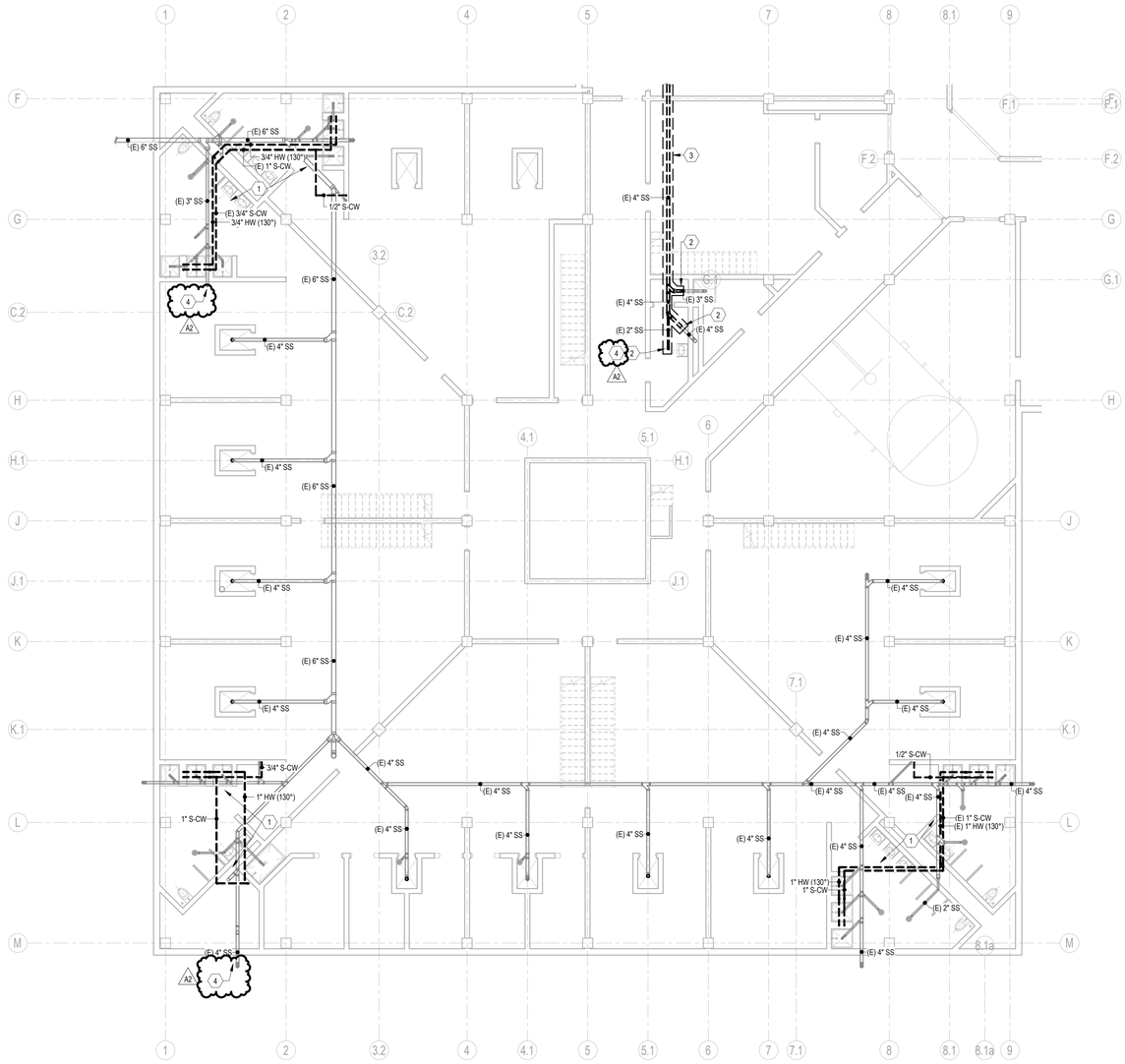

1 P100B **FOUNDATION PLUMBING DEMOLITION PLAN - UNIT B**
1/8" = 1'-0"
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HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

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Justin Barth

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UNIT B

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FOUNDATION PLUMBING DEMOLITION PLAN - UNIT B

P100B

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PLAN NOTES

#	NOTE
1	DEMOLISH ALL PIPING MAINS, HANGERS, INSULATION, AND OTHER FITTINGS. COORDINATE DEMOLITION WITH PHASING OF NEW PLUMBING LINES.
2	DEMOLISH EXISTING INCOMING DOMESTIC WATER SERVICE. BACKFLOW PREVENTER, HANGERS, AND ALL OTHER ASSOCIATED PIPING AND MATERIALS COMPLETE FOR RELOCATION. PATCH AND REPAIR FLOORING AND WALLS AS REQUIRED.
3	DEMOLISH EXISTING WATER SOFTENER SYSTEM INCLUDING RESIN TANKS, BRINE TANK, ALL ASSOCIATED PIPING, HANGERS, VALVES, AND CONCRETE PADS. PATCH AND REPAIR WALLS, FLOORS, AND CEILINGS AS REQUIRED.
4	DEMOLISH EXISTING WATER HEATING SYSTEM INCLUDING WATER HEATERS, EXPANSION TANK, ALL ASSOCIATED PIPING, HANGERS, VALVES, AND CONCRETE PADS. PATCH AND REPAIR WALLS, FLOORS, AND CEILINGS AS REQUIRED.
5	DEMOLISH EXISTING THERMOSTATIC MIXING VALVE. ALL ASSOCIATED PIPING, HANGERS AND, VALVES. PATCH AND REPAIR WALLS, FLOORS, AND CEILINGS AS REQUIRED.
6	DEMOLISH EXISTING HOT WATER RECIRCULATION PUMP. ALL ASSOCIATED PIPING, HANGERS AND, VALVES. PATCH AND REPAIR WALLS, FLOORS, AND CEILINGS AS REQUIRED.
7	DEMOLISH EXISTING INCOMING GAS SERVICE, METER, HANGERS, AND ALL OTHER ASSOCIATED PIPING AND MATERIALS COMPLETE FOR RELOCATION. PATCH AND REPAIR FLOORING AND WALLS AS REQUIRED.
8	DEMOLISH WALL HYDRANT AND REPLACE WITH NEW. PREPARE WALLS, CEILINGS, AND ANY PENETRATIONS FOR NEW FIXTURE. WALL HYDRANT IS TO BE CONNECTED TO A NEW DEDICATED HARD COLD WATER LINE WITH SHUTOFF VALVE.
9	DEMOLISH ALL EXISTING CW, HW, AND GAS PIPING, VALVES, AND ACCESSORIES COMPLETE. PREPARE ROOF PENETRATION FOR NEW GAS LINE INSTALLATION. REPLACE TRENCH DRAIN AND GRATING WITH NEW.
10	DEMOLISH ALL EXISTING KITCHEN FIXTURES, CW, HW, GAS PIPING, VALVES, AND ACCESSORIES COMPLETE. PREPARE ROOF PENETRATION FOR NEW GAS LINE INSTALLATION. REPLACE FLOOR DRAINS AND FLOOR SINKS DRAIN BODIES AND GRATING WITH NEW, IF DAMAGED.

PLAN NOTES

#	NOTE
11	FIXTURES TO REMAIN AS IS. DEMO CW AND HW LINES TO A POINT OF CONNECTING TO NEW MAINS. REPLACE FLOOR DRAIN BODIES AND GRATING WITH NEW, IF DAMAGED.
12	DEMOLISH ALL EXISTING GAS PIPING, VALVES, AND ACCESSORIES COMPLETE. REPLACE WITH NEW.
13	DEMO FLUSH VALVES, TMV'S, ALL VISIBLE CW, HW, WASTE, AND VENT PIPING AND PREPARE TO REPLACE WITH NEW.
14	EXISTING GREASE INTERCEPTOR TO REMAIN AS IS. DEMOLISH AND REWORK ANY GREASE WASTE PIPING AS REQUIRED FROM KITCHEN CHANGES.
15	STORAGE TANK AND PIPING TO REMAIN IN OPERATION UNTIL NEW GEN SET IS OPERABLE. DEMOLISH EXISTING DIESEL STORAGE TANK, EQUIPMENT PAD, PIPING, AND ANY OTHER RELATIONS TO STORAGE TANK.
16	DEMOLISH FIXTURE AND PREPARE WALL, CW, WASTE, AND VENT PIPING TO REPLACE WITH NEW.
17	DEMOLISH EXISTING LAVATORY, TMV, AND ASSOCIATED TRIM. PREPARE WALL AND PLUMBING LINES FOR NEW FIXTURE AS REQUIRED.
18	DEMOLISH EXISTING WATER CLOSET AND FLUSH VALVE. PREPARE WALL AND PLUMBING LINES FOR NEW FIXTURE AS REQUIRED. REPLACE CARRIER WITH NEW. IF DAMAGED DURING DEMOLITION.
19	DEMOLISH EXISTING URINAL AND FLUSH VALVE. PREPARE WALL AND PLUMBING LINES FOR NEW FIXTURE AS REQUIRED. REPLACE CARRIER WITH NEW, IF DAMAGED DURING DEMOLITION.
20	DEMOLISH EXISTING SHOWER CABINET. PREPARE WALL AND PLUMBING LINES FOR NEW FIXTURE AS REQUIRED. REPLACE SHOWER DRAIN WITH NEW BODY AND GRATE, IF DAMAGED.
21	DEMOLISH EXISTING LAVATORY, FAUCET, TMV, AND ASSOCIATED TRIM. PREPARE WALL AND PLUMBING LINES FOR NEW FIXTURE AS REQUIRED.
22	DEMOLISH EXISTING FLOOR SINK. PREPARE FLOORING FOR NEW FLOOR SINK.

PLAN NOTES

#	NOTE
23	ALTERNATE #02: IF ACCEPTED: COMBINATION LAV/TOILET FIXTURE AND FLUSH VALVE AND LAVATORY VALVES TO BE REMOVED AND REPLACED WITH NEW COMBINATION FIXTURE. SEE P210B FOR DETAILS.

PLUMBING PLAN DEMOLITION NOTES

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2. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC SHALL BE REMOVED COMPLETELY WITH PIPING NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
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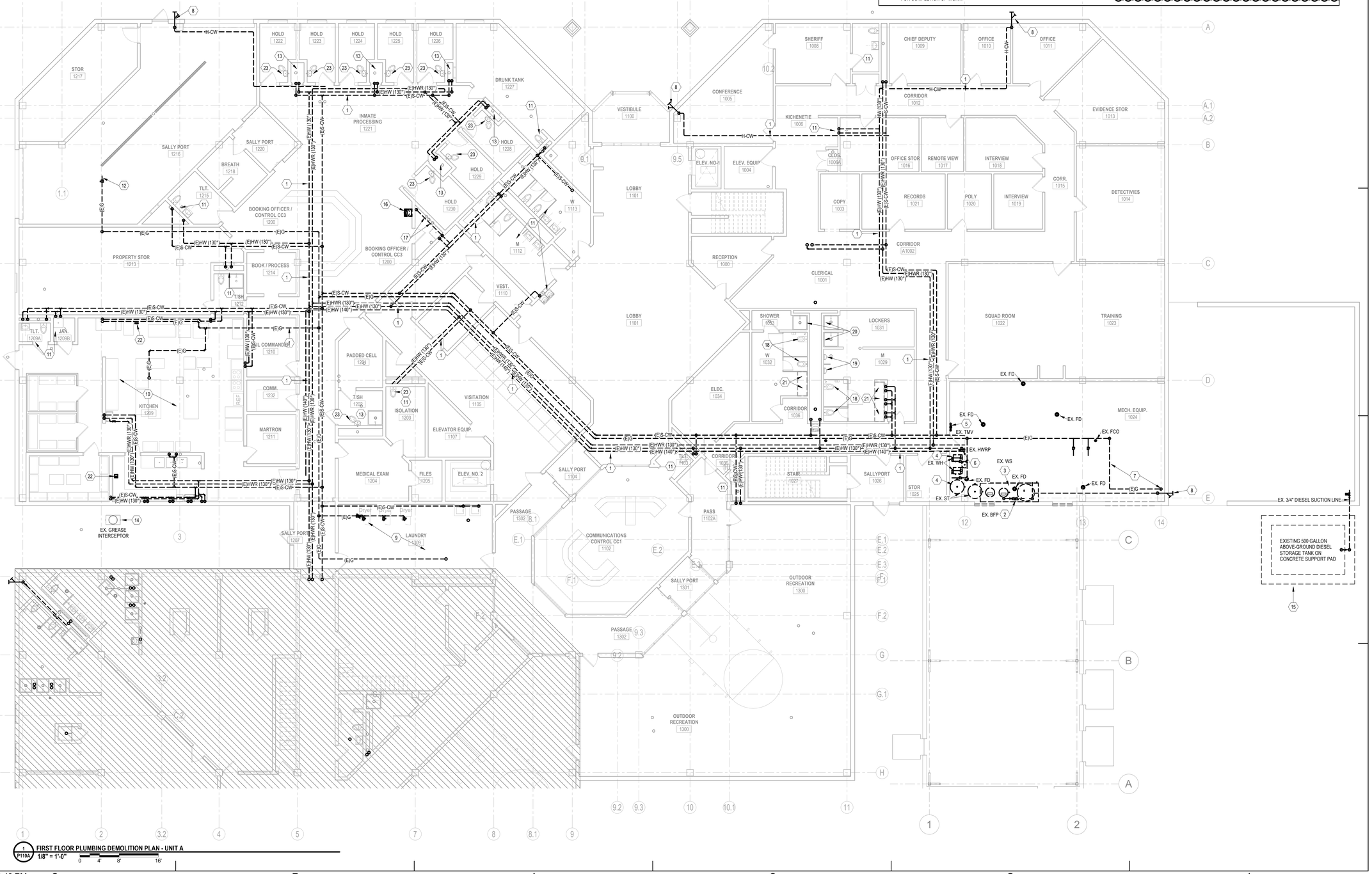
18. ALL EXISTING FLOOR DRAINS TO BE CLEANED AND FREE FROM DIRT AND DEBRIS. ANY DAMAGED FLOOR DRAINS SHALL BE REPLACED WITH NEW BODIES AND GRATES.
19. WHERE FIXTURES AND PIPING IS TO BE REPLACED WITH NEW, PATCH AND REPAIR ALL FLOORS, WALLS, AND CEILINGS AS REQUIRED FOR NEW WORK.
20. THE EXISTING SANITARY SEWER LINES HAVE BEEN PREVIOUSLY CCTV-SCOPED. ALTHOUGH PRIOR INSPECTION HAS OCCURRED AND AREAS OF PROPOSED PIPE REPLACEMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PERFORM HIGH-PRESSURE HYDRO-JETTING OF ALL EXISTING SANITARY SEWER PIPING WITHIN THE PROJECT LIMITS PRIOR TO ANY NEW CONNECTIONS. ANY CONDITIONS OBSERVED DURING JETTING INCLUDING ADDITIONAL DEFECTS, STRUCTURAL CONCERNS, OBSTRUCTIONS, OR PIPE DETERIORATION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REVIEW AND DIRECTION.



1 P110A FIRST FLOOR PLUMBING DEMOLITION PLAN - UNIT A
1/8" = 1'-0"
0 4' 8' 16'

12/12/2025 12:04:40 PM

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929
Designed By: K.I.
Drawn By: D.M.
Checked By: K.I.
Date: 11.21.2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

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UNIT A

N

FIRST FLOOR PLUMBING DEMOLITION PLAN - UNIT A

P110A

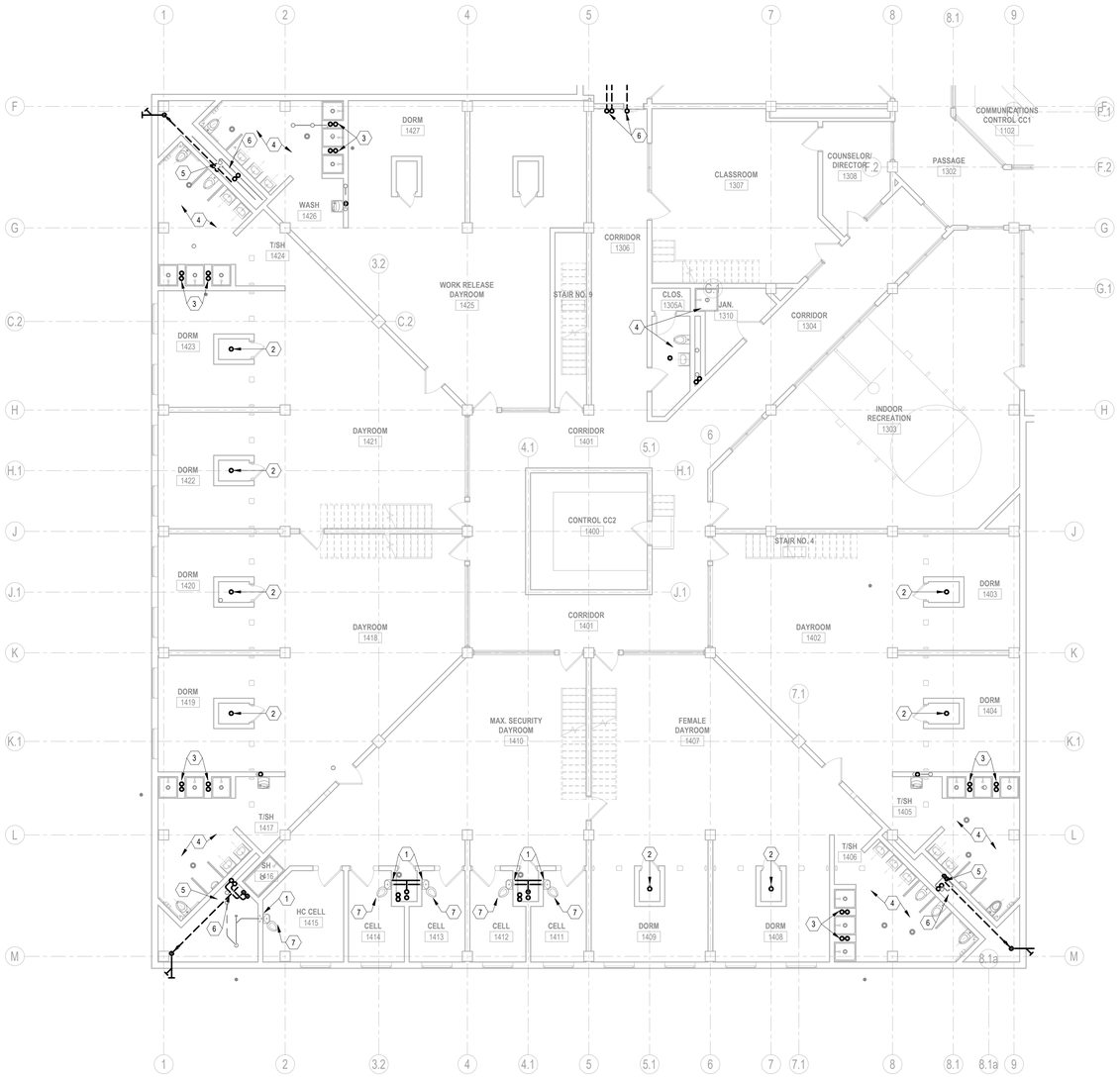
PLAN NOTES

#	NOTE
1	DEMO ALL VISIBLE CW, HW, WASTE, AND VENT PIPING AND PREPARE TO REPLACE WITH NEW.
2	DEMO ALL VISIBLE WASTE AND VENT PIPING AND PREPARE TO REPLACE WITH NEW.
3	ABANDON EXISTING CW AND HW LINES FROM UNDER SLAB. DEMO EXISTING SHOWER VALVE, TRIM, AND HEAD COMPLETE. PATCH AND REPAIR WALLS AND FLOORS AS REQUIRED TO PREPARE FOR NEW INSTALLATION.
4	DEMO FIXTURE AND ALL VISIBLE CW, HW, WASTE, AND VENT PIPING PREPARE TO REPLACE WITH NEW FIXTURE.
5	DISCONNECT WATER LINES GOING UNDER SLAB FROM WATER MAIN LINES AND CAP.
6	DEMO ALL PIPING MAINS, HANGERS, INSULATION, AND OTHER FITTINGS. COORDINATE DEMOLITION WITH PHASING OF NEW PLUMBING LINES.
7	ALTERNATE #02: IF ACCEPTED: COMBINATION LAV/TOILET FIXTURE AND FLUSH VALVE AND LAVATORY VALVES TO BE REMOVED AND REPLACED WITH NEW COMBINATION FIXTURE. SEE P210B FOR DETAILS.

PLUMBING PLAN DEMOLITION NOTES

1. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
2. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC SHALL BE REMOVED COMPLETELY WITH PIPING NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
3. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC SHALL BE REMOVED COMPLETELY WITH PIPING NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
4. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.
5. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION THE DRAWINGS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN THE INTENT OF THESE DRAWINGS IS THAT IN ALL AREAS OF RENOVATION THAT THEY ARE REMOVED, WHETHER OR NOT SHOWN.
6. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
7. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
8. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE PLUMBING DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
9. ANY FIXTURE OR EQUIPMENT TO BE REMOVED AND REUSED OR TURNED OVER TO THE OWNER, AT OWNERS REQUEST, OR AS INDICATED ON THE DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.
10. THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
11. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.
12. THE PLUMBING CONTRACTOR SHALL COORDINATE HIS DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.
13. REMOVAL OF EXISTING FIXTURES AND EQUIPMENT WILL REQUIRE ISOLATING THE PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. INSTALL NEW ISOLATION VALVES WHERE REQUIRED FOR COMPLETION OF WORK.
13. REMOVAL OF EXISTING PLUMBING FIXTURES AND EQUIPMENT, ETC. WILL REQUIRE CAPPING AND SEALING EXISTING MAINS OR BRANCHES AS NECESARY AND REQUIRED TO ALLOW THE REMAINING SYSTEMS TO FULLY OPERATE WITHOUT DEGRADATION. CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK, AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK. REFER TO CONDITIONS AND DIVISION 1 SECTIONS IN THE SPECIFICATIONS.
14. EXISTING PIPING AND EQUIPMENT, ETC., NOT TO BE UTILIZED IN THE COMPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED AS REQUIRED. ALL ENDS OF DISCONTINUED PIPING SHALL BE CAPPED IN THE NEAREST WALL, CEILING OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. OPENINGS LEFT IN WALLS, CEILINGS ETC., WHERE EQUIPMENT AND PIPE, ETC., ARE REMOVED AND NOT REPLACED, SHALL BE PATCHED NEATLY WITH SIMILAR MATERIALTO ADJACENT CONSTRUCTION. REFER TO DRAWINGS DELINEATING NEW WORK FOR ADDITIONAL INFORMATION REGARDING SYSTEMS OR PORTIONS OF SYSTEMS WHERE USE IS TO BE DISCONTINUED.
15. ALL CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR MATERIAL TO ADJACENT CONSTRUCTION.
16. WHERE EXISTING PIPING AND EQUIPMENT, ETC., THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.
17. PORTIONS OF THE EXISTING SYSTEMS MAY BE SHOWN FOR CLARITY EVEN THOUGH IT MAY NOT BE NECESSARY TO MODIFY OR REVISE THEM. ALL EXISTING SYSTEMS ARE SHOWN BASED ON ORIGINAL OR REMODEL BUILING DRAWINGS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.
18. ALL EXISTING FLOOR DRAINS TO BE CLEANED AND FREE FROM DIRT AND DEBRIS. ANY DAMAGED FLOOR DRAINS SHALL BE REPLACED WITH NEW BODIES AND GRATES.
19. WHERE FIXTURES AND PIPING IS TO BE REPLACED WITH NEW, PATCH AND REPAIR ALL FLOORS, WALLS, AND CEILINGS AS REQUIRED FOR NEW WORK.
20. THE EXISTING SANITARY SEWER LINES HAVE BEEN PREVIOUSLY CCTV-SCOPED. ALTHOUGH PRIOR INSPECTION HAS OCCURRED AND AREAS OF PROPOSED PIPE REPLACEMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PERFORM HIGH-PRESSURE HYDRO-JETTING OF ALL EXISTING SANITARY SEWER PIPING WITHIN THE PROJECT LIMITS PRIOR TO ANY NEW CONNECTIONS. ANY CONDITIONS OBSERVED DURING JETTING INCLUDING ADDITIONAL DEFECTS, STRUCTURAL CONCERNS, OBSTRUCTIONS, OR PIPE DETERIORATION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REVIEW AND DIRECTION.

A2



1 P110B **FIRST FLOOR PLUMBING DEMOLITION PLAN - UNIT B**
1/8" = 1'-0" 0 4' 8' 16'

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025

Project #: 800-71929
Designed By: K.I.
Drawn By: D.M.
Checked By: K.I.
Date: 11.21.2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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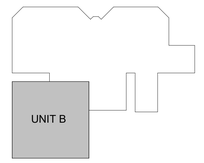

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FIRST FLOOR PLUMBING DEMOLITION PLAN - UNIT B

P110B

PLAN NOTES

#	NOTE
1	PROVIDE ALL NEW CW, HW, VALVES, TMV, HANGERS, AND INSULATION. REPLACE FLOOR DRAINS WITH NEW DRAIN BODIES AND GRATING. PROVIDE SHUTOFF VALVES NECESSARY TO ISOLATE EACH FIXTURE.
2	PROVIDE ALL NEW CW, HW, VALVES, HANGERS, AND INSULATION.
3	DEMOLISH EXISTING GAS LINE, TYPICAL, AT PENETRATION. PREPARE ROOFING AND PENETRATION FOR NEW GAS LINE AND VALVES.

A2

PLUMBING PLAN DEMOLITION NOTES

1. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
2. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
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4. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.
5. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION THE DRAWINGS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN THE INTENT OF THESE DRAWINGS IS THAT IN ALL AREAS OF RENOVATION THAT THEY ARE REMOVED, WHETHER OR NOT SHOWN.
6. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
7. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
8. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE PLUMBING DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
9. ANY FIXTURE OR EQUIPMENT TO BE REMOVED AND REUSED OR TURNED OVER TO THE OWNER, AT OWNERS REQUEST, OR AS INDICATED ON THE DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.
10. THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
11. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.
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14. EXISING PIPING AND EQUIPMENT, ETC., NOT TO BE UTILIZED IN THE COMPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED AS REQUIRED. ALL ENDS OF DISCONTINUED PIPING SHALL BE CAPPED IN THE NEAREST WALL, CEILING OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. OPENINGS LEFT IN WALLS, CEILINGS ETC., WHERE EQUIPMENT AND PIPE, ETC., ARE REMOVED AND NOT REPLACED, SHALL BE PATCHED NEATLY WITH SIMILAR MATERIALTO ADJACENT CONSTRUCTION. REFER TO DRAWINGS DELINEATING NEW WORK FOR ADDITIONAL INFORMATION REGARDING SYSTEMS OR PORTIONS OF SYSTEMS WHERE USE IS TO BE DISCONTINUED.
15. ALL CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR MATERIAL TO ADJACENT CONSTRUCTION.
16. WHERE EXISTING PIPING AND EQUIPMENT, ETC., THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.
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18. ALL EXISTING FLOOR DRAINS TO BE CLEANED AND FREE FROM DIRT AND DEBRIS. ANY DAMAGED FLOOR DRAINS SHALL BE REPLACED WITH NEW BODIES AND GRATES.
19. WHERE FIXTURES AND PIPING IS TO BE REPLACED WITH NEW, PATCH AND REPAIR ALL FLOORS, WALLS, AND CEILINGS AS REQUIRED FOR NEW WORK.
20. THE EXISTING SANITARY SEWER LINES HAVE BEEN PREVIOUSLY CCTV-SCOPED. ALTHOUGH PRIOR INSPECTION HAS OCCURRED AND AREAS OF PROPOSED PIPE REPLACEMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PERFORM HIGH-PRESSURE HYDRO-JETTING OF ALL EXISTING SANITARY SEWER PIPING WITHIN THE PROJECT LIMITS PRIOR TO ANY NEW CONNECTIONS. ANY CONDITIONS OBSERVED DURING JETTING INCLUDING ADDITIONAL DEFECTS, STRUCTURAL CONCERNS, OBSTRUCTIONS, OR PIPE DETERIORATION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REVIEW AND DIRECTION.

A2

CLERICAL COURT COORD. 3016
CLERICAL 3017
KITCHEN. 3015
RECEPTION 3018
REFEREE 3014
EVID. STOR. 3013
PROB OFFICE 3019
PROB OFFICE 3022
OFFICE 3012
OFFICE 3011
JURY 3006
SEATING 3024
LOBBY/WAITING 3000
WAITING 3101
RECEP. 3102
OFFICE 3104
OFFICE 3105
OFFICE 3106
CORRIDOR 3112
OFFICE 3107
OFFICE 3110
OFFICE 3108
SERVER 3109
ELEV. NO. 1
JAN. 3032
OFFICE 3111
STAIR NO. 1
MENS 3114
FILE STOR. 3124
CORRIDOR 3118
WOMENS 3115
CONF. 3121
STOR. 3119
OFFICE 3126
CORRIDOR 3130
CORRIDOR 3128
REF.
T. 3020
T. 3021
T 3009
T 3008
RECORDER 3029
JUDGE 3028
WITNESS 3027
PASSAGE 3002
HEARING 3001
COURT SERVICES 3135
PROB. OFFICE 3133C
INTERVIEW 3133B
DN
JUDGE 3010
STOR. 3005
ELEV. NO. 2
LOBBY 3004
COORIDOR 3003
OFFICE 3132
3.2
C.2

1 SECOND FLOOR PLUMBING DEMOLITION PLAN - UNIT A
P120A 1/8" = 1'-0"
0 4' 8' 16'

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DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929
Designed By: K.I.
Drawn By: D.M.
Checked By: K.I.
Date: 11.21.2025

DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF INDIANA
PROFESSIONAL ENGINEER
Dustin Barth

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UNIT A

N

SECOND FLOOR PLUMBING DEMOLITION PLAN - UNIT A

P120A

PLAN NOTES

	NOTE
1	DEMO ALL VISIBLE CW, HW, WASTE, AND VENT PIPING AND PREPARE TO REPLACE WITH NEW.
2	DEMO PLUMBING FIXTURES AND ALL VISIBLE CW, HW, WASTE, AND VENT PIPING AND PREPARE TO REPLACE WITH NEW. REPLACE FLOOR DRAINS AND REPLACE DRAIN WITH NEW BODIES AND GRATING.
3	DEMO ALL VISIBLE CW, HW, WASTE, AND VENT PIPING AND PREPARE TO REPLACE WITH NEW. REPLACE SHOWER DRAIN WITH NEW BODIES AND GRATING.
4	DEMOLISH ALL PIPING,MAINS, HANGERS, INSULATION, AND OTHER FITTINGS. COORDINATE DEMOLITION WITH PHASING OF NEW PLUMBING LINES.
5	ALTERNATE #02: IF ACCEPTED: COMBINATION LAV/TOILET FIXTURE AND FLUSH VALVE AND LAVATORY VALVES TO BE REMOVED AND REPLACED WITH NEW COMBINATION FIXTURE. IF NOT ACCEPTED, FIXTURE TO REMAIN AS-IS. SEE P2208 FOR DETAILS.
6	ALTERNATE #02: IF ACCEPTED: SHOWER PANEL FIXTURE AND VALVES TO BE REMOVED AND REPLACED WITH NEW SHOWER PANEL FIXTURE. IF NOT ACCEPTED, FIXTURE TO REMAIN AS-IS. SEE P2208 FOR DETAILS.

A2

PLUMBING PLAN DEMOLITION NOTES

1. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
2. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
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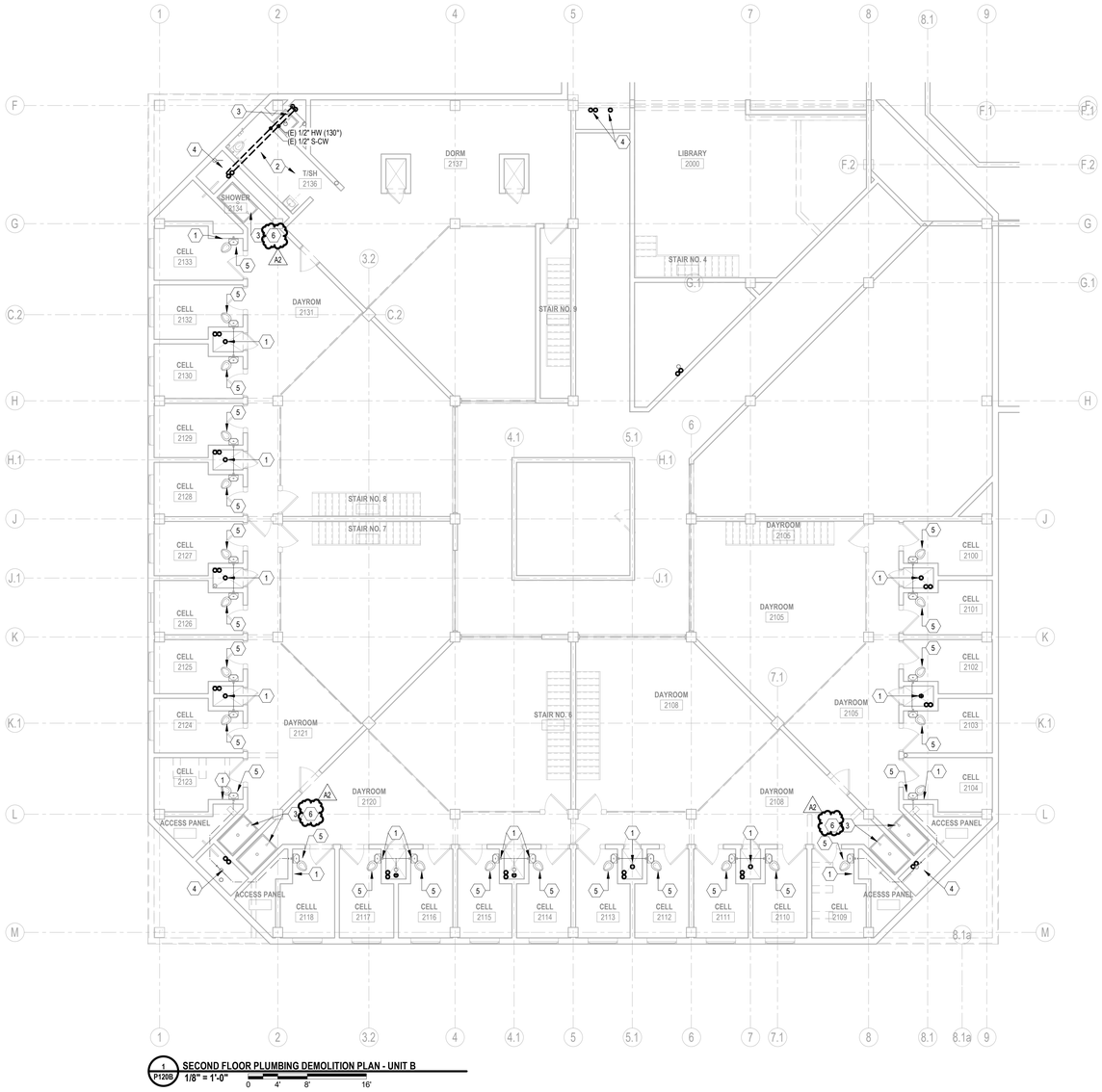

1 P120B **SECOND FLOOR PLUMBING DEMOLITION PLAN - UNIT B**
1/8" = 1'-0"
0 4' 8' 16'

RQAW

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HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929

Designed By: K.I.

Drawn By: D.M.

Checked By: K.I.

Date: 11.21.2025

DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF
INDIANA
PROFESSIONAL ENGINEER

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UNIT B

N

SECOND FLOOR PLUMBING DEMOLITION PLAN - UNIT B

P120B

PLAN NOTES

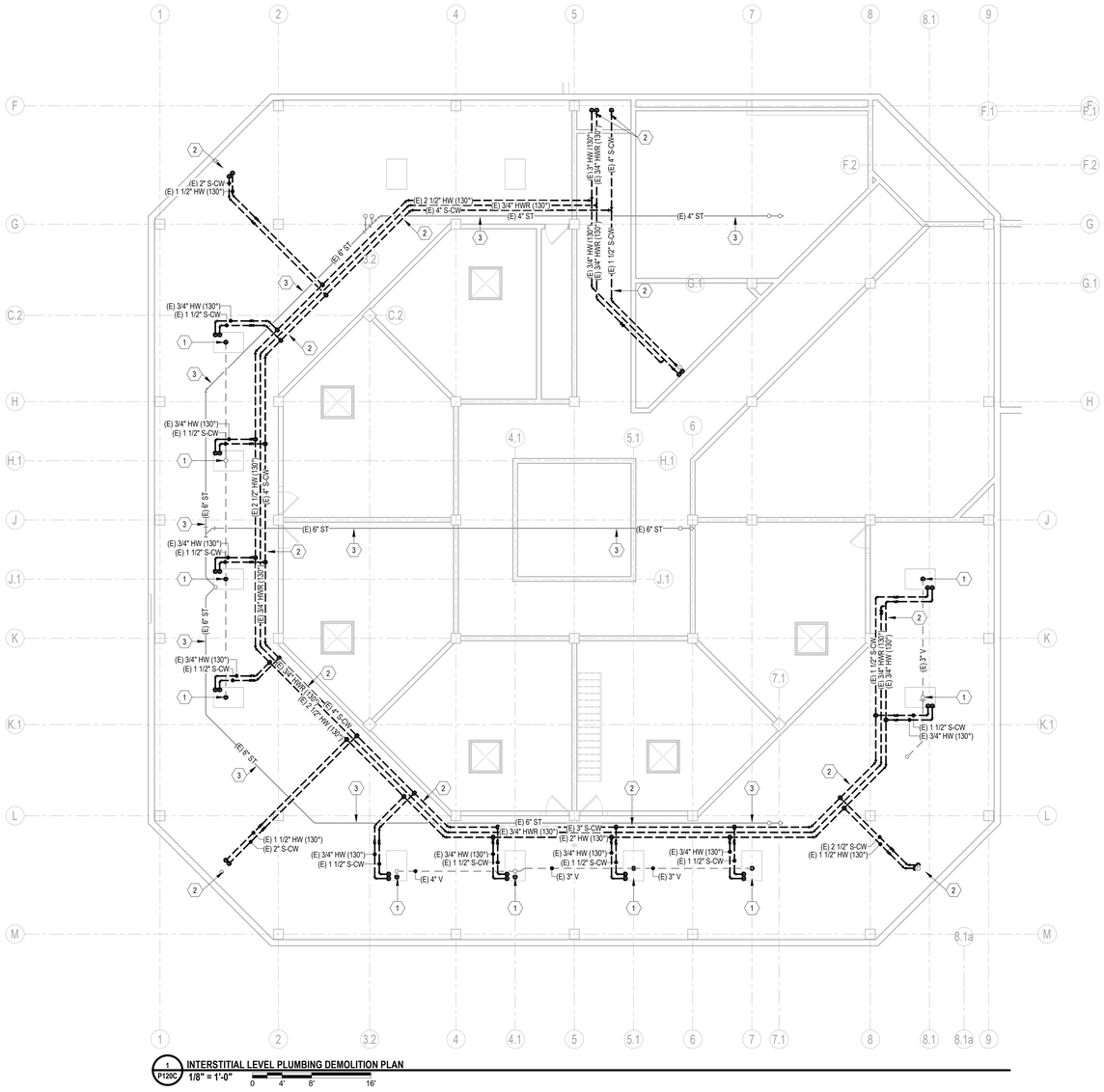
#	NOTE
1	DEMOLISH ALL CW, HW, WASTE AND VENT PIPING UPIDN IN CHASE. PROVIDE ALL NEW CW, HW, VALVES, HANGERS, WASTE AND VENT PIPING. SEE P220C FOR DETAILS.
2	DEMOLISH ALL PIPING MAINS, HANGERS, INSULATION, AND OTHER FITTINGS. COORDINATE DEMOLITION WITH PHASING OF NEW PLUMBING LINES.
3	ASSESS STORM DRAINS, PANS, PIPING, HANGERS, AND ANY INSULATION. REPLACE WITH NEW IF DAMAGED.

A2

PLUMBING PLAN DEMOLITION NOTES

1. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
2. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
3. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
4. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.
5. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION THE DRAWINGS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN THE INTENT OF THESE DRAWINGS IS THAT IN ALL AREAS OF RENOVATION THAT THEY ARE REMOVED, WHETHER OR NOT SHOWN.
6. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
7. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
8. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE PLUMBING DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
9. ANY FIXTURE OR EQUIPMENT TO BE REMOVED AND REUSED OR TURNED OVER TO THE OWNER, AT OWNERS REQUEST, OR AS INDICATED ON THE DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.
10. THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
11. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.
12. THE PLUMBING CONTRACTOR SHALL COORDINATE HIS DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.
13. REMOVAL OF EXISTING FIXTURES AND EQUIPMENT WILL REQUIRE ISOLATING THE PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. INSTALL NEW ISOLATION VALVES WHERE REQUIRED FOR COMPLETION OF WORK.
13. REMOVAL OF EXISTING PLUMBING FIXTURES AND EQUIPMENT, ETC. WILL REQUIRE CAPPING AND SEALING EXISTING MAINS OR BRANCHES AS NECESARY AND REQUIRED TO ALLOW THE REMAINING SYSTEMS TO FULLY OPERATE WITHOUT DEGRADATION. CONTRACTOR SHALL PROVIDE PROTECTIVE PLASTIC DROP CLOTHS TO PROTECT THE EXISTING OCCUPIED AREAS AND EQUIPMENT FROM DUST AND DEBRIS DURING THE CONSTRUCTION WORK, AND SHALL CLEAN THE AREAS OF ALL CONSTRUCTION DIRT DAILY, AND UPON COMPLETION OF THE WORK. REFER TO CONDITIONS AND DIVISION 1 SECTIONS IN THE SPECIFICATIONS.
14. EXISING PIPING AND EQUIPMENT, ETC., NOT TO BE UTILIZED IN THE COMPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED AS REQUIRED. ALL ENDS OF DISCONTINUED PIPING SHALL BE CAPPED IN THE NEAREST WALL, CEILING OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. OPENINGS LEFT IN WALLS, CEILINGS ETC., WHERE EQUIPMENT AND PIPE, ETC., ARE REMOVED AND NOT REPLACED, SHALL BE PATCHED NEATLY WITH SIMILAR MATERIALTO ADJACENT CONSTRUCTION. REFER TO DRAWINGS DELINEATING NEW WORK FOR ADDITIONAL INFORMATION REGARDING SYSTEMS OR PORTIONS OF SYSTEMS WHERE USE IS TO BE DISCONTINUED.
15. ALL CUTTING AND CHANNELING OF EXISTING BUILDING SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT REMOVAL OF EXCESS MATERIALS. THIS CONTRACTOR SHALL PATCH AND REPLACE WITH MATERIAL SIMILAR MATERIAL TO ADJACENT CONSTRUCTION.
16. WHERE EXISTING PIPING AND EQUIPMENT, ETC., THAT ARE TO BE UTILIZED IN THE COMPLETED PROGRAM CONFLICT WITH NEW CONSTRUCTION AND THE REQUIRED DEMOLITION, THEY SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICE.
17. PORTIONS OF THE EXISTING SYSTEMS MAY BE SHOWN FOR CLARITY EVEN THOUGH IT MAY NOT BE NECESSARY TO MODIFY OR REVISE THEM. ALL EXISTING SYSTEMS ARE SHOWN BASED ON ORIGINAL OR REMODEL BUILING DRAWINGS. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.
18. ALL EXISTING FLOOR DRAINS TO BE CLEANED AND FREE FROM DIRT AND DEBRIS. ANY DAMAGED FLOOR DRAINS SHALL BE REPLACED WITH NEW BODIES AND GRATES.
19. WHERE FIXTURES AND PIPING IS TO BE REPLACED WITH NEW, PATCH AND REPAIR ALL FLOORS, WALLS, AND CEILINGS AS REQUIRED FOR NEW WORK.
20. THE EXISTING SANITARY SEWER LINES HAVE BEEN PREVIOUSLY CCTV-SCOPED. ALTHOUGH PRIOR INSPECTION HAS OCCURRED AND AREAS OF PROPOSED PIPE REPLACEMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PERFORM HIGH-PRESSURE HYDRO-JETTING OF ALL EXISTING SANITARY SEWER PIPING WITHIN THE PROJECT LIMITS PRIOR TO ANY NEW CONNECTIONS. ANY CONDITIONS OBSERVED DURING JETTING INCLUDING ADDITIONAL DEFECTS, STRUCTURAL CONCERNS, OBSTRUCTIONS, OR PIPE DETERIORATION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REVIEW AND DIRECTION.

A2



1 P120C **INTERSTITIAL LEVEL PLUMBING DEMOLITION PLAN**
1/8" = 1'-0"
0 4' 8' 16'

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929
Designed By: K.I.
Drawn By: D.M.
Checked By: K.I.
Date: 11.21.2025

DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF
INDIANA
PROFESSIONAL ENGINEER
Dustin Barth

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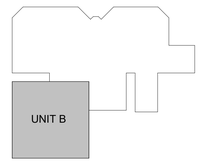

INTERSTITIAL LEVEL PLUMBING DEMOLITION PLAN

P120C

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PLAN NOTES

#	NOTE
1	4" STORM LEADER UP TO GUTTER DRAIN.
2	4" STORM UP TO EXTERIOR CLEANOUT.
3	NEW RELOCATED INCOMING GAS SERVICE TO SITE GAS SYSTEM. SEE SITE/CIVIL PLANS FOR CONTINUATION.
4	GAS MAIN A.F.G. TO GAS METER/SERVICE.
5	NEW RELOCATED INCOMING 4" FIRE SUPPRESSION SERVICE TO SITE WATER SYSTEM. I.E. -5'-0" B.F.F. SEE SITE/CIVIL PLANS FOR CONTINUATION.
6	NEW RELOCATED INCOMING 4" DOMESTIC WATER SERVICE TO SITE WATER SYSTEM. I.E. -5'-0" B.F.F. SEE SITE/CIVIL PLANS FOR CONTINUATION.
7	4" CW UP A.F.F.
8	4" FIRE UP A.F.F.
9	4" WASTE UP TO FLOOR DRAIN.
10	3" VENT UP.
11	3" WASTE UP TO FLOOR DRAIN.
12	4" WASTE UP TO FLOOR CLEANOUT.
13	CONNECT TO EXISTING WASTE LINE. FIELD VERIFY LINE SIZE, LOCATION, INVERT, AND MATERIAL.
14	4" GAS UP.

(E) 4" OW
(E) 6" SS
(E) 4" SS
(E) 6" SS
(E) 4" SS
(E) 4" SS
(E) 3/4" S-CW
(E) 4" SS
(E) 4" SS
(E) 4" SS
(E) 2" SS
SP-1
(E) 4" SS
(E) 3" SS
(E) 3/4" S-CW
(E) 4" SS
(E) 6" SS
(E) 6" SS
(E) 3/4" S-CW
(E) 4" SS
(E) 4" SS
(E) 3" SS
(E) 2" SS
(E) 3/4" S-CW
(E) 6" SS
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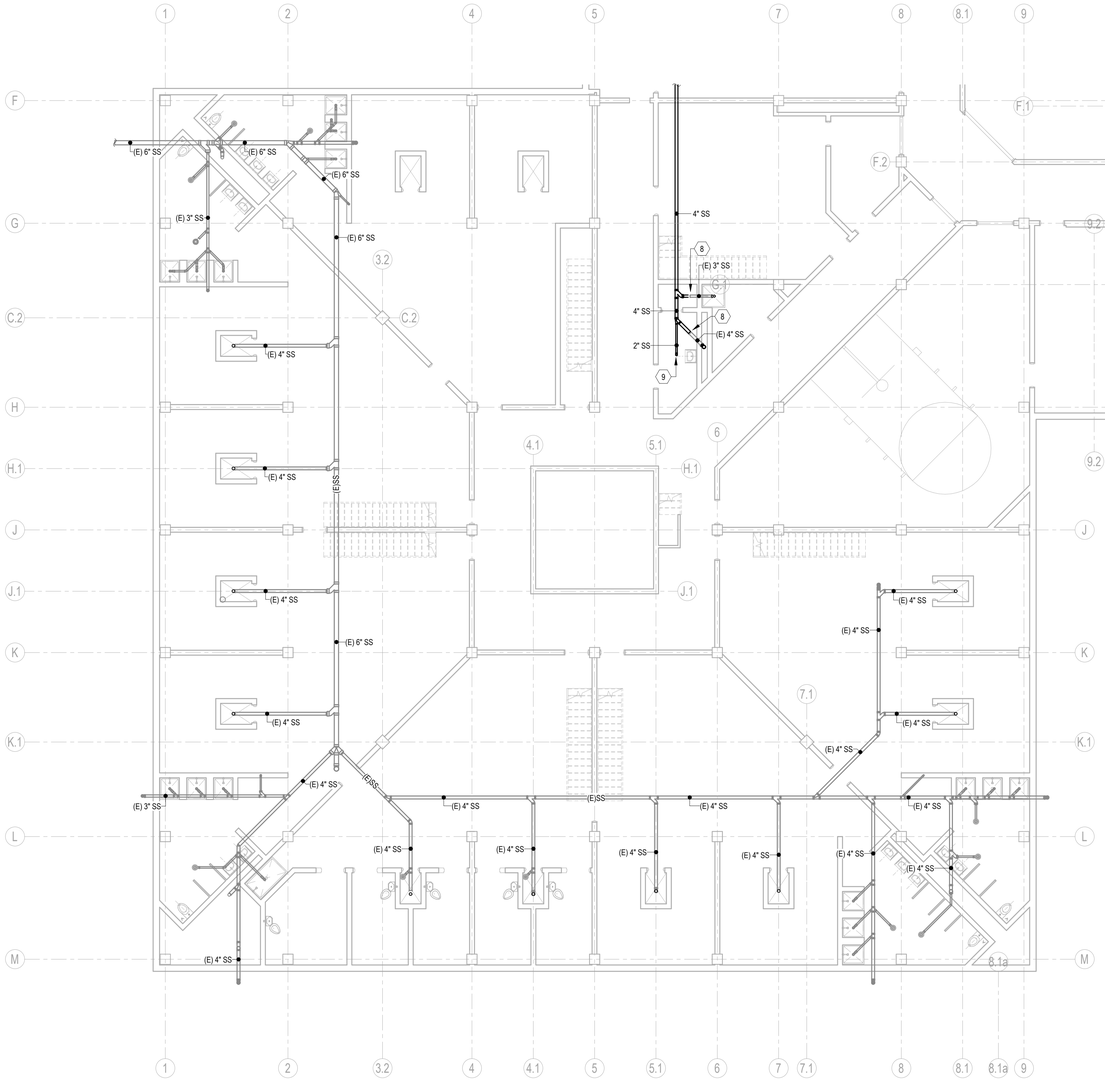
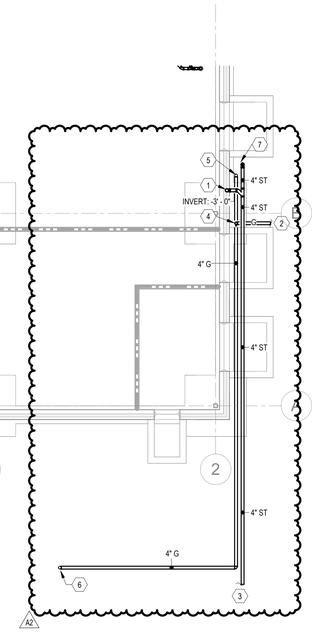
(E) 2" SS
(E) 3" SS
(E) 2" SS
SP-1
(E) 3" SS
(E) 4" SS
(E) 4" SS
(E) 4" GW
(E) 2" GW
(E) 4" GW
(E) 4" GW
EX. GREASE INTERCEPTOR
4" SS
4" SS
4" SS

PLAN NOTES

#	NOTE
1	4" STORM LEADER UP TO GUTTER DRAIN.
2	NEW RELOCATED INCOMING GAS SERVICE TO SITE GAS SYSTEM. SEE SITE/CIVIL PLANS FOR CONTINUATION.
3	4" STORM TO SITE STORM SYSTEM. SEE SITE/CIVIL PLANS FOR CONTINUATION.
A2	GAS METER PER SITE/CIVIL PLANS.
5	4" GAS UP (10,282 MBH)..
6	4" GAS UP TO SERVE EMERGENCY GENERATOR (10,282 MBH)
7	4" STORM UP TO ROOF DRAIN.
8	CONNECT TO EXISTING WASTE LINE. FIELD VERIFY LINE SIZE, LOCATION, INVERT, AND MATERIAL.
9	NEW 2" WASTE UP TO EXISTING FLOOR DRAIN.NG WASTE LINE. FIELD VERIFY LINE SIZE, LOCATION, INVERT, AND MATERIAL.



1 P200B **FOUNDATION PLUMBING PLAN - UNIT B**
1/8" = 1'-0"
0 4' 8' 16'



RQAW

DCCM

BID SET

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HARRISON COUNTY JAIL MEP RENOVATION

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#	Revision	Date
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929
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Drawn By: D.M.
Checked By: K.I.
Date: 11.21.2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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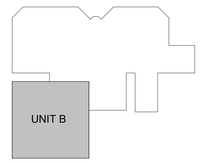

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FOUNDATION PLUMBING PLAN - UNIT B

P200B

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PLAN NOTES

#	NOTE
1	REPLACE WALL HYDRANT WITH NEW. PREPARE WALLS, CEILINGS, AND ANY PENETRATIONS FOR NEW FIXTURE. WALL HYDRANT IS TO BE CONNECTED TO A NEW DEDICATED HARD COLD WATER LINE WITH SHUTOFF VALVE.
2	EXISTING PLUMBING FIXTURES TO REMAIN AS IS. CONNECT EXISTING CW AND HW LINES TO NEW WATER MAINS. PROVIDE ACCESSIBLE SHUT OFF VALVES.
3	ALTERNATE #2: IF ACCEPTED: NEW COMBINATION LAVATOILET FIXTURE. PROVIDE WITH ELECTRONIC CONTROL VALVES AND PUSH BUTTONS. ALL MODIFICATIONS SHALL BE INTERCONNECTED WITH THE WATER MANAGEMENT SYSTEM.
4	PIPING NOT TO BE DISCONNECTED OR REMOVED UNTIL THIS FINAL CONNECTION IS MADE. PLUMBING SYSTEMS WITHIN PHASE TO REMAIN IN OPERATION UNTIL TRANSITION. COORDINATE PHASING WITH CLIENT AND ALL TRADES.
5	1 1/2" S-CW AND 3/4" HW(130°F) DROP IN CHASE. PROVIDE NEW ACCESSIBLE SHUT OFF VALVES.
6	3/4" S-CW AND 3/4" HW(130°F) DROP. PROVIDE NEW ACCESSIBLE SHUT OFF AND CHECK VALVES.
7	1/2" S-CW AND 1/2" HW(130°F) DROP. PROVIDE NEW ACCESSIBLE SHUT OFF VALVES.
8	1 1/4" S-CW DROP TO FLUSH VALVE FOR FLOOR DRAINS IN ROOMS 1227 AND 1201. PROVIDE NEW FLUSH VALVE AND SHUT OFF VALVES FOR EACH LINE GOING UNDER SLAB.
9	2 1/2" S-CW AND 1" HW(130°F) DROP IN CHASE. PROVIDE NEW ACCESSIBLE SHUT OFF VALVES. A2
10	CONNECT 1 1/2" S-CW AND 3/4" HW(130°F) TO EXISTING LINES. PROVIDE NEW ACCESSIBLE SHUT OFF VALVES. REPLACE WASTE AND VENT PIPING WITH NEW.
11	CONNECT 1/2" S-CW AND 1/2" HW(130°F) TO EXISTING LINES. PROVIDE NEW ACCESSIBLE SHUT OFF VALVES. REPLACE WASTE AND VENT PIPING WITH NEW.
12	CONNECT 3/4" S-CW TO EXISTING LINE. PROVIDE NEW ACCESSIBLE SHUT OFF VALVE.

PLAN NOTES

#	NOTE
13	2" S-CW AND 1" HW(130°F) DROP IN CHASE. PROVIDE NEW ACCESSIBLE SHUT OFF VALVES.
14	CONNECT NEW EWC-1 TO EXISTING WASTE, VENT, AND S-CW LINES.
15	EXISTING HOSE BIBB TO REMAIN. REFEED WITH HARD COLD WATER.
16	ALTERNATE #2: IF ACCEPTED: NEW SHOWER PANEL FIXTURE. PROVIDE WITH ELECTRONIC CONTROL VALVES AND PUSH BUTTONS. ALL MODIFICATIONS SHALL BE INTERCONNECTED WITH THE WATER MANAGEMENT SYSTEM. A2

1 P210A **FIRST FLOOR PLUMBING PLAN - UNIT A**
1/8" = 1'-0"
0 4' 8' 16'

12/12/2025 12:05:47 PM

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UNIT A

N

FIRST FLOOR PLUMBING PLAN - UNIT A

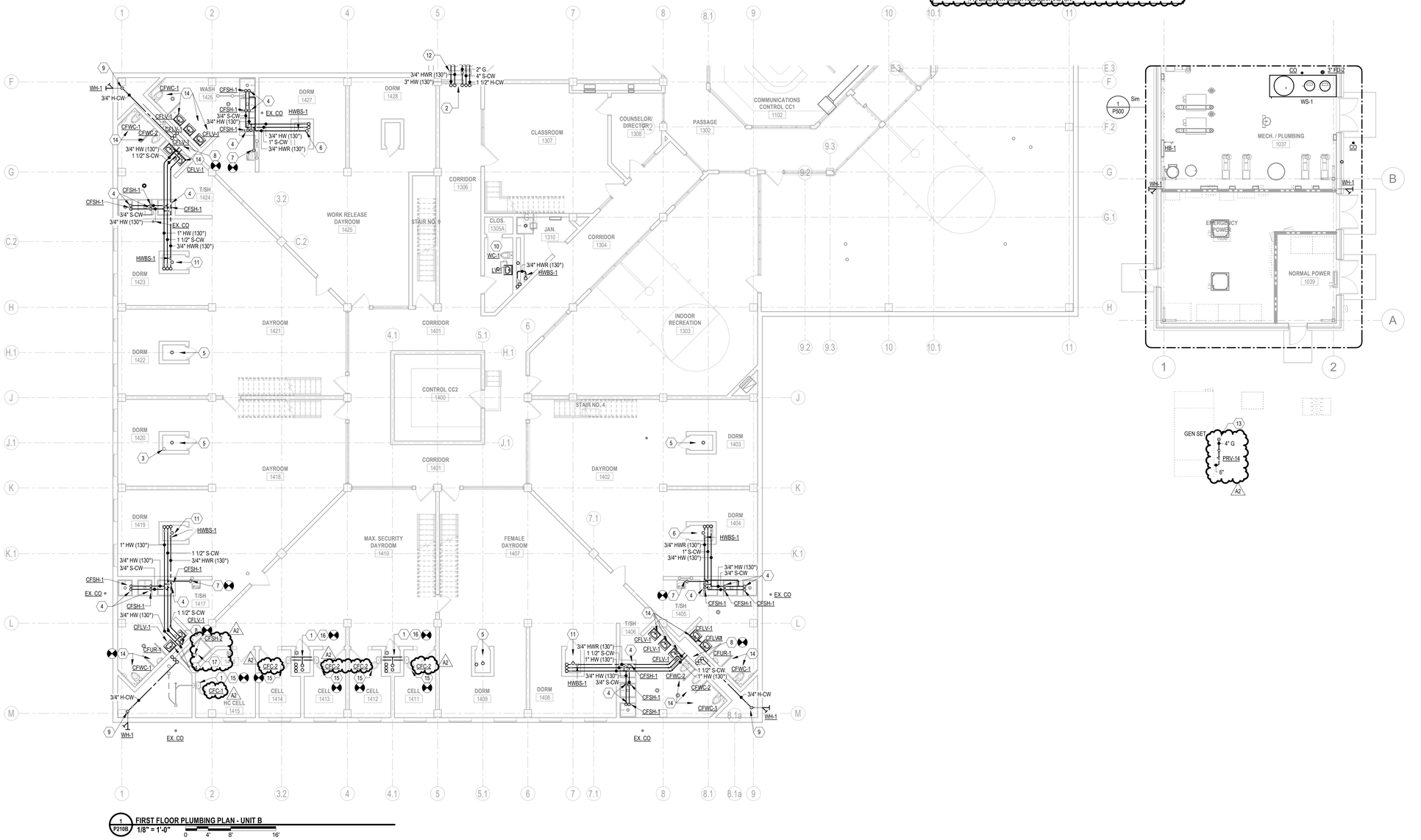
P210A

PLAN NOTES

#	NOTE
1	PROVIDE ALL NEW TMV, FLUSH VALVE, CW, HW, VALVES, HANGERS, INSULATION, AND OTHER FITTINGS. PROVIDE ACCESSIBLE SHUTOFF VALVES IN CHASE TO ISOLATE EACH FIXTURE. PROVIDE NEW HWR (130°F) WITH HWBS-1 WITHIN CHASE.
2	4" S-CW, 3" HW (130°F), 3/4" HWR (130°F), 1 1/2" H-CW, AND 2" GAS UP.
3	INSPECT EXISTING 8" STORM LEADER. IF PIPING IS DAMAGED OR LEAKING, REPLACE WITH NEW PIPING AND HANGERS AS REQUIRED.
4	1/2" S-CW AND HW (130°F) DROP TO WALL MOUNTED SHOWER UNIT. REPLACE SHOWER DRAIN BODY AND GRATING WITH NEW. ALL PIPING ON CEILING TO BE IN PROTECTED SHROUD.
5	PROVIDE ALL NEW WASTE AND VENT PIPING THAT IS VISIBLE.
6	NEW 1" S-CW, 3/4" HW (130°F), AND 3/4" HWR (130°F) UP. PROVIDE ACCESSIBLE SHUTOFF VALVES IN CHASE TO ISOLATE EACH FIXTURE.
7	1/2" S-CW DROP TO ELECTRIC WATER COOLER. ALL PIPING ON WALL AND CEILING TO BE IN PROTECTED SHROUD.
8	PROVIDE ACCESS PANEL AND CONNECT NEW 3/4" HW (130°F) AND 1 1/2" S-CW LINES TO FIXTURES WITHIN CHASE. ALL PIPING ON WALLS AND CEILINGS TO BE IN PROTECTED SHROUD.
9	REMOVE WALL HYDRANT WITH NEW. PATCH NEW WALLS, CEILINGS AND ANY PENETRATIONS FOR NEW FIXTURE. WALL HYDRANT IS TO BE CONNECTED TO A NEW DEDICATED HARD COLD WATER LINE WITH SHUTOFF VALVE.
10	PROVIDE NEW FIXTURE, FLUSH VALVE, TMV, CW, HW, VALVES, HANGERS, CARRIERS AND INSULATION. REPLACE WASTE AND VENT PIPING IF DAMAGED DURING DEMOLITION. PROVIDE NEW 3/4" HWR (130°F) WITH HWBS-1.
11	NEW 1 1/2" S-CW, 1" HW (130°F), AND 3/4" HWR (130°F) UP. PROVIDE ACCESSIBLE SHUTOFF VALVES IN CHASE TO ISOLATE EACH FIXTURE.
12	PIPING TO REMAIN UNTIL INSTALLATION OF NEW SYSTEMS IS COMPLETE. COORDINATE PHASING WITH CLIENT AND CONTRACTOR.

PLAN NOTES

#	NOTE
13	4" GAS DOWN (10,282 MBH).
14	PROVIDE NEW FIXTURE, FLUSH VALVES, CW, HW, VALVES, HANGERS, CARRIERS AND INSULATION. REPLACE WASTE AND VENT PIPING IF DAMAGED DURING DEMOLITION.
15	ALTERNATE #2: IF ACCEPTED: NEW COMBINATION LAVATORY FIXTURE. PROVIDE WITH ELECTRONIC CONTROL VALVES AND PUSH BUTTONS. ALL MODIFICATIONS SHALL BE INTERCONNECTED WITH THE WATER MANAGEMENT SYSTEM.
16	NEW 2" S-CW, 1" HW, 3/4" HWR , 4" WASTE STACK & 2" VENT STACK UP AND DN. IN CHASE.
17	ALTERNATE #2: IF ACCEPTED: NEW SHOWER PANEL FIXTURE. PROVIDE WITH ELECTRONIC CONTROL VALVES AND PUSH BUTTONS. ALL MODIFICATIONS SHALL BE INTERCONNECTED WITH THE WATER MANAGEMENT SYSTEM.



1 P210B **FIRST FLOOR PLUMBING PLAN - UNIT B**
1/8" = 1'-0"
0 4' 8' 16'

RQAW

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Justin Barth

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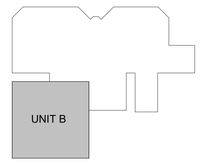

FIRST FLOOR PLUMBING PLAN - UNIT B

P210B

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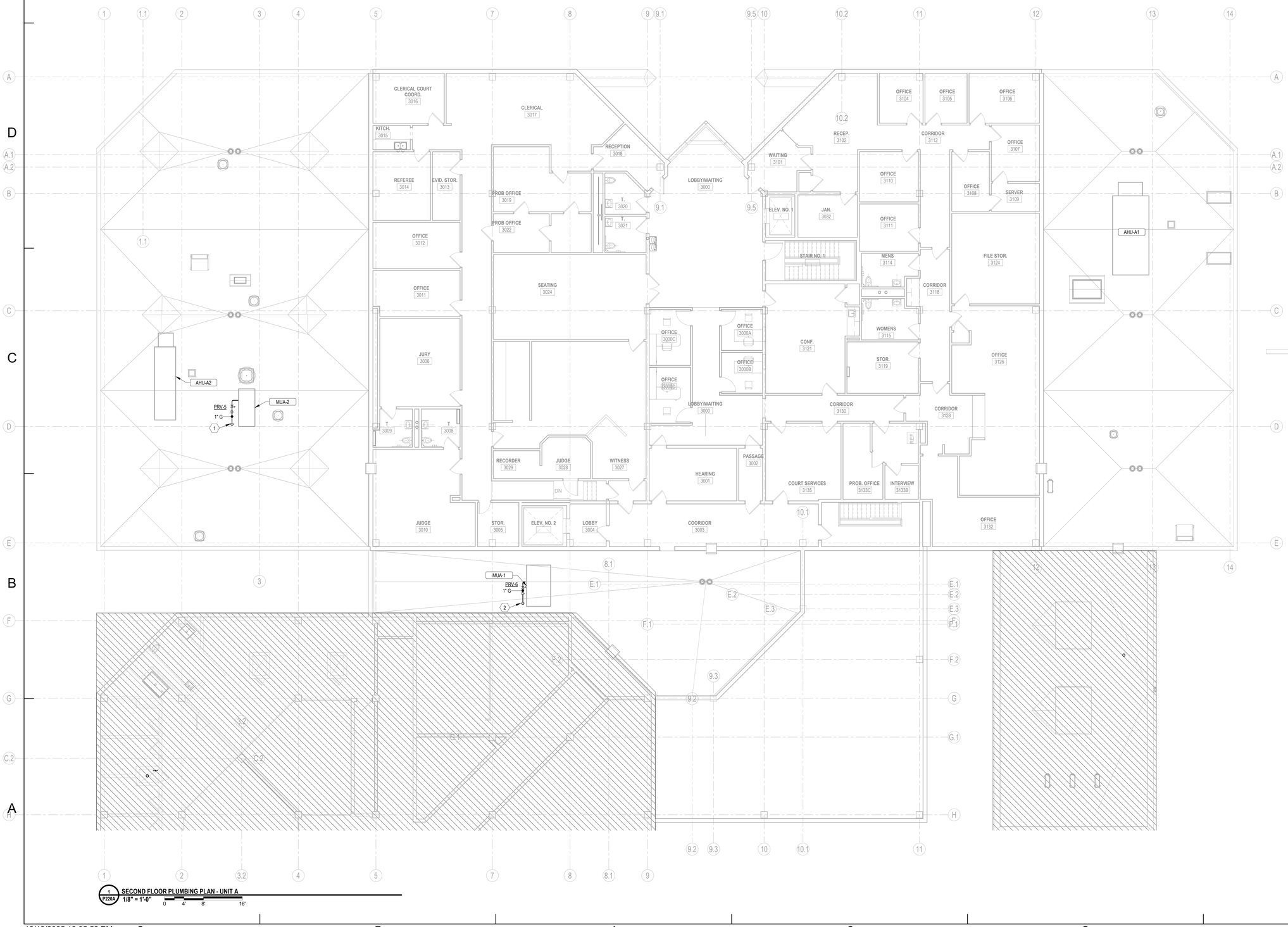
PLAN NOTES

#	NOTE
1	1" GAS DOWN (396 MBH).
2	1" GAS DOWN (400 MBH).

A2



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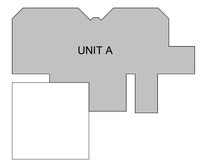


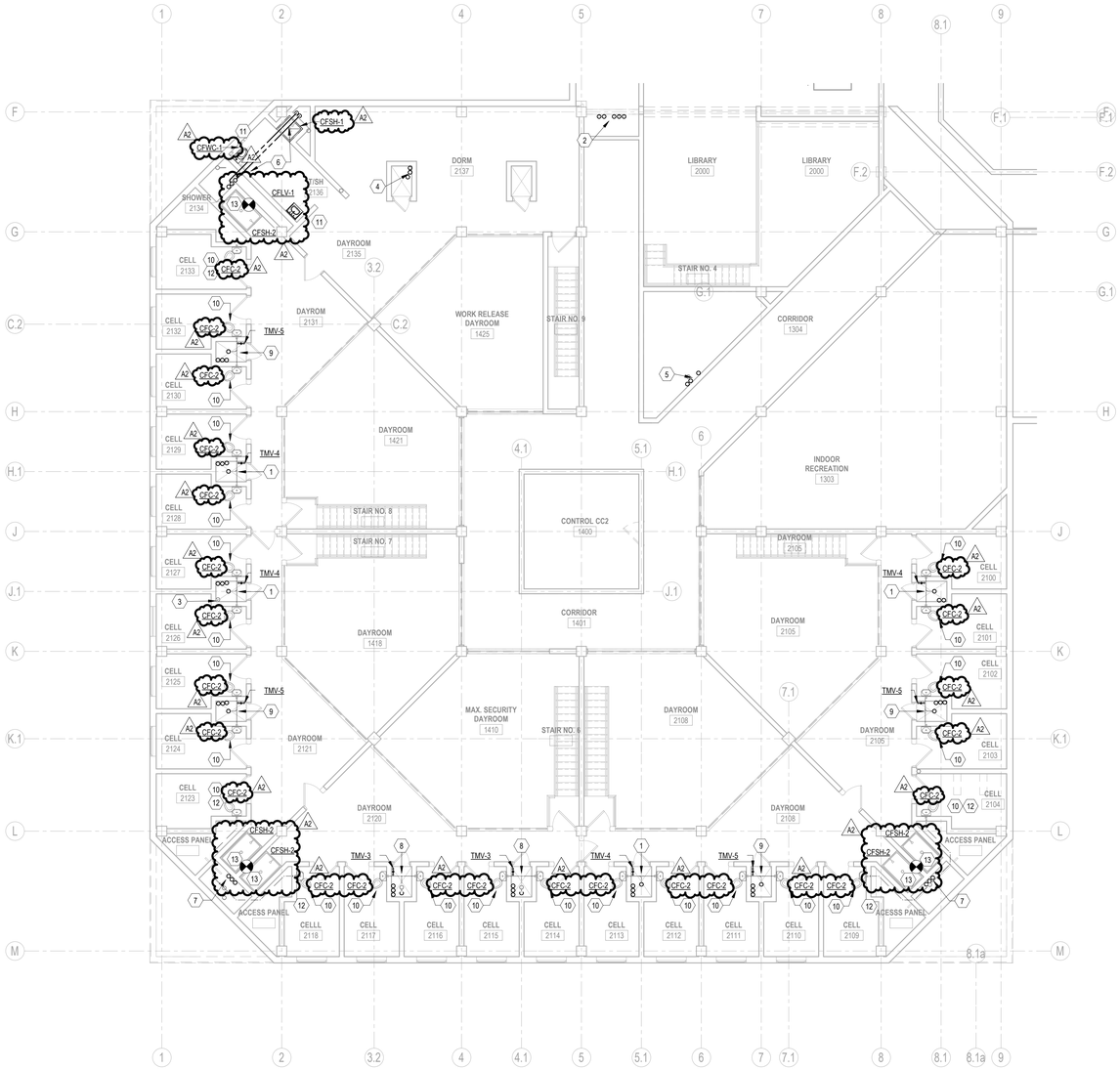
N

SECOND FLOOR
PLUMBING PLAN - UNIT A

P220A

PLAN NOTES

#	NOTE
1	PROVIDE NEW TMV-4 (105°F), FLUSH VALVE, 1 1/2" S-CW, 3/4 HW(130°F), 3/4 HWR(130°F) VALVES, HANGERS, INSULATION, AND OTHER FITTINGS. PROVIDE ACCESSIBLE SHUTOFF VALVES IN CHASE TO ISOLATE EACH FIXTURE. PROVIDE ALL NEW WASTE AND VENT PIPING THAT IS VISIBLE.
A2 3	PROVIDE NEW 2" S-CW, 1" HW(130°F), VALVES, HANGERS, INSULATION, AND OTHER FITTINGS. PROVIDE ACCESSIBLE SHUTOFF VALVES IN CHASE TO ISOLATE EACH FIXTURE. 3/4" HWR (130°F) UP AND DOWN. PROVIDE ALL NEW WASTE AND VENT PIPING THAT IS VISIBLE.
5	1 1/2" S-CW, 3/4" HW (130°F), AND 3/4" HWR (130°F) UP AND DOWN.
6	1" S-CW AND 3/4" HW (130°F) UP. PROVIDE SHUTOFF VALVES FOR ISOLATION OF FIXTURES. DISCONNECT RISERS FROM FIRST FLOOR WATER DISTRIBUTION. 3/4" H-CW UP AND DOWN.
7	1 1/2" S-CW, 3/4" H-CW AND 3/4" HW (130°F) UP AND DOWN. PROVIDE SHUTOFF VALVES FOR ISOLATION OF FIXTURES. DISCONNECT RISERS FROM FIRST FLOOR WATER DISTRIBUTION. PROVIDE ALL NEW WASTE AND VENT PIPING THAT IS VISIBLE.
8	PROVIDE NEW TMV-3 (105°F), FLUSH VALVE, 2" S-CW, 1" HW(130°F), VALVES, HANGERS, INSULATION, AND OTHER FITTINGS. PROVIDE ACCESSIBLE SHUTOFF VALVES IN CHASE TO ISOLATE EACH FIXTURE. 3/4" HWR (130°F) UP AND DOWN. PROVIDE ALL NEW WASTE AND VENT PIPING THAT IS VISIBLE.
9	PROVIDE NEW TMV-5 (105°F), FLUSH VALVE, 1 1/2" S-CW, 3/4 HW(130°F), 3/4 HWR(130°F) VALVES, HANGERS, INSULATION, AND OTHER FITTINGS. PROVIDE ACCESSIBLE SHUTOFF VALVES IN CHASE TO ISOLATE EACH FIXTURE. 3/4" HWR (130°F) UP AND DOWN. PROVIDE ALL NEW WASTE AND VENT PIPING THAT IS VISIBLE.
10	ALTERNATE #2: IF ACCEPTED: NEW COMBINATION LAV/TOILET FIXTURE. PROVIDE WITH ELECTRONIC CONTROL VALVES AND PUSH BUTTONS. ALL MODIFICATIONS SHALL BE INTERCONNECTED WITH THE WATER MANAGEMENT SYSTEM.
11	PROVIDE NEW FIXTURE, FLUSH VALVE, TMV, CW, HW, VALVES, HANGERS, CARRIERS AND INSULATION. PROVIDE NEW 3/4" HWR (130°F) WITH HWBS-1. PROVIDE ALL NEW WASTE AND VENT PIPING THAT IS VISIBLE.
12	PROVIDE NEW TMV, FLUSH VALVE, S-CW, HW(130°F), VALVES, HANGERS, INSULATION, AND OTHER FITTINGS. PROVIDE ACCESSIBLE SHUTOFF VALVES IN CHASE TO ISOLATE EACH FIXTURE. PROVIDE ALL NEW WASTE AND VENT PIPING THAT IS VISIBLE.
A2 13	ALTERNATE #2: IF ACCEPTED: NEW SHOWER PANEL FIXTURE. PROVIDE WITH ELECTRONIC CONTROL VALVES AND PUSH BUTTONS. ALL MODIFICATIONS SHALL BE INTERCONNECTED WITH THE WATER MANAGEMENT SYSTEM.



1 P220B **SECOND FLOOR PLUMBING PLAN - UNIT B**
1/8" = 1'-0"

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929
Designed By: K.I.
Drawn By: D.M.
Checked By: K.I.
Date: 11.21.2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

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UNIT B

N

SECOND FLOOR
PLUMBING PLAN - UNIT B

P220B

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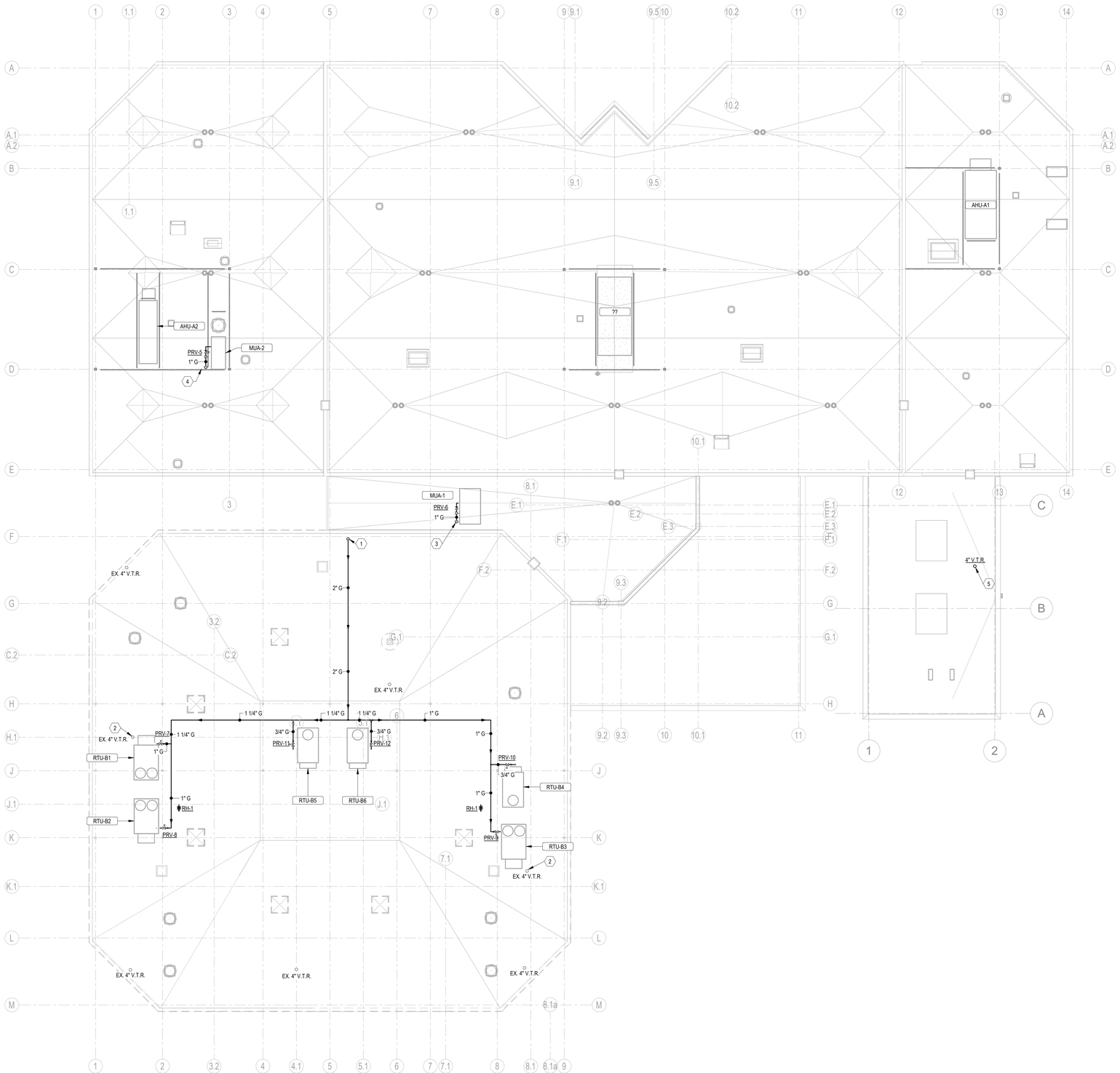
PLAN NOTES

#	NOTE
1	2" GAS DOWN.
2	RELOCATE VENT THROUGH ROOF AS NECESSARY TO MANAGE 10'-0" DISTANCE FROM EQUIPMENT INTAKE.
3	1" GAS DOWN (400 MBH).
4	1" GAS DOWN (336 MBH).
5	4" VENT THROUGH ROOF. KEEP 10'-0" AWAY FROM ANY AIR INTAKES.



1 P230 **ROOF PLUMBING PLAN**
3/32" = 1'-0"
0 8' 16' 24'

RQAW

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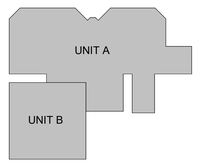

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ROOF PLUMBING PLAN

P230

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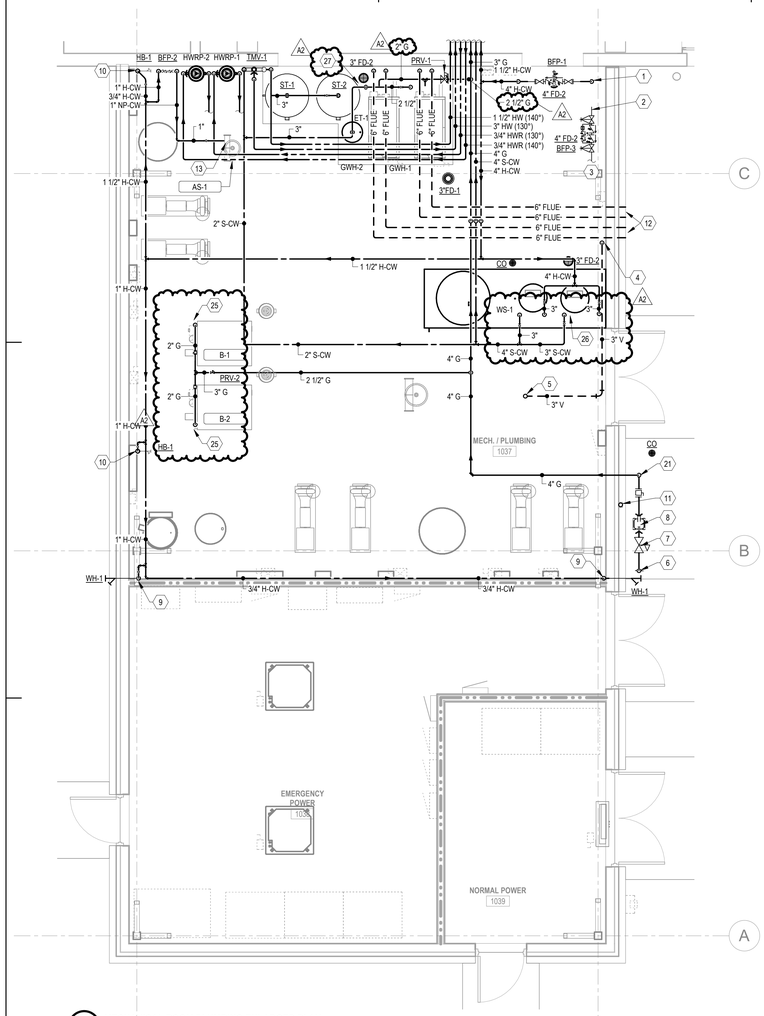
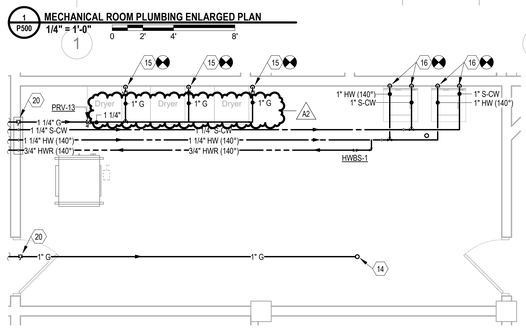
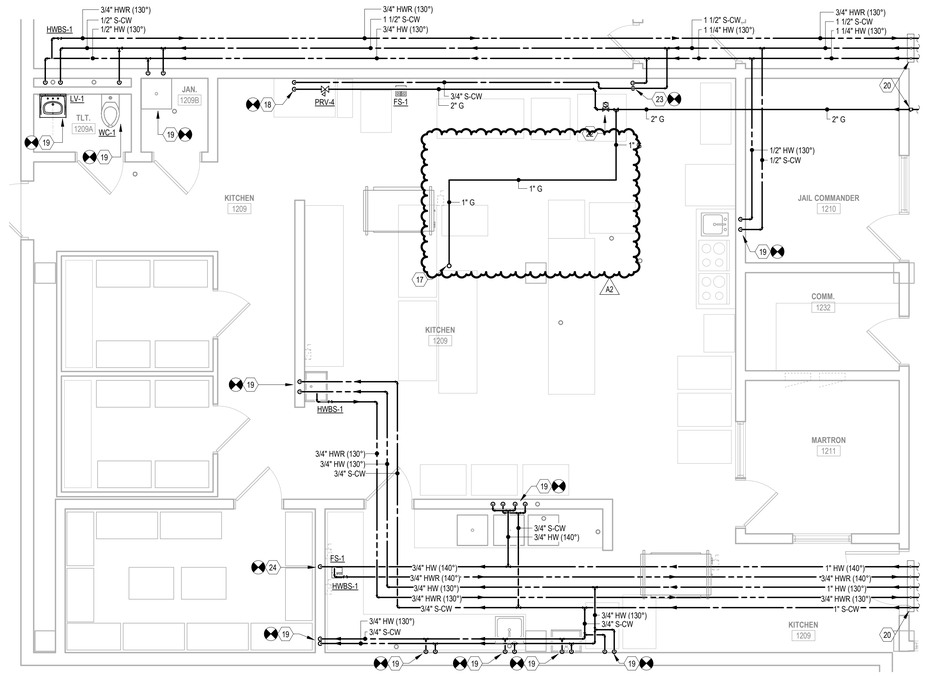


1 P500 **MECHANICAL ROOM PLUMBING ENLARGED PLAN**
1/4" = 1'-0"
0 2' 4' 8'



3 P500 **LAUNDRY ROOM PLUMBING ENLARGED PLAN**
1/4" = 1'-0"
0 2' 4' 8'



2 P500 **KITCHEN PLUMBING ENLARGED PLAN**
1/4" = 1'-0"
0 2' 4' 8'

PLAN NOTES

#	NOTE
1	INCOMING 4" DOMESTIC WATER SERVICE DOWN.
2	INCOMING 4" FIRE SUPPRESSION SERVICE DOWN.
3	SEE FIRE PROTECTION DRAWIINGS FOR CONTINUATION.
4	3" VENT RISE.
5	3" VENT UP TO 4" VTR.
6	GAS SERVICE MAIN DOWN B.F.G.
7	GAS PRESSURE REGULATOR BY GAS UTILITY COMPANY.
8	GAS METER BY GAS UTILITY COMPANY.
9	3/4" H-CW DROP TO EXTERIOR WALL HYDRANT (WH-1).
10	3/4" H-CW DROP TO INTERIOR HOSE BIBB (HB-1).
11	4" STORM LEADER DOWN FROM GUTTER DRAIN.
12	6" COMBUSTION AIR AND FLUE TERMINATIONS THROUGH SIDEWALL.
13	COORDINATE LOCATION OF MAKEUP WATER WITH MECHANICAL DRAWINGS.
14	1" GAS UP TO MAKE-UP AIR UNIT ON ROOF..
15	1" GAS DROP TO DRYER WITH SHUT OFF VALVE, UNION, AND DIRT LEG AT EQUIPMENT GAS TRAIN.
16	1" S-CW & HW(140°F) DROP TO WASHER.
17	1" GAS UP TO MAKE-UP AIR UNIT ON ROOF (396 MBH).
18	CONNECT NEW 2" GAS (900 MBH) AND 3/4" S-CW TO EXISTING. VERIFY EXACT SIZE AND LOCATION IN FIELD.
19	PROVIDE NEW CW, HW, VALVES, HANGERS, AND INSULATION.
20	EXISTING PIPING TO REMAIN IN OPERATION UNTIL INSTALLATION OF NEW MAINS ARE COMPLETE. COORDINATE PHASING WITH CLIENT AND ALL TRADES.
21	4" GAS STUB-UP TO MECHANICAL ROOM TO SERVE BUILDING. GAS DOWN TO SERVICE GEN SET.
22	NEW EMERGENCY GAS SOLENOID VALVE FURNISHED AND INSTALLED BY THE P.C. VALVE SHALL BE INTERCONNECTED TO THE EXISTING HOOD ANSUL SYSTEM. COORDINATE WITH HOOD MANUFACTURER.
23	CONNECT NEW 3/4" S-CW TO EXISTING. VERIFY EXACT SIZE AND LOCATION IN FIELD.
24	PROVIDE NEW HW. VALVES, HANGERS, AND INSULATION.
25	2" GAS DROP TO GAS FIRED CONVECTION OVEN.
26	3" HARD & SOFT COLD WATER TO WATER SOFTENERS.
27	2 1/2" COLD WATER TO WATER HEATER (TYP.)

RQAW

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A2	ADDENDUM 2	12/12/2025

Project #: 800-71929

Designed By: K.I.

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DUSTIN E. BARTH
REGISTERED
No. 12200401
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Dustin Barth

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N

ENLARGED PLUMBING PLANS

P500

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE DESCRIPTION	MANUFACTURER	MODEL #
WC-1	WATER CLOSET: ADA COMPLIANT, VITREOUS CHINA, WALL-MOUNTED ELONGATED BOWL, 1-1/2" INLET TOP SPUD, LOW-CONSUMPTION 1.1-1.6 GPF, DIRECT-FED SIPHON JET ACTION, FULLY-GLAZED 2-1/8" TRAPWAY, 10"x12" WATER, SURFACE AREA.	AMERICAN STANDARD	3351.101
	FLUSH VALVE: 1.28 GPF, POLISHED CHROME FINISH, FIXTURE CONNECTION TOP SPUD, SINGLE FLUSH, BATTERY, G2 EXPOSED SENSOR WATER CLOSET FLUSHOMETER.	SLOAN	G2 8111-1.28
	SEAT: HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC, OPEN FRONT LESS COVER FOR ELONGATED BOWL AND FEATURE EXCLUSIVE, FOUR LARGE MOLDED-IN BUMPERS, CONCEALED CHECK HINGES WITH STAINLESS STEEL POSTS.	CHURCH	295CT
	CARRIER: ADJUSTABLE, SIPHON JET WATER CLOSET WITH HUB & SPIGOT CONNECTIONS. CAST IRON MAIN FITTING, WITH 2" VENT, ADJUSTABLE GASKETED FACE PLATE, UNIVERSAL FLOOR MOUNTED FOOT SUPPORTS, CORROSION RESISTANT ADJUSTABLE COUPLING WITH INTEGRAL TEST CAP, FIXTURE BOLTS, TRIM, AND STUD PROTECTORS. REAR ANCHOR TIE DOWN AND BONDED GASKET.	ZURN	SERIES Z1200
WC-2	WATER CLOSET: VITREOUS CHINA, WALL-MOUNTED ELONGATED BOWL, 1-1/2" INLET TOP SPUD, LOW-CONSUMPTION 1.6 GPF, DIRECT-FED SIPHON JET ACTION, FULLY-GLAZED 2-1/8" TRAPWAY.	AMERICAN STANDARD	3351.101
	FLUSH VALVE: 1.28 GPF, POLISHED CHROME FINISH, FIXTURE CONNECTION TOP SPUD, SINGLE FLUSH, BATTERY, G2 EXPOSED SENSOR WATER CLOSET FLUSHOMETER.	SLOAN	G2 8111-1.28
	SEAT: HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC, OPEN FRONT LESS COVER FOR ELONGATED BOWL AND FEATURE EXCLUSIVE, FOUR LARGE MOLDED-IN BUMPERS, CONCEALED CHECK HINGES WITH STAINLESS STEEL POSTS.	CHURCH	295CT
	CARRIER: ADJUSTABLE, SIPHON JET WATER CLOSET WITH HUB & SPIGOT CONNECTIONS. CAST IRON MAIN FITTING, WITH 2" VENT, ADJUSTABLE GASKETED FACE PLATE, UNIVERSAL FLOOR MOUNTED FOOT SUPPORTS, CORROSION RESISTANT.	ZURN	SERIES Z1200
UR-1	URINAL: ADA, VITREOUS CHINA, WALL-MOUNTED, 3/4" INLET TOP SPUD, LOW CONSUMPTION 0.5 GPF + MOUNT FIXTURE 17" A.F.F.	AMERICAN STANDARD	6590.001EC
	FLUSH VALVE: 0.5 GPF, POLISHED CHROME FINISH, FIXTURE CONNECTION TOP SPUD, SINGLE FLUSH, BATTERY, G2 EXPOSED SENSOR URINAL FLUSHOMETER.	SLOAN	G2 8186-0.5
	CARRIER: ADJUSTABLE, FLOOR MOUNTED.	ZURN	Z1221
UR-2	URINAL: VITREOUS CHINA, WALL-MOUNTED, 3/4" INLET TOP SPUD, LOW CONSUMPTION 0.5 GPF.	AMERICAN STANDARD	6590.001EC
	FLUSH VALVE: 0.5 GPF, POLISHED CHROME FINISH, FIXTURE CONNECTION TOP SPUD, SINGLE FLUSH, BATTERY, G2 EXPOSED SENSOR URINAL FLUSHOMETER.	SLOAN	G2 8186-0.5
	CARRIER: ADJUSTABLE, FLOOR MOUNTED.	ZURN	Z1221
LV-1	LAVATORY: WALL HUNG, 20-1/2" X 18-1/4", VITREOUS CHINA, FRONT OVERFLOW, SELF-DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FAUCET LEDGE, FAUCET HOLES ON 4" CENTERS.	AMERICAN STANDARD	0355.012
	FAUCET: ELECTRONIC SENSOR, BATTERY-POWERED , 0.5 GPM PRESSURE COMPENSATING AERATOR OUTLET.	SLOAN	EBF-750
	TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. DRAIN WITH CHROME PLATED CAST BRASS SOLID TOP, OPEN GRID, P.O. PLUG. CHROME PLATED BRASS 17 GAUGE TAILPIECE.	MCGUIRE	165LK, 8902, 149
LV-2	LAVATORY: ADA, UNDERCOUNTER MOUNTED - 19-1/4" X 15-3/4", VITREOUS CHINA, REAR OVERFLOW, MOUNTING KIT, UNGLAZED RIM	AMERICAN STANDARD	9482.00
	FAUCET: ELECTRONIC SENSOR, BATTERY-POWERED, DECK MOUNTED0.5 GPM FLOW RATE, LAMINAR SPRAY.	SLOAN	EBF-615
	TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. DRAIN WITH CHROME PLATED CAST BRASS SOLID TOP, OPEN GRID, P.O. PLUG. CHROME PLATED BRASS 17 GAUGE TAILPIECE.	MCGUIRE	165LK, 8902, 149
MS-1	MOP SINK: 24" SQUARE. MOLDED STONE MOP SERVICE BASIN. 10" DEEP, INTEGRAL DRAIN IS MOLDED INTO A ONE PIECE UNIT AND DESIGNED TO CONNECT TO A 3" DRAIN PIPE. INCLUDES 830AA FAUCET, 832AA HOSE AND BRACKET, 889CC MOP HANGER BRACKET, 833AA SILICONE SEALANT.	FIAT	MSBIDTG2424
EWC-1	ELECTRIC WATER COOLER AND ELECTRONIC BOTTLE FILLER, FILTERED, REFRIGERATED. WALL MOUNTED	OASIS	PG8FEBF

A2

CORRECTIONAL PLUMBING FIXTURE SCHEDULE

A2

TAG	DESCRIPTION	MANUFACTURER	MODEL #	MOUNTING	FINAL CONNECTION SIZES CW	HW	WASTE	VENT (MIN.)	GPM	NOTES
CFSH-1	SHOWER	WILLOUGHBY	CWSMS	WALL	1/2"	1/2"	2"	--	1.5 GPM	FRONT ACCESS SURFACE WALL MOUNTED SHOWER PANEL. FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
CFLV-1	LAVATORY	WILLOUGHBY	HS-1013	WALL	1/2"	1/2"	2"	1 1/2"	0.5 GPM	FRONT ACCESS WALL MOUNTED LAVATORY. FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
CFWC-1	WATER CLOSET	WILLOUGHBY	ETWS-1490	WALL	1"	--	4"	2"	1.28 GPF	FRONT ACCESS UNIT-FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
CFWC-2	WATER CLOSET	WILLOUGHBY	ETWS-1490	WALL	1"	--	4"	2"	1.28 GPF	FRONT ACCESS UNIT-FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
CFUR-1	URINAL	WILLOUGHBY	UW-1317	WALL	3/4"	--	2"	1 1/2"	0.5 GPF	FRONT ACCESS UNIT-FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
SH-1	ADA SHOWER PANEL	WILLOUGHBY	CWSMS-ADA-WH	WALL	1/2"	1/2"	2"	--	1.5 GPM	FRONT ACCESS SURFACE WALL MOUNTED SHOWER PANEL. FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
SH-2	SHOWER PANEL	WILLOUGHBY	CWSMS	WALL	1/2"	1/2"	2"	--	1.5 GPM	FRONT ACCESS SURFACE WALL MOUNTED SHOWER PANEL. FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
*CFC-1	ADA COMBI-UNIT	WILLOUGHBY	4896-FA	FLOOR	1"	1/2"	4"	2"	1.28 GPF	FRONT ACCESS UNIT-FURNISHED BY PLUMBING CONTRACTOR. IF ALTERNATE #2 IS ACCEPTED, FIXTURE TO BE CONTROLLED BY ELECTRONIC MANAGEMENT SYSTEM.
*CFC-2	COMBI-UNIT	WILLOUGHBY	1846	FLOOR	1"	1/2"	4"	2"	1.28 GPF	REAR ACCESS UNIT-FURNISHED BY PLUMBING CONTRACTOR. IF ALTERNATE #2 IS ACCEPTED, FIXTURE TO BE CONTROLLED BY ELECTRONIC MANAGEMENT SYSTEM.
*CFC-3	SHOWER PANEL	WILLOUGHBY	1846	WALL	1/2"	1/2"	2"	--	1.5 GPM	FRONT ACCESS SURFACE WALL MOUNTED SHOWER PANEL. FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR. IF ALTERNATE #2 IS ACCEPTED, FIXTURE IS CONTROLLED BY ELECTRONIC WATER MANAGEMENT SYSTEM.
*CFSH-2	SHOWER PANEL	WILLOUGHBY	CWSMS	WALL	1/2"	1/2"	2"	--	1.5 GPM	FRONT ACCESS SURFACE WALL MOUNTED SHOWER PANEL. FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.

*** ALTERNATE #2 FIXTURES SHALL BE FURNISHED, INSTALLED AND CONTROLLED BY ELECTRONIC WATER MANAGEMENT SYSTEM.**

WATER HAMMER ARRESTOR SCHEDULE

NOTES: CONTRACTOR TO VERIFY FIXTURE UNITS CONNECTED

PDI SYMBOL	FIXTURE UNITS CONNECTED	CONNECTION SIZE
A	1-11	1/2"
B	12-32	3/4"
C	33-60	1"
D	61-113	1"
E	114-154	1"
F	155-330	1"

PLUMBING FIXTURE ROUGH-IN SCHEDULE

FIXTURE	WASTE	TRAP	VENT	COLD	HOT
WC-1	4"	INTEGRAL	2"	1"	--
WC-2	4"	INTEGRAL	2"	1"	--
UR-1	2"	INTEGRAL	1-1/2"	3/4"	--
UR-2	2"	INTEGRAL	1-1/2"	3/4"	--
MS-1	3"	3"	1-1/2"	3/4"	3/4"
LV-1	2"	1-1/4"	1-1/2"	1/2"	1/2"
LV-2	2"	1-1/4"	1-1/2"	1/2"	1/2"
SH-1	2"	2"	1-1/2"	1/2"	1/2"
SH-2	2"	2"	1-1/2"	1/2"	1/2"
EWC-1	1-1/2"	N/A	1-1/2"	1/2"	--

DRAIN SCHEDULE

TAG	FLOOR DRAIN DESCRIPTION	MANUFACTURER	MODEL #
FD-1	FLOOR DRAIN: ADJUSTABLE CAST IRON BODY, ROUND NICKEL BRONZE STRAINER. CAULK OUTLET. SURESEAL INLINE FLOOR DRAIN TRAP SEALER.	J.R. SMITH	2005-Y02-NB
FD-2	FLOOR DRAIN: CAST IRON BODY WITH 3" WASTE CONNECTION, 5" STRAINER AND 4" FUNNEL.	J.R. SMITH	2041S
FS-1	12" SQUARE BODY WITH FLANGE, 10" DEEP, PORCELAIN ENAMEL, ACID RESISTANT, COATED CAST IRON BODY AND 1/2 GRATE.	J.R. SMITH	345-Y03

BACK FLOW PREVENTOR SCHEDULE

TAG	SERVICE	SIZE	TYPE	MANUFACTURER	MODEL #	LOCATION	NOTES
BFP-1	DOMESTIC WATER	4"	REDUCED PRESSURE ZONE ASSEMBLIES	WATTS	SERIES LF909	MECH/PLUMBING 1037	INSTALL WITH STRAINER, AIR GAP, ELBOWS, TEST COCKS AND NON-RISING STEAM GATE VALVES.
BFP-2	MAKEUP WATER	1"	REDUCED PRESSURE ZONE ASSEMBLIES	WATTS	SERIES LF909	MECH/PLUMBING 1037	INSTALL WITH AIR GAP, ELBOWS, TEST COCKS AND FULL PORT QUARTER-TURN VALVES.
BFP-3	FIRE SERVICE	4"	DOUBLE CHECK DETECTOR ASSEMBLY	WATTS	SERIES LF774DCDA	MECH/PLUMBING 1037	INSTALL WITH AIR GAP, ELBOWS, TEST COCKS AND OS&Y GATE VALVES.

GAS-FIRED DOMESTIC WATER HEATER SCHEDULE

TAG	ELECTRICAL VOLT	PHASE	LOAD (BTU/HR)	MINIMUM EFFICIENCY	GALLON CAPACITY	RECOVERY AT 100°F	EXHAUST SIZE	INTAKE SIZE	LOCATION NAME/#	MANUFACTURER	MODEL #	NOTES
GWH-1	120	1	999,000	98%	-	1187	6"	4"	MECH/PLUMBING 1037	LOCHINVAR	AWH1000NPM	PROVIDE WITH CONDENSATE NEUTRALIZATION KIT
GWH-2	120	1	999,000	98%	-	1187	6"	4"	MECH/PLUMBING 1037	LOCHINVAR	AWH1000NPM	PROVIDE WITH CONDENSATE NEUTRALIZATION KIT

WATER SOFTENER SCHEDULE

TAG	LOCATION	MAX. EXCHANGE CAP. (GRAINS)	MIN. EXCHANGE CAP. (GRAINS)	CONT. FLOW RATE (GPM)	PEAK FLOW RATE (GPM)	BACK WASH FLOW RATE (GPM)	CU.FT. OF RESIN PER TANK	SALT STORAGE (LBS)	PIPE SIZE	MANUFACTURER	MODEL #	NOTES
DWS-1	MECH/PLUMBING 1037	900,000	600,000	200	268	45	30	-	4"	PURITAN	CAT90-3900NXT2	DOUBLE RESIN TANK WITH BRINE TANK

EXPANSION TANK SCHEDULE

TAG	TOTAL TANK VOLUME	LOCATION NAME/#	INLET	ACCEPTANCE VOLUME	MANUFACTURER	MODEL #	NOTES
ET-1	14	MECH ROOM	1"	11.3	B&G	PT-30V	VERTICAL TANK: CHARGE TO INCOMING WATER PRESSURE AFTER REDUCED PRESSURE BACKFLOW PREVENTER.

PUMP SCHEDULE

TAG	ELECTRIC LOCATION	VOLT	PHASE	POWER	GPM	FEET OF HEAD	MANUFACTURER	MODEL #	NOTES
HWRP-1	MECH/PLUMBING 1037	120	1	125 WATTS	4	22	BELL & GOSSET	NBF-36	PART #103418LF, FLANGE CONNECTION 3/4, 1-1/4", 1-1/2"
HWRP-2	MECH/PLUMBING 1037	120	1	125 WATTS	2	12	BELL & GOSSET	NBF-25	PART #103418LF, FLANGE CONNECTION 3/4, 1-1/4", 1-1/2"
SP-1	ELEVATOR PITS	115	1	3/4 HP	50	25	LIBERTY PUMPS	290 SERIES	PROVIDE WITH PLUG, CORD, AND CHECK VALVE.
CP-1	MECH/PLUMBING 1037	120	1	3/4 HP	-	-	LOCHINVAR	AWH0800-1000	CIRCULATING PUMP. PROVIDED BY WATER HEATER MANUFACTURER, INSTALLED EXTERNAL OF HEATER.
CP-2	MECH/PLUMBING 1037	120	1	3/4 HP	-	-	LOCHINVAR	AWH0800-1000	CIRCULATING PUMP. PROVIDED BY WATER HEATER MANUFACTURER, INSTALLED EXTERNAL OF HEATER.

PLUMBING EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER / MODEL # / CAPACITY	ELECTRICAL REQUIREMENTS	REMARKS (SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)
WH-1	WALL HYDRANT A2	ZURN #Z1321-CXL-WC	-	WHERE INDICATED ON PLUMBING DRAWINGS. FOR REPLACEMENT LOCATIONS MOUNT BOX AT EXISTING HOUSING HEIGHT. BOX TO MATCH EXISTING OR SIMILAR. FOR NEW INSTALLATION MOUNT MIN. OF 24" ABOVE FIN. GRADE.
HB-1	HOSE BIBB	J.R. SMITH # 5612	-	WHERE INDICATED ON PLUMBING DRAWINGS
HB-2	HOSE BIBB	J.R. SMITH # 5675-H	-	LOCATED IN CELL CHASE

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	MAXIMUM GPM	PRESSURE DROP (PSI)	COLD INLET SIZE	HOT INLET SIZE	MIXED OUTLET SIZE	MANUFACTURER	MODEL #	NOTES
TMV-1	60	7	1 1/4"	1 1/4"	1 1/2"	LAWLER	803	SET DISCHARGE TEMPERATURE TO 130°F
TMV-2	4	7	1/2"	1/2"	1/2"	LAWLER	61-15	SET DISCHARGE TEMPERATURE TO 105°F

HOT WATER STORAGE TANK SCHEDULE

TAG	LOCATION NAME/#	TYPE	GALLON CAPACITY	TANK WIDTH	TANK HEIGHT	WEIGHT	MANUFACTURER	MODEL #	NOTES
ST-1	MECH/PLUMBING 1037	VERTICAL	257	34	91"	904 lb	LOCHINVAR	RJA257	
ST-2	MECH/PLUMBING 1037	VERTICAL	257	34	91"	904 lb	LOCHINVAR	RJA257	

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BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A1	ADDENDUM 1	12/05/2025
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929

Designed By: K.I.

Drawn By: D.M.

Checked By: K.I.

Date: 11.21.2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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PLUMBING SCHEDULES

P600

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PRV SCHEDULE

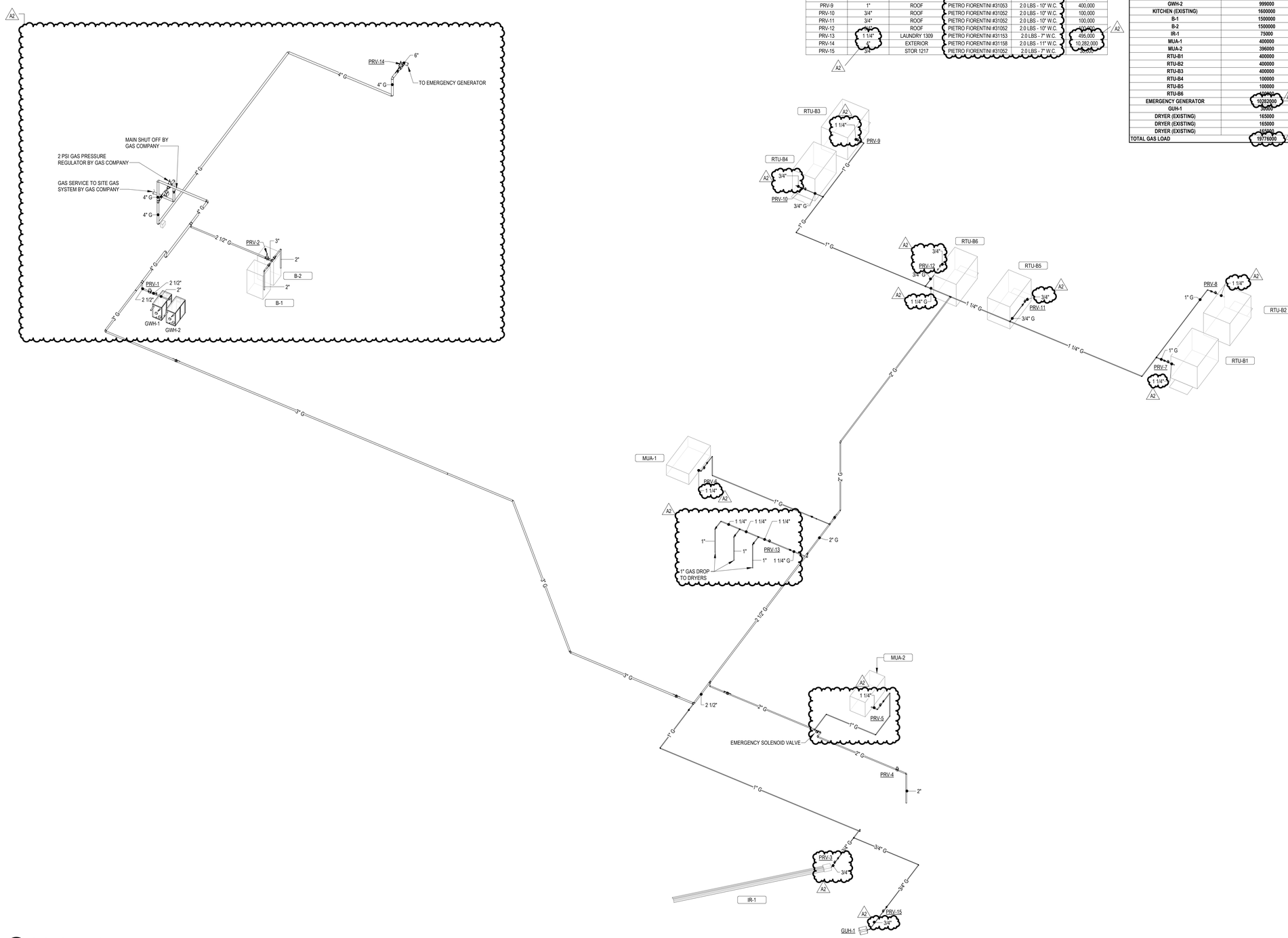
MARK	VALVE SIZE	LOCATION	MANUFACTURER / MODEL #	PRESSURE RANGE	LOAD (BTU/HR)
PRV-1	2"	MECH/PLUMBING 1037	PIETRO FIORENTINI #31155	2.0 LBS - 10" W.C.	3,000,000
PRV-2	2 1/2"	MECH/PLUMBING 1037	PIETRO FIORENTINI #31156	2.0 LBS - 10" W.C.	3,000,000
PRV-3	3/4"	SALLY PORT 1216	PIETRO FIORENTINI #31052	2.0 LBS - 7" W.C.	75,000
PRV-4	2"	KITCHEN 1209	PIETRO FIORENTINI #31155	2.0 LBS - 7" W.C.	1,600,000
PRV-5	1"	ROOF	PIETRO FIORENTINI #31053	2.0 LBS - 10" W.C.	396,000
PRV-6	1"	ROOF	PIETRO FIORENTINI #31053	2.0 LBS - 10" W.C.	400,000
PRV-7	1"	ROOF	PIETRO FIORENTINI #31053	2.0 LBS - 10" W.C.	400,000
PRV-8	1"	ROOF	PIETRO FIORENTINI #31053	2.0 LBS - 10" W.C.	400,000
PRV-9	1"	ROOF	PIETRO FIORENTINI #31053	2.0 LBS - 10" W.C.	400,000
PRV-10	3/4"	ROOF	PIETRO FIORENTINI #31052	2.0 LBS - 10" W.C.	100,000
PRV-11	3/4"	ROOF	PIETRO FIORENTINI #31052	2.0 LBS - 10" W.C.	100,000
PRV-12	3/4"	ROOF	PIETRO FIORENTINI #31052	2.0 LBS - 10" W.C.	100,000
PRV-13	1 1/4"	LAUNDRY 1309	PIETRO FIORENTINI #31153	2.0 LBS - 7" W.C.	495,000
PRV-14	6"	EXTERIOR	PIETRO FIORENTINI #31158	2.0 LBS - 11" W.C.	10,282,000
PRV-15	3/4"	STOR 1217	PIETRO FIORENTINI #31052	2.0 LBS - 7" W.C.	75,000

GAS LOAD VALUES...

INDIANA FUEL GAS CODE, 2014 EDITION TABLE 402.4(5) SCHEDULE 40 METALLIC...

INLET PRESSURE:	2 PSI
PRESSURE DROP:	1 PSI
SPECIFIC GRAVITY:	0.6
TOTAL DEVELOPED LENGTH:	650'-0"

MARK	LOAD (BTU/HR)
GWH-1	999000
GWH-2	999000
KITCHEN (EXISTING)	1600000
B-1	1500000
B-2	1500000
IR-1	75000
MUA-1	400000
MUA-2	396000
RTU-B1	400000
RTU-B2	400000
RTU-B3	400000
RTU-B4	100000
RTU-B5	100000
RTU-B6	100000
EMERGENCY GENERATOR	10282000
GUH-1	30000
DRYER (EXISTING)	165000
DRYER (EXISTING)	165000
DRYER (EXISTING)	165000
TOTAL GAS LOAD	19776000



1 GAS RISER DIAGRAM
NOT TO SCALE

RQAW

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HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A2	ADDENDUM 2	12/12/2025

Project #: 800-71929

Designed By: D.M.

Drawn By: D.M.

Checked By: K.I.

Date: 11.21.2025

DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF INDIANA
PROFESSIONAL ENGINEER

Dustin Barth

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PLUMBING NATURAL GAS PIPING DIAGRAM

P701

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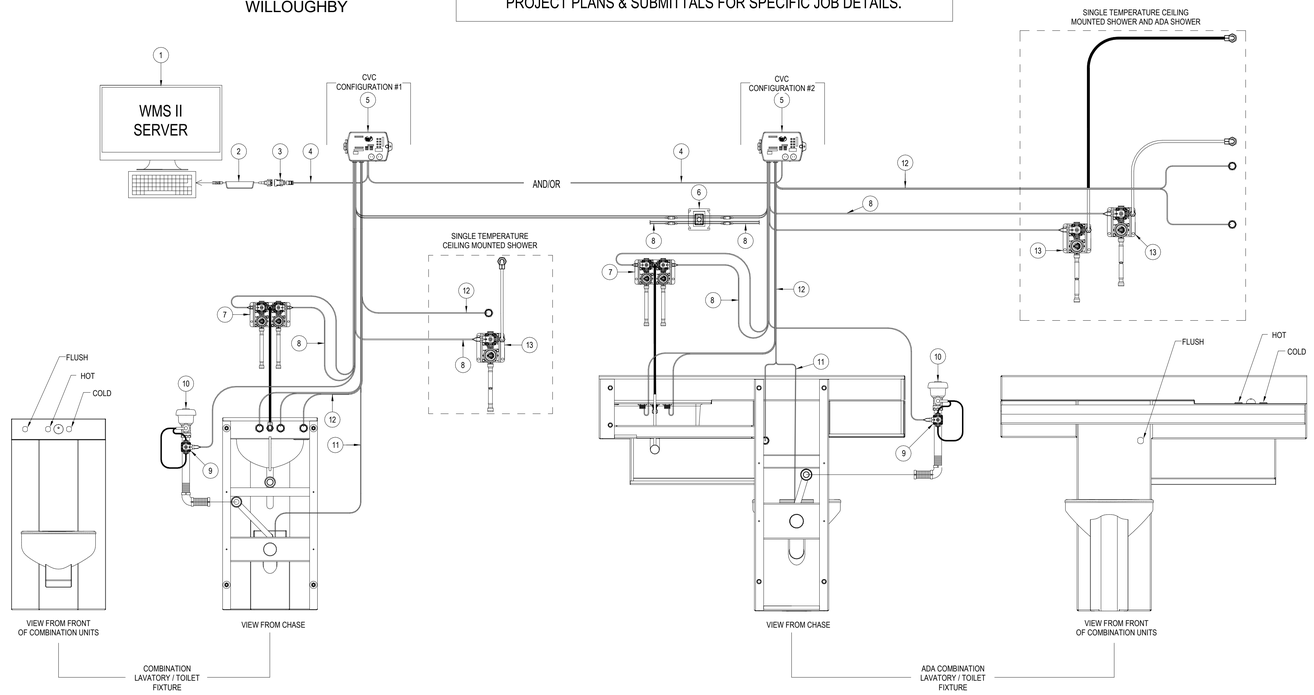
WILLOUGHBY

WILLOUGHBY WATER MANAGEMENT

TYPICAL WILLOUGHBY WMSII WATER MANAGEMENT SYSTEM INSTALLATION DETAILS FOR STEELCELL SHOWN. INSTALLATION AND CVC CONFIGURATION MAY VARY PER SCOPE OF SPECIFIED PROJECT. TYPICAL INSTALL DETAILS ARE FOR REFERENCE ONLY. CONSULT SPECIFIED PROJECT PLANS & SUBMITTALS FOR SPECIFIC JOB DETAILS.

ALTERNATE #02
CORRECTIONAL FIXTURES & WATER MANAGEMENT SYSTEM



1 WILLOUGHBY WMSII INSTALLATION DETAIL

NOT TO SCALE

SCOPE OF WORK (RECOMMENDED)

ELECTRICAL CONTRACTOR

- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DAISY-CHAINED CAT 3 CAN BUS NETWORK COMMUNICATION WIRING FROM WILLOUGHBY WMSII OPERATING WORKSTATION TO CVC (CELL VALVE CONTROLLER). IF LOCAL CODE REQUIRES CONDUIT, CONDUIT IS TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE & CONNECT 120V POWER TO CHASE MOUNTED TRANSFORMER. TRANSFORMER PROVIDED BY ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE & CONNECT MALE RJ45 CONNECTOR TO NETWORK COMMUNICATION WIRING AT WMSII OPERATING WORKSTATION AS SHOWN IN NETWORK TERMINATION DETAIL.
- ELECTRICAL CONTRACTOR IS TO INSTALL WILLOUGHBY WMSII OPERATING WORKSTATION WITH WILLOUGHBY WMSII SOFTWARE, USB-TO-CAN INTERFACE AND NETWORK ADAPTER. WILLOUGHBY WMSII OPERATING WORKSTATION WITH WILLOUGHBY WMSII SOFTWARE, USB-TO-CAN INTERFACE AND NETWORK ADAPTER PROVIDED BY PLUMBING CONTRACTOR.

NOTE: RECOMMENDED THAT CVC TRANSFORMER BE CONNECTED TO EMERGENCY BACK-UP POWER

PLUMBING CONTRACTOR

- PLUMBING CONTRACTOR TO INSTALL WILLOUGHBY ELECTRONIC FLUSH, LAVATORY, SHOWER VALVES IN CHASE WITH NO LONGER THAN 1" SCREWS AND MOUNT WILLOUGHBY CVC CELL VALVE CONTROLLER AND 150VA / 24V TRANSFORMER TO CHASE WALL.
- PLUMBING CONTRACTOR TO CONNECT WIRING FROM PUSHBUTTONS TO CVC AND FROM CVC BACK TO ELECTRONIC LAVATORY, SHOWER AND FLUSH VALVES.
- PLUMBING CONTRACTOR IS TO PROVIDE WILLOUGHBY WMSII ELECTRONIC WATER MANAGEMENT SYSTEM; INCLUDING WMSII OPERATING WORKSTATION W/ WMSII SOFTWARE, USB-TO-CAN INTERFACE AND NETWORK ADAPTER, CVC CELL VALVE CONTROLLERS, 150VA / 24V TRANSFORMER, ELECTRONIC PUSHBUTTONS, ELECTRONIC FLUSH, LAVATORY AND SHOWER VALVES, WIRING FROM PUSHBUTTONS TO CVC AND FROM CVC TO ELECTRONIC VALVES.
- PLUMBING CONTRACTOR TO INSTALL ELECTRONIC PUSHBUTTONS TO WILLOUGHBY PLUMBING FIXTURE.

NOTE: FOR AREAS OUTSIDE OF POD CELLS INCLUDING, BUT NOT LIMITED TO, HOLDING CELLS, PADDED CELL, R.R. ISOLATION CELL AND DRUNK TANK. A2

PLUMBING CONTRACTOR

- PLUMBING CONTRACTOR TO INSTALL WILLOUGHBY ELECTRONIC FLUSH, LAVATORY, SHOWER VALVES IN CHASE WITH NO LONGER THAN 1" SCREWS AND MOUNT WILLOUGHBY CVC CELL VALVE CONTROLLER AND 40VA / 24V TRANSFORMER TO CHASE WALL.
- PLUMBING CONTRACTOR TO CONNECT WIRING FROM PUSHBUTTONS TO CVC AND FROM CVC BACK TO ELECTRONIC LAVATORY, SHOWER AND FLUSH VALVES.

NOTE: FOR DORM RESTROOMS.

PLUMBING CONTRACTOR

- PLUMBING CONTRACTOR TO INSTALL WILLOUGHBY ELECTRONIC FLUSH, LAVATORY, SHOWER VALVES IN CHASE WITH NO LONGER THAN 1" SCREWS AND MOUNT WILLOUGHBY CVC CELL VALVE CONTROLLER AND 150VA / 24V TRANSFORMER TO CHASE WALL.
- PLUMBING CONTRACTOR TO CONNECT WIRING FROM PUSHBUTTONS TO CVC AND FROM CVC BACK TO ELECTRONIC LAVATORY, SHOWER AND FLUSH VALVES.

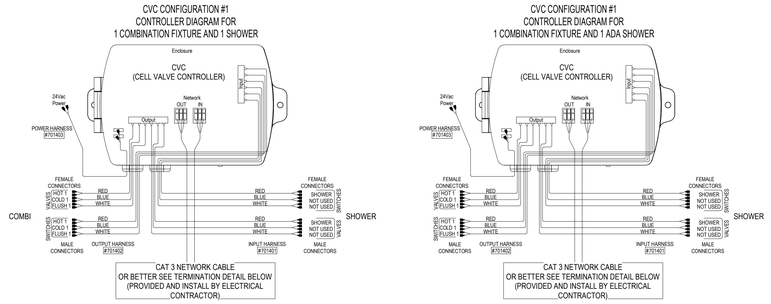
WMSII COMPONENTS

1. WMS II SERVER/MONITOR
2. USB-TO-CAN INTERFACE
3. NETWORK ADAPTER ASSEMBLY
4. NETWORK CABLE
5. CVC (CELL VALVE CONTROLLER)
6. 150 VA / 24V TRANSFORMER (OUTPUT WIRING FROM MAX. OF 4 CELLS)
7. DUAL TEMPERATURE ELECTRONIC LAVATORY VALVE
8. OUTPUT WIRING
9. ELECTRONIC FLUSH VALVE ACTUATOR
10. BRASS BODIED HYDRAULIC FLUSH VALVE**
11. TOILET OVERFLOW PREVENTION TUBE
12. INPUT WIRING
13. SINGLE TEMPERATURE ELECTRONIC SHOWER VALVE

** BRASS BODIED HYDRAULIC FLUSH VALVE REQUIRED OTHER TYPES NOT PERMITTED

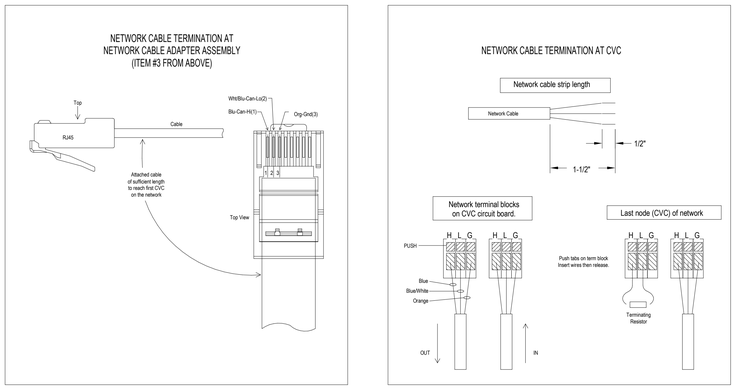
SYSTEM CAPABILITIES

EACH WMSII SERVER SHALL BE CAPABLE OF CONTROLLING UP TO 4 NETWORKS, EACH CONSISTING OF A MAXIMUM OF 127 CVC'S AND UP TO 3000 FEET OF NETWORK WIRING. TWISTED 3-PAIR OF CAT 3 RATING SHALL BE USED FOR ALL NETWORK WIRING (PROVIDED AND INSTALLED BY OTHERS). STAND-ALONE CVC'S NOT CONNECTED TO A NETWORK SHALL BE PROGRAMMED VIA AN OPTIONAL PORTABLE DEVICE OR PROGRAMMED AT THE FACTORY. STANDARD WIRING FOR PUSHBUTTONS TO CVC SHALL NOT EXCEED 200 FEET AND VALVES TO CVC SHALL NOT EXCEED 50 FEET. WIRING FOR CVC POWER SHALL NOT EXCEED 25 FEET.



2 WILLOUGHBY WMSII INPUT/OUTPUT WIRE CONNECTIONS

NOT TO SCALE

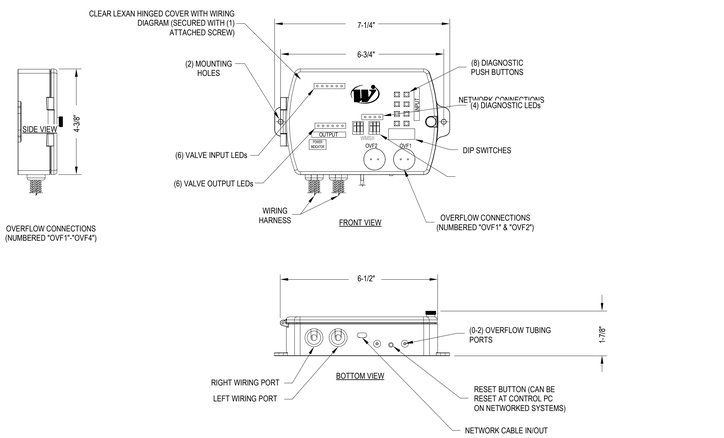


* NETWORK CABLE AND ANY REQUIRED CONDUIT TO BE INSTALLED AND PROVIDED BY ELECTRICAL CONTRACTOR

3 WILLOUGHBY WMSII NETWORK CABLE TERMINATIONS

NOT TO SCALE

NOTE:
ALLOW 6" MIN. CLEARANCE UNDER EACH (CVC) FOR ACCESS TO RESET BUTTON AND WIRING/TUBING CONNECTIONS



4 WILLOUGHBY WMSII CVC PHYSICAL DIMENSIONS AND IDENTIFICATION

NOT TO SCALE

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HARRISON COUNTY JAIL MEP RENOVATION

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PLUMBING DETAILS - WILLOUGHBY

P800

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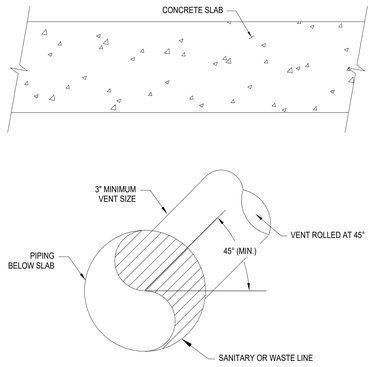
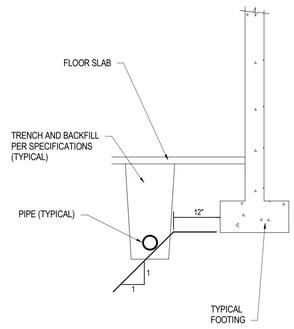
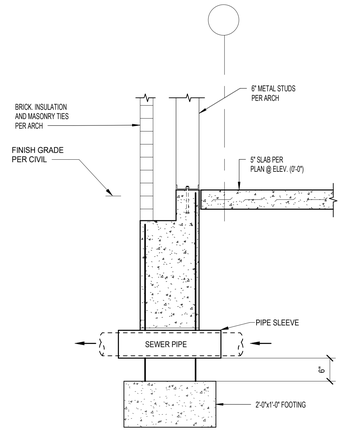


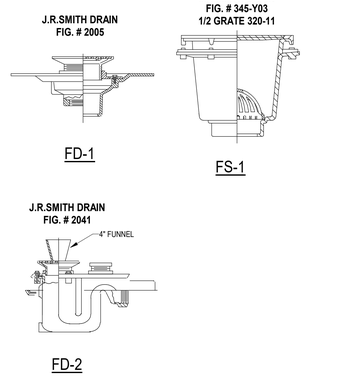
1 MAIN VENT PIPING DETAIL
NOT TO SCALE



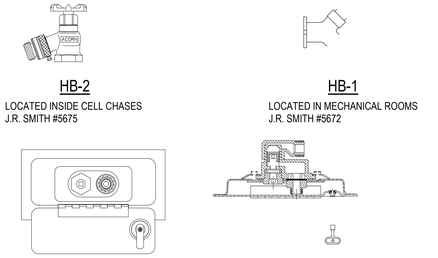
2 PIPE TRENCH DETAIL
NOT TO SCALE



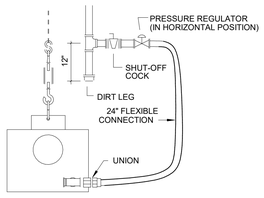
3 PIPING AT FOUNDATION WALL
NOT TO SCALE



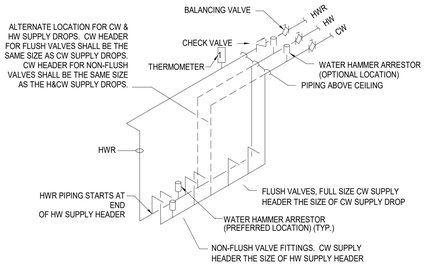
4 FLOOR DRAINS
NOT TO SCALE



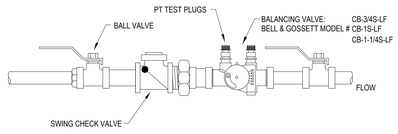
5 HOSE BIBB DETAIL
NOT TO SCALE



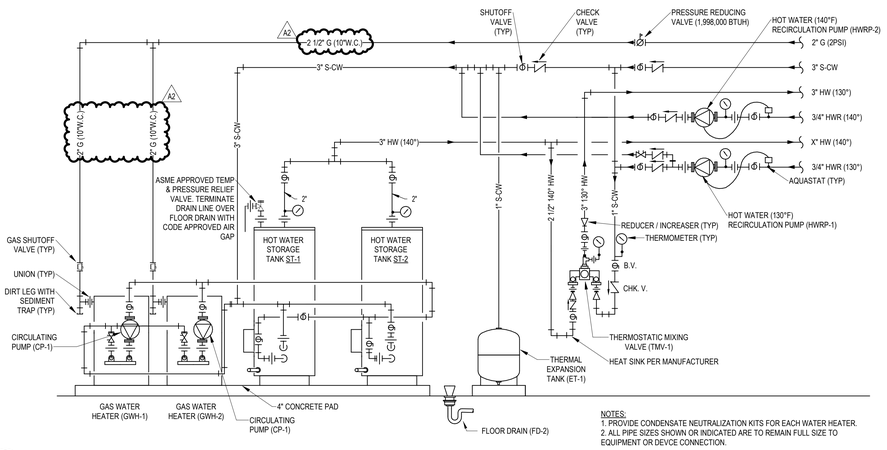
6 GAS-RADIANT HEATER
NOT TO SCALE



7 PIPING CHASE DETAIL
NOT TO SCALE



8 HOT WATER RETURN BALANCING STATION
NOT TO SCALE



NOTES:
1. PROVIDE CONDENSATE NEUTRALIZATION KITS FOR EACH WATER HEATER.
2. ALL PIPE SIZES SHOWN OR INDICATED ARE TO REMAIN FULL SIZE TO EQUIPMENT OR DEVCE CONNECTION.

9 WATER HEATER PIPING DETAIL
NOT TO SCALE

NOTES:
1. ENTIRE INSTALLATION TO BE IN ACCORDANCE WITH UTILITY COMPANY'S REQUIREMENTS.
2. ALL PIPE SIZES SHOWN OR INDICATED ARE TO REMAIN FULL SIZE TO EQUIPMENT OR DEVCE CONNECTION.
3. WATER METER IN EXTERIOR PIT, REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.

DWS-1
DUPLEX SOFTENER

MODEL NO. CAT90-3900NXT2

RESIN TANK - 42X72 FIBERGLASS (QTY – 2)

BRINE TANK - 42X60 POLYETHYLENE PLASTIC (QTY – 1)

FILTER MEDIA - 8% CROSS-LINKED CATION SOFTENING RESIN (30 CU.FT. PER TANK)

CAPACITY - 900,000 GRAIN SOFTENING @ 450 LB SALTING PER REGENERATION PER TANK
720,000 GRAIN SOFTENING @ 300 LB SALTING PER REGENERATION PER TANK
600,000 GRAIN SOFTENING @ 180 LB SALTING PER REGENERATION PER TANK

FLOW RATE - 200 GPM @ 15 PSI DROP
1268 GPM @ 25 PSI DROP

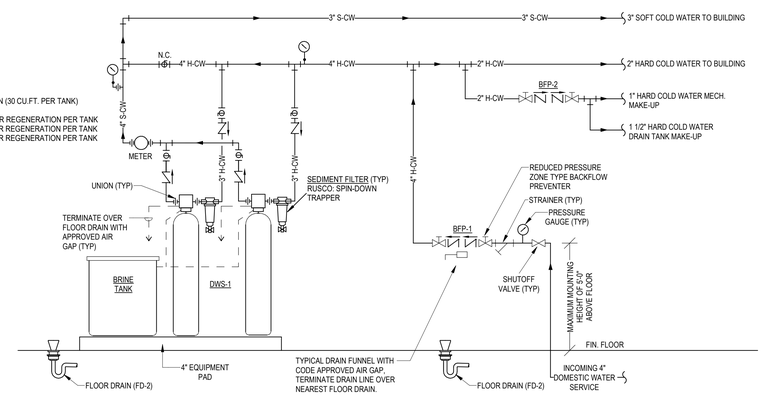
BACKWASH DRAIN RATE - 45 GPM

CONTROL HEAD - 3" INLET/OUTLET CONNECTIONS
2" DRAIN CONNECTION

METER SIZE - 3"

BRINE TANK CAPACITY – 2300 LBS

FLOOR SPACE – 138" X 42"



10 INCOMING WATER SERVICE PIPING DETAIL
NOT TO SCALE

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HARRISON COUNTY BOARD OF COMMISSIONERS
HARRISON COUNTY JAIL MEP RENOVATION
1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A2	ADDENDUM 2	12/12/2025

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PLUMBING DETAILS

P801

GENERAL NOTES

(APPLY TO ALL ELECTRICAL SHEETS)

1. PROVIDE SUPPORT WIRES FOR ALL LIGHT FIXTURES.
2. COORDINATE INSTALLATION OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN, HVAC EQUIPMENT, DUCTWORK, PIPING AND SUPPORTS.
3. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AT THE PROJECT SITE BEFORE SUBMITTING COST PROPOSAL.
4. ALL WORK SHALL CONFORM TO OR EXCEED THE MINIMUM REQUIREMENTS OF THE CURRENT ANSI / NFPA 70 WITH STATE AMENDMENTS, ENERGY CODE, ANSI / IEEE C2 AND ALL FEDERAL, STATE, LOCAL AND MUNICIPAL CODES AND ORDINANCES. THE ELECTRICAL SUBCONTRACTOR SHALL COMPLY WITH THE DIRECTIONS OF ALL AUTHORITIES HAVING JURISDICTION
5. INSTALL WORK USING PROCEDURES DEFINES IN NECA STANDARDS OF INSTALLATION. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
6. REFER TO THE ARCHITECTURAL DRAWINGS FOR CEILING WORK BY THE GENERAL CONTRACTOR. COORDINATE ALL ELECTRICAL WORK.
7. THE ELECTRICAL SUBCONTRACTOR SHALL PROVIDE ALL FLOOR, WALL, AND CEILING PENETRATIONS TO COMPLETE HIS / HER WORK. PROVIDE PROPER FIRE SAFEING FOR ALL PENETRATIONS MADE. PROVIDE APPROPRIATE SEALANT (I.E. FIRESAFEING) TO MAINTAIN CONSTRUCTION INTEGRITY FOR ANY PENETRATIONS THROUGH FLOORS, STRUCTURAL CEILING, AND FIRE WALLS.
8. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES TO ENSURE EFFECTIVE AND EFFICIENT OVERALL INSTALLATION.
9. THE LOCATION OF NEW RECEPTACLES, PHONE / DATA JACKS, AND ROOM EQUIPMENT SHOWN ON THESE DRAWINGS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED WITH THE ARCHITECT DURING THE CONSTRUCTION PHASE.
10. WHERE DEVICES ARE OMITTED FROM PRESENT BRANCH CIRCUITS, THE REMAINING DEVICE SHALL BE REWIRED. IF NEEDED AND AS REQUIRED, TO REMAIN IN THEIR RESPECTIVE CIRCUITS AND IN OPERATING CONDITION.
11. ALL NEW EQUIPMENT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING.
12. PHYSICAL SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT SHOWN ON THESE DRAWINGS ARE APPROXIMATE. COORDINATE ELECTRICAL WORK FOR THIS EQUIPMENT WITH THE OTHER TRADES.
13. ALL BRANCH CIRCUITS SHALL UTILIZE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS. DO NOT COMBINE NEUTRAL CONDUCTORS.
14. ALL FEEDER NEUTRAL / GROUNDED CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. DERATE MULTIPLE CONDUCTORS IN A RACEWAY ACCORDINGLY WITH NEC TABLES.
15. INSTALL ALL CONDUITS, RACEWAYS, AND CABLE TRAY FOR MAXIMUM HEAD CLEARANCE IN MECHANICAL AREAS.
16. ALL LIGHT FIXTURES SHOWN WITH EMERGENCY BATTERY BALLASTS SHALL HAVE UNSWITCHED "HOT" WIRE INSTALLED TO BALLAST.
17. WIRING SHALL BE INSTALLED ABOVE ACCESSIBLE CEILINGS AND IN DRYWALL WALLS WHERE POSSIBLE.
18. WIRING THAT IS TO BE INSTALLED IN AREAS WHERE THERE ARE NO CEILINGS SHALL BE INSTALLED EXPOSED. CABLING SHALL BE INSTALLED NEATLY AND AT RIGHT ANGLES TO STRUCTURE. WIRING SHALL BE INDEPENDENTLY SUPPORTED AS REQUIRED. WIRING SHALL NOT LAY OVER OTHER TRADES.
19. WHERE OCCUPANCY SENSORS ARE INDICATED ON PLANS, THE ENTIRE ROOM SHALL BE COVERED. MANUFACTURER IS RESPONSIBLE FOR SENSOR LAYOUT. ADDITIONAL SENSORS REQUIRED DUE TO LACK OF COVERAGE SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PROVIDE QUANTITY AS REQUIRED. CEILING AND WALL MOUNTED SENSORS SHALL BE DUAL TECHNOLOGY TYPE. SENSORS SHALL INCLUDE ALL POWER SUPPLIES AND RELAYS NECESSARY TO CONTROL LIGHT FIXTURES IN ROOM / AREA. SENSORS SHALL OPERATE IN "VACANCY" MODE - MANUAL ON / AUTO OFF. TYPE OC SQUARE - INDICATES A WALL MOUNTED SINGLE CIRCUIT SENSOR WITH 1 SWITCH, TYPE ROUND OC INDICATES A CEILING MOUNTED SENSOR. PROVIDE A SET OF AUXILIARY CONTACTS ON ALL WALL AND CEILING MOUNTED OCCUPANCY SENSORS FOR SIGNALING TO BUILDING AUTOMATION SYSTEM.
20. ALL RECEPTACLES SHALL BE SPECIFICATION GRADE TYPE.

DEMOLITION GENERAL NOTES

(APPLY TO ALL ELECTRICAL SHEETS)

1. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS TO FAMILIARIZE HIMSELF WITH EXTENT OF REMODELING / ALTERATION WORK.
2. COORDINATE ALL ELECTRICAL SYSTEM DOWNTIME WITH THE OWNER AND OTHER TRADES. IT IS MANDATORY THAT THE EXISTING BUILDING REMAIN IN CONTINUOUS AND NON-INTERRUPTED OPERATION DURING THE REMODELING / ALTERING OF THE EXISTING BUILDING. THE SPECIFIC AREA(S) BEING REMODELED / ALTERED AT ANY TIME ARE OBVIOUSLY EXCLUSIVE OF THE STATEMENT. SERVICES TO EXISTING BUILDING SHALL BE KEPT ON CONTINUOUS OPERATION INCLUDING POWER, FIRE ALARM, LIGHTING, TELEPHONE, ETC. DOWNTIME OF THESE SYSTEMS SHALL BE MINIMIZED. WEEKEND AND AFTER HOURS WORK MAY BE REQUIRED TO PREVENT OR MINIMIZE INTERFERENCE WITH OWNERS OPERATION.
3. CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER TO IDENTIFY ALL SYSTEMS WIRING, DEVICES, ETC. THAT MUST REMAIN OPERATIONAL DURING CONSTRUCTION. COORDINATE ALL DEMOLITION WITH THE OWNER PRIOR TO ANY DEMOLITION WORK.
4. IN REMODELED / ALTERED AREA ANY FEEDERS, CONDUITS, BRANCH CIRCUITS, SIGNAL AND TELEPHONE CIRCUITS, ETC. PASSING THROUGHOUT THE REMODELED / ALTERED AREAS TO SERVE (OR BE SERVED FROM EXISTING ADJACENT, REMOTE, OR SURROUNDING THAT ARE TO REMAIN) SHALL BE RETAINED AND KEPT OPERATIONAL AND SHALL BE REROUTED IN ALL CASES WHERE THEY INTERFERE WITH ANY NEW WORK OR USAGE TO BE ACCOMPLISHED IN THE REMODELED / ALTERED AREA.
5. ALL DEVICES SHOWN ON THESE DRAWINGS TO BE REMOVED SHALL BE REMOVED COMPLETE INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE UNLESS OTHERWISE NOTED. ALL CIRCUIT BREAKERS OR EQUIPMENT MADE SPARE BY THE DEMOLITION SHALL BE TURNED OFF AND MARKED SPARE. IT IS THE INTENT THAT ALL EXISTING ELECTRICAL DEVICES, CONDUIT, WIRING, ETC. IN THIS SPACE THAT ARE NOT REUSED AND ARE ABANDONED SHALL BE REMOVED COMPLETE. CONTRACTOR SHALL FIELD VERIFY EXACT REQUIREMENTS. NOT ALL DEVICES ARE SHOWN ON THIS DRAWING.
6. ALL DEVICES AND LIGHT FIXTURES SHOWN TO BE REMOVED FROM EXISTING BLOCK WALLS THAT ARE NOT REUSED SHALL HAVE BLANK COVERS INSTALLED.
7. ALL DEVICES SHOWN TO BE REMOVED FROM EXISTING WALLS THAT REMAIN SHALL HAVE DEVICES AND ASSOCIATED CONDUIT REMOVED AND WALL SHALL BE PATCHED.
8. REFER TO MECHANICAL DEMOLITION PLANS FOR ALL EQUIPMENT THAT IS TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE UNLESS OTHERWISE NOTED.
9. TELEVISION SYSTEM: REMOVE ALL TELEVISION SYSTEM DEVICES AND WIRING WHERE INDICATED IN AREAS OF DEMOLITION THAT ARE INSTALLED IN WALLS OR CEILINGS. ALL OTHER TELEVISION WIRING, EQUIPMENT AND DEVICES SHALL REMAIN. COORDINATE REMOVAL OF THIS SYSTEM AND ITS COMPONENTS WITH THE OWNER PRIOR TO WORK.
10. TELEPHONE / DATA SYSTEM: REMOVE ALL TELEPHONE / DATA SYSTEM DEVICES AND WIRING WHERE INDICATED IN AREAS OF DEMOLITION THAT ARE INSTALLED IN WALLS OR CEILINGS. ALL OTHER TELEPHONE / DATA WIRING, EQUIPMENT AND DEVICES SHALL REMAIN. COORDINATE REMOVAL OF THIS SYSTEM AND ITS COMPONENTS WITH THE OWNER PRIOR TO WORK.
11. CCTV SYSTEM: REMOVE ALL CCTV SYSTEM DEVICES AND WIRING WHERE INDICATED IN AREAS OF DEMOLITION THAT ARE INSTALLED IN WALLS OR CEILINGS. ALL OTHER CCTV WIRING, EQUIPMENT AND DEVICES SHALL REMAIN. COORDINATE REMOVAL OF THIS SYSTEM AND ITS COMPONENTS WITH THE OWNER PRIOR TO WORK.
12. NOT USED.
13. FIRE ALARM SYSTEM: REMOVE ALL FIRE ALARM SYSTEM DEVICES AND WIRING IN AREAS OF DEMOLITION THAT ARE INSTALLED IN WALLS OR CEILINGS. ALL OTHER FIRE ALARM WIRING, EQUIPMENT AND DEVICES SHALL REMAIN. COORDINATE REMOVAL OF THIS SYSTEM AND ITS COMPONENTS WITH THE OWNER PRIOR TO WORK.
14. NEW DEVICES SHOWN TO BE INSTALLED ON EXISTING DRYWALL WALLS SHALL BE INSTALLED FLUSH IN WALL WITH CONDUIT AND WIRING CONCEALED. CUT AND PATCH EXISTING WALLS AS REQUIRED.
15. NEW DEVICES SHOWN TO BE INSTALLED ON EXISTING BLOCK WALLS SHALL BE INSTALLED SURFACE MOUNTED AND IN SURFACE MOUNTED WIREMOLD PAINTED TO MATCH WALL.
16. NEW DEVICES SHALL MATCH EXISTING DEVICES AND COVERPLATES.
17. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN DEMOLITION, REMOVAL, CAPPING, STORING, ABANDONING, DISCONNECTION, RELOCATING AND RECONNECTION OF EXISTING ELECTRICAL EQUIPMENT AND MATERIAL. ALL CUTTING, PATCHING, REPAIRING, REPLACEMENT AND REFINISHING, SHALL MATCH THE EXISTING CONSTRUCTION AS NEARLY AS POSSIBLE.
18. ALL WIRING (POWER, LIGHTING) NOT REUSED FOR REMODELING AREAS SHALL BE COMPLETELY REMOVED BACK TO ASSOCIATED PANELS.
19. THE OWNER SHALL HAVE THE FIRST CHOICE TO ACCEPT EXISTING DEVICES BEING REMOVED.
20. REMOVE ALL ABANDONED CONDUITS, BOXES AND WIRING WITHIN PROJECT AREA.
21. FIRE ALARM SYSTEM SHALL BE MAINTAINED DURING PROJECT.
22. CEILING MOUNTED DEVICES TO REMAIN SHALL BE SUPPORTED FROM STRUCTURE DURING CONSTRUCTION AND REINSTALLED IN NEW CEILING.
23. ARRANGEMENTS SHALL BE MADE WITH OWNER REPRESENTATIVE TO COORDINATE FIRE ALARM SYSTEM OUTAGE.
24. CONTRACTOR SHALL PROTECT EXISTING CABLES DURING ALL PHASES OF CONSTRUCTION.
25. ALL DEVICES (EXIT SIGNS, FIRE ALARM, LIGHTING, ETC) THAT ARE TAKEN OUT OF SERVICE AND NOT REUSED SHALL BE RETURNED TO THE OWNER.

LIGHTING

SYMBOL	DESCRIPTION
	NO SHADING INDICATES NORMAL POWER
	HALF SHADED INDICATES UNSWITCHED EMERGENCY POWER
	FULL SHADED INDICATES SWITCHED EMERGENCY POWER
	24" x 48" LIGHTING FIXTURE
	24" x 24" LIGHTING FIXTURE
	12" x 48" LIGHTING FIXTURE
	12" x 36" LIGHTING FIXTURE
	12" x 24" LIGHTING FIXTURE
	12" x 12" LIGHTING FIXTURE
	12" x 96" LIGHTING FIXTURE
	6" x 96" LIGHTING FIXTURE
	6" x 48" LIGHTING FIXTURE
	6" x 36" LIGHTING FIXTURE
	6" x 24" LIGHTING FIXTURE
	8" DOWNLIGHT
	6" DOWNLIGHT
	4" DOWNLIGHT
	WALL MOUNTED LIGHT
	CEILING EXIT LIGHT (DUAL FACED)
	CEILING EXIT LIGHT (SINGLE FACE)
	WALL EXIT LIGHT
	WALL EXIT WITH EMERGENCY LIGHTS
	WALL EXIT WITH INTERIOR AND EXTERIOR EMERGENCY LIGHTS
	EXIT LIGHT DIRECTIONAL ARROWS
	WALL EMERGENCY BATTERY LIGHT
	CEILING EMERGENCY BATTERY LIGHT
	EXTERIOR POLE LIGHT (ONE HEAD)
	EXTERIOR POLE LIGHT (TWO HEADS)
	EXTERIOR POLE LIGHT (THREE HEADS)
	EXTERIOR POLE LIGHT (FOUR HEADS)
	EXTERIOR POLE LIGHT (TOP MOUNT)
	EXTERIOR BOLLARD

ELECTRICAL SWITCHES

SYMBOL	DESCRIPTION
$	TOGGLE SWITCH - 20 AMP, 120/277VAC
$3	TOGGLE SWITCH - 3 WAY
$4	TOGGLE SWITCH - 4 WAY
$K	TOGGLE SWITCH - KEY OPERATED
$T	TOGGLE SWITCH - HORSE POWER RATED MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION
$P	TOGGLE SWITCH - PILOT LIGHT
D	DIMMER SWITCH - 20 AMP, 120/277VAC
D3	DIMMER SWITCH - 3 WAY
D4	DIMMER SWITCH - 4 WAY
XCI	WALL OCCUPANCY SENSOR - 1 BUTTON CONTROL
XCS	WALL OCCUPANCY SENSOR - 2 BUTTON CONTROL
XCL	WALL OCCUPANCY SENSOR - DUAL RELAY FOR EXHAUST FAN CONTROL
XC	CEILING OCCUPANCY SENSOR
VSI	WALL VACANCY SENSOR - 1 BUTTON CONTROL
VSS	WALL VACANCY SENSOR - 2 BUTTON CONTROL
LC	LOW VOLTAGE LIGHTING CONTROLLER
T	0 - 3 HOUR TIMER SWITCH - 20 AMP, 120/277VAC
PC	PHOTO CELL

ELECTRICAL EQUIPMENT

SYMBOL	DESCRIPTION
	PAD MOUNTED TRANSFORMER
	SUSPENDED TRANSFORMER
	DISTRIBUTION PANELBOARD
	BRANCH PANELBOARD - RECESSED MOUNT
	BRANCH PANELBOARD - SURFACE MOUNT
	DISCONNECT SWITCH - NON-FUSED
	DISCONNECT SWITCH - FUSED
	MOTOR CONTROLLER
	COMBINATION MOTOR CONTROLLER / DISCONNECT
	TELECOM TERMINAL BOARD
	GROUND BAR
	JUNCTION OR PULL BOX
	PUSHBUTTON OR PUSH PLATE
	ELECTRIC THERMOSTAT
	MOTOR ("X" DENOTES HORSEPOWER)
	MOLDED CASE CIRCUIT BREAKER
	GROUND CONNECTION
	GROUND POINT
	GROUND ROD
	GENERATOR
	AUTOMATIC TRANSFER SWITCH

ELECTRICAL RECEPTACLES

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	DUPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	DUPLEX GFCI RECEPTACLE - NORMAL POWER CIRCUIT
	DUPLEX GFCI RECEPTACLE - EMERGENCY POWER CIRCUIT
	QUADRAPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	QUADRAPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	QUADRAPLEX GFCI RECEPTACLE - NORMAL POWER CIRCUIT
	QUADRAPLEX GFCI RECEPTACLE - EMERGENCY POWER CIRCUIT
	SIMPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	SIMPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	SPECIAL RECEPTACLE - NORMAL POWER CIRCUIT
	SPECIAL RECEPTACLE - EMERGENCY POWER CIRCUIT
	DUPLEX RECEPTACLE - TOP SWITCHED

RECEPTACLE LEGEND

RECEPTACLE ABOVE COUNTERTOP AT +2" ABOVE BACKSPLASH TO BOTTOM OF DEVICE. COORDINATE WITH CASEWORK TO BE INSTALLED.

RECEPTACLE INSTALLED BELOW COUNTERTOP AT +18" A.F.F. COORDINATE WITH CASEWORK TO BE INSTALLED.

"X" DENOTES AS FOLLOWS:
- NONE - 20 AMP, 125VAC
- HM - 20 AMP, 125VAC, HORIZONTAL MOUNT TYPE
- IG - 20 AMP, 125VAC, ISOLATED GROUND TYPE
- S - 20 AMP, 125VAC, SURGE GUARD PROTECTION TYPE
- ST - 20 AMP, 125VAC, SAFETY TYPE
- WP - 20 AMP, 125VAC, WEATHERPROOF TYPE

	CEILING DUPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	CEILING DUPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	CEILING QUADRAPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	CEILING QUADRAPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	FLOOR BOX DUPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	FLOOR BOX DUPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	FLOOR BOX QUADRAPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	FLOOR BOX QUADRAPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	FLOOR BOX BLANK
	FLOOR BOX POWER AND TELECOM
	MULTI-OUTLET ASSEMBLY (POWER AND/OR TELECOM)

INFORMATION SYSTEMS

SYMBOL	DESCRIPTION
	VOICE AND DATA ONLY OUTLET
	"X" DENOTES AS FOLLOWS: # - QUANTITY OF JACK(S) AND CABLE(S) R - ROUGH-IN ONLY
	CEILING - VOICE AND DATA
WAP	WAP - WIRELESS ACCESS POINT
	FLOOR BOX - VOICE AND DATA
	TELECOMMUNICATIONS EQUIPMENT RACK
TV	TV SYSTEM OUTLET
AV	AUDIO/VISUAL CONTROLLER
C	CLOCK SYSTEM OUTLET
M	MICROPHONE INPUT RECEPTACLE - WALL MOUNTED
M	MICROPHONE INPUT RECEPTACLE - CEILING MOUNTED
S	SPEAKER - CEILING MOUNTED
S	SPEAKER - WALL MOUNTED
V	VOLUME CONTROL

DOOR SECURITY SYSTEM

SYMBOL	DESCRIPTION
CCTV	CCTV COAXIAL CABLE OUTLET AND POWER OUTLET
MTV	CCTV MONITOR OUTLET
	DOOR BUZZER
DR	ELECTRIC DOOR OPENER
ES	ELECTRIC DOOR STRIKE
IC	INTERCOM UNIT FLUSH MTD.
MI	MASTER INTERCOM AND DIRECTORY UNIT
DS	SECURITY DUTY STATION
SS	SECURITY STAFF STATION
ML	SECURITY DOOR ALARM MAGNETIC LOCK
CR	SECURITY CARD READER
MD	MOTION DETECTOR
DC	SECURITY DOOR CONTACTS
PB	SECURITY EXIT PUSH BUTTON
SM	SECURITY MONITOR
DE	SECURITY DOOR EGRESS
K	SECURITY KEYPAD
BS	BIOSCAN ACCESS PAD
	CAMERA
SCP	SECURITY CONTROL PANEL

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
M	MANUAL SENDING STATION
SD	WALL SMOKE DETECTOR
SDS	WALL SMOKE DETECTOR WITH SOUNDER BASE
SD	CEILING SMOKE DETECTOR
SDS	CEILING SMOKE DETECTOR WITH SOUNDER BASE
DCT X	AUTOMATIC DUCT DETECTOR ("X" DENOTES AS FOLLOWS) NONE - PHOTOELECTRIC TYPE S - SUPPLY R - RETURN
RT	REMOTE DETECTOR TEST STATION
RI	REMOTE DETECTOR INDICATOR STATION
HD	HEAT DETECTOR
FD	FLAME DETECTOR
BD	BEAM DETECTOR
H	WALL HORN ONLY
HS	WALL HORN STROBE
H	CEILING HORN ONLY
H	CEILING HORN STROBE
S	WALL SPEAKER ONLY
SS	WALL SPEAKER STROBE
S	CEILING SPEAKER STROBE
VS	WALL VISUAL ONLY
V	CEILING VISUAL ONLY
AR	FIRE ALARM ADDRESSABLE RELAY
J	FIREMANS JACK
DU	DOOR UNLOCK
DR	DOOR RELEASE
FS	SPRINKLER SYSTEM FLOW SWITCH
TS	SPRINKLER SYSTEM TAMPER SWITCH
PIV	POST INDICATOR VALVE
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
NAC	FIRE ALARM NOTIFICATION APPLIANCE CONTROL PANEL

ELECTRICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A or AMP	AMPERE	HZ	HERTZ
AC	ALTERNATING CURRENT	IC	INTERCOMMUNICATION
A/C	AIR CONDITIONING	ID	INSIDE DIAMETER
ACP	ACCESS PANEL	INCAN	INCANDESCENT
ACU	AIR CONDITIONING UNIT	INCL	INCLUDE
ADD	ADDITION	ISG	ISOLATED GROUND SURGE GUARD
ADJ	ADJUSTABLE	JB	JUNCTION BOX
AF	AMPERE FRAME	JT	JOINT
AFC	ABOVE FINISHED CEILING	KEC	KITCHEN EQUIPMENT CONTRACTOR
AFF	ABOVE FINISHED FLOOR	KT	KITCHENETTE
AFG	ABOVE FINISHED GRADE	KVA	KILOVOLT AMPERE
AHU	AIR HANDLING UNIT	KVAR	KILOVOLT AMPERE REACTIVE
AIC	AMPERE INTERRUPTING CAPACITY	KW	KILOWATT
AL	ALUMINUM	LAB	LABORATORY
AM	AMMETER	LB	POUND
AMB	AMBIENT	LF	LINEAR FEET
APPROX.	APPROXIMATELY	LOC	LOCATION
ARCH	ARCHITECT	LS	LIFE SAFETY
ATS	AUTOMATIC TRANSFER SWITCH	LT	LIGHT
AUTO	AUTOMATIC	LTG	LIGHTING
AVG	AVERGE	LV	LOW VOLTAGE
BC	BARE COPPER	MATV	MASTER ANTENNA TELEVISION
BKR	BREAKER	MAX	MAXIMUM
BHP	BRAKE HORSEPOWER	MC	MECHANICAL CONTRACTOR
BL	BUILDING LINE	MCB	MAIN CIRCUIT BREAKER
BLDG	BUILDING	MCC	MOTOR CONTROL CENTER
BR	BRANCH	MDP	MAIN DISTRIBUTION PANEL
BTM	BOTTOM	MECH	MECHANICAL
C	CONDUIT	MH	MANHOLE
°C	DEGREES CELSIUS	MIN	MINIMUM
CAB	CABINET	MISC	MISCELLANEOUS
CB or C/B	CIRCUIT BREAKER	MLO	MAIN LUGS ONLY
C/C	CENTER TO CENTER	MTD	MOUNTED
CCTV	CLOSED CIRCUIT TELEVISION	MTG HT	MOUNTING HEIGHT
CKT	CIRCUIT	MU	MEDICINE UNIT
CL	CENTER LINE	OD	OUTSIDE DIAMETER
CLG	CEILING	OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED
COL	COLUMN	OFOI	OWNER FURNISHED-OWNER INSTALLED
COMM	COMMUNICATION	OPNG	OPENING
COMP	COMPRESSOR	OPP	OPPOSITE
CONC	CONCRETE	OR	OPERATING ROOM
CONST	CONSTRUCTION	P	POLE
CONT	CONTINUOUS	PB	PUSHBUTTON
CONTR	CONTRACTOR	PBOX	PULL BOX
CR	CRITICAL	PE	PNEUMATIC ELECTRIC CONVERTER
CT	CURRENT TRANSFORMER	PF	POWER FACTOR
CU	COPPER	PH or Ø	PHASE
DB	DIRECT BURIAL	PV	POST INDICATOR VALVE
DC	DIRECT CURRENT	PNL	PANELBOARD
DEPT	DEPARTMENT	PL	PILOT LIGHT
DF	DRINKING FOUNTAIN	PREFAB	PREFABRICATED
DIST	DISTRIBUTION	PRES	PRESSURE
DM	DEMAND METER	PT	PNEUMATIC TUBE
DO	DRAWOUT	PTS	PNEUMATIC TUBE STATION
DRS	DOCTORS	PW	PART WINDING
DWG	DRAWING	PWR	POWER
EC	ELECTRICAL CONTRACTOR	RADU	ROOM AIR CONDITIONING UNIT
EF	EXHAUST FAN	RAD	RADIATION
ELEC	ELECTRIC	RECEPT	RECEPTACLE
ELEV	ELEVATOR	REF or REFR	REFRIGERATOR
ELV	ELEVATION	REINF	REINFORCED
EMER	EMERGENCY	RGIP	REMOTE GROUND INDICATING PANEL
ENCL	ENCLOSURE	RM	ROOM
EP	ELECTRIC PNEUMATIC	RPM	REVOLUTIONS PER MINUTE
EQUIP	EQUIPMENT	SA	SUPPLY AIR
EWC	ELECTRIC WATER COOLER	SC	SHORT CIRCUIT
EX	EXPLOSIONPROOF	SG	SURGE GUARD PROTECTION
EXH	EXHAUST	SHT	SHEET
EXP	EXPANSION	SIG	SIGNAL
EXT	EXTERIOR	SN	SOLID NEUTRAL
°F	DEGREES FAHRENHEIT	SPEC	SPECIFICATIONS
FA	FIRE ALARM	SQ	SQUARE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SS	SAFETY SWITCH
FACP	FIRE ALARM CONTROL PANEL	SSSS	SOLID STATE SOFT START
FC	FLAT CABLE	STD	STANDARD
FCU	FAN COIL UNIT	STN	STATION
FFC	FOOD FACILITY CONTRACTOR	STR	STRUCTURAL
FFS	FOOD FACILITY SUPPLIER	SUSP	SUSPENDED
FHC	FIRE HOSE CABINET	SW	SWITCH
FIN	FINISH	SWBD	SWITCHBOARD
FIXT	FIXTURE	SWGR	SWITCHGEAR
FL	FLOOR	TCC	TEMPERATURE CONTROL CONTRACTOR
FLUOR	FLUORESCENT	TELE	TELECOMMUNICATION
FLEX-CONN	FLEXIBLE CONNECTION	TEMP	TEMPERATURE
FPC	FIRE PROTECTION CONTRACTOR	TMH	TOP OF MANHOLE
FSS	FUSED SAFETY SWITCH	TV	TELEVISION
FTG	FOOTING	TYP	TYPICAL
FVR	FILMVIEWER	UC	UNDER CARPET
FV	FULL VOLTAGE	UIC	UNDER CABINET or UNDER COUNTER
FVNR	FULL VOLTAGE NON REVERSING	UH	UNIT HEATER
G or GND	GROUND	UV	UNIT VENTILATOR
GALV	GALVANIZED	V	VOLT
GC	GENERAL CONTRACTOR	VAC	VACUUM
GEN	GENERATOR	VB	VACUUM BREAKER
GFCI	GROUND FAULT CKT. INTERRUPTER	VC	VACUUM CLEANING
GFI	GROUND FAULT INTERRUPTER	VEL	VELOCITY
GFP	GROUND FAULT PROTECTION	VFD	VARIABLE FREQUENCY DRIVE
HGT	HEIGHT	VM	VOLTMETER
HH	HANDHOLE	VOL	VOLUME
HID	HIGH INTENSITY DISCHARGE	VP	VAPORPROOF
HO	HAND OPERATED	VSD/VFC	VARIABLE SPEED DRIVE/CONTROLLER
HOA	HAND-OFF-AUTOMATIC	W	WITH
HORZ	HORIZONTAL	W/O	WITHOUT
HP	HORSEPOWER	WTR	WATER
HPS	HIGH PRESSURE SODIUM	WP	WEATHERPROOF
HTR	HEATER	WT	WEIGHT
HV	HIGH VOLTAGE	XFMR	TRANSFORMER
		Z	IMPEDANCE

RACEWAY SYSTEM

SYMBOL	DESCRIPTION
FXX	FEEDER SIZE. (REFER TO FEEDER SCHEDULE FOR ADDITIONAL INFORMATION)
	PHASE CONDUCTORS
	NEUTRAL
	GROUND

LINE SYMBOLS

- LIGHT/SCREENED SOLID OR DASHED LINES INDICATE EXISTING TO REMAIN
- HEAVY DASHED LINES INDICATE EXISTING TO BE REMOVED
- HEAVY CONTINUOUS LINES INDICATE NEW WORK

2

	Description of Responsibility for Scope of Work	Low Voltage System Type & Proposed Responsibility Matrix								Abbreviations	
		Fire Alarm	Lighting Control	Secure Area Lighting Control	IT Phone / Data	Security / Access Control	CCTV / Security Cameras	Audio / Visual Systems	Coaxial TV		
1	Provide rough-ins, including backboxes, conduits, sleeves, and pathways indicated on drawings.	EC	EC	EC	EC	EC	EC	EC	EC	N/A	Not Applicable
2	Furnish system wiring.	EC	EC	EC	EC	EC	EC	AVC	TC	EC	Electrical Contractor
3	Install system wiring, including above ceiling J-hooks.	EC	EC	EC	EC	EC	EC	AVC	TC		
4	Terminate system wiring at all devices and system panels or equipment.	EC	EC	EC	EC	EC	EC	AVC	TC	TC	Telecommunications Contractor
5	Furnish system equipment, including ladder rack and server racks where indicated on drawings.	EC	EC	SEC	TC	SEC	SEC	AVC	TC		
6	Install system equipment, including all necessary bonding systems to secondary bonding bar.	EC	EC	EC	TC	EC	EC	AVC	TC	SEC	Security Electronics Contractor
7	Provide testing and acceptance of the installed system.	EC	EC	EC	EC	SEC	SEC	AVC	TC		
8	Provide telecom connection to the system panel.	EC	EC	EC	EC	EC	SEC	AVC	TC		
9	Provide power connection to system panel.	EC	EC	EC	EC	EC	EC	EC	EC	AVC	Audio Visual Contractor

General Note: This matrix is provided to assist in determining the division of work on this project. Refer to contract and bid documents for final determination of scope of work.

ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS
HARRISON COUNTY JAIL
MEP RENOVATION
1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25

Project #: 01-700-070
Designed By: SGD
Drawn By: SGD
Checked By: JAF
Date: 11.21. 2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER
Dustin Barth

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UNIT A
UNIT B

ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES

E001

GENERAL NOTES - SITE:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. COORDINATE ALL INCOMING ELECTRICAL SERVICE WORK WITH THE ELECTRICAL UTILITY COMPANY. PAY ALL FEES AND OTHER COSTS NOT BORNE BY THE ELECTRICAL UTILITY COMPANY TO PROVIDE NEW ELECTRICAL SERVICE TO THE PROJECT BUILDING.

C. PROVIDE PULL STRINGS IN ALL UTILITY CONDUITS.

D. ALL EXTERIOR CONDUITS SHALL BE INSTALLED BELOW THE FROST LINE.

E. COORDINATE LOCATIONS OF ALL UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES, UNDERGROUND DRAINS, SERVICES, STRUCTURES, AND PAVING.

F. PROVIDE ADDITIONAL HANDHOLES AND MANHOLES AS REQUIRED BY THE UTILITY COMPANIES. COORDINATE REQUIREMENTS WITH UTILITY COMPANIES PRIOR TO BID.

G. COORDINATE ALL ROUTING AND TERMINATION LOCATIONS WITH THE UTILITY COMPANIES PRIOR TO BID.

H. ALL CONDUCTORS FOR EXTERIOR LIGHTING AND POWER CIRCUITS SHALL BE #10 AWG MINIMUM.

PLAN NOTES

#	NOTE
1	PROPOSED UTILITY TRANSFORMER LOCATION. COORDINATE EXACT LOCATION WITH UTILITY. PROVIDE CONCRETE PIT / PAD AND ASSOCIATED BOLLARDS AS REQUIRED BY THE UTILITY. REFER TO ELECTRICAL ONELINE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
2	PROPOSED ROUTING OF UTILITY PRIMARY CONDUIT. EXACT ROUTING TO BE COORDINATED WITH ELECTRIC UTILITY AND ALL OTHER UNDERGROUND UTILITIES IN AREA. EC SHALL PROVIDE CONDUIT SIZE, QUANTITY, AND TYPE AS REQUIRED BY UTILITY. PROVIDE CONDUIT FROM TRANSFORMER TO BACK OF ROAD RIGHT OF WAY, COORDINATE EXACT LOCATION WITH ELECTRIC UTILITY. CONDUIT BURY DEPTH SHALL BE AS REQUIRED BY ELECTRIC UTILITY AND SHALL BE PROVIDED WITH PULL ROPE. CONDUIT SHALL HAVE A MAXIMUM OF (3)90 DEGREE SWEEPING ELBOWS BETWEEN PULL POINTS, AND ELBOWS SHALL NOT BE HANDMADE. CONFIRM EXACT ELBOW REQUIREMENTS WITH UTILITY PRIOR TO INSTALLATION.
3	PROPOSED GENERATOR LOCATION. COORDINATE EXACT LOCATION WITH ALL OTHER SITE UTILITIES. PROVIDE CONCRETE PAD AS PER MANUFACTURER'S REQUIREMENTS WITH A MINIMUM OF 4 FEET WORKING CLEARANCE AROUND ALL SIDES. PLACE 6" DIAMETER BOLLARDS TO PROTECT FROM VEHICULAR TRAFFIC.
4	PROVIDE METER AND CT CABINET AS PER ELECTRIC UTILITY. MAINTAIN 3 FEET CLEARANCE IN FRONT OF METER.
5	CONNECT COMPLETE LIFT STATION / DUPLEX GRINDER PUMP SYSTEM WITH ALARM PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CIVIL DRAWINGS PRIOR TO INSTALLATION. PROVIDE DISCONNECTING MEANS AND 7.5kVA 208/240 VOLT BUCK/BOOST TRANSFORMER WITH NEMA 3R HOUSING AS REQUIRED
6	208V/100A/3P NEMA 3R DISCONNECT SWITCH MOUNTED ON A 6 "X6" WOODEN POST FOR A TEMPORARY KITCHEN TRAILER FEEDER. CONNECT WITH FEEDER F100 TO SPARE BREAKER IN MDP.
7	208V/100A/3P NEMA 3R DISCONNECT SWITCH MOUNTED ON A 6 "X6" WOODEN POST FOR A TEMPORARY OFFICE TRAILER FEEDER. CONNECT WITH FEEDER F100 TO SPARE BREAKER IN MDP. IN SEPARATE 2 "C PROVIDE A 6PR MULTIMODE FIBER OPTIC CABLE ROUTED TO ELECTRONICS ROOM #1034 TO PROVIDE LAN, INTERNET AND VOIP SERVICES. PROVIDE ALL FINAL TERMINATIONS TO LAN SYSTEM.

ALTERNATE BID SANITARY GRINDER PUMP WITH CONTROL PANEL. DIRECTIONAL BORE TO ELECTRICAL ROOM

LRA: 1.3.5
F:60

S07-06E
M01-04-22S
S22-40-10W
137.09
HARRISON COUNTY R.E.M.C. POWER LINE
LIMITED ACCESS ROW FENCE
754.90
S69-40-28E
3" STEEL
25# PRESSURE
EXIST SERVICE ENTRANCE XFMR
EXIST GEN SET
EXIST DIESEL FUEL TANK
ELECTRIC UTILITY COMPANY JUNCTION BOX
(2) 4" CONDUITS FOR UTILITY COMPANY PRIMARY SERVICE DIRECTIONAL BORE CONDUITS UNDER STREET
NEW SERVICE ENTRANCE XFMR
GEN SET
PORTABLE CONNECTION CABINET
868.49
713.49
N89-40-28W
660.65
3 PHASE POWER POLE
MAIN
SS

1 ELECTRICAL SITE PLAN
1" = 30'-0"

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25

Project #: 01-700-070
Designed By: SGD
Drawn By: SGD
Checked By: JAF
Date: 11.21. 2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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UNIT A
UNIT B

N

ELECTRICAL SITE PLAN

E010

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PLAN NOTES

#	NOTE
1	EXISTING OVERHEAD DOOR OPERATOR MOTOR, UP/DOWN CONTROL SWITCH, SAFETY SENSORS AND LOW VOLTAGE WIRING TO REMAIN. DISCONNECT LINE VOLTAGE CIRCUIT AND REMOVE DISCONNECT SWITCH.
2	EXISTING DETENTION ACCESS CONTROL RELAY PANEL TO REMAIN. ALL RELAYS AND CONTROL WIRING TO REMAIN.
3	DISCONNECT AND REMOVE ALL LINE VOLTAGE ELECTRICAL DEVICES AND RACEWAYS BACK TO SOURCE EXCEPT WHEN NOTED OTHERWISE. THIS INCLUDES DISCONNECTING CIRCUITS TO MECHANICAL / PLUMBING EQUIPMENT, DISCONNECT SWITCHES, MOTOR STARTERS, PANELBOARDS, DISTRIBUTION PANELS, LIGHT FIXTURES AND SWITCHES. EXISTING LOW VOLTAGE SYSTEMS AND WIRING SUCH AS LAN, DETENTION ACCESS CONTROL, CCTV TO REMAIN IN SERVICE AND FULLY FUCTIONAL. VERIFY PHASING PLANS BEFORE ANY DEMOLITION AND THE EFFECTS THAT WILL RESULT IN OTHER AREAS OF THE BUILDING, TYPICAL OF ALL.
4	THE LAN MAIN DISTRIBUTION FRAME (MDF) AND SECURITY ELECTRONICS LOCATED IN ROOM #1034 SHALL REMAIN IN SERVICE AT ALL TIMES. ALL WIRING WITH-IN THIS ROOM AND WIRING EXTENDING FROM THIS ROOM TO OTHER AREAS ARE TO REMAIN INTACT AND FULLY FUNCTIONAL AT ALL TIMES.
5	THIS ROOM HAS A RAISED COMPUTER FLOOR WITH A SIGNAL GROUNDING GRID. MAINTAIN ALL GROUNDING CONDUCTORS.
6	REMOVE FIRE ALARM PANEL AFTER FINAL PHASE AT COMPLETION OF PROJECT. EXISTING FIRE ALARM SYSTEM IS TO REMAIN IN SERVICE DURING RENOVATION. REPROGRAM SYSTEM AS DEVICES ARE REMOVED BEFORE MOVING INTO A DIFFERENT PHASE OF CONSTRUCTION.
7	EXISTING SITE LIGHTING CIRCUITS ARE TO REMAIN AND BE EXTENDED TO NEW PANEL "OPLA". PROVIDE ACCESSIBLE JUNCTION / SPLICE BOX AND LABEL ALL CIRCUITS.
8	REMOVE MAIN DISTRIBUTION PANEL, TRANSFER SWITCH AND MOTOR CONTROL SECTION AFTER FINAL PHASE AT COMPLETION OF PROJECT.
9	DISCONNECT EXISTING ENGINE GERERATOR SET AFTER FINAL PHASE AT COMPLETION OF PROJECT. GEN SET AND FUEL TANKS TO REMAIN FOR RELOCATION TO A NEW SITE BY OWNER.
10	ALL RECEPTACLE WIRING WITH-IN THIS ROOM IS FED FROM A UPS SYSTEM LOCATED IN ROOM #1034 AND IS TO REMAIN IN SERVICE AS WELL AS ALL LOW VOLTAGE DETENTION ACCESS CONTROL WIRING.
11	RELAY PANEL "RB" TO BE RELOCATED TO A NEW LOCATION. EXTEND ALL LOW VOLTAGE CONTROL WIRING AND PREPARE CABINET FOR NEW LINE VOLTAGE CIRCUITS.
12	EXISTING FIRE ALARM FLOW AND TAMPER SWITCHES FOR FIRE SUPPRESSION SPRINKLER SYSTEM TO REMAIN IN SERVICE THROUGH THE FINAL PHASE.
13	EXISTING KITCHEN HOOD FIRE SUPPRESSION SYSTEM LOW VOLTAGE WIRING TO REMAIN INTACT INCLUDING MANUAL PULL STATION.

MAINTAIN RAISED FLOOR GROUNDING SYSTEM

MAINTAIN EXISTING EXTERIOR LIGHTING CIRCUITS FOR EXTENSION TO NEW PANEL "OPLA"

MAINTAIN EXISTING CIRCUIT SERVING OUT BUILDING FOR RECONNECTION TO NEW PANEL

RELOCATE CAMERA TO NEW LOCATION

RELOCATE TWO EXISTING 2" CONDUITS WITH WIRES SERVING OUT BUILDINGS SO AS NOT TO INTERFERE WITH NEW BUILDING ADDITION

METER

SERVICE ENTRANCE XFMR

GEN SET

DIESEL FUEL TANK

ATS

EBPS

NBPS

OPLA

1 E110A FIRST FLOOR ELECTRICAL DEMOLITION PLAN - UNIT A
1/8" = 1'-0"
0 4' 8' 16'

CEILING MOUNTED EXISTING TO REMAIN DEVICES TO BE SUPPORTED DURING THE REMOVAL OF CEILINGS AND PROTECTED FROM DUST AND CONSTRUCTION DEBRIS THEN REINSTALLED INTO NEW CEILINGS AND LEVELED, AIMED AND/OR CALIBRATED TO COMPLETE A FINISHED LOOK AND BE FULLY OPERATIONAL. THESE ITEMS INCLUDE BUT ARE NOT LIMITED TO CAMERAS, SMOKE DETECTORS, SPEAKERS AND WIRELESS ACCESS POINTS. IN SOME CASES THESE DEVICES MAY NEED TO REMAIN IN SERVICE DURING CONSTRUCTION. THE EXISTING CABLING MUST BE PROTECTED TO RETAIN ITS PERFORMANCE SPECIFICATIONS AND NOT BE USED AS A HANGER TO HOLD UP THE DEVICE

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RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070

Designed By: SGD

Drawn By: SGD

Checked By: JAF

Date: 11.21. 2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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UNIT A

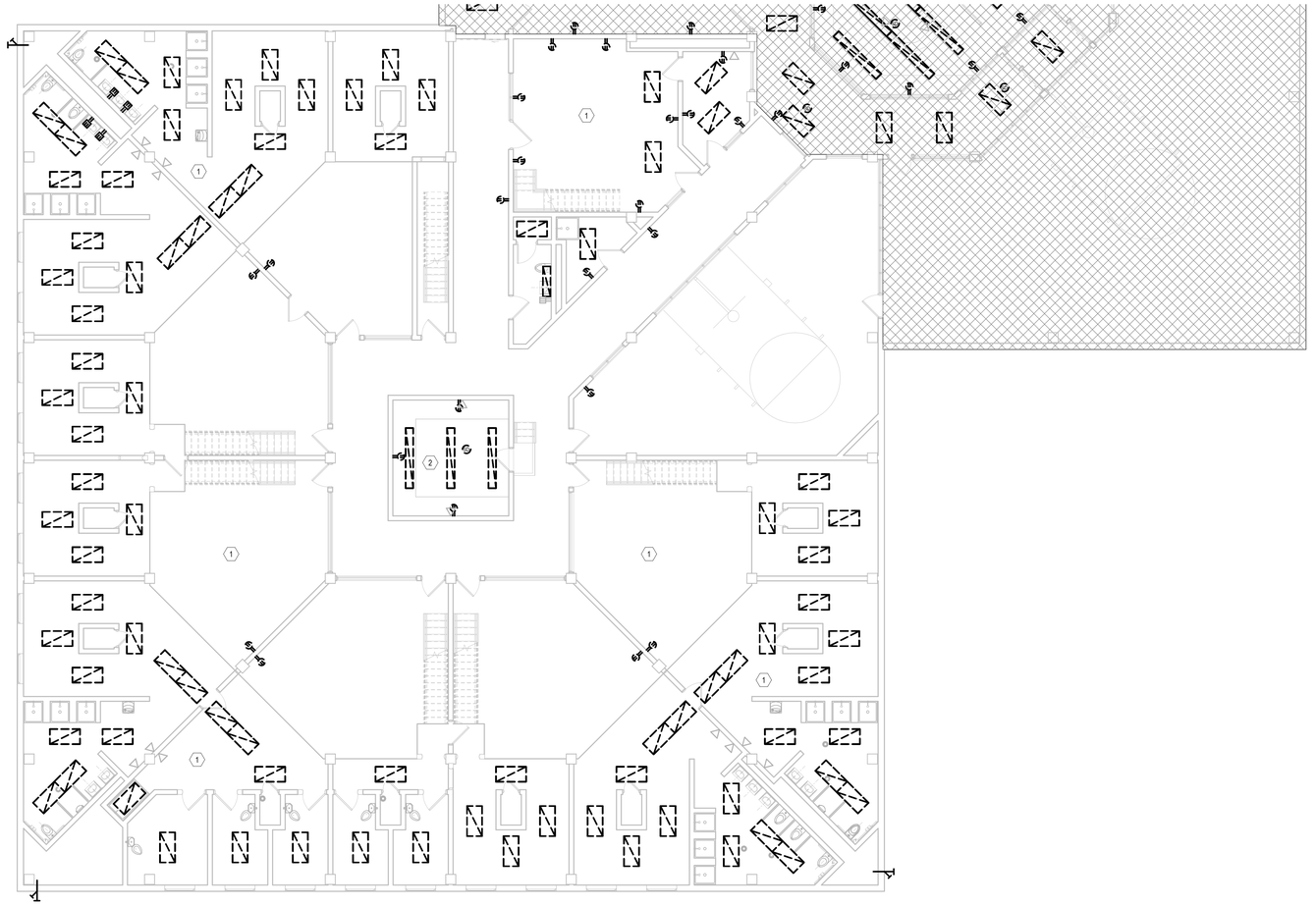
N

FIRST FLOOR ELECTRICAL DEMOLITION PLAN - UNIT A

E110A

PLAN NOTES

#	NOTE
1	DISCONNECT AND REMOVE ALL LINE VOLTAGE ELECTRICAL DEVICES AND RACEWAYS BACK TO SOURCE EXCEPT WHEN NOTED OTHERWISE. THIS INCLUDES DISCONNECTING CIRCUITS TO MECHANICAL / PLUMBING EQUIPMENT, DISCONNECT SWITCHES, MOTOR STARTERS, PANELBOARDS, DISTRIBUTION PANELS, LIGHT FIXTURES AND SWITCHES. EXISTING LOW VOLTAGE SYSTEMS AND WIRING SUCH AS LAN, DETENTION ACCESS CONTROL, CCTV TO REMAIN IN SERVICE AND FULLY FUCTIONAL. VERIFY PHASING PLANS BEFORE ANY DEMOLITION AND THE EFFECTS THAT WILL RESULT IN OTHER AREAS OF THE BUILDING. TYPICAL OF ALL.
2	ALL RECEPTACLE WIRING WITH-IN THIS ROOM IS FED FROM A UPS SYSTEM LOCATED IN ROOM #1034 AND IS TO REMAIN IN SERVICE AS WELL AS ALL LOW VOLTAGE DETENTION ACCESS CONTROL WIRING.


1
1
2
1
1
1

PLAN NOTES

#	NOTE
1	DISCONNECT AND REMOVE ALL LINE VOLTAGE ELECTRICAL DEVICES AND RACEWAYS BACK TO SOURCE EXCEPT WHEN NOTED OTHERWISE. THIS INCLUDES DISCONNECTING CIRCUITS TO MECHANICAL / PLUMBING EQUIPMENT, DISCONNECT SWITCHES, MOTOR STARTERS, PANELBOARDS, DISTRIBUTION PANELS, LIGHT FIXTURES AND SWITCHES. EXISTING LOW VOLTAGE SYSTEMS AND WIRING SUCH AS LAN, DETENTION ACCESS CONTROL, CCTV TO REMAIN IN SERVICE AND FULLY FUCTIONAL. VERIFY PHASING PLANS BEFORE ANY DEMOLITION AND THE EFFECTS THAT WILL RESULT IN OTHER AREAS OF THE BUILDING. TYPICAL OF ALL.
2	LAN INTERMEDIATE DISTRIBUTION FRAME (IDF) TO REMAIN AND ALL CABLING TO REMAIN INTACT AND FUNCTIONAL.
3	COURTROOM EQUIPMENT SUCH AS AUDIO DISTRIBUTION SYSTEM WITH CEILING SPEAKERS AND MICROPHONES, CAMERAS AND VIDEO DISPLAY TO REMAIN. ALL LOW VOLTAGE CABLING TO REMAIN INTACT AND FUNCTIONAL.

CAMERA TO BE RELOCATED TO A NEW LOCATION

CEILING MOUNTED EXISTING TO REMAIN DEVICES TO BE SUPPORTED DURING THE REMOVAL OF CEILINGS AND PROTECTED FROM DUST AND CONSTRUCTION DEBRIS THEN REINSTALLED INTO NEW CEILINGS AND LEVELED, AIMED AND/OR CALIBRATED TO COMPLETE A FINISHED LOOK AND BE FULLY OPERATIONAL. THESE ITEMS INCLUDE BUT ARE NOT LIMITED TO CAMERAS, SMOKE DETECTORS, SPEAKERS AND WIRELESS ACCESS POINTS. IN SOME CASES THESE DEVICES MAY NEED TO REMAIN IN SERVICE DURING CONSTRUCTION. THE EXISTING CABLING MUST BE PROTECTED TO RETAIN ITS PERFORMANCE SPECIFICATIONS AND NOT BE USED AS A HANGER TO HOLD UP THE DEVICE

E120A SECOND FLOOR ELECTRICAL DEMOLITION PLAN - UNIT A
1/8" = 1'-0"
0 4' 8' 16'

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

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2	ADDENDUM 2	12/12/25

Project #: 01-700-070
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STATE OF INDIANA
PROFESSIONAL ENGINEER
Dustin Barth

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UNIT A

N

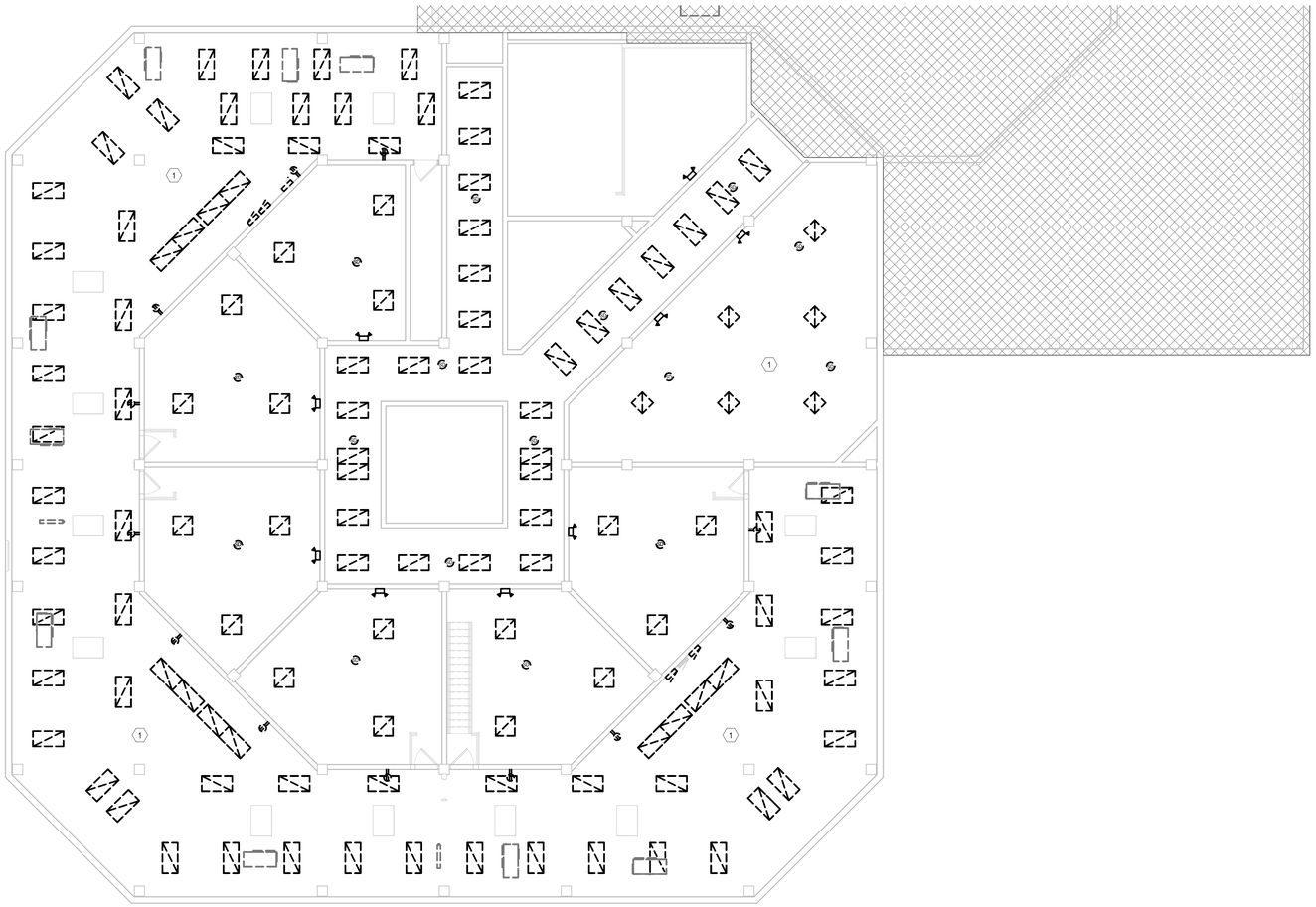
SECOND FLOOR ELECTRICAL DEMOLITION PLAN - UNIT A

E120A

12/12/2025 3:59:34 PM

PLAN NOTES

#	NOTE
1	DISCONNECT AND REMOVE ALL LINE VOLTAGE ELECTRICAL DEVICES AND RACEWAYS BACK TO SOURCE EXCEPT WHEN NOTED OTHERWISE. THIS INCLUDES DISCONNECTING CIRCUITS TO MECHANICAL / PLUMBING EQUIPMENT, DISCONNECT SWITCHES, MOTOR STARTERS, PANELBOARDS, DISTRIBUTION PANELS, LIGHT FIXTURES AND SWITCHES. EXISTING LOW VOLTAGE SYSTEMS AND WIRING SUCH AS LAN, DETENTION ACCESS CONTROL, CCTV TO REMAIN IN SERVICE AND FULLY FUCTIONAL. VERIFY PHASING PLANS BEFORE ANY DEMOLITION AND THE EFFECTS THAT WILL RESULT IN OTHER AREAS OF THE BUILDING. TYPICAL OF ALL.



1 E120B SECOND FLOOR ELECTRICAL DEMOLITION PLAN - UNIT B
1/8" = 1'-0"
0' 4' 8' 16'

CEILING MOUNTED EXISTING TO REMAIN DEVICES TO BE SUPPORTED DURING THE REMOVAL OF CEILINGS AND PROTECTED FROM DUST AND CONSTRUCTION DEBRIS THEN REINSTALLED INTO NEW CEILINGS AND LEVELED, AIMED AND/OR CALIBRATED TO COMPLETE A FINISHED LOOK AND BE FULLY OPERATIONAL. THESE ITEMS INCLUDE BUT ARE NOT LIMITED TO CAMERAS, SMOKE DETECTORS, SPEAKERS AND WIRELESS ACCESS POINTS. IN SOME CASES THESE DEVICES MAY NEED TO REMAIN IN SERVICE DURING CONSTRUCTION. THE EXISTING CABLING MUST BE PROTECTED TO RETAIN ITS PERFORMANCE SPECIFICATIONS AND NOT BE USED AS A HANGER TO HOLD UP THE DEVICE

RQAW

DCCM

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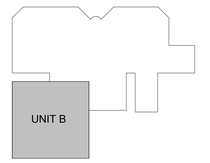


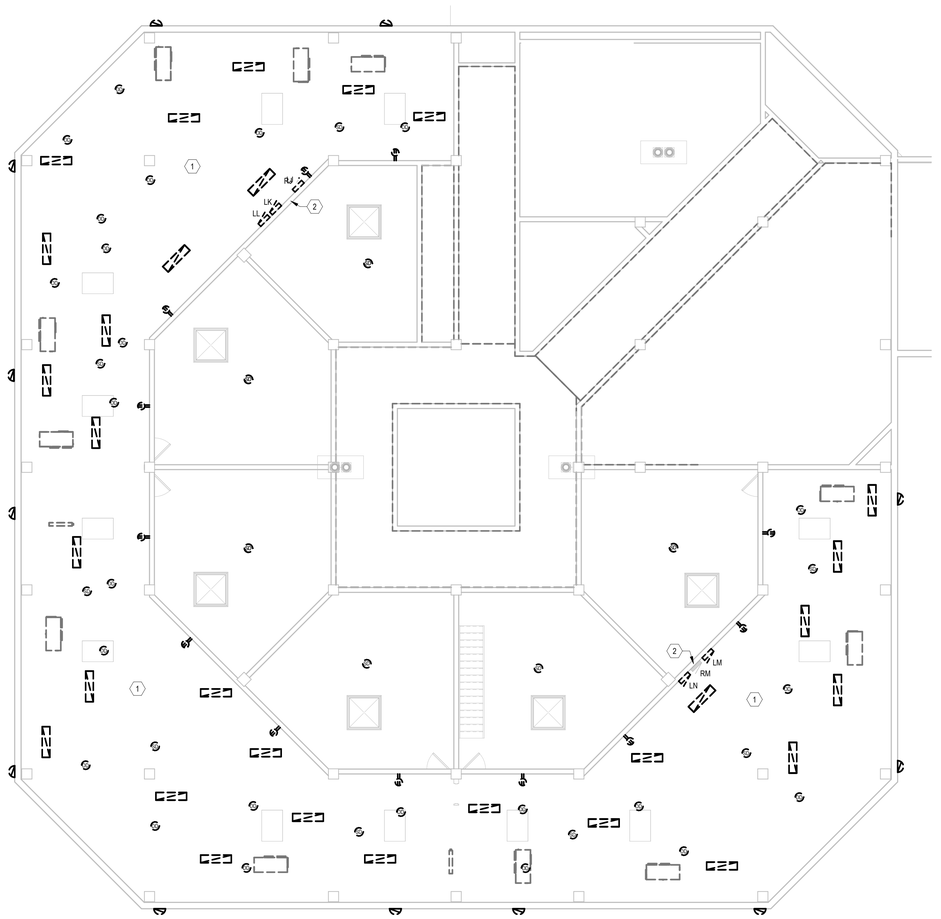
SECOND FLOOR ELECTRICAL DEMOLITION PLAN - UNIT B

E120B

12/12/2025 3:59:35 PM

PLAN NOTES

#	NOTE
1	DISCONNECT AND REMOVE ALL LINE VOLTAGE ELECTRICAL DEVICES AND RACEWAYS BACK TO SOURCE EXCEPT WHEN NOTED OTHERWISE. THIS INCLUDES DISCONNECTING CIRCUITS TO MECHANICAL / PLUMBING EQUIPMENT, DISCONNECT SWITCHES, MOTOR STARTERS, PANELBOARDS, DISTRIBUTION PANELS, LIGHT FIXTURES AND SWITCHES. EXISTING LOW VOLTAGE SYSTEMS AND WIRING SUCH AS LAN, DETENTION ACCESS CONTROL, CCTV TO REMAIN IN SERVICE AND FULLY FUCTIONAL. VERIFY PHASING PLANS BEFORE ANY DEMOLITION AND THE EFFECTS THAT WILL RESULT IN OTHER AREAS OF THE BUILDING. TYPICAL OF ALL.
2	EXISTING DETENTION ACCESS CONTROL RELAY PANEL TO REMAIN. ALL RELAYS AND CONTROL WIRING TO REMAIN.



1 E130B **INTERSTITIAL DEMOLITION PLAN**
1/8" = 1'-0"
0 4' 8' 16'

RQAW

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BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
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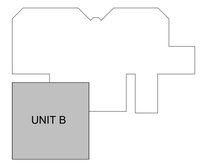

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INTERSTITIAL ELECTRICAL DEMOLITION PLAN - UNIT B

E130B

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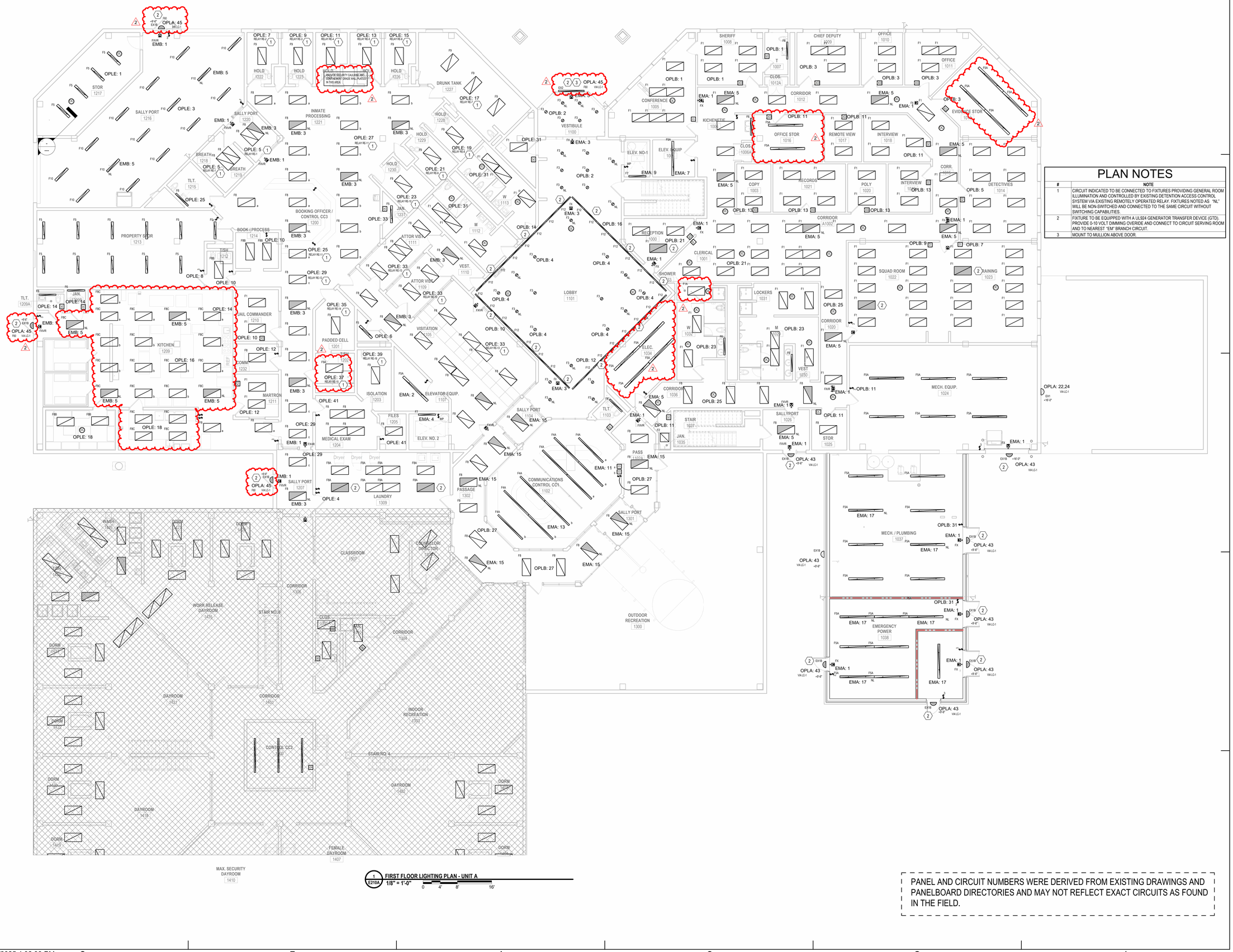
OPLA: 45
EMB: 1
OPLE: 1
STOR 1217
SALLY PORT 1216
OPLE: 3
EMB: 5
TLT. 1215
OPLE: 25
PROPERTY STOR 1213
BOOK-I PROCESS 1214
T/SH 1212
OPLE: 8
OPLE: 10
BOOKING OFFICER / CONTROL CC3 1200
INMATE PROCESSING 1221
SALLY PORT 1220
BREATH 1218
BREATH 1219
OPLE: 5
OPLE: 7
OPLE: 9
OPLE: 11
OPLE: 13
OPLE: 15
HOLD 1222
HOLD 1223
HOLD 1224
HOLD 1225
HOLD 1226
HOLD 1227
HOLD 1228
HOLD 1229
HOLD 1230
OPLE: 17
OPLE: 19
OPLE: 21
OPLE: 23
OPLE: 27
OPLE: 31
OPLE: 33
JAN. 1231
ATTOR VIS 1111
ATTOR VIS 1109
VEST. 1110
W 1113
M 1112
LOBBY 1101
VESTIBULE 1100
OPLB: 2
OPLB: 4
OPLB: 10
OPLB: 12
OPLB: 14
OPLB: 16
OPLB: 21
OPLB: 27
EMA: 3
EMA: 5
EMA: 7
EMA: 9
EMA: 11
EMA: 13
EMA: 15
ELEV. NO-1
ELEV. EQUIP 1106
RECEPTION 1000
CLERICAL 1001
SHOWER
LOCKERS 1031
SHERIFF 1008
CHIEF DEPUTY 1009
OFFICE 1010
OFFICE 1011
OPLB: 1
OPLB: 3
CLOS. 1012A
CONFERENCE 1005
KITCHENETTE 1004
CORRIDOR 1012
OFFICE STOR 1016
EVIDENCE STOR 1015
REMOTE VIEW 1017
INTERVIEW 1018
INTERVIEW 1019
OPLB: 11
OPLB: 13
CLOS. 1006A
COPY 1003
RECORDS 1021
POLY 1020
CORRIDOR A1002
CORR. 1013
DETECTIVES 1014
OPLB: 5
OPLB: 7
OPLB: 9
SQUAD ROOM 1022
TRAINING 1023
CORRIDOR 1020
OPLB: 25
OPLB: 23
M 1032
VEST 1050
ELEC. 1034
CORRIDOR 1036
STAIR 1027
JAN. 1035
SALLYPORT 1026
STOR 1025
MECH. EQUIP. 1024
OPLA: 22,24
OPLA: 43
MECH. / PLUMBING 1037
EMERGENCY POWER 1038
OPLB: 31
OUTDOOR RECREATION 1300
PASS 1102A
PASSAGE 1302
SALLY PORT 1301
COMMUNICATIONS CONTROL CC1 1102
ELEVATOR EQUIP. 1107
ELEV. NO. 2
FILES 1205
MEDICAL EXAM 1204
LAUNDRY 1309
SALLY PORT 1207
SALLY PORT 1104
ISOLATION 1203
PADDED CELL 1201
VISITATION 1105
JAIL COMMANDER 1210
KITCHEN 1209
COMM 1232
MARTRON 1211
REF
OPLE: 6
OPLE: 12
OPLE: 14
OPLE: 16
OPLE: 18
OPLE: 29
OPLE: 35
OPLE: 37
OPLE: 39
OPLE: 41
OPLE: 4
EMB: 1
EMB: 3
EMB: 5
JAN. 1209A
TLT. 1209A
MAX. SECURITY DAYROOM 1410
DAYROOM 1419
DORM 1418
DORM 1417
DAYROOM 1421
DORM 1422
DORM 1423
DAYROOM 1424
DORM 1425
DORM 1426
WORK RELEASE DAYROOM 1425
CORRIDOR 1426
CONTROL CC2 1430
INDOOR RECREATION 1431
STAIR NO. 4
DAYROOM 1432
DORM 1433
DORM 1434
DORM 1435
FEMALE DAYROOM 1407
CLASSROOM 1507
CORRECTIONAL DIRECTOR 1508
CORRIDOR 1506
STAIR NO. 8
CCOS 1504
CORRIDOR 1504
DORM 1503
DORM 1502
DORM 1501
WASH 1505
DORM 1510
DORM 1511
DORM 1512
DORM 1513
DORM 1514
DORM 1515
DORM 1516
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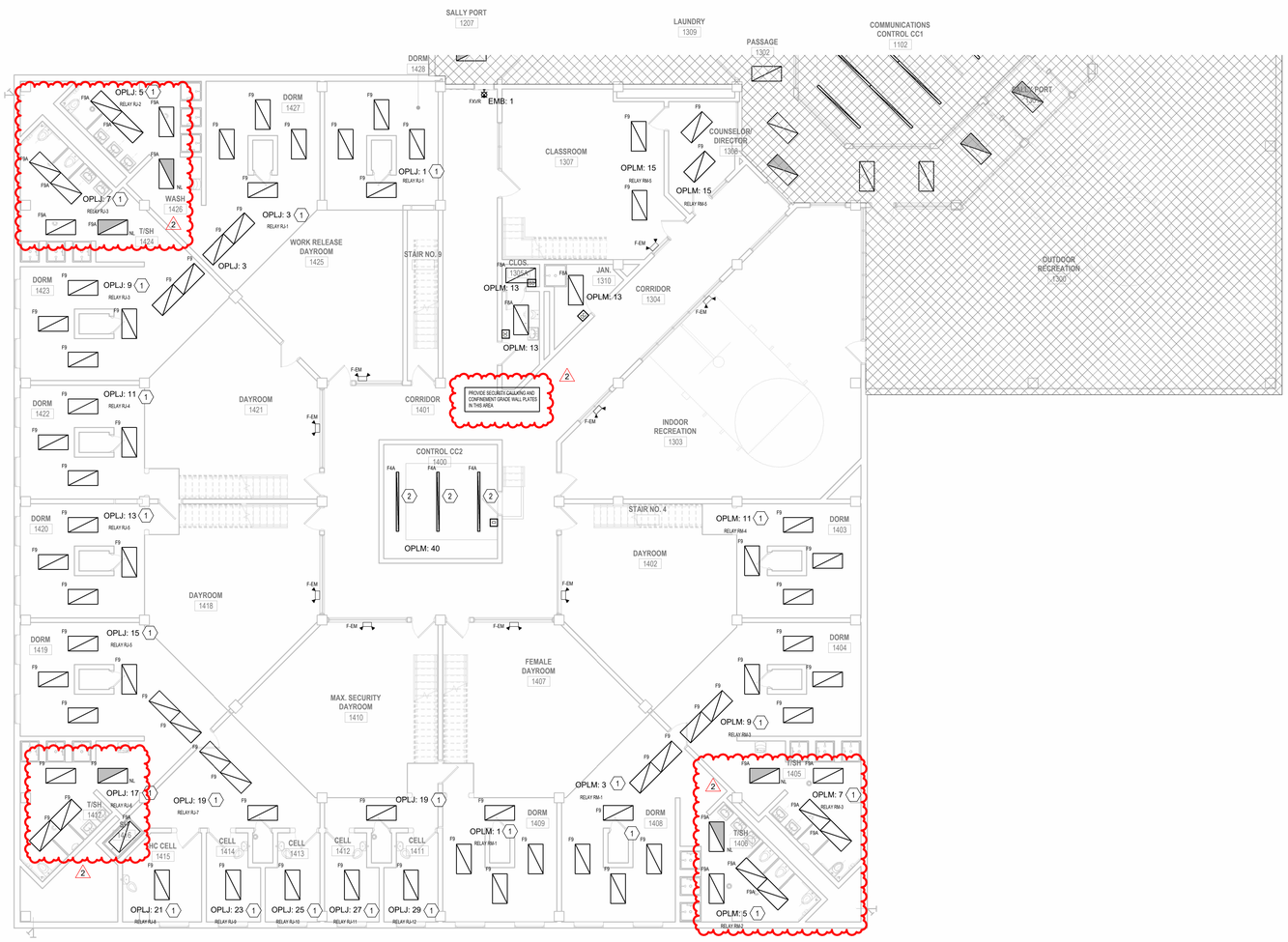
DORM 1529
DORM



1 E210B **FIRST FLOOR LIGHTING PLAN - UNIT B**
1/8" = 1'-0"
0 4' 8' 16'

GENERAL NOTES - LIGHTING:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON TOTAL CIRCUIT DISTANCE.

C. CONNECT ALL EXIT AND EGRESS LIGHTING WITH A MINIMUM OF #10AWG UNLESS NOTED OTHERWISE.

D. PROVIDE ALL OCCUPANCY/VACANCY SENSOR, POWER PACKS, AND ADDITIONAL RELAYS, ETC. AS REQUIRED FOR FULL COVERAGE OF ROOMS/AREAS INDICATED TO HAVE SUCH CONTROL.

E. WALL MOUNTED EXIT LIGHTS SHALL BE MOUNTED AT LEAST 1'-0" ABOVE EXIT OPENING UNLESS NOTED OTHERWISE. CONTRACTOR TO VERIFY HEIGHT OF EXIT OPENING PRIOR TO ROUGH-IN.

F. ALL OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC) UNLESS NOTED OTHERWISE.

G. SCHEDULE A MEETING WITH THE OWNER PRIOR TO PROGRAMMING OF LIGHTING CONTROL DEVICES TO DETERMINE DESIRED CONTROL, TIME DELAY SETTINGS, OCCUPANCY, ETC.

H. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH A FLEXIBLE METAL CONDUIT WITH MAXIMUM LENGTH OF 6 FEET.

I. LIGHT FIXTURES THAT ARE INSTALLED WITHIN A FIRE-RATED CEILING SHALL BE PROVIDED WITH FIRE RATED COVERS IN ORDER TO MAINTAIN THE CEILING FIRE RATINGS. FIRE RATED COVERS SHALL BE COVERS SUCH AS TENMAT FIRE PROTECTION SOLUTIONS OR SIMILAR. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE RATED CEILING LOCATIONS AND PROVIDE COVERS ACCORDINGLY.

PLAN NOTES

#	NOTE
1	CIRCUIT INDICATED TO BE CONNECTED TO FIXTURES PROVIDING GENERAL ROOM ILLUMINATION AND CONTROLLED BY EXISTING DETENTION ACCESS CONTROL SYSTEM VIA EXISTING REMOTELY OPERATED RELAY. FIXTURES NOTED AS "NL" WILL BE NON-SWITCHED AND CONNECTED TO THE SAME CIRCUIT WITHOUT SWITCHING CAPABILITIES.
2	PROVIDE 0-10 VOLT DIMMING OVERRIDE AND CONNECT TO CIRCUIT SERVING ROOM AND TO NEAREST "EM" BRANCH CIRCUIT.

PANEL AND CIRCUIT NUMBERS WERE DERIVED FROM EXISTING DRAWINGS AND PANELBOARD DIRECTORIES AND MAY NOT REFLECT EXACT CIRCUITS AS FOUND IN THE FIELD.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

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#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070

Designed By: SGD

Drawn By: SGD

Checked By: JAF

Date: 11.21. 2025

JUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Justin Barth

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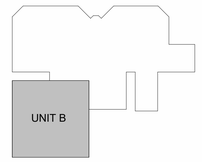

N

FIRST FLOOR LIGHTING PLAN - UNIT B

E210B

12/12/2025 4:02:48 PM

1 E220A **SECOND FLOOR LIGHTING PLAN - UNIT A**
1/8" = 1'-0"
0 4' 8' 16'

GENERAL NOTES - LIGHTING:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON TOTAL CIRCUIT DISTANCE.

C. CONNECT ALL EXIT AND EGRESS LIGHTING WITH A MINIMUM OF #10AWG UNLESS NOTED OTHERWISE.

D. PROVIDE ALL OCCUPANCY/VACANCY SENSOR, POWER PACKS, AND ADDITIONAL RELAYS, ETC. AS REQUIRED FOR FULL COVERAGE OF ROOMS/AREAS INDICATED TO HAVE SUCH CONTROL.

E. WALL MOUNTED EXIT LIGHTS SHALL BE MOUNTED AT LEAST 1'-0" ABOVE EXIT OPENING UNLESS NOTED OTHERWISE. CONTRACTOR TO VERIFY HEIGHT OF EXIT OPENING PRIOR TO ROUGH-IN.

F. ALL OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC) UNLESS NOTED OTHERWISE.

G. SCHEDULE A MEETING WITH THE OWNER PRIOR TO PROGRAMMING OF LIGHTING CONTROL DEVICES TO DETERMINE DESIRED CONTROL, TIME DELAY SETTINGS, OCCUPANCY, ETC.

H. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH A FLEXIBLE METAL CONDUIT WITH MAXIMUM LENGTH OF 6 FEET.

I. LIGHT FIXTURES THAT ARE INSTALLED WITHIN A FIRE-RATED CEILING SHALL BE PROVIDED WITH FIRE RATED COVERS IN ORDER TO MAINTAIN THE CEILING FIRE RATINGS. FIRE RATED COVERS SHALL BE COVERS SUCH AS TENMAT FIRE PROTECTION SOLUTIONS OR SIMILAR. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE RATED CEILING LOCATIONS AND PROVIDE COVERS ACCORDINGLY.

PLAN NOTES

#	NOTE
1	FIXTURE TO BE EQUIPPED WITH A UL924 GENERATOR TRANSFER DEVICE (GTD). PROVIDE 0-10 VOLT DIMMING OVERIDE AND CONNECT TO CIRCUIT SERVING ROOM AND TO NEAREST "EM" BRANCH CIRCUIT.

PANEL AND CIRCUIT NUMBERS WERE DERIVED FROM EXISTING DRAWINGS AND PANELBOARD DIRECTORIES AND MAY NOT REFLECT EXACT CIRCUITS AS FOUND IN THE FIELD.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070
Designed By: SGD
Drawn By: SGD
Checked By: JAF
Date: 11.21. 2025

JUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Justin Barth

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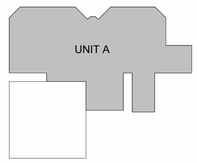

SECOND FLOOR LIGHTING PLAN - UNIT A

E220A

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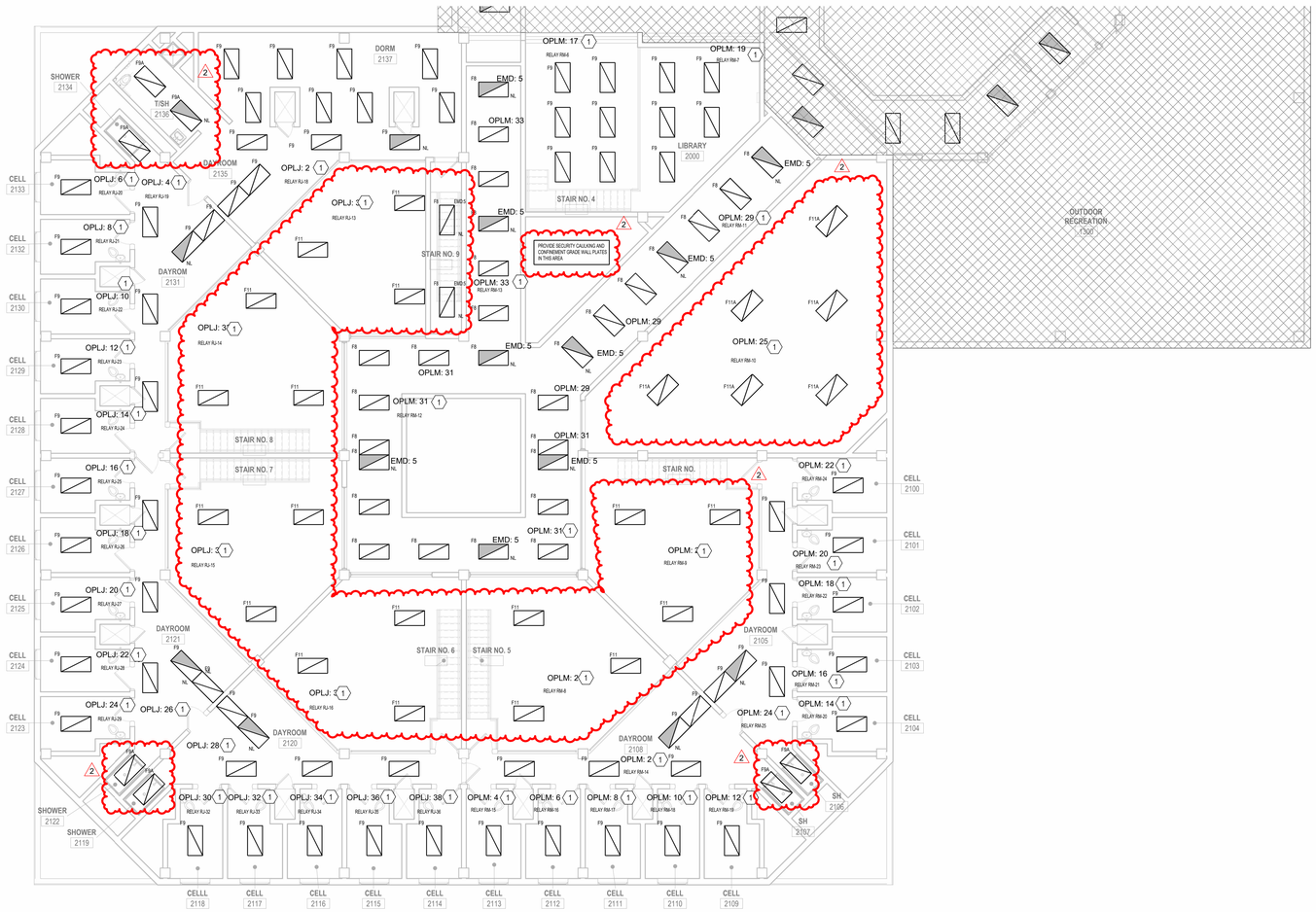

1 SECOND FLOOR LIGHTING PLAN - UNIT B
E220B 1/8" = 1'-0"
0 4' 8' 16'

GENERAL NOTES - LIGHTING:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON TOTAL CIRCUIT DISTANCE.

C. CONNECT ALL EXIT AND EGRESS LIGHTING WITH A MINIMUM OF #10AWG UNLESS NOTED OTHERWISE.

D. PROVIDE ALL OCCUPANCY/VACANCY SENSOR, POWER PACKS, AND ADDITIONAL RELAYS, ETC. AS REQUIRED FOR FULL COVERAGE OF ROOMS/AREAS INDICATED TO HAVE SUCH CONTROL.

E. WALL MOUNTED EXIT LIGHTS SHALL BE MOUNTED AT LEAST 1'-0" ABOVE EXIT OPENING UNLESS NOTED OTHERWISE. CONTRACTOR TO VERIFY HEIGHT OF EXIT OPENING PRIOR TO ROUGH-IN.

F. ALL OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC) UNLESS NOTED OTHERWISE.

G. SCHEDULE A MEETING WITH THE OWNER PRIOR TO PROGRAMMING OF LIGHTING CONTROL DEVICES TO DETERMINE DESIRED CONTROL, TIME DELAY SETTINGS, OCCUPANCY, ETC.

H. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH A FLEXIBLE METAL CONDUIT WITH MAXIMUM LENGTH OF 6 FEET.

I. LIGHT FIXTURES THAT ARE INSTALLED WITHIN A FIRE-RATED CEILING SHALL BE PROVIDED WITH FIRE RATED COVERS IN ORDER TO MAINTAIN THE CEILING FIRE RATINGS. FIRE RATED COVERS SHALL BE COVERS SUCH AS TENMAT FIRE PROTECTION SOLUTIONS OR SIMILAR. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE RATED CEILING LOCATIONS AND PROVIDE COVERS ACCORDINGLY.

PLAN NOTES

#	NOTE
1	CIRCUIT INDICATED TO BE CONNECTED TO FIXTURES PROVIDING GENERAL ROOM ILLUMINATION AND CONTROLLED BY EXISTING DETENTION ACCESS CONTROL SYSTEM VIA EXISTING REMOTELY OPERATED RELAY. FIXTURES NOTED AS "NL" WILL BE NON-SWITCHED AND CONNECTED TO THE SAME CIRCUIT WITHOUT SWITCHING CAPABILITIES.

PANEL AND CIRCUIT NUMBERS WERE DERIVED FROM EXISTING DRAWINGS AND PANELBOARD DIRECTORIES AND MAY NOT REFLECT EXACT CIRCUITS AS FOUND IN THE FIELD.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

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2	ADDENDUM 2	12/12/25
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Project #: 01-700-070
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Drawn By: SGD
Checked By: JAF
Date: 11.21. 2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER
Dustin Barth

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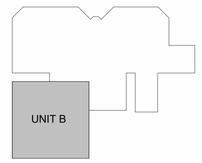

SECOND FLOOR LIGHTING PLAN - UNIT B

E220B

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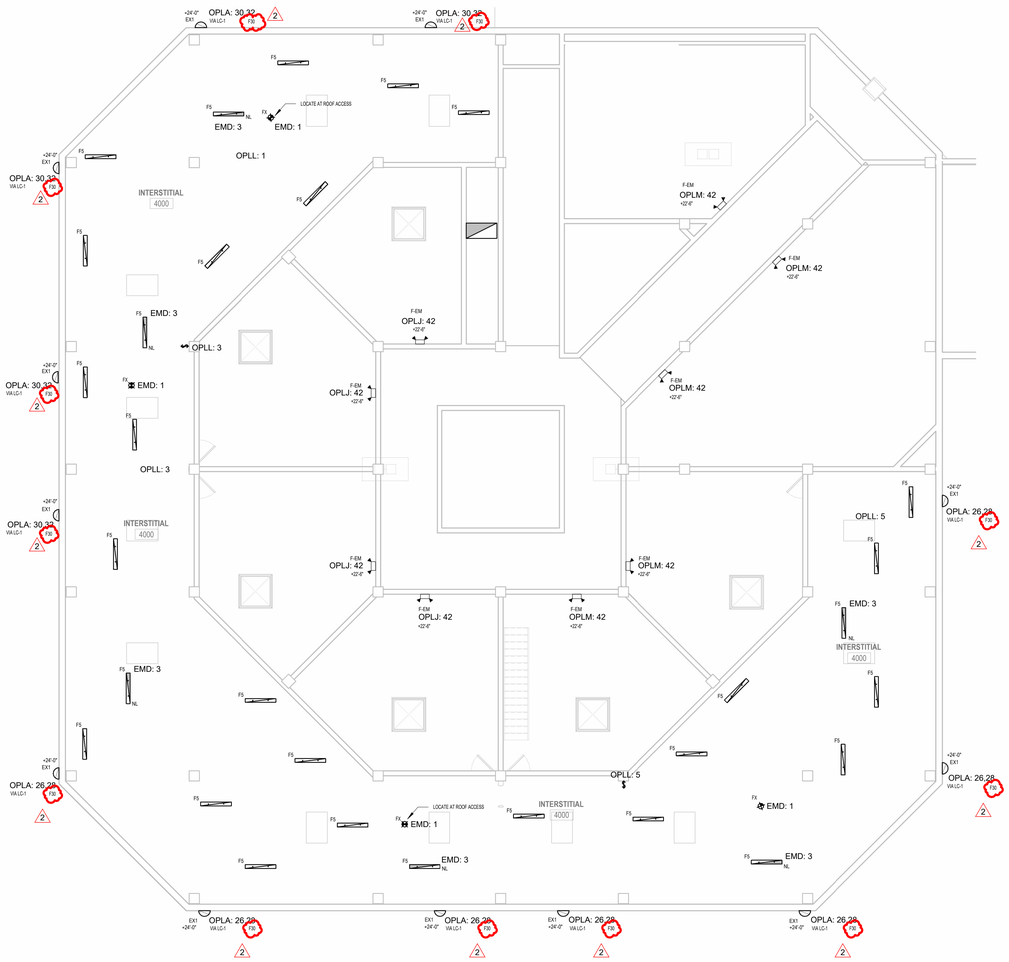

1 E230B **INTERSTITIAL LIGHTING PLAN**
1/8" = 1'-0"
0 4' 8' 16'

GENERAL NOTES - LIGHTING:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON TOTAL CIRCUIT DISTANCE.

C. CONNECT ALL EXIT AND EGRESS LIGHTING WITH A MINIMUM OF #10AWG UNLESS NOTED OTHERWISE.

D. PROVIDE ALL OCCUPANCY/VACANCY SENSOR, POWER PACKS, AND ADDITIONAL RELAYS, ETC. AS REQUIRED FOR FULL COVERAGE OF ROOMS/AREAS INDICATED TO HAVE SUCH CONTROL.

E. WALL MOUNTED EXIT LIGHTS SHALL BE MOUNTED AT LEAST 1'-0" ABOVE EXIT OPENING UNLESS NOTED OTHERWISE. CONTRACTOR TO VERIFY HEIGHT OF EXIT OPENING PRIOR TO ROUGH-IN.

F. ALL OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC) UNLESS NOTED OTHERWISE.

G. SCHEDULE A MEETING WITH THE OWNER PRIOR TO PROGRAMMING OF LIGHTING CONTROL DEVICES TO DETERMINE DESIRED CONTROL, TIME DELAY SETTINGS, OCCUPANCY, ETC.

H. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH A FLEXIBLE METAL CONDUIT WITH MAXIMUM LENGTH OF 6 FEET.

I. LIGHT FIXTURES THAT ARE INSTALLED WITHIN A FIRE-RATED CEILING SHALL BE PROVIDED WITH FIRE RATED COVERS IN ORDER TO MAINTAIN THE CEILING FIRE RATINGS. FIRE RATED COVERS SHALL BE COVERS SUCH AS TENMAT FIRE PROTECTION SOLUTIONS OR SIMILAR. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE RATED CEILING LOCATIONS AND PROVIDE COVERS ACCORDINGLY.

PLAN NOTES

#	NOTE
1	FIXTURE TO BE EQUIPPED WITH A UL924 GENERATOR TRANSFER DEVICE (GTD). PROVIDE 0-10 VOLT DIMMING OVERIDE AND CONNECT TO CIRCUIT SERVING ROOM AND TO NEAREST "EM" BRANCH CIRCUIT.

PANEL AND CIRCUIT NUMBERS WERE DERIVED FROM EXISTING DRAWINGS AND PANELBOARD DIRECTORIES AND MAY NOT REFLECT EXACT CIRCUITS AS FOUND IN THE FIELD.

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DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

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DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF INDIANA
PROFESSIONAL ENGINEER

Dustin Barth

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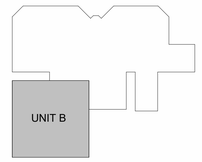

INTERSTITIAL LIGHTING PLAN - UNIT B

E230B

GENERAL NOTES - POWER:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO MECHANICAL AND PLUMBING SERIES DRAWINGS FOR ADDITIONAL SCOPE OF WORK.

C. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON THE TOTAL CIRCUIT DISTANCE.

D. ALL RECEPTACLES LOCATED WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE. ALL RECEPTACLES MAY NOT BE IDENTIFIED AS GFCI ON PLAN, BUT SHALL BE PROVIDED ACCORDING TO REQUIREMENT.

E. ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20R UNLESS NOTED OTHERWISE AND SHALL BE CIRCUITED WITH (2)#10 + (1)#10 NEUTRAL + (1)#10 GROUND. COORDINATE REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO INSTALLATION.

F. REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.

G. UNLESS NOTED OTHERWISE, ALL NEW DEVICES SHALL BE INSTALLED FLUSH IN WALL.

H. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS, REFER TO PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.

PLAN NOTES

#	NOTE
1	CONNECT TO EXISTING OVERHEAD DOOR OPERATOR MOTOR, UP/DOWN CONTROL SWITCH, SAFETY SENSORS AND LOW VOLTAGE WIRING TO REMAIN.
2	CONNECT TO FACTORY INSTALLED DISCONNECT SWITCH.
3	PROVIDE A 120V/20A/1P NON FUSED DISCONNECT SWITCH
4	100A/3P/240V HEAVY DUTY FUSED DISCONNECT SWITCH FOR ELEVATOR MACHINE. CONNECT TO EXISTING ELEVATOR EQUIPMENT AND VERIFY EXISTING FUSE SIZE AND FUSE AT SAME SIZE.
5	30A/1P/240V HEAVY DUTY FUSED DISCONNECT SWITCH FOR ELEVATOR CAB LIGHTS AND VENTILATION. CONNECT TO EXISTING ELEVATOR CAB.
6	200A/3P/240V HEAVY DUTY FUSED DISCONNECT SWITCH FOR ELEVATOR MACHINE. CONNECT TO EXISTING ELEVATOR EQUIPMENT AND VERIFY EXISTING FUSE SIZE AND FUSE AT SAME SIZE.
7	OVER HEAD DOOR MOTOR OPERATOR, CONNECT TO PUSHBUTTON CONTROL AND SAFETY DEVICES.
8	NOT USED
9	INTEGRAL GEN SET PANEL FOR ENGINE BLOCK HEATER, BATTERY CHARGER AND CONTROL CIRCUITS.
10	SHUTDOWN POWER TO ELEVATOR UPON DELIVERY OF WATER TO THE EQUIPMENT ROOM FROM THE FIRE SUPPRESSION SPRINKLER SYSTEM. SEE ELEVATOR GENERAL NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION.
11	PROVIDE WIREMOLD AL3300 TWO COMPARTMENT SURFACE RACEWAY WITH DIVIDER. RECEPTACLES TO BE 24" ON CENTER. CONNECT NEW RECEPTACLES TO EXISTING CIRCUITS THAT ARE FED FROM PANEL "UP". PROVIDE GROMMITS IN LOW VOLTAGE SECTION AND INSTALL LOOSE LOW VOLTAGE CABLES INTO RACEWAY.
12	CONNECT TO CLEAN AGENT CONTROL PANEL AND PROVIDE A SUPERVISED ADDRESSABLE RELAY WIRED TO THE FIRE ALARM CONTROL PANEL. CONNECT ALL EQUIPMENT PROVIDED BY SYSTEM SUPPLIER SUCH AS SMOKE HEAT/HEAT DETECTORS, MANUAL PULL STATION, ABORT SWITCH, THERMOSTAT, BELL AND STROBES. SEE DETAIL ON PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
13	MOTOR STARTER PROVIDED BY EQUIPMENT MANUFACTURER. CONNECT COMPLETE VIA CIRCUIT INDICATED. PROVIDE DISCONNECTING MEANS AS REQUIRED.

GENERAL NOTES - ELEVATOR:

A. PROVIDE THE FOLLOWING FOR THE ELEVATOR:

a. 3P-100A, 208V (ELEVATOR #1) 3P-200A, 208V (ELEVATOR #2) FUSIBLE DISCONNECT FUSED PER ELEVATOR MANUFACTURER. PROVIDE CONNECTION TO ELEVATOR EQUIPMENT AS REQUIRED. COORDINATE EQUIPMENT LOCATION WITH ELEVATOR.

b. 3P-200A, 208V CONTACTOR FOR ELEVATOR SHUT DOWN PRIOR TO SPRINKLER SYSTEM RELEASE. INTERLOCK CONTACTOR WITH FIRE ALARM SYSTEM AS REQUIRED. ROUTE POWER FOR ELEVATOR THRU CONTACTOR FOR CONTROL. PROVIDE RESET SWITCH IN COVER.

c. TELEPHONE CONNECTION TO ELEVATOR CONTROLLER. PROVIDE (2) CAT6 CABLES IN 1" CONDUIT FROM CONTROLLER TO DATA RACK LOCATION.

d. 2P-30A, 208V, FUSIBLE DISCONNECT FUSED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS FOR ELEVATOR LIGHTING AND CONTROL. PROVIDE CONNECTION TO ELEVATOR EQUIPMENT AS REQUIRED. COORDINATE EQUIPMENT LOCATION WITH ELEVATOR.

e. FIRE ALARM RELAYS FOR ELEVATOR RECALL. PROVIDE CONTROL WIRING IN CONDUITS AS REQUIRED TO ELEVATOR CONTROLLER.

f. HEAT DETECTOR INSTALLED AT TOP OF ELEVATOR SHAFT. COORDINATE EXACT LOCATION WITH ELEVATOR PRIOR TO INSTALLATION.

g. SMOKE DETECTOR INSTALLED AT TOP OF ELEVATOR SHAFT. COORDINATE LOCATION WITH ELEVATOR.

h. WEATHERPROOF GFCI RECEPTACLE INSTALLED IN ELEVATOR HOISTWAY. COORDINATE EXACT LOCATION WITH ELEVATOR PRIOR TO INSTALLATION.

i. WEATHERPROOF ELEVATOR HOISTWAY LIGHTING SWITCH. LIGHTING LOCATIONS TO BE COORDINATED WITH ELEVATOR EQUIPMENT WITHIN HOISTWAY.

j. PROVIDE CONTROL WIRING IN CONDUIT FROM ATS TO ELEVATOR CONTROLLER TO SIGNAL CONTROLLERS WHEN ON EMERGENCY POWER.

k. FIRE / SMOKE DAMPER. PROVIDE DUCT DETECTOR, REMOTE TEST STATION, AND ADDRESSABLE RELAY AS REQUIRED. REMOTE TEST STATION SHALL BE MOUNTED AS DIRECTED BY LOCAL FIRE DEPARTMENT.

l. VERIFY AND COORDINATE THE ELEVATOR EQUIPMENT AND ELECTRICAL EQUIPMENT LAYOUT IN ELEVATOR MACHINE ROOM WITH ELEVATOR PRIOR TO ROUGH-IN. PROVIDE UNI-STRUT SUPPORT STRUCTURE AS REQUIRED.

PROVIDE NEW OVERHEAD CONDUITS FOR ALL RECEPTACLE BRANCH CIRCUITS AND ABANDON EXISTING UNDERGROUND CONDUITS SERVING BRANCH CIRCUITS.

PANEL AND CIRCUIT NUMBERS WERE DERIVED FROM EXISTING DRAWINGS AND PANELBOARD DIRECTORIES AND MAY NOT REFLECT EXACT CIRCUITS AS FOUND IN THE FIELD.

1 E310A FIRST FLOOR POWER PLAN - UNIT A
1/8" = 1'-0"
0 4' 8' 16'

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070

Designed By: SGD

Drawn By: SGD

Checked By: JAF

Date: 11.21. 2025

JUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Justin Barth

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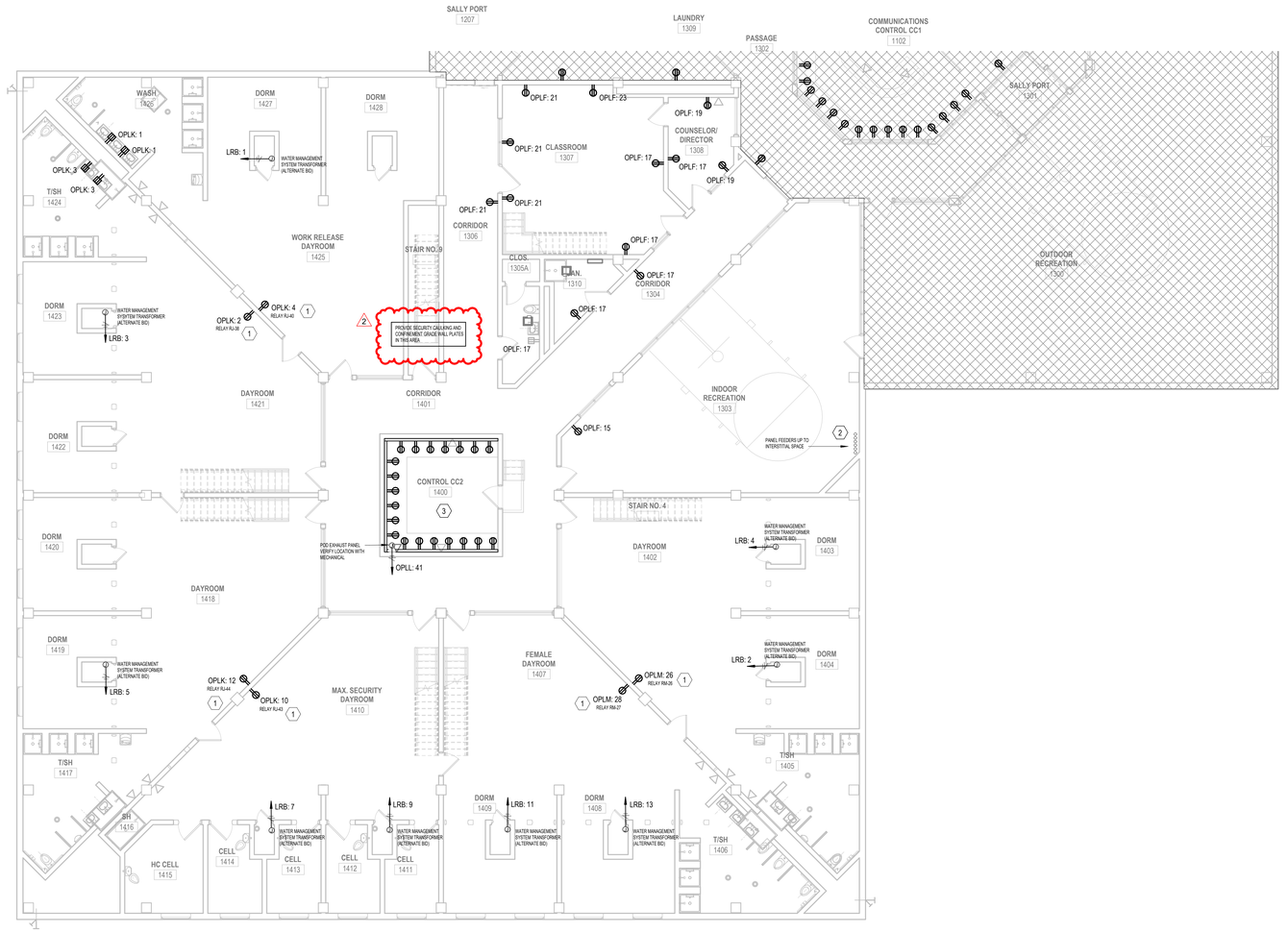
UNIT A

N

FIRST FLOOR POWER PLAN - UNIT A

E310A

12/12/2025 4:00:05 PM



1 E310B **FIRST FLOOR POWER PLAN - UNIT B**
1/8" = 1'-0"
0 4' 8' 16'

GENERAL NOTES - POWER:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO MECHANICAL AND PLUMBING SERIES DRAWINGS FOR ADDITIONAL SCOPE OF WORK.

C. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON THE TOTAL CIRCUIT DISTANCE.

D. ALL RECEPTACLES LOCATED WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE. ALL RECEPTACLES MAY NOT BE IDENTIFIED AS GFCI ON PLAN, BUT SHALL BE PROVIDED ACCORDING TO REQUIREMENT.

E. ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20R UNLESS NOTED OTHERWISE AND SHALL BE CIRCUITED WITH (2)#10 + (1)#10 NEUTRAL + (1)#10 GROUND. COORDINATE REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO INSTALLATION.

F. REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.

G. UNLESS NOTED OTHERWISE, ALL NEW DEVICES SHALL BE INSTALLED FLUSH IN WALL.

H. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS, REFER TO PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.

2

PLAN NOTES

#	NOTE
1	CIRCUIT INDICATED TO BE CONNECTED TO RECEPTACLES CONTROLLED BY EXISTING DETENTION ACCESS CONTROL SYSTEM VIA EXISTING REMOTELY OPERATED RELAY.
2	14GA METAL SECURITY BULKHEAD COVER TO TOTALLY ENCLOSE CONDUITS IN BOTH VERTICAL AND HORIZONTAL DIRECTIONS. SECURITY CAULK ENTIRE LENGTH OF ENCLOSURE.
3	PROVIDE WIREMOLD AL3300 TWO COMPARTMENT SURFACE RACEWAY WITH DIVIDER. RECEPTACLES TO BE 24" ON CENTER. CONNECT NEW RECEPTACLES TO EXISTING CIRCUITS THAT ARE FED FROM PANEL "UP". PROVIDE GROMMITS IN LOW VOLTAGE SECTION AND INSTALL LOOSE LOW VOLTAGE CABLES INTO RACEWAY.

PANEL AND CIRCUIT NUMBERS WERE DERIVED FROM EXISTING DRAWINGS AND PANELBOARD DIRECTORIES AND MAY NOT REFLECT EXACT CIRCUITS AS FOUND IN THE FIELD.

RQAW

DCCM

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DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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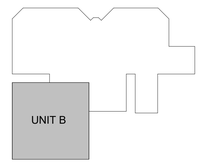


N

FIRST FLOOR POWER PLAN - UNIT B

E310B

12/12/2025 4:00:09 PM

GENERAL NOTES - POWER:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO MECHANICAL AND PLUMBING SERIES DRAWINGS FOR ADDITIONAL SCOPE OF WORK.

C. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON THE TOTAL CIRCUIT DISTANCE.

D. ALL RECEPTACLES LOCATED WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE. ALL RECEPTACLES MAY NOT BE IDENTIFIED AS GFCI ON PLAN, BUT SHALL BE PROVIDED ACCORDING TO REQUIREMENT.

E. ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20R UNLESS NOTED OTHERWISE AND SHALL BE CIRCUITED WITH (2)#10 + (1)#10 NEUTRAL + (1)#10 GROUND. COORDINATE REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO INSTALLATION.

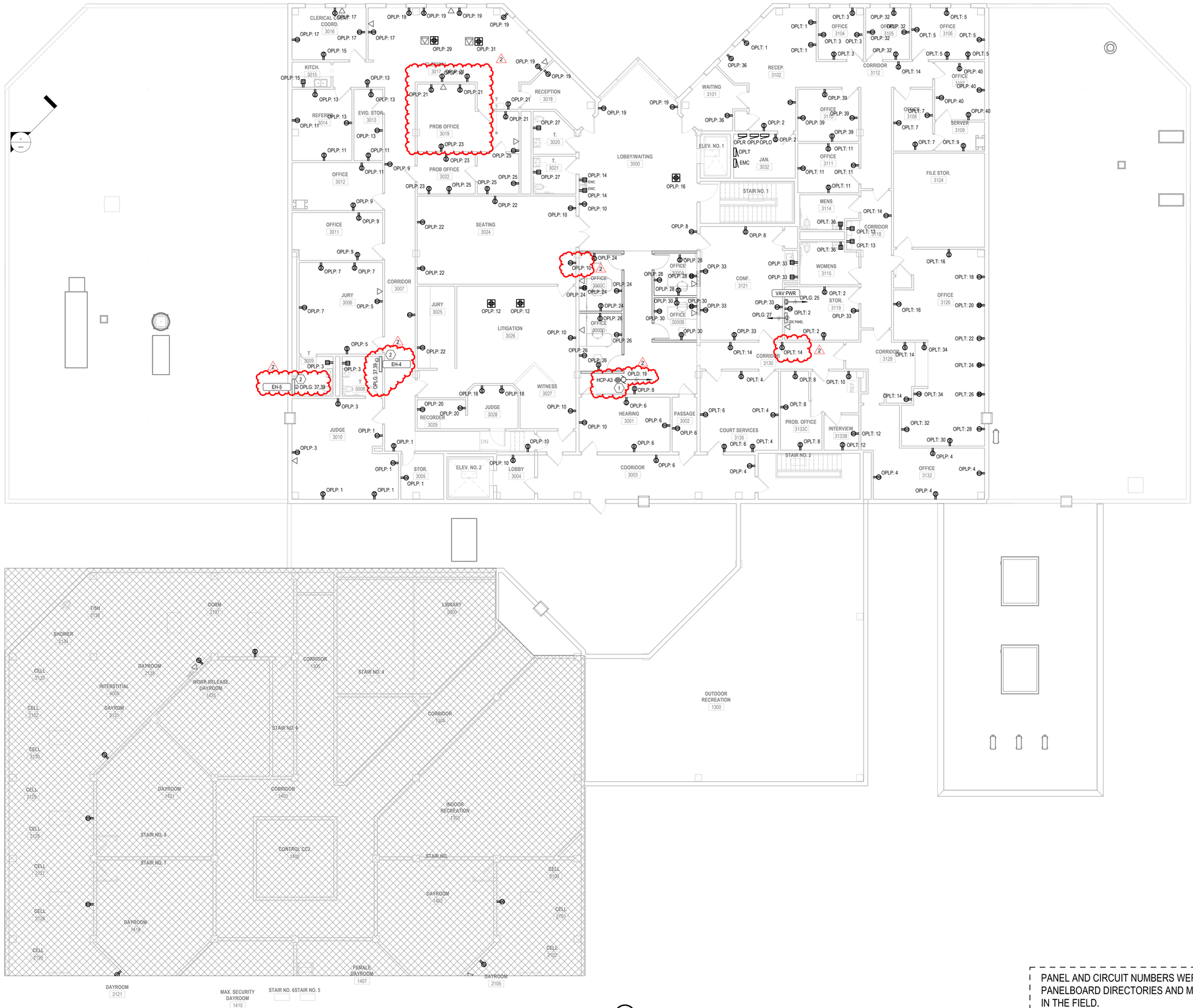
F. REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.

G. UNLESS NOTED OTHERWISE, ALL NEW DEVICES SHALL BE INSTALLED FLUSH IN WALL.

H. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS. REFER TO PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.

PLAN NOTES

#	NOTE
1	MOTOR STARTER PROVIDED BY EQUIPMENT MANUFACTURER. CONNECT COMPLETE VIA CIRCUIT INDICATED. PROVIDE DISCONNECTING MEANS AS REQUIRED.
2	CONNECT TO FACTORY INSTALLED DISCONNECT SWITCH.



1 SECOND FLOOR POWER PLAN - UNIT A
E320A 1/8" = 1'-0"
0 4' 8' 16'

PANEL AND CIRCUIT NUMBERS WERE DERIVED FROM EXISTING DRAWINGS AND PANELBOARD DIRECTORIES AND MAY NOT REFLECT EXACT CIRCUITS AS FOUND IN THE FIELD.

RQAW

DCCM

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Drawn By: SGD

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DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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UNIT A

N

SECOND FLOOR POWER PLAN - UNIT A

E320A

12/12/2025 4:00:12 PM

GENERAL NOTES - POWER:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO MECHANICAL AND PLUMBING SERIES DRAWINGS FOR ADDITIONAL SCOPE OF WORK.

C. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON THE TOTAL CIRCUIT DISTANCE.

D. ALL RECEPTACLES LOCATED WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE. ALL RECEPTACLES MAY NOT BE IDENTIFIED AS GFCI ON PLAN, BUT SHALL BE PROVIDED ACCORDING TO REQUIREMENT.

E. ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20R UNLESS NOTED OTHERWISE AND SHALL BE CIRCUITED WITH (2)#10 + (1)#10 NEUTRAL + (1)#10 GROUND. COORDINATE REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO INSTALLATION.

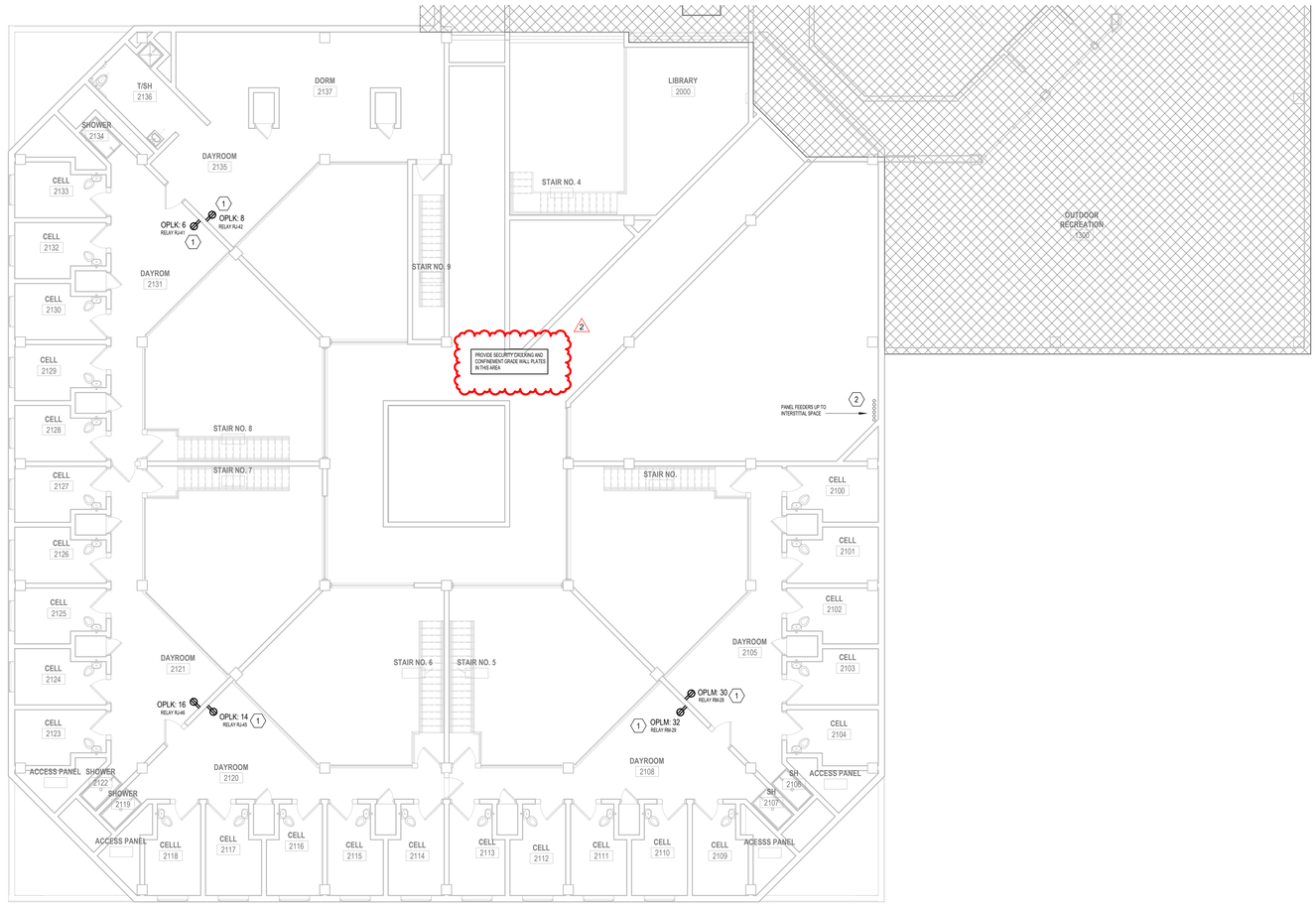
F. REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.

G. UNLESS NOTED OTHERWISE, ALL NEW DEVICES SHALL BE INSTALLED FLUSH IN WALL.

H. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS, REFER TO PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.

PLAN NOTES

#	NOTE
1	CIRCUIT INDICATED TO BE CONNECTED TO RECEPTACLES CONTROLLED BY EXISTING DETENTION ACCESS CONTROL SYSTEM VIA EXISTING REMOTELY OPERATED RELAY.
2	14GA METAL SECURITY BULKHEAD COVER TO TOTALLY ENCLOSE CONDUITS IN BOTH VERTICAL AND HORIZONTAL DIRECTIONS. SECURITY CAULK ENTIRE LENGTH OF ENCLOSURE.



1 E3206 SECOND FLOOR POWER PLAN - UNIT B
1/8" = 1'-0"
0 4' 8' 16'

PANEL AND CIRCUIT NUMBERS WERE DERIVED FROM EXISTING DRAWINGS AND PANELBOARD DIRECTORIES AND MAY NOT REFLECT EXACT CIRCUITS AS FOUND IN THE FIELD.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070

Designed By: SGD

Drawn By: SGD

Checked By: JAF

Date: 11.21. 2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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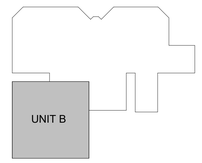


N

SECOND FLOOR POWER PLAN - UNIT B

E320B

GENERAL NOTES - POWER:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO MECHANICAL AND PLUMBING SERIES DRAWINGS FOR ADDITIONAL SCOPE OF WORK.

C. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON THE TOTAL CIRCUIT DISTANCE.

D. ALL RECEPTACLES LOCATED WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE. ALL RECEPTACLES MAY NOT BE IDENTIFIED AS GFCI ON PLAN, BUT SHALL BE PROVIDED ACCORDING TO REQUIREMENT.

E. ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20R UNLESS NOTED OTHERWISE AND SHALL BE CIRCUITED WITH (2)#10 + (1)#10 NEUTRAL + (1)#10 GROUND. COORDINATE REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO INSTALLATION.

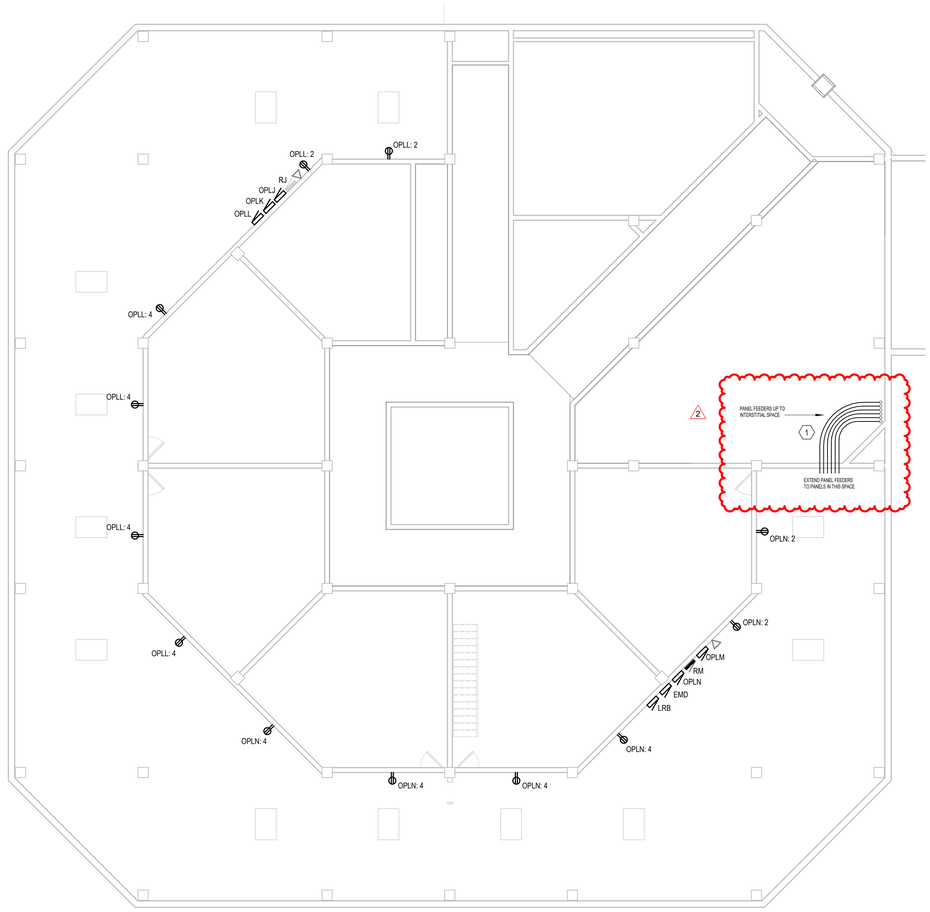
F. REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.

G. UNLESS NOTED OTHERWISE, ALL NEW DEVICES SHALL BE INSTALLED FLUSH IN WALL.

H. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS, REFER TO PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.

PLAN NOTES

#	NOTE
1	14GA METAL SECURITY BULKHEAD COVER TO TOTALLY ENCLOSE CONDUITS IN BOTH VERTICAL AND HORIZONTAL DIRECTIONS. SECURITY CAULK ENTIRE LENGTH OF ENCLOSURE.



1 E330B **INTERSTITIAL POWER PLAN**
1/8" = 1'-0"
0 4' 8' 16'

PANEL AND CIRCUIT NUMBERS WERE DERIVED FROM EXISTING DRAWINGS AND PANELBOARD DIRECTORIES AND MAY NOT REFLECT EXACT CIRCUITS AS FOUND IN THE FIELD.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25

Project #: 01-700-070
Designed By: SGD
Drawn By: SGD
Checked By: JAF
Date: 11.21. 2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER
Dustin Barth

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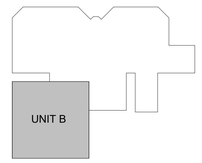

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INTERSTITIAL POWER PLAN - UNIT B

E330B

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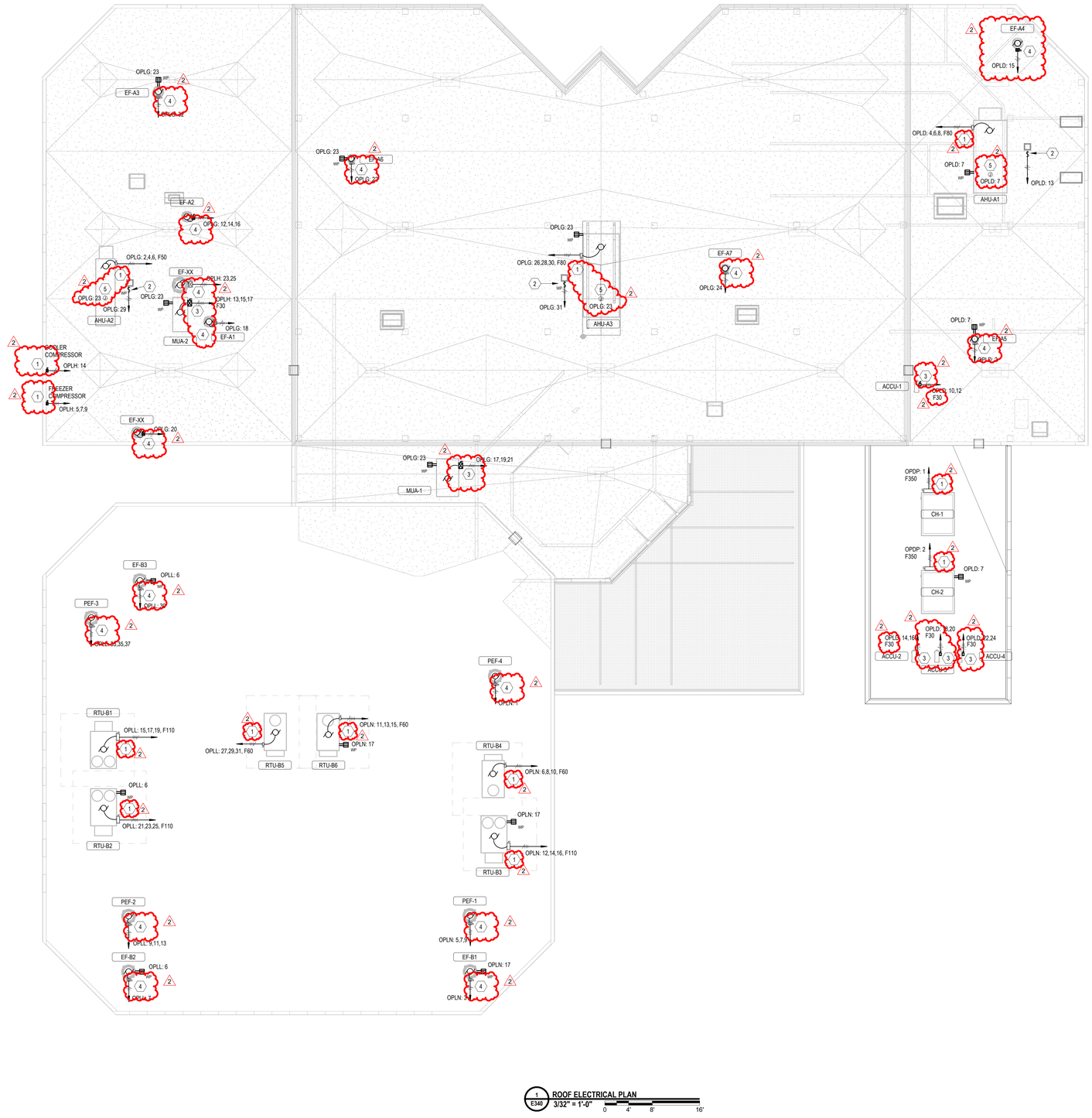

1 E340 ROOF ELECTRICAL PLAN
3/32" = 1'-0"
0 4' 8' 16'

GENERAL NOTES - POWER:

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO MECHANICAL AND PLUMBING SERIES DRAWINGS FOR ADDITIONAL SCOPE OF WORK.

C. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON THE TOTAL CIRCUIT DISTANCE.

D. ALL RECEPTACLES LOCATED WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE. ALL RECEPTACLES MAY NOT BE IDENTIFIED AS GFCI ON PLAN, BUT SHALL BE PROVIDED ACCORDING TO REQUIREMENT.

E. ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20R UNLESS NOTED OTHERWISE AND SHALL BE CIRCUITED WITH (2)#10 + (1)#10 NEUTRAL + (1)#10 GROUND. COORDINATE REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO INSTALLATION.

F. REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.

G. UNLESS NOTED OTHERWISE, ALL NEW DEVICES SHALL BE INSTALLED FLUSH IN WALL.

H. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS, REFER TO PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.

PLAN NOTES

NOTE	
1	SINGLE POINT CONNECTION TO MANUFACTURER PROVIDED DISCONNECT SWITCH/STARTER/CIRCUIT BREAKER.
2	HEAT TRACING FOR HOT WATER SUPPLY AND RETURN PIPING.
3	PROVIDE NEMA 3R 208V, 3P-30A FUSIBLE DISCONNECT. FUSE AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ADDITIONAL SUPPORT STRUCTURE AS REQUIRED.
4	CONNECT COMPLETE VIA CIRCUIT INDICATED. DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. PROVIDE ALL INTERNAL INTERCONNECTIONS AS REQUIRED.
5	UNIT LIGHTS AND RECEPTACLES TO BE PROVIDED WITHIN THE UNIT BY MANUFACTURER. COORDINATE EXACT CONNECTION POINT IN FIELD AND CONNECT VIA CIRCUIT INDICATED. PROVIDE ALL INTERNAL WIRING AND CONNECTIONS AS REQUIRED.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070
Designed By: SGD
Drawn By: SGD
Checked By: JAF
Date: 11.21. 2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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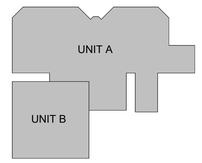

N

ROOF ELECTRICAL PLAN

E340

12/12/2025 4:00:19 PM

GENERAL NOTES - SYSTEMS:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. MAXIMUM NUMBER OF 4 INFORMATION OUTLET LOCATIONS PER CONDUIT HOME RUN TO MDF OR IDF IS PERMITTED. CONDUIT SHALL BE SIZED AS FOLLOWS:
   1. (1) INFORMATION OUTLET LOCATION: 1"C
   2. (2) INFORMATION OUTLET LOCATIONS: 1-1/4"C
   3. (3) INFORMATION OUTLET LOCATIONS: 1-1/2"C

C. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

D. WHERE CONDUIT IS STUBBED ABOVE ACCESSIBLE CEILING, CABLES SHALL BE INSTALLED WITH SERVICE LOOPS. SERVICE LOOPS SHALL BE APPROXIMATELY TWO WRAPS, OR ABOUT 16" EXTRA INCHES FOR LOOP.

E. ALL CABLEING SHALL BE CATEGORY 6.

GENERAL NOTES - FIRE ALARM:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. THE FIRE ALARM PLANS ARE INTENDED TO DEPICT THE GENERAL PERFORMANCE OF THE SYSTEM. THE FIRE ALARM VENDOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE DESIGN PER EQUIPMENT LIMITATIONS. PROVIDE ALL NECESSARY EQUIPMENT, DEVICES, WIRING, ETC AS REQUIRED FOR A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM.

C. DO NOT LOCATE ANY DETECTION DEVICE WITHIN 3-FEET OF AN AIR DIFFUSER.

D. ADDRESSABLE RELAYS AND MONITOR MODULES SHALL BE INSTALLED WITHIN 3-FEET OF CONTROLLED OR MONITORED DEVICE.

E. A VISUAL INDICATOR SHALL BE PROVIDED FOR ALL INITIATING DEVICES LOCATED OUTSIDE OF NORMAL VIEWING.

PLAN NOTES

#	NOTE

ALL EXISTING LOW VOLTAGE LOCAL AREA NETWORK CABLING AND SECURITY ELECTRONICS LOW VOLTAGE WIRING SUCH AS ACCESS CONTROL (DETENTION AND NON-DETENTION AREAS), INTERCOMM, DETENTION LIGHTING AND RECEPTACLE CONTROL, CCTV AND OTHER CONTROL WIRING TO REMAIN INTACT AND IN SERVICE. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE COST TO REPAIR OR REPLACE ANY DAMAGED CABLES.

1 E410A FIRST FLOOR SYSTEMS PLAN - UNIT A
1/8" = 1'-0"
0 4' 8' 16'

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070

Designed By: SGD

Drawn By: SGD

Checked By: JAF

Date: 11.21. 2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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UNIT A

N

FIRST FLOOR SYSTEMS PLAN - UNIT A

E410A

12/12/2025 4:00:24 PM

GENERAL NOTES - SYSTEMS:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. MAXIMUM NUMBER OF 4 INFORMATION OUTLET LOCATIONS PER CONDUIT HOME RUN TO MDF OR IDF IS PERMITTED. CONDUIT SHALL BE SIZED AS FOLLOWS:
   1. (1) INFORMATION OUTLET LOCATION: 1"C
   2. (2) INFORMATION OUTLET LOCATIONS: 1-1/4"C
   3. (3) INFORMATION OUTLET LOCATIONS: 1-1/2"C

C. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

D. WHERE CONDUIT IS STUBBED ABOVE ACCESSIBLE CEILING, CABLES SHALL BE INSTALLED WITH SERVICE LOOPS. SERVICE LOOPS SHALL BE APPROXIMATELY TWO WRAPS, OR ABOUT 16" EXTRA INCHES FOR LOOP.

E. ALL CABLEING SHALL BE CATEGORY 6.

GENERAL NOTES - FIRE ALARM:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. THE FIRE ALARM PLANS ARE INTENDED TO DEPICT THE GENERAL PERFORMANCE OF THE SYSTEM. THE FIRE ALARM VENDOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE DESIGN PER EQUIPMENT LIMITATIONS. PROVIDE ALL NECESSARY EQUIPMENT, DEVICES, WIRING, ETC AS REQUIRED FOR A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM.

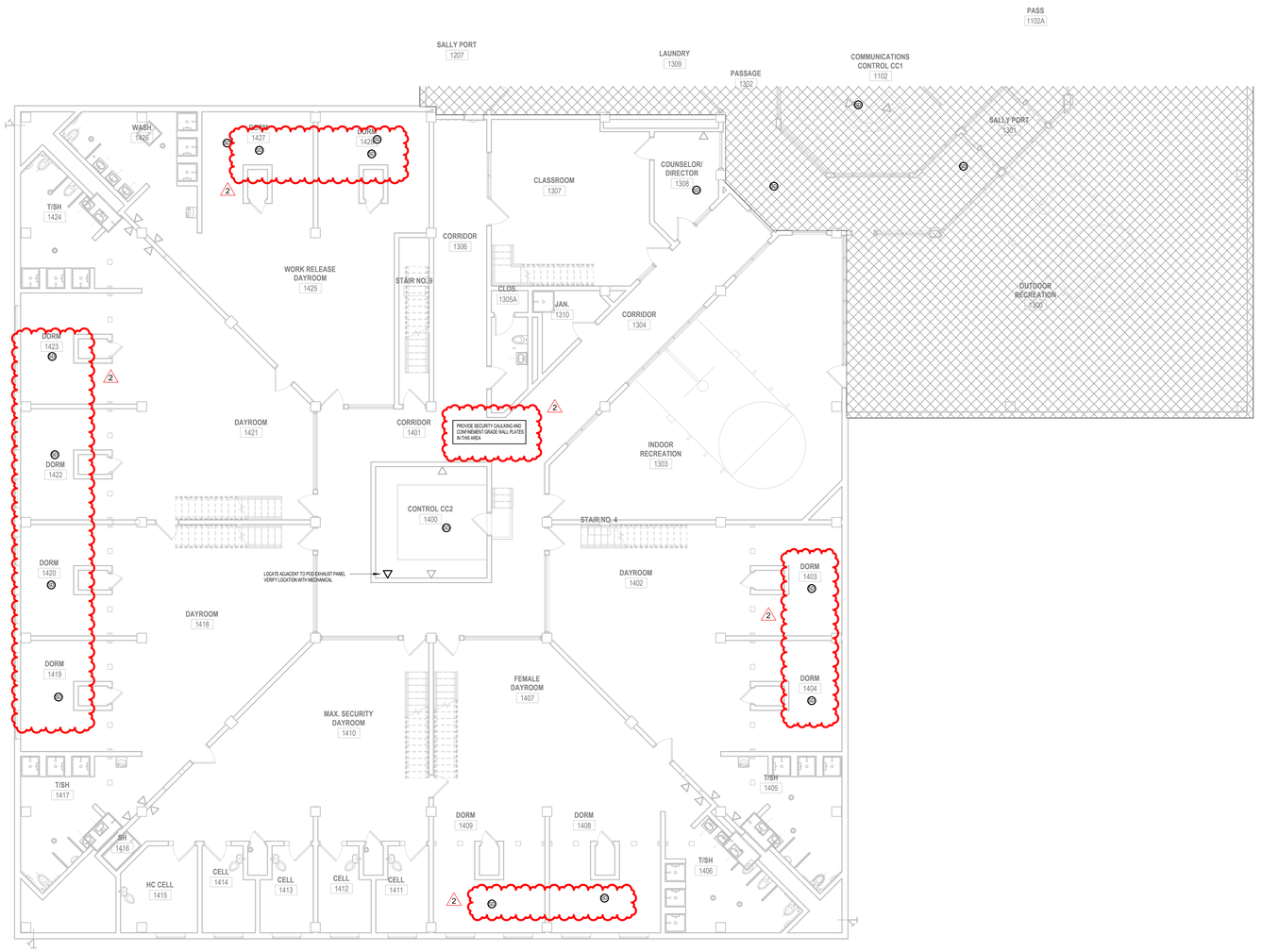
C. DO NOT LOCATE ANY DETECTION DEVICE WITHIN 3-FEET OF AN AIR DIFFUSER.

D. ADDRESSABLE RELAYS AND MONITOR MODULES SHALL BE INSTALLED WITHIN 3-FEET OF CONTROLLED OR MONITORED DEVICE.

E. A VISUAL INDICATOR SHALL BE PROVIDED FOR ALL INITIATING DEVICES LOCATED OUTSIDE OF NORMAL VIEWING.

PLAN NOTES

#	NOTE



1 E410B FIRST FLOOR SYSTEMS PLAN - UNIT B
1/8" = 1'-0"
0 4' 8' 16'

ALL EXISTING LOW VOLTAGE LOCAL AREA NETWORK CABLING AND SECURITY ELECTRONICS LOW VOLTAGE WIRING SUCH AS ACCESS CONTROL (DETENTION AND NON-DETENTION AREAS), INTERCOMM, DETENTION LIGHTING AND RECEPTACLE CONTROL, CCTV AND OTHER CONTROL WIRING TO REMAIN INTACT AND IN SERVICE. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE COST TO REPAIR OR REPLACE ANY DAMAGED CABLES.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070

Designed By: SGD

Drawn By: SGD

Checked By: JAF

Date: 11.21. 2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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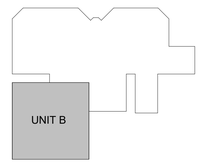

FIRST FLOOR SYSTEMS PLAN - UNIT B

E410B

12/12/2025 4:00:27 PM

1 E420A SECOND FLOOR SYSTEMS PLAN - UNIT A
1/8" = 1'-0"
0 4' 8' 16'

GENERAL NOTES - SYSTEMS:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. MAXIMUM NUMBER OF 4 INFORMATION OUTLET LOCATIONS PER CONDUIT HOME RUN TO MDF OR IDF IS PERMITTED. CONDUIT SHALL BE SIZED AS FOLLOWS:
   1. (1) INFORMATION OUTLET LOCATION: 1"C
   2. (2) INFORMATION OUTLET LOCATIONS: 1-1/4"C
   3. (3) INFORMATION OUTLET LOCATIONS: 1-1/2"C

C. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

D. WHERE CONDUIT IS STUBBED ABOVE ACCESSIBLE CEILING, CABLES SHALL BE INSTALLED WITH SERVICE LOOPS. SERVICE LOOPS SHALL BE APPROXIMATELY TWO WRAPS, OR ABOUT 16" EXTRA INCHES FOR LOOP.

E. ALL CABLEING SHALL BE CATEGORY 6.

GENERAL NOTES - FIRE ALARM:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. THE FIRE ALARM PLANS ARE INTENDED TO DEPICT THE GENERAL PERFORMANCE OF THE SYSTEM. THE FIRE ALARM VENDOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE DESIGN PER EQUIPMENT LIMITATIONS. PROVIDE ALL NECESSARY EQUIPMENT, DEVICES, WIRING, ETC AS REQUIRED FOR A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM.

C. DO NOT LOCATE ANY DETECTION DEVICE WITHIN 3-FEET OF AN AIR DIFFUSER.

D. ADDRESSABLE RELAYS AND MONITOR MODULES SHALL BE INSTALLED WITHIN 3-FEET OF CONTROLLED OR MONITORED DEVICE.

E. A VISUAL INDICATOR SHALL BE PROVIDED FOR ALL INITIATING DEVICES LOCATED OUTSIDE OF NORMAL VIEWING.

PLAN NOTES

#	NOTE

ALL EXISTING LOW VOLTAGE LOCAL AREA NETWORK CABLING AND SECURITY ELECTRONICS LOW VOLTAGE WIRING SUCH AS ACCESS CONTROL (DETENTION AND NON-DETENTION AREAS), INTERCOMM, DETENTION LIGHTING AND RECEPTACLE CONTROL, CCTV AND OTHER CONTROL WIRING TO REMAIN INTACT AND IN SERVICE. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE COST TO REPAIR OR REPLACE ANY DAMAGED CABLES.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070
Designed By: SGD
Drawn By: SGD
Checked By: JAF
Date: 11.21. 2025

JUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Justin Barth

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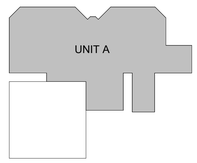

N

SECOND FLOOR SYSTEMS PLAN - UNIT A

E420A

12/12/2025 4:00:30 PM

GENERAL NOTES - SYSTEMS:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. MAXIMUM NUMBER OF 4 INFORMATION OUTLET LOCATIONS PER CONDUIT HOME RUN TO MDF OR IDF IS PERMITTED. CONDUIT SHALL BE SIZED AS FOLLOWS:
   1. (1) INFORMATION OUTLET LOCATION: 1"C
   2. (2) INFORMATION OUTLET LOCATIONS: 1-1/4"C
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C. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

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E. ALL CABLEING SHALL BE CATEGORY 6.

GENERAL NOTES - FIRE ALARM:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. THE FIRE ALARM PLANS ARE INTENDED TO DEPICT THE GENERAL PERFORMANCE OF THE SYSTEM. THE FIRE ALARM VENDOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE DESIGN PER EQUIPMENT LIMITATIONS. PROVIDE ALL NECESSARY EQUIPMENT, DEVICES, WIRING, ETC AS REQUIRED FOR A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM.

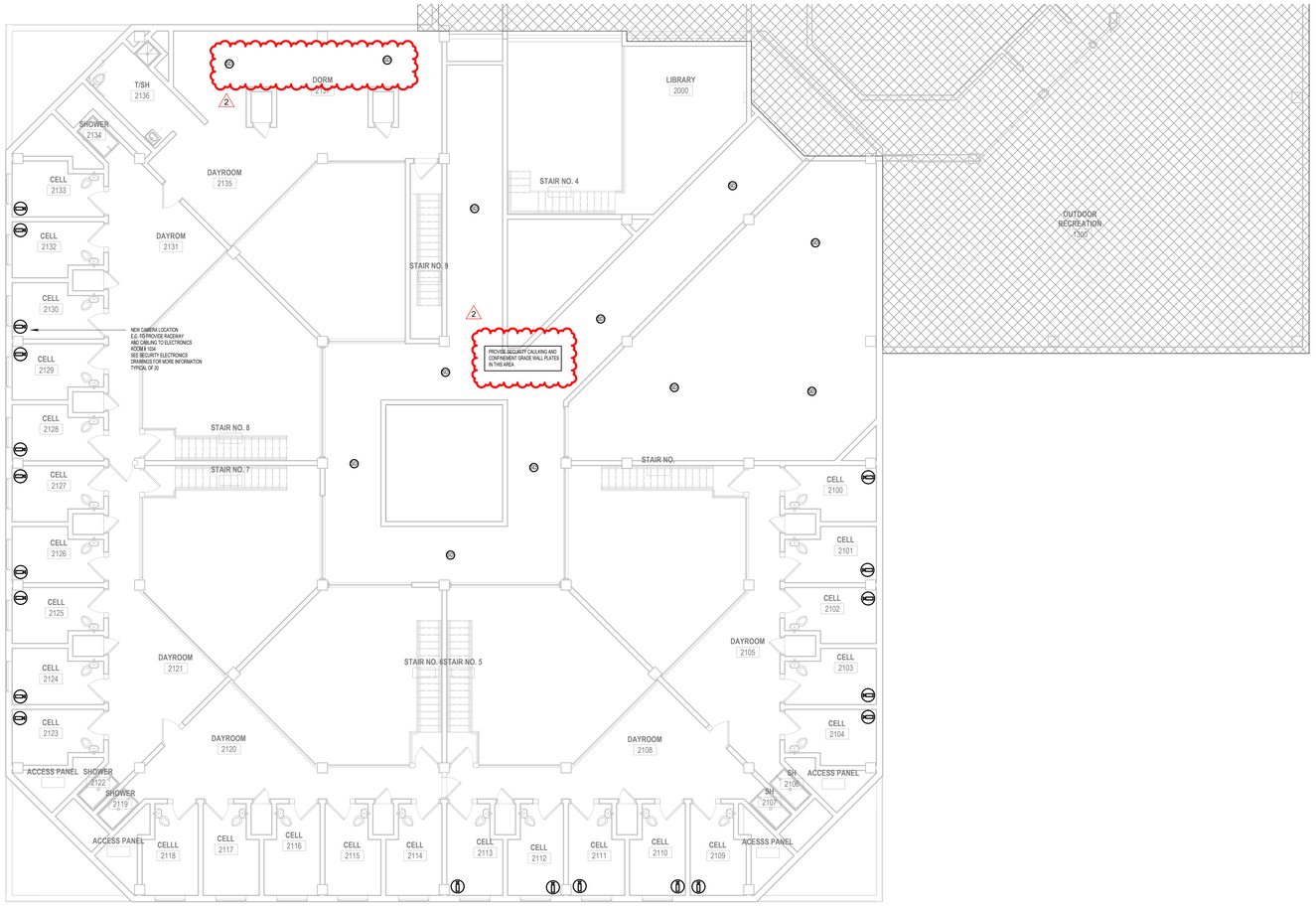
C. DO NOT LOCATE ANY DETECTION DEVICE WITHIN 3-FEET OF AN AIR DIFFUSER.

D. ADDRESSABLE RELAYS AND MONITOR MODULES SHALL BE INSTALLED WITHIN 3-FEET OF CONTROLLED OR MONITORED DEVICE.

E. A VISUAL INDICATOR SHALL BE PROVIDED FOR ALL INITIATING DEVICES LOCATED OUTSIDE OF NORMAL VIEWING.

PLAN NOTES

#	NOTE



1 E420B **SECOND FLOOR SYSTEMS PLAN - UNIT B**
1/8" = 1'-0"
0 4' 8' 16'

ALL EXISTING LOW VOLTAGE LOCAL AREA NETWORK CABLING AND SECURITY ELECTRONICS LOW VOLTAGE WIRING SUCH AS ACCESS CONTROL (DETENTION AND NON-DETENTION AREAS), INTERCOMM, DETENTION LIGHTING AND RECEPTACLE CONTROL, CCTV AND OTHER CONTROL WIRING TO REMAIN INTACT AND IN SERVICE. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE COST TO REPAIR OR REPLACE ANY DAMAGED CABLES.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25

Project #: 01-700-070
Designed By: SGD
Drawn By: SGD
Checked By: JAF
Date: 11.21. 2025

DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF INDIANA
PROFESSIONAL ENGINEER

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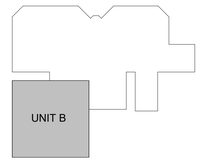

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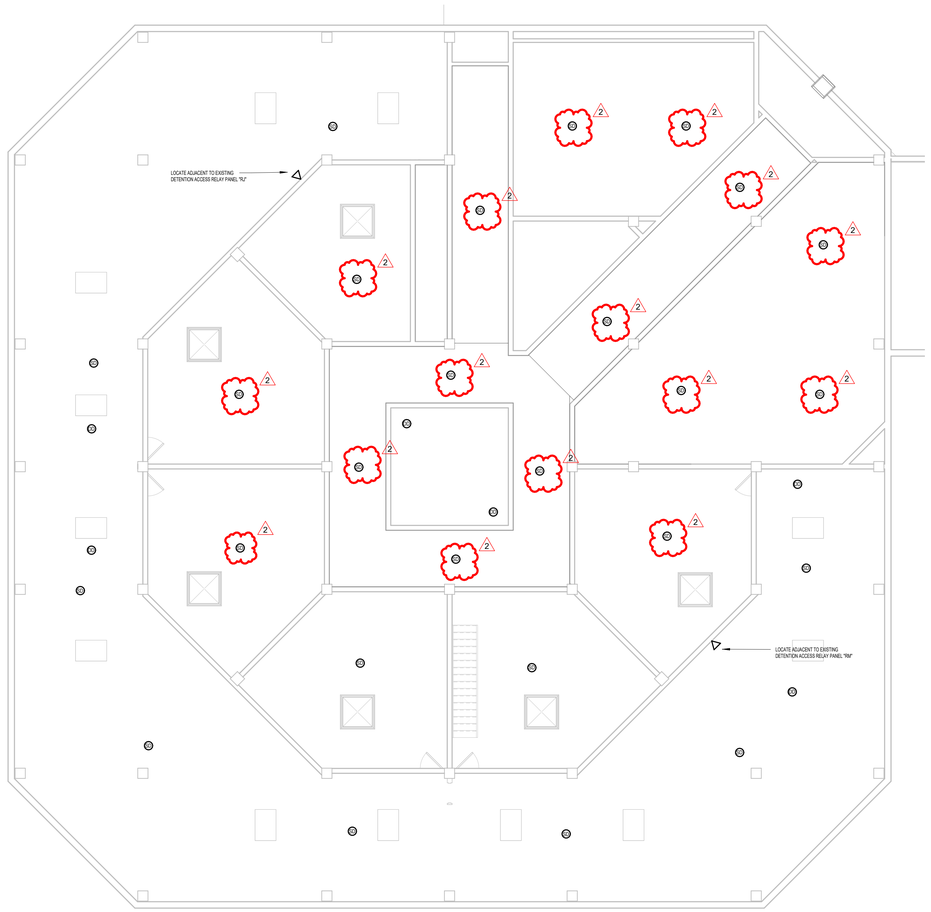
SECOND FLOOR
SYSTEMS PLAN - UNIT B

E420B

12/12/2025 4:00:34 PM



1 E430B INTERSTITIAL SYSTEM PLAN
1/8" = 1'-0"
0 4' 8' 16'

GENERAL NOTES - SYSTEMS:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. MAXIMUM NUMBER OF 4 INFORMATION OUTLET LOCATIONS PER CONDUIT HOME RUN TO MDF OR IDF IS PERMITTED. CONDUIT SHALL BE SIZED AS FOLLOWS:
   1. (1) INFORMATION OUTLET LOCATION: 1"C
   2. (2) INFORMATION OUTLET LOCATIONS: 1-1/4"C
   3. (3) INFORMATION OUTLET LOCATIONS: 1-1/2"C

C. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

D. WHERE CONDUIT IS STUBBED ABOVE ACCESSIBLE CEILING, CABLES SHALL BE INSTALLED WITH SERVICE LOOPS. SERVICE LOOPS SHALL BE APPROXIMATELY TWO WRAPS, OR ABOUT 16" EXTRA INCHES FOR LOOP.

E. ALL CABLEING SHALL BE CATEGORY 6.

GENERAL NOTES - FIRE ALARM:

A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. THE FIRE ALARM PLANS ARE INTENDED TO DEPICT THE GENERAL PERFORMANCE OF THE SYSTEM. THE FIRE ALARM VENDOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE DESIGN PER EQUIPMENT LIMITATIONS. PROVIDE ALL NECESSARY EQUIPMENT, DEVICES, WIRING, ETC AS REQUIRED FOR A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM.

C. DO NOT LOCATE ANY DETECTION DEVICE WITHIN 3-FEET OF AN AIR DIFFUSER.

D. ADDRESSABLE RELAYS AND MONITOR MODULES SHALL BE INSTALLED WITHIN 3-FEET OF CONTROLLED OR MONITORED DEVICE.

E. A VISUAL INDICATOR SHALL BE PROVIDED FOR ALL INITIATING DEVICES LOCATED OUTSIDE OF NORMAL VIEWING.

PLAN NOTES

#	NOTE

ALL EXISTING LOW VOLTAGE LOCAL AREA NETWORK CABLING AND SECURITY ELECTRONICS LOW VOLTAGE WIRING SUCH AS ACCESS CONTROL (DETENTION AND NON-DETENTION AREAS), INTERCOMM, DETENTION LIGHTING AND RECEPTACLE CONTROL, CCTV AND OTHER CONTROL WIRING TO REMAIN INTACT AND IN SERVICE. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE COST TO REPAIR OR REPLACE ANY DAMAGED CABLES.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070

Designed By: SGD

Drawn By: SGD

Checked By: JAF

Date: 11.21. 2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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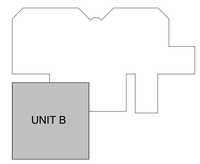

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INTERSTITIAL SYSTEMS PLAN - UNIT B

E430B

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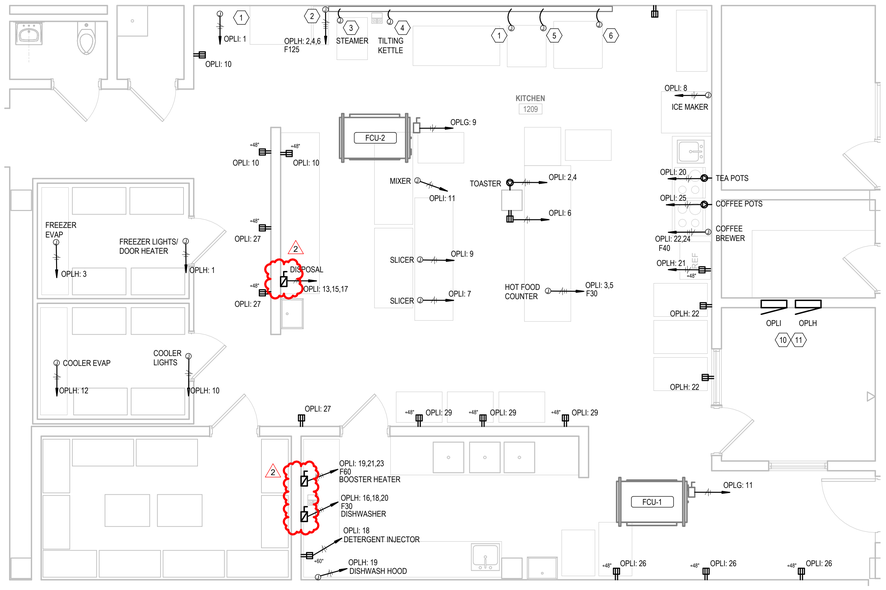
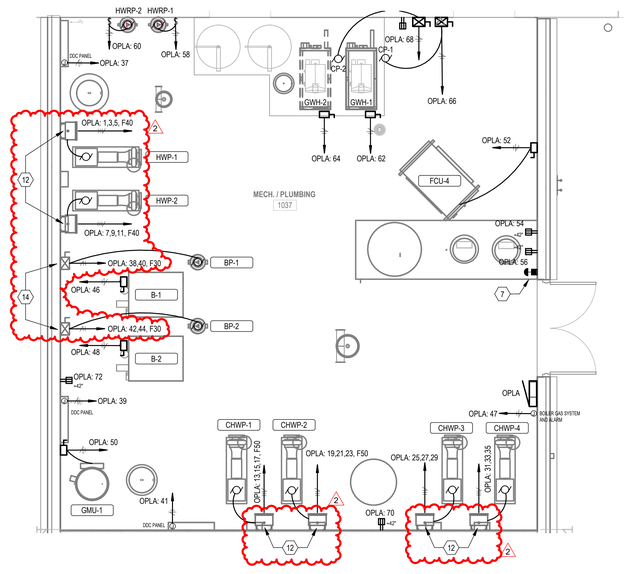


3 ENLARGED KITCHEN PLAN
1/4" = 1'-0"

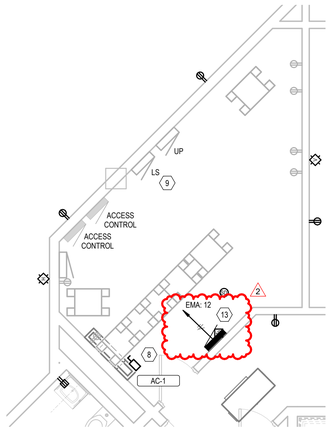
KITCHEN EQUIPMENT LAYOUT, PANEL AND CIRCUIT NUMBERS WERE DERIVED FROM EXISTING DRAWINGS AND MAY NOT REFLECT LAYOUT AND EXACT CIRCUITS AS FOUND IN THE FIELD.

PLAN NOTES

#	NOTE
1	FIRE SUPPRESSION SYSTEM
2	UTILITY RACEWAY
3	(3) #12 AWG SEALITITE CONDUIT FROM UTILITY RACEWAY TO EQUIPMENT.
4	(4) #12 AWG SEALITITE CONDUIT FROM UTILITY RACEWAY TO EQUIPMENT.
5	(4) #6AWG SEALITITE FROM UTILITY RACEWAY TO EQUIPMENT.
6	(5) #12 3/4" SEALTITE FROM UTILITY RACEWAY TO EQUIPMENT.
7	EMERGENCY SHUTOFF FOR BOILERS CONNECTED TO SHUNT TRIP CIRCUIT BREAKER.
8	DOOR CHIME SETS AND DOOR CONTACTS WITH
9	INSTALL NEW PANEL FEEDER TO PANEL "LS". UTILIZE EXISTING UPS SYSTEM TO NOT INCUR ANY DOWN TIME OF ELECTRICAL POWER TO THIS ROOM. ALL OTHER LINE AND LOW VOLTAGE CIRCUITS TO REMAIN.
10	EXISTING IN-SLAB CONDUITS THAT FEED PEDISTAL RECEPTACLES AND DEDICATED COOKING EQUIPMENT MAY BE REUSED. IF IN-SLAB CONDUITS ARE NOT ACCESSIBLE TO INSTALLATION OF NEW WIRING DUE TO DETERIORATION THEN PROVIDE UNI-STRUT SUPPORT AND FEED FROM OVERHEAD.
11	INSTALL NEW PANEL INTERIOR IN EXISTING RECESSED TUB. PROVIDE NEW TRIM AND DOOR.
12	VARIABLE FREQUENCY CONTROLLER PROVIDED BY EQUIPMENT MANUFACTURER. CONNECT COMPLETE VIA CIRCUIT INDICATED, PROVIDE ALL INTERCONNECTIONS AS REQUIRED. COORDINATE EXACT LOCATIONS WITH ALL EQUIPMENT ENSURING THAT ALL NEC REQUIRED CLEARANCES ARE SATISFIED.
13	CONNECT TO CLEAN AGENT CONTROL PANEL AND PROVIDE A SUPERVISED ADDRESSABLE RELAY WIRED TO THE FIRE ALARM CONTROL PANEL. CONNECT ALL EQUIPMENT PROVIDED BY SYSTEM SUPPLIER SUCH AS SMOKE HEAT/HEAT DETECTORS, MANUAL PULL STATION, ABORT SWITCH, THERMOSTAT, BELL AND STROBES. SEE DETAIL ON PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
14	MOTOR STARTER PROVIDED BY EQUIPMENT MANUFACTURER. CONNECT COMPLETE VIA CIRCUIT INDICATED, PROVIDE ALL INTERCONNECTIONS AS REQUIRED. COORDINATE EXACT LOCATIONS WITH ALL EQUIPMENT ENSURING THAT ALL NEC REQUIRED CLEARANCES ARE SATISFIED.



1 ENLARGED MECHANICAL/PLUMBING #1037
1/4" = 1'-0"



2 ENLARGED IT/SECURITY ELECTRONICS ROOM #1034
1/4" = 1'-0"

RQAW
DCCM

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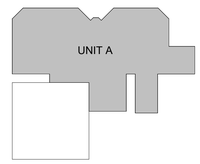

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ENLARGED ELECTRICAL PLANS

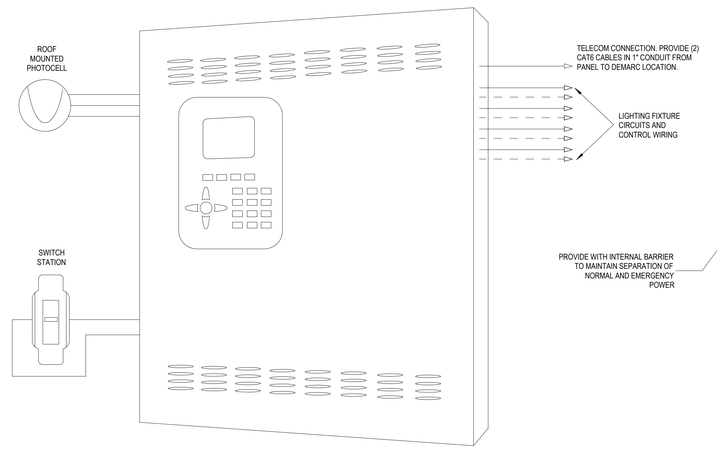
E500

LIGHT FIXTURE SCHEDULE - EXTERIOR LIGHTING

FIXTURE TYPE	FIXTURE NAME	DESCRIPTION	VOLTAGE	MAXIMUM ALLOWED WATTAGE	LAMP TYPE	COLOR TEMPERATURE	DELIVERED LUMENS	ACCEPTABLE MANUFACTURERS
EX1	EXTERIOR WALL PACK	18W" x 9L" x 9"D, DIE CAST ALUMINUM HOUSING, REMOVABLE HINGED DOOR FRAME, INTEGRAL LED DRIVER, GASKETED, WET LOCATION LISTED, FINISH SELECTION BY ARCHITECT FROM STANDARD AVAILABLE FINISH. SUITABLE FOR EXTREME COLD WEATHER.	208 V	125 W	LED	4000	SELECTABLE 2900-14000	LITHONIA TWX3, MCGRAW EDISON, HUBBELL
EX1A	EXTERIOR WALL PACK	SAME AS TYPE EX1 EXCEPT WITH WIRE GUARD	208 V	125 W	LED	4000	SELECTABLE 2900-14000	LITHONIA TWX3, MCGRAW EDISON, HUBBELL
EX1B	EXTERIOR WALL PACK	18W" x 9L" x 9"D, DIE CAST ALUMINUM HOUSING, REMOVABLE HINGED DOOR FRAME, INTEGRAL LED DRIVER, GASKETED, WET LOCATION LISTED, FINISH SELECTION BY ARCHITECT FROM STANDARD AVAILABLE FINISH. SUITABLE FOR EXTREME COLD WEATHER.	120 V	60 W	LED	4000	7500	MCGRAW EDISON ISS, LITHONIA, HUBBELL LARADO LMC, OR APPROVED EQUAL
EX2	EXTERIOR LINEAR EGRESS FIXTURE	72"L SURFACE MULLION MOUNTED FIXTURE, ENCLOSED AND GASKETED ALUMINUM HOUSING, FROSTED ACRYLIC LENS, WET LOCATION LISTED.	120 V	30 W	LED	4000	1500	LUMINAIRE LED BLADE BLD

LIGHT FIXTURE SCHEDULE - INTERIOR LIGHTING

FIXTURE TYPE	FIXTURE NAME	DESCRIPTION	VOLTAGE	MAXIMUM ALLOWED WATTAGE	LAMP TYPE	COLOR TEMPERATURE	DELIVERED LUMENS	ACCEPTABLE MANUFACTURERS
F1	LED FLAT PANEL	24"x48" BACK-LIT FLAT PANEL, RECESSED GRID LAY-IN MOUNTING, SATIN WHITE FROSTED ACRYLIC LENS, WHITE FINISH, SWITCHABLE CCT AND LUMEN OUTPUT, 0-10V DIMMING UNIVERSAL VOLTAGE DRIVER.	120 V	46 W	LED	3500K/4000K/5000K SWITCHABLE	3600/5000/6400 SWITCHABLE	COLUMBIA CBT24, LITHONIA CPX-2X4, METALUX 24CGTS
F1A	LED FLAT PANEL	SAME AS TYPE F1 EXCEPT WITH PLASTER DRYWALL FRAME	120 V	46 W	LED	3500K/4000K/5000K SWITCHABLE	3600/5000/6400 SWITCHABLE	COLUMBIA CBT24, LITHONIA CPX-2X4, METALUX 24CGTS
F2	LED FLAT PANEL	24"x24" BACK-LIT FLAT PANEL, RECESSED GRID LAY-IN MOUNTING, SATIN WHITE FROSTED ACRYLIC LENS, WHITE FINISH, SWITCHABLE CCT AND LUMEN OUTPUT, 0-10V DIMMING UNIVERSAL VOLTAGE DRIVER.	120 V	31 W	LED	3500K/4000K/5000K SWITCHABLE	3600/5000/6400 SWITCHABLE	COLUMBIA CBT22, LITHONIA CPX-2X2, METALUX 22CGTS
F3	8" DOWNLIGHT	8" DIA. APERATURE, RECESSED, CLEAR SPECULAR REFLECTOR, SELF TRIM, O-10V DIMMING. REMODEL CAPABLE TRIMS, SELECTABLE LUMENS AND COLOR TEMPERATURE, 80CRI	120 V	49 W	LED	3000/3500/4000/5000 SWITCHABLE	4000/4500/5000 SWITCHABLE	LITHONIA LBR8, HALO HCB OR APPROVED EQUAL
F3A	6" DOWNLIGHT	6" DIA. APERATURE, RECESSED, CLEAR SPECULAR REFLECTOR, SELF TRIM, O-10V DIMMING. REMODEL CAPABLE TRIMS, SELECTABLE LUMENS AND COLOR TEMPERATURE, 80CRI	120 V	35 W	LED	3000/3500/4000/5000 SWITCHABLE	2000/2500/3000 SWITCHABLE	LITHONIA LBR6, HALO HCB OR APPROVED EQUAL
F4A	LED LINEAR	DIRECT/INDIRECT LENEAR PENDANT, 3.5 "W X 5.25 "T X LENGTH AS INDICATED ON DRAWING, ONE-PIECE EXTRUDED ALUMINUM HOUSING, INDIRECT ACRYLIC CLEAR LENS, DIRECT FROSTED EXTRUDED LENS, WHITE SATIN FINSH, 0-10V DIMMING TO 10%	120 V	108 W	LED	4000K	1000/FT – INDIRECT 600/FT - DIRECT	MARK SLOT 4, STARTEK BEAM, NULITE REGOLO 4
F5	LED STRIP FIXTURE	4" WIDE X 4' LONG, SURFACE MOUNT OR SUSPENDED, FROSTED DROP LENS, WIDE DISTRIBUTION, DAMP LOCATION LISTED.	120 V	41 W	LED	3500K	5000	LITHONIA CSS, METALUX SNLED, COLUMBIA MPS
F5A	LED STRIP FIXTURE	4" WIDE X 8' LONG, SURFACE MOUNT OR SUSPENDED, FROSTED DROP LENS, WIDE DISTRIBUTION, DAMP LOCATION LISTED.	120 V	41 W	LED	4000K	5000	LITHONIA CSS, METALUX SNLED, COLUMBIA MPS
F6	OVER MIRROR	6"W X 4"D X 48"L STEEL HOUSING, WHITE POWDER COAT FINISH, ACRYLIC DIFFUSER, DAMP LOCATION LISTED, INTEGRAL OCCUPANCY SENSOR.	120 V	40 W	LED	3500K	4000	COLUMBIA LBIL, LITHONIA WL4, METALUX BCLED
F7	ELEVATOR HOISTWAY	48"L SURFACE WALL MOUNTED FIXTURE, ENCLOSED AND GASKETED FIBERGLASS HOUSING, FROSTED ACRYLIC LENS, WET LOCATION LISTED.	120 V	42 W	LED	3500K	5000	LITHONIA CSVT, COLUMBIA LXEM, METALUX VT2
F8	2X4 VANDAL RESITANT TROFFER RECESSED MOUNTED	24"x48" VANDAL-RESISTANT TROFFER, HIGH ABUSE, RECESSED GRID LAY-IN MOUNTING, 20 GA. MINIMUM COLD-ROLLED STEEL OR ALUMINUM HOUSING, 18 GA. MINIMUM COLD ROLLED STEEL DOOR W/ TORX SECURITY FASTENERS W/ CENTER PIN REJECT FEATURE, FROSTED/PRISMATIC ACRYLIC INTERNAL LENS, 0.1875" MINIMUM CLEAR POLYCARBONATE EXTERNAL LENS, WHITE FINISH, 0-10V DIMMING UNIVERSAL VOLTAGE DRIVER.	120 V	49 W	LED	4000k	6000	LITHONIA 2VRTL, NEW STAR NST24, PACO LIGHTING PRTA
F8A	2X4 VANDAL RESITANT WET LOCATION TROFFER RECESSED MOUNTED	24"x48" VANDAL-RESISTANT TROFFER, WET LOCATION, HIGH ABUSE, RECESSED GRID LAY-IN MOUNTING, 20 GA. MINIMUM COLD-ROLLED STEEL OR ALUMINUM HOUSING, 18 GA. MINIMUM COLD ROLLED STEEL DOOR W/ TORX SECURITY FASTENERS W/ CENTER PIN REJECT FEATURE, FROSTED/PRISMATIC ACRYLIC INTERNAL LENS, 0.1875" MINIMUM CLEAR POLYCARBONATE EXTERNAL LENS, WHITE FINISH, 0-10V DIMMING UNIVERSAL VOLTAGE DRIVER.	120 V	49 W	LED	4000k	6000	LITHONIA 2VRTL, NEW STAR NST24, PACO LIGHTING PRTA
F8B	2X4 VANDAL RESITANT TROFFER SURFACE MOUNTED	24"x48" VANDAL-RESISTANT TROFFER, HIGH ABUSE, SURFACED MOUNTING, 20 GA. MINIMUM COLD-ROLLED STEEL OR ALUMINUM HOUSING, 18 GA. MINIMUM COLD ROLLED STEEL DOOR W/ TORX SECURITY FASTENERS W/ CENTER PIN REJECT FEATURE, FROSTED/PRISMATIC ACRYLIC INTERNAL LENS, 0.1875" MINIMUM CLEAR POLYCARBONATE EXTERNAL LENS, WHITE FINISH, 0-10V DIMMING UNIVERSAL VOLTAGE DRIVER.	120 V	17 W	LED	4000k	6000	LITHONIA 2VRTL, NEW STAR NST24, PACO LIGHTING PRTA
F8C	2X4 KITCHEN VANDAL RESITANT WET LOCATION TROFFER RECESSED MOUNTED	24"x48" KITCHEN NSF RATED VANDAL-RESISTANT TROFFER, WET LOCATION, HIGH ABUSE, RECESSED GRID LAY-IN MOUNTING, 20 GA. MINIMUM COLD-ROLLED STEEL OR ALUMINUM HOUSING, 18 GA. MINIMUM COLD ROLLED STEEL DOOR W/ TORX SECURITY FASTENERS W/ CENTER PIN REJECT FEATURE, FROSTED/PRISMATIC ACRYLIC INTERNAL LENS, 0.1875" MINIMUM CLEAR POLYCARBONATE EXTERNAL LENS, WHITE FINISH, 0-10V DIMMING UNIVERSAL VOLTAGE DRIVER.	120 V	49 W	LED	4000k	8000	KENALL, NEW STAR, FAILSAFE
F9	2x4 CONFINEMENT SURFACE MOUNTED	24"x48" CONFINEMENT GRADE FIXTURE, CEILING SURFACE MOUNTING, 16 GA. COLD-ROLLED STEEL HOUSING AND DOOR W/ TORX SECURITY FASTENERS W/ CENTER PIN REJECT, HIGH-IMPACT DIFFUSED ACRYLIC INNER LENS, .250" MINIMUM CLEAR POLYCARBONATE EXTERNAL LENS, WHITE FINISH, 0-10V DIMMING UNIVERSAL VOLTAGE DRIVER.	120 V	50 W	LED	4000K	4637	KENALL SDSA-4 PACO NEW STAR WARN4
F9A	2x4 CONFINEMENT SURFACE MOUNTED	SAME AS TYPE F9 EXCEPT WET LABLED	120 V	50 W	LED	4000K	4637	KENALL SDSA-4 PACO NEW STAR WARN4
F10	CEILING HGHI ABUSE	48"L SURFACE CEILING MOUNTED FIXTURE, ENCLOSED AND GASKETED FIBERGLASS HOUSING, FROSTED ACRYLIC LENS, WET LOCATION LISTED.	120 V	32 W	LED	4000K	6000	LITHONIA FEM, COLUMBIA LXEM, METALUX VT2
F11	2X4 VANDAL RESITANT TROFFER SURFACE MOUNTED	24"x48" VANDAL-RESISTANT TROFFER, HIGH ABUSE, SURFACED MOUNTING, 20 GA. MINIMUM COLD-ROLLED STEEL OR ALUMINUM HOUSING, 18 GA. MINIMUM COLD ROLLED STEEL DOOR W/ TORX SECURITY FASTENERS W/ CENTER PIN REJECT FEATURE, FROSTED/PRISMATIC ACRYLIC INTERNAL LENS, 0.1875" MINIMUM CLEAR POLYCARBONATE EXTERNAL LENS, WHITE FINISH, 0-10V DIMMING UNIVERSAL VOLTAGE DRIVER.	120 V	150 W	LED	4000K	18000	LITHONIA 2VRTL, NEW STAR NST24, PACO LIGHTING PRTA
F11A	2X4 VANDAL RESITANT TROFFER RECESSED MOUNTED	24"x48" VANDAL-RESISTANT TROFFER, HIGH ABUSE, RECESSED GRID LAY-IN MOUNTING, 20 GA. MINIMUM COLD-ROLLED STEEL OR ALUMINUM HOUSING, 18 GA. MINIMUM COLD ROLLED STEEL DOOR W/ TORX SECURITY FASTENERS W/ CENTER PIN REJECT FEATURE, FROSTED/PRISMATIC ACRYLIC INTERNAL LENS, 0.1875" MINIMUM CLEAR POLYCARBONATE EXTERNAL LENS, WHITE FINISH, 0-10V DIMMING UNIVERSAL VOLTAGE DRIVER.	120 V	150 W	LED	4000K	18000	LITHONIA 2VRTL, NEW STAR NST24, PACO LIGHTING PRTA
F12	4 FOOT COVE FIXTURE	LOW PROFILE COVE LIGHT, 1"W X 48"L, ABS EXTRUDED HOUSING AND MOLDED END CAPS, EXTRUDED FROSTED POLYCARBONATE LENS	120 V	16 W	LED	4000	1500	INSIGHT PILOT MICRO COVE, SOLID STATE LUMINARES eCOVELINE
F13	4X4 ARCHITECTURAL RECESSED	48"x48", RECESSED GRID LAY-IN MOUNTING, 2" REGRESSED SATIN WHITE FROSTED ACRYLIC LENS, WHITE FINISH, SWITCHABLE CCT AND LUMEN OUTPUT, 0-10V DIMMING UNIVERSAL VOLTAGE DRIVER.	120 V	92 W	LED	3500K/4000K/5000K SWITCHABLE	3600/5000/6400 SWITCHABLE	CORELITE 44ID, PINNACLE LIFT
F-EM	EM WALL PACK	CORRECTIONAL GRADE EMERGENCY WALL PACK, SELF CONTAINED, SELF DIAGNOSTICS, HIGH IMPACT POLYCARBONATE CONSTRUCTION, TORX WITH CENTER PIN, INTEGRAL BATTERY, UL924 COMPLIANT, WHITE FINISH.	120 V	26 W	LED	-	1500	KENALL METEL, BEGHELLI FTZ-BU, OR APPROVED EQUAL
FX	EXIT LIGHT	DIE CAST ALUMINUM EXIT, WHITE HOUSING, DIRECTIONAL ARROWS AND NUMBER OF FACES AS PER DRAWINGS, UNIVERSAL CEILING OR WALL MOUNT, STENCIL FACE, RED LETTERS, UL LISTED, MEETS UL924, NFPA 101, NEC, AND OSHA ILLUMINATION STANDARDS, FIVE YEAR WARRANTY.	120 V	4 W	LED	-	-	DUAL-LITE SE, LITHONIA LE, SURE-LITES CX
FXVR	EXIT LIGHT VANDAL RESISTANT	VANDAL-RESISTANT EMERGENCY EXIT SIGN, HEAVY-DUTY DIE-CAST WHITE ALUMINUM HOUSING, DIRECTIONAL ARROWS AND NUMBER OF FACES AS INDICATED, CEILING OR WALL MOUNTING AS INDICATED, CLEAR POLYCARBONATE COVER W/ TAMPER-RESISTANT TORX FASTENERS, WHITE STENCIL FACE, RED LETTERS, INTEGRAL UL924 LISTED EMERGENCY BATTERY PACK, MEETS NFPA 101, IBC, AND OSHA ILLUMINATION STANDARDS.	120 V	4 W	LED	-	-	DUAL-LITE SE, LITHONIA LE, SURE-LITES CX



NOTES:

1. PANEL SHALL BE A 24 POLE PANEL.
2. REFER TO THE DRAWINGS FOR LIGHTING CIRCUITS TO BE CONTROLLED.
3. PROVIDE ALL REQUIRED EQUIPMENT AND ADDITIONAL CONTROL COMPONENTS AS REQUIRED FOR A COMPLETE SYSTEM.
4. THIS DRAWING IS DIAGRAMATIC IN NATURE. OTHER MANUFACTURERS MAY REQUIRE ADDITIONAL EQUIPMENT AND WIRING.
5. COORDINATE WITH THE SUCCESSFUL BIDDER AND PROVIDE ALL LABOR AND MATERIAL TO MAKE A CONTROL SYSTEM OPERATIONAL.

LC-1 LIGHTING CONTROL RELAY PANEL SCHEDULE

DESCRIPTION	CIRCUIT NUMBER	RELAY	RELAY	CIRCUIT NUMBER	DESCRIPTION
SITE LIGHTING - EXISTING POLE LIGHTS	OPLA:2,4	1	2	OPLA:22,24	EXTERIOR BUILDING LIGHTS
SITE LIGHTING - EXISTING POLE LIGHTS	OPLA:6,8	3	4	OPLA:26,28	EXTERIOR BUILDING LIGHTS
SITE LIGHTING - EXISTING POLE LIGHTS	OPLA:10,12	5	6	OPLA:30,32	EXTERIOR BUILDING LIGHTS
SITE LIGHTING - EXISTING POLE LIGHTS	OPLA:14,16	7	8	OPLA:34,36	EXTERIOR BUILDING LIGHTS
EXTERIOR BUILDING LIGHTS	OPLA:18,20	9	10	OPLA:45	EXTERIOR EGRESS LIGHTS
SPARE		11	12	OPLA:47	EXTERIOR EGRESS LIGHTS
SPARE		13	14		SPARE
SPARE		15	16		SPARE
SPARE		17	18		SPARE
SPARE		19	20		SPARE
SPARE		21	22		SPARE
SPARE		23	24		SPARE
RELAY BOARD INPUT DESCRIPTION		**INPUT**	**INPUT**	**RELAY BOARD INPUT DESCRIPTION**	
ROOF MOUNTED PHOTOCELL		1	2		
		3	4		
		5	6		
		7	8		
		9	10		
		11	12		
		13	14		
		15	16		
		17	18		
		19	20		
		21	22		
		23	24		
	AUX INPUT #1		AUX INPUT #2		
	AUX INPUT #3		AUX INPUT #4		
	DC OUTPUT #1		DC OUTPUT #2		

1 RELAY PANEL DETAIL
NO SCALE

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

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UNIT A
UNIT B
N

ELECTRICAL SCHEDULES

E600

12/12/2025 4:00:42 PM

Branch Panel: OPLA

Location: MECH. / PLUMBING 1037 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 400 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1				2.1 0			2	20 A	EXISTING FRONT PARKING LOT LIGHTING	2
3	HWP-1 MECH. / PLUMBING 1037	35 A	3		2.1 0					4
5						2.1 0	2	20 A	EXISTING FRONT PARKING LOT LIGHTING	6
7				2.1 0						8
9	HWP-2 MECH. / PLUMBING 1037	35 A	3		2.1 0		2	20 A	EXISTING FRONT PARKING LOT LIGHTING	10
11						2.1 0				12
13				3 0			2	20 A	EXISTING REAR PARKING LOT LIGHTING	14
15	CHWP-1 MECH. / PLUMBING 1037	50 A	3		3 0					16
17						3 0	1	20 A	SPARE	18
19				3 0			1	20 A	SPARE	20
21	CHWP-2 MECH. / PLUMBING 1037	50 A	3		3 0.6		2	20 A	EXTERIOR WALL PACKS	22
23						3 0.6				24
25				1.3 0.4			2	20 A	EXTERIOR WALL PACKS	26
27	CHWP-3 MECH. / PLUMBING 1037	20 A	3		1.3 0.4					28
29						1.3 0.3				30
31				1.3 0.3			2	20 A	EXTERIOR WALL PACKS	32
33	CHWP-4 MECH. / PLUMBING 1037	20 A	3		1.3 0					34
35						1.3 0	2	20 A	EXISTING FLAG POLE LIGHTING	36
37	DDC PANEL MECH. / PLUMBING 1037	20 A	1	0.5 1.4			2	25 A	BP-1 MECH. / PLUMBING 1037 (SHUNT TRIP BREAKER)	38
39	DDC PANEL MECH. / PLUMBING 1037	20 A	1		0.5 1.4					40
41	DDC PANEL MECH. / PLUMBING 1037	20 A	1			0.5 1.4	2	25 A	BP-2 MECH. / PLUMBING 1037 (SHUNT TRIP BREAKER)	42
43	EXTERIOR EGRESS WALLPACKS	20 A	1	0.5 1.4						44
45	EXTERIOR EGRESS WALL PACKS	20 A	1		0.2 1.6		1	20 A	SPARE	46
47	BOILER ALARM MECH. / PLUMBING 1037	20 A	1			0.5 1.6	1	20 A	B-2 MECH. / PLUMBING 1037	48
49	SPARE	20 A	1	0 1.2			1	20 A	GMU-1 MECH. / PLUMBING 1037	50
51	SPARE	20 A	1		0 1.4		1	20 A	FCU-4 MECH. / PLUMBING 1037	52
53	SPARE	20 A	1			0 1.9	1	20 A	WS-1 MECH. / PLUMBING 1037	54
55	SPARE	20 A	1	0 1.9			1	20 A	WS-2 MECH. / PLUMBING 1037	56
57	SPARE	20 A	1		0 0.1		1	20 A	HWRP-1 MECH. / PLUMBING 1037	58
59	SPARE	20 A	1			0 0.1	1	20 A	HWRP-2 MECH. / PLUMBING 1037	60
61	SPARE	20 A	1	0 1.9			1	20 A	GWH-1 MECH. / PLUMBING 1037	62
63	SPARE	20 A	1		0 1.9		1	20 A	GWH-2 MECH. / PLUMBING 1037	64
65	SPARE	20 A	1			0 1.7	1	20 A	CP-1 MECH. / PLUMBING 1037	66
67	SPARE	20 A	1	0 1.7			1	20 A	CP-2 MECH. / PLUMBING 1037	68
69	SPARE	20 A	1		0 0.2		1	20 A	Receptacle MECH. / PLUMBING 1037	70
71	SPARE	20 A	1			0 0.2	1	20 A	Receptacle MECH. / PLUMBING 1037	72
73	SPARE	20 A	1	0 0			1	20 A	SPARE	74
75	SPARE	20 A	1		0 0		1	20 A	SPARE	76
77	SPARE	20 A	1			0 0	1	20 A	SPARE	78
79	SPARE	20 A	1	0 0			1	20 A	SPARE	80
81	SPARE	20 A	1		0 0		1	20 A	SPARE	82
83	SPARE	20 A	1			0 0	1	20 A	SPARE	84
		Total Load:		24.1 kVA	21.3 kVA	21.7 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	3315 VA	100.00%	3315 VA		
Motor	57504 VA	100.00%	57504 VA	**Total Conn. Load:**	67019 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	67019 VA
Receptacle	6200 VA	100.00%	6200 VA	**Total Conn. Current:**	186 A
				Total Est. Demand Current:	186 A

Remarks:

Branch Panel: OPLB

Location: EMERGENCY POWER 1038 | **Voltage:** 208Y/120 | **Branch:**
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MLO
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	LIGHTING Room 1005, 1008, 1007, 1009, 1010, 101...	20 A	1	0.5 0.4			1	20 A	LIGHTING Room 1100, 1101	2
3	LIGHTING Room 1014, 1017, 1018, 1020, 1019	20 A	1		0.5 0.4		1	20 A	LIGHTING LOBBY 1101	4
5	LIGHTING Room 1001, 1016, 1003, 1021, 1006	20 A	1			0.4 0	1	20 A	SPARE	6
7	LIGHTING Room 1022, 1023	20 A	1	0.5 0			1	20 A	SPARE	8
9	LIGHTING Room 1006, 1012, 1015, A1002	20 A	1		0.5 0.1		1	20 A	LIGHTING Room 1101, A862	10
11	LIGHTING Room 1032, 1029, 1033, 1031, 1030, 102...	20 A	1			0.7 0.1	1	20 A	LIGHTING Room 1101, A862	12
13	LIGHTING Room 1020, 1036	20 A	1	0.5 0.1			1	20 A	LIGHTING LOBBY 1101	14
15	SPARE	20 A	1		0 0.1		1	20 A	LIGHTING LOBBY 1101	16
17	LIGHTING Room 1006, 1012, 1015, A1002	20 A	1			0.3 0	1	20 A	SPARE	18
19	LIGHTING Room A1002, 1006	20 A	1	0.3 0			1	20 A	SPARE	20
21	LIGHTING Room 1001, 1000	20 A	1		0.6 0		1	20 A	SPARE	22
23	LIGHTING Room 1032, 1029, 1033, 1031, 1030	20 A	1			0.4 0	1	20 A	SPARE	24
25	LIGHTING Room 1020, 1036	20 A	1	0.2 0			1	20 A	SPARE	26
27	LIGHTING Room 1302, A846	20 A	1		0.3 0		1	20 A	SPARE	28
29	LIGHTING Room 1103, 1034	20 A	1			0.2 0	1	20 A	SPARE	30
31	LIGHTING Room 1037, 1038	20 A	1	0.4 0			1	20 A	SPARE	32
33					0		1	20 A	SPARE	34
35	SPARE	20 A	1			0 0	1	20 A	SPARE	36
37	SPARE	20 A	1	0 0			1	20 A	SPARE	38
39	SPARE	20 A	1		0 0		1	20 A	SPARE	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
		Total Load:		2.9 kVA	2.6 kVA	2.2 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	7600 VA	100.00%	7600 VA		
				Total Conn. Load:	7600 VA
				Total Est. Demand:	7600 VA
				Total Conn. Current:	21 A
				Total Est. Demand Current:	21 A

Remarks:

Distribution Panel: EMDP

Location: EMERGENCY POWER 1038 | **Voltage:** 208Y/120 | **Branch:**
Supplied From: MDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: | **Ground:** Equipment Ground Bus | **Main Rating:** 400 A

General Panel Comments:

Circuit Number	Circuit Description	Breaker Information: Thermal Mag Fixed	Thermal Mag Adj. Inst	Electronic Trip L	S	I	G	100% Rated	Poles	Frame Size	Trip Rating	Load (kVA)	Remarks:
1	PANEL EMA			X	X	X		X	3	100 A	100 A	4.5	
2	PANEL EMB			X	X	X		X	3	100 A	100 A	0.8	
3	PANEL EMC			X	X	X		X	3	100 A	100 A	1.5	
4	PANEL EMD			X	X	X		X	3	100 A	100 A	0.7	
5	EXISTING PANEL LS			X	X	X		X	3	400 A	225 A	0.0	
6													
7													
8													
9													
10													
11													
12													
											Total Connected Load (kVA):	7.4	
											Total Connected Load (Amps):	20.6	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	5438 VA	100.00%	5438 VA		
Receptacle	2000 VA	100.00%	2000 VA	**Total Conn. Load:**	7438 VA
				Total Est. Demand:	7438 VA
				Total Conn. Current:	21 A
				Total Est. Demand Current:	21 A

Remarks:

Distribution Panel: LRDP

Location: EMERGENCY POWER 1038 | **Voltage:** 208Y/120 | **Branch:** LR
Supplied From: MDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: SURFACE | **Wire:** 4 | **Main Type:** Main Breaker
Enclosure Type: NEMA 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 200 A

General Panel Comments:

Circuit Number	Circuit Description	Breaker Information: Thermal Mag Fixed	Thermal Mag Adj. Inst	Electronic Trip L	S	I	G	100% Rated	Poles	Frame Size	Trip Rating	Load (kVA)	Remarks:
1	PANEL LRA			X	X	X		X	3	400 A	100 A	6.0	
2	PANEL LRB			X	X	X		X	3	400 A	100 A	7.0	
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
											Total Connected Load (kVA):	13.0	
											Total Connected Load (Amps):	36.1	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	6012 VA	100.00%	6012 VA		
Receptacle	7000 VA	100.00%	7000 VA	**Total Conn. Load:**	13012 VA
				Total Est. Demand:	13012 VA
				Total Conn. Current:	36 A
				Total Est. Demand Current:	36 A

Remarks:

Distribution Panel: MDP

Location: Space A747 | **Voltage:** 208Y/120 | **Branch:** NORMAL
Supplied From: | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: | **Ground:** Equipment Ground Bus | **Main Rating:** 3000 A

General Panel Comments:
SERVICE ENTRANCE RATED; 100% RATED MAIN BREAKER FULLY ELECTRONIC ADJUSTABLE,INTEGRAL SPD

Circuit Number	Circuit Description	Breaker Information: Thermal Mag Fixed	Thermal Mag Adj. Inst	Electronic Trip L	S	I	G	100% Rated	Poles	Frame Size	Trip Rating	Load (kVA)	Remarks:
1	PANEL OPDP			X	X	X		X	3	3000...	3000	873.9	
2	PANEL EMDP			X	X	X		X	3	400 A	400 A	7.4	
3	PANEL LRDP			X	X	X		X	3	400 A	200 A	13.0	
4													
5													
6													
7													
8													
9													
10													
11													
12													
											Total Connected Load (kVA):	894.4	
											Total Connected Load (Amps):	2482.5	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LITES	189 VA	125.00%	236 VA		
LIGHTING	46770 VA	100.00%	46770 VA	**Total Conn. Load:**	894354 VA
Mechanical	16160 VA	70.00%	11312 VA	**Total Est. Demand:**	802386 VA
Miscellaneous	800 VA	70.00%	560 VA	**Total Conn. Current:**	2482 A
Motor	646579 VA	100.00%	646579 VA	**Total Est. Demand Current:**	2227 A
Other	0 VA	0.00%	0 VA		
Receptacle	183856 VA	52.72%	96928 VA		

Remarks:

Distribution Panel: OPDP

Location: EMERGENCY POWER 1038 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: MDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: | **Ground:** Equipment Ground Bus | **Main Rating:** 3000 A

General Panel Comments:
100% RATED MAIN BREAKER FULLY ELECTRONIC ADJUSTABLE

Circuit Number	Circuit Description	Breaker Information: Thermal Mag Fixed	Thermal Mag Adj. Inst	Electronic Trip L	S	I	G	100% Rated	Poles	Frame Size	Trip Rating	Load	Remarks:
1	CH-1			X	X	X		X	3	400 A	350 A	105.0	
2	CH-2			X	X	X		X	3	400 A	350 A	105.0	
3	ELEVATOR #2 ELEVATOR EQUIP. 1107		X					X	3	400 A	200 A	57.6	
4	ELEVATOR #1 ELEV. EQUIP 1004		X					X	3	400 A	100 A	28.8	
5	PANEL OPLA		X					X	3	400 A	400 A	67.0	
6	PANEL OPLB		X					X	3	400 A	225 A	7.6	
7	PANEL OPLC		X					X	3	400 A	225 A	21.3	
8	PANEL OPLD		X					X	3	400 A	225 A	50.5	
9	PANEL OPLE		X					X	3	400 A	225 A	6.1	
10	PANEL OPLF		X					X	3	400 A	225 A	16.3	
11	PANEL OPLG		X					X	3	400 A	225 A	60.6	
12	PANEL OPLH			X	X	X		X	3	400 A	400 A	90.0	
13	PANEL OPLI		X					X	3	400 A	225 A	8.2	
14	PANEL OPLJ		X					X	3	400 A	225 A	6.9	
15	PANEL OPLK		X					X	3	400 A	225 A	2.2	
16	PANEL OPLL			X	X	X		X	3	400 A	400 A	88.9	
17	PANEL OPLM		X					X	3	400 A	225 A	7.3	
18	PANEL OPLN		X					X	3	400 A	225 A	67.0	
19	PANEL OPLO		X					X	3	400 A	225 A	10.1	
20	PANEL OPLP		X					X	3	400 A	225 A	25.2	
21	PANEL OPLR		X					X	3	400 A	225 A	0.0	
22	PANEL OPLT		X					X	3	100 A	100 A	10.6	
23	OUT BUILDING		X					X	3	100 A	100 A	25.2	
24	SPARE	--	--	--	--	--	--	--	1	400 A	225 A	0.0	--
25	SPARE	--	--	--	--	--	--	--	1	400 A	225 A	0.0	--
26	INTEGRAL GEN SET PANEL								2	100 A	60 A	6.5	
27													
28													
29													
30													
											Total Connected Load (kVA):	873.9	
											Total Connected Load (Amps):	2425.7	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LITES	189 VA	125.00%	236 VA		
LIGHTING	41332 VA	100.00%	41332 VA	**Total Conn. Load:**	873904 VA
Mechanical	16160 VA	70.00%	11312 VA	**Total Est. Demand:**	786435 VA
Miscellaneous	800 VA	70.00%	560 VA	**Total Conn. Current:**	2426 A
Motor	640567 VA	100.00%	640567 VA	**Total Est. Demand Current:**	2183 A
Other	0 VA	0.00%	0 VA		
Receptacle	174856 VA	52.86%	92428 VA		

Remarks:

PLAN NOTES

#	NOTE
1	ALL ELECTRICAL EQUIPMENT SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT FROM THE UTILITY. SERIES RATED DEVICES ARE NOT ACCEPTABLE. AVAILABLE FAULT CURRENT SHALL BE CONFIRMED WITH UTILITY AND FAULT ANALYSIS COMPLETE AS PER SPECIFICATIONS SECTION 26 05 73 PRIOR TO FINAL EQUIPMENT APPROVAL.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070

Designed By: SGD

Drawn By: SGD

Checked By: JAF

Date: 11.21. 2025

JUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Justin Barth

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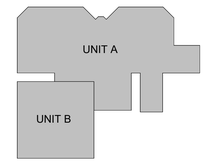

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ELECTRICAL SCHEDULES

E601

12/12/2025 4:00:43 PM

Branch Panel: OPLG

Location: Space A799 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	GUH-1 STOR 1217	20 A	1	0.2 3.2			3	45 A	AHU-A2	2
3	IR-1 SALLY PORT 1216	20 A	1		0.6 3.2					4
5						0.4 3.2				6
7	EH-3 TLT. 1215	20 A	2	0.4 0.7			1	15 A	HCP-A2 PROPERTY STOR 1213	8
9	FCU-2 PROPERTY STOR 1213	20 A	1		1.4 0		1	20 A	SPARE	10
11	FCU-1 KITCHEN 1209	20 A	1			1.4 0.8				12
13	FCU-3 SHAKE DOWN 1206	20 A	1	1.4 0.8			3	20 A	EF-A2	14
15	SPARE	20 A	1		0 0.8					16
17						1.3 0.8	1	20 A	EF-A1	18
19	MUA-1	20 A	3	1.3 0.5			1	20 A	EF-A4	20
21					1.3 0.5		1	20 A	EF-A6	22
23	ROOF Receptacle & AHU-A3 Lts & Recep	20 A	1			1.5 0.5	1	20 A	EF-A7	24
25	VAV PANEL STOR. 3045	20 A	1	0.5 5.9						26
27	Receptacle STOR. 3045	20 A	1		0.5 5.9		3	80 A	AHU-A3	28
29	HEAT TRACE	20 A	1			1.9 5.9				30
31	HEAT TRACE	20 A	1	1.9 0			1	20 A	EF-A3	32
33	1100_ EH-6	30 A	2		2 1.9		1	20 A	ELEVATOR #2 CAB LIGHTS / HVAC ELEV EQUIP. 1107	34
35						2 0.2	1	20 A	Receptacle ELEVATOR EQUIP. 1107	36
37							1	20 A	Receptacle ELEV #2 PIT	38
39	3008, 3309 _ EH-4 & EH-5	20 A	2	0.8 0.2			1	20 A	O/H DOOR SALLY PORT 1216	40
41	SPARE	20 A	1		0.8 1.9		1	20 A	O/H DOOR SALLY PORT 1216	42
		Total Load:		17.9 kVA	20.9 kVA	21.8 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Mechanical	9440 VA	70.00%	6608 VA		
Miscellaneous	800 VA	70.00%	560 VA	**Total Conn. Load:**	60569 VA
Motor	46773 VA	100.00%	46773 VA	**Total Est. Demand:**	57497 VA
Receptacle	3556 VA	100.00%	3556 VA	**Total Conn. Current:**	168 A
				Total Est. Demand Current:	160 A

Remarks:

Branch Panel: OPLE

Location: Space A799 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	LIGHTING STOR 1217	20 A	1	0.2						2
3	LIGHTING SALLY PORT 1216	20 A	1		0.4 0.4		1	20 A	LIGHTING Room 1206, 1309	4
5	LIGHTING Room 1218, 1220	20 A	1			0.1 0	1	20 A	LIGHTING Space A799	6
7	LIGHTING HOLD 1222	20 A	1	0.1 0.5			1	20 A	LIGHTING PROPERTY STOR 1213	8
9	LIGHTING HOLD 1223	20 A	1		0.1 0.1		1	20 A	LIGHTING Room 1212, 1214, 1210	10
11	LIGHTING HOLD 1224	20 A	1			0.1 0.1	1	20 A	LIGHTING Room 1232, 1211	12
13	LIGHTING HOLD 1225	20 A	1	0.1 0.5			1	20 A	LIGHTING Room 1209, 1209A, 1209B	14
15	LIGHTING HOLD 1226	20 A	1		0.1 0.3		1	20 A	LIGHTING KITCHEN 1209	16
17	LIGHTING DRUNK TANK 1227	20 A	1			0.2 0.2	1	20 A	LIGHTING Room 1209, A757	18
19	LIGHTING HOLD 1228	20 A	1	0.1 0			1	20 A	SPARE	20
21	LIGHTING HOLD 1229	20 A	1		0.1 0		1	20 A	SPARE	22
23	LIGHTING HOLD 1230	20 A	1			0.1 0	1	20 A	SPARE	24
25	LIGHTING Room 1200, 1221	20 A	1	0.4 0			1	20 A	SPARE	26
27	LIGHTING Room 1221, 1200	20 A	1		0.3 0		1	20 A	SPARE	28
29	LIGHTING Room A886, 1200, 1207	20 A	1			0.3 0	1	20 A	SPARE	30
31	LIGHTING Room A827, 1113, 1112, 1111, 1110	20 A	1	0.3 0			1	20 A	SPARE	32
33	LIGHTING Room 1111, 1109, 1105	20 A	1		0.8 0		1	20 A	SPARE	34
35	LIGHTING PADDED CELL 1201	20 A	1			0.1 0	1	20 A	SPARE	36
37	LIGHTING TISH 1202	20 A	1	0.1 0			1	20 A	SPARE	38
39	LIGHTING ISOLATION 1203	20 A	1		0.1 0		1	20 A	SPARE	40
41	LIGHTING Room 1204, 1205	20 A	1			0.2 0	1	20 A	SPARE	42
		Total Load:		2.0 kVA	2.7 kVA	1.4 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	6052 VA	100.00%	6052 VA		
				Total Conn. Load:	6052 VA
				Total Est. Demand:	6052 VA
				Total Conn. Current:	17 A
				Total Est. Demand Current:	17 A

Remarks:

Branch Panel: OPLC

Location: EMERGENCY POWER 1038 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MLO
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	Receptacle MECH. / PLUMBING 1037	20 A	1	0.2 0.5			1	20 A	Receptacle DETECTIVES 1014	2
3	Receptacle MECH. EQUIP. 1024	20 A	1		0.2 0.5		1	20 A	Receptacle TRAINING 1023	4
5	Receptacle MECH. EQUIP. 1024	20 A	1			0.2 0.5	1	20 A	Receptacle Room 1023, 1022	6
7	Receptacle Room 1027, 1025, 1026	20 A	1	0.7 0.4			1	20 A	Receptacle MECH. EQUIP. 1024	8
9	Receptacle Room A846, 1035, 1036, 1103	20 A	1		0.7 0.9		1	20 A	Receptacle EVIDENCE STOR 1013	10
11	Receptacle Room 1029, 1020, 1032	20 A	1			1.1 1.1	1	20 A	Receptacle DETECTIVIES 1014	12
13	Receptacle LOBBY 1101	20 A	1	0.5 1.1			1	20 A	Receptacle Room 1022, 1023	14
15	Receptacle Room 1000, 1101, 1001	20 A	1		0.9 0.7		1	20 A	Receptacle Room 1009, 1008, 1007	16
17	Receptacle CLERICAL 1001	20 A	1			0.4 0.7	1	20 A	Receptacle Room 1009, 1010	18
19	Receptacle CLERICAL 1001	20 A	1	0.5 0.9			1	20 A	Receptacle Room 1010, 1011	20
21	Receptacle Room 1006, 1003	20 A	1		0.5 0.5		1	20 A	Receptacle CONFERENCE 1005	22
23	Receptacle Room 1003, 1021	20 A	1			0.4 0.5	1	20 A	Receptacle CONFERENCE 1005	24
25	Receptacle Room A1002, 1021	20 A	1	0.4 0.7			1	20 A	Receptacle Room 1008, 1005	26
27	Receptacle Room 1001, A1002	20 A	1		0.4 0.7		1	20 A	Receptacle Room 1017, 1016, 1012	28
29	Receptacle COPY 1003	20 A	1			0.2 0.7	1	20 A	Receptacle INTERVIEW 1018	30
31	Receptacle LOBBY 1101	20 A	1	0.4 0.9			1	20 A	Receptacle Room 1020, 1019	32
33	Receptacle LOBBY 1101	20 A	1		0 0.2		1	20 A	Receptacle KICHENETIE 1006	34
35	Receptacle LOBBY 1101	20 A	1			0.4 1.1	1	20 A	Receptacle Room 1017, 1016	36
37	SPARE	20 A	1	0 0			1	20 A	SPARE	38
39	SPARE	20 A	1		0 0.5		1	20 A	Receptacle Room 1020, 1018	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
		Total Load:		7.2 kVA	6.8 kVA	7.2 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	21320 VA	73.45%	15660 VA		
				Total Conn. Load:	21320 VA
				Total Est. Demand:	15660 VA
				Total Conn. Current:	59 A
				Total Est. Demand Current:	43 A

Remarks:

Branch Panel: OPLH

Location: MARTRON 1211 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Recessed | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 400 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	FREEZER LIGHTS / DOOR HEATER	20 A	1	0.5 12						2
3	FREEZER EVAP	20 A	1		0.5 12		3	125 A	UTILITY RACEWAY KITCHEN 1209	4
5						1.9 12				6
7	FREEZER COMPRESSOR	20 A	3	1.9 0			1	20 A	SPARE	8
9					1.9 0.5		1	20 A	COOLER LIGHTS	10
11	SPARE	20 A	1			0 0.5	1	20 A	COOLER EVAP	12
13				13.6 0			1	20 A	COOLER COMPRESSOR	14
15	MUA-1	30 A	3		13.6 0.2					16
17						13.6 0.2	3	30 A	DISHWASHER KITCHEN 1209	18
19	DISHWASH HOOD KITCHEN 1209	20 A	1	0.5 0.2						20
21	REFRIDGERATOR KITCHEN 1209	20 A	1		0.2 0.4		1	20 A	Receptacle KITCHEN 1209	22
23						2 0	1	20 A	SPARE	24
25	KITCHEN HOOD EXHAUST	20 A	2	2 0			1	20 A	SPARE	26
27	SPARE	20 A	1		0 0		1	20 A	SPARE	28
29	SPARE	20 A	1			0 0	1	20 A	SPARE	30
31	SPARE	20 A	1				1	20 A	SPARE	32
33	SPARE	20 A	1		0 0		1	20 A	SPARE	34
35	SPARE	20 A	1			0 0	1	20 A	SPARE	36
37	SPARE	20 A	1	0 0			1	20 A	SPARE	38
39	SPARE	20 A	1		0 0		1	20 A	SPARE	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
		Total Load:		30.6 kVA	29.2 kVA	30.1 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	46560 VA	100.00%	46560 VA		
Receptacle	43440 VA	61.51%	26720 VA	**Total Conn. Load:**	90000 VA
				Total Est. Demand:	73280 VA
				Total Conn. Current:	250 A
				Total Est. Demand Current:	203 A

Remarks:

Branch Panel: OPLF

Location: Space A799 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	Receptacle Room 1217, 1216	20 A	1	0.7 0.1			2	20 A	DRYER Receptacle SHAKE DOWN 1206	2
3	Receptacle Room 1111, 1109, 1221, 1216	20 A	1		1.4 0.1					4
5	Receptacle Room A827, 1113, 1112	20 A	1			0.9 0.1	2	20 A	DRYER Receptacle SHAKE DOWN 1206	6
7	Receptacle LOBBY 1101	20 A	1	0.4 0.1						8
9	Receptacle Room 1105, 1101	20 A	1		0.7 0.1					10
11	Receptacle MARTRON 1211	20 A	1			0.7 0.1	2	20 A	DRYER Receptacle SHAKE DOWN 1206	12
13	Receptacle Room 1210, 1232, A886	20 A	1	0.9 0.2			1	20 A	Receptacle SHAKE DOWN 1206	14
15	Receptacle INDOOR RECREATION 1303	20 A	1		0.2 0.2		1	20 A	Receptacle SHAKE DOWN 1206	16
17	Receptacle Room A858, 1307, 1304, 1308, 1304A	20 A	1			1.1 1.9	1	20 A	VAV POWER JAN. 1231	18
19	Receptacle Room 1309, 1308, 1302	20 A	1	0.7 0.5			1	20 A	DDC PANEL JAN 1231	20
21	Receptacle Room 1307, 1306	20 A	1		0.7 0.2		1	20 A	EWC BOOKING OFFICER / CONTROL CC3 1200	22
23	Receptacle Room 1309, 1307	20 A	1			0.5 0	1	20 A	SPARE	24
25	Receptacle Room 1204, 1205	20 A	1	0.9 0			1	20 A	SPARE	26
27	Receptacle Room 1213, 1216, 1215	20 A	1		0.7 0		1	20 A	SPARE	28
29	Receptacle Room 1219, 1218	20 A	1			0.4 0	1	20 A	SPARE	30
31	Receptacle Room 1219, 1200	20 A	1	0.4 0			1	20 A	SPARE	32
33	Receptacle Room 1213, 1209B, 1209A	20 A	1		0.7 0		1	20 A	SPARE	34
35	Receptacle BOOK / PROCESS 1214	20 A	1			0.4 0	1	20 A	SPARE	36
37	Receptacle BOOK / PROCESS 1214	20 A	1	0.4 0			1	20 A	SPARE	38
39	SPARE	20 A	1		0 0		1	20 A	SPARE	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
		Total Load:		5.2 kVA	5.0 kVA	6.1 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	16280 VA	80.71%	13140 VA		
				Total Conn. Load:	16280 VA
				Total Est. Demand:	13140 VA
				Total Conn. Current:	45 A
				Total Est. Demand Current:	36 A

Remarks:

Branch Panel: OPLD

Location: EMERGENCY POWER 1038 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MLO
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	Stair. EH-2	30 A	2	2 0.5				20 A	EF-A5	2
3					2 5.9					4
5	O/H DOOR MECH. EQUIP. 1024	20 A	1			1.9 5.9	3	80 A	AHU-A1	6
7	ROOF Receptacle & AHU-A1 Lts & Recep	20 A	1	0.8 5.9						8
9	FCU-5 MECH. EQUIP. 1024	20 A	1		1.4 2.1					10
11	VAV POWER CLOS. 1006A	20 A	1			0.5 2.1	2	30 A	AC-U-1	12
13	HEAT TRACE	20 A	1	1.9 2.1						14
15	EF-A4	20 A	1		0.5 2.1		2	30 A	AC-U-2	16
17	1015_ HCP-A1	15 A	1			0.7 2.1				18
19	3130_ HCP-A3	15 A	1	0.7 2.1			2	30 A	AC-U-3	20
21	1007_ EH-1	20 A	2		0.4 2.1					22
23						0.4 2.1	2	30 A	AC-U-4	24
25	SPARE	20 A	1	0 1.9				20 A	ELEVATOR CAB LIGHT / HVAC ELEV. EQUIP 1004	26
27	SPARE	20 A	1		0 0.2		1	20 A	Receptacle ELEV. EQUIP 1004	28
29	SPARE	20 A	1			0 0.2	1	20 A	Receptacle ELEVATOR PIT	30
31	SPARE	20 A	1	0 0			1	20 A	SPARE	32
33	SPARE	20 A	1		0 0		1	20 A	SPARE	34
35	SPARE	20 A	1			0 0	1	20 A	SPARE	36
37	SPARE	20 A	1	0 0			1	20 A	SPARE	38
39	SPARE	20 A	1		0 0		1	20 A	SPARE	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
		Total Load:		17.9 kVA	16.7 kVA	15.9 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Mechanical	6720 VA	70.00%	4704 VA		
Motor	42046 VA	100.00%	42046 VA	**Total Conn. Load:**	50466 VA
Receptacle	1700 VA	100.00%	1700 VA	**Total Est. Demand:**	48450 VA
				Total Conn. Current:	140 A
				Total Est. Demand Current:	134 A

Remarks:

PLAN NOTES

#	NOTE
1	ALL ELECTRICAL EQUIPMENT SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT FROM THE UTILITY. SERIES RATED DEVICES ARE NOT ACCEPTABLE. AVAILABLE FAULT CURRENT SHALL BE CONFIRMED WITH UTILITY AND FAULT ANALYSIS COMPLETE AS PER SPECIFICATIONS SECTION 26 05 73 PRIOR TO FINAL EQUIPMENT APPROVAL.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL
MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070

Designed By: SGD

Drawn By: SGD

Checked By: JAF

Date: 11.21. 2025

JUSTIN E. BARTH — REGISTERED — No. 12200401 — STATE OF INDIANA — PROFESSIONAL ENGINEER

Justin Barth

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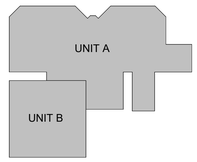

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ELECTRICAL SCHEDULES

E602

12/12/2025 4:00:47 PM

Branch Panel: OPLM

Location: DAYROOM 1402 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	LIGHTING DORM 1409	20 A	1	0.2	0.3		1	20 A	LIGHTING DAYROOM 2108	2
3	LIGHTING Room 1408, 1407	20 A	1		0.3	0.1	1	20 A	LIGHTING CELL 2113	4
5	LIGHTING T/SH 1406	20 A	1			0.2	0.1	1	20 A	LIGHTING CELL 2112	6
7	LIGHTING T/SH 1405	20 A	1	0.2	0.1		1	20 A	LIGHTING CELL 2111	8
9	LIGHTING DORM 1402, 1404	20 A	1		0.3	0.1	1	20 A	LIGHTING CELL 2110	10
11	LIGHTING DORM 1403	20 A	1			0.2	0.1	1	20 A	LIGHTING CELL 2109	12
13	LIGHTING Room 1304A, 1305A, A858	20 A	1	0.1	0.1		1	20 A	LIGHTING CELL 2104	14
15	LIGHTING OFFICE 1308	20 A	1		0.2	0.1	1	20 A	LIGHTING CELL 2103	16
17	LIGHTING CLASS ROOM 1307	20 A	1			0.3	0.1	1	20 A	LIGHTING CELL 2102	18
19	LIGHTING LIBRARY 2000	20 A	1	0.3	0.1		1	20 A	LIGHTING CELL 2101	20
21	LIGHTING FEMALE DAYROOM 1407	20 A	1		0.5	0.1	1	20 A	LIGHTING CELL 2100	22
23	LIGHTING DAYROOM 1402	20 A	1			0.5	0.3	1	20 A	LIGHTING DAYROOM 2105	24
25	LIGHTING INDOOR REC 1303	20 A	1	0.9	0.2		1	20 A	Receptacle DAYROOM 1402	26
27	SPARE	20 A	1		0	0.2	1	20 A	Receptacle FEMALE...	28
29	LIGHTING CORRIDOR 1304 1306 1401	20 A	1			0.2	0.2	1	20 A	Receptacle	30
31	LIGHTING	20 A	1	0.5	0.2		1	20 A	Receptacle	32
33	LIGHTING	20 A	1		0.2	0	1	20 A	SPARE	34
35	SPARE	20 A	1			0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0		1	20 A	SPARE	38
39	SPARE	20 A	1		0	0.3	1	20 A	LIGHTING CONTROL CC2 1400	40
41	SPARE	20 A	1			0	0.1	1	20 A	LITES Room 1402, 1303, 1407	42
		Total Load:		3.0 kVA	2.2 kVA	2.1 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LITES	105 VA	125.00%	131 VA		
LIGHTING	6452 VA	100.00%	6452 VA	**Total Conn. Load:**	7277 VA
Receptacle	720 VA	100.00%	720 VA	**Total Est. Demand:**	7303 VA
				Total Conn. Current:	20 A
				Total Est. Demand Current:	20 A

Remarks:

Branch Panel: OPLK

Location: WORK RELEASE DAYROO... | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 100 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	Receptacle WASH 1426	20 A	1	0.4	0.2		1	20 A	Receptacle DAYROOM 1421	2
3	Receptacle T/SH 1424	20 A	1		0.4	0.2	1	20 A	Receptacle WORK RELEASE DAYROOM 1425	4
5	SPARE	20 A	1			0	0.2	1	20 A	Receptacle	6
7	SPARE	20 A	1	0	0.2		1	20 A	Receptacle	8
9	SPARE	20 A	1		0	0.2	1	20 A	Receptacle MAX. SECURITY DAYROOM 1410	10
11	SPARE	20 A	1			0	0.2	1	20 A	Receptacle DAYROOM 1418	12
13	SPARE	20 A	1	0	0.2		1	20 A	Receptacle	14
15	SPARE	20 A	1		0	0.2	1	20 A	Receptacle	16
17	SPARE	20 A	1			0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0		1	20 A	SPARE	20
21	SPARE	20 A	1		0	0	1	20 A	SPARE	22
23	SPARE	20 A	1			0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0		1	20 A	SPARE	26
27	SPARE	20 A	1		0	0	1	20 A	SPARE	28
29	SPARE	20 A	1			0	0	1	20 A	SPARE	30
		Total Load:		0.9 kVA	0.9 kVA	0.4 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	2160 VA	100.00%	2160 VA		
				Total Conn. Load:	2160 VA
				Total Est. Demand:	2160 VA
				Total Conn. Current:	6 A
				Total Est. Demand Current:	6 A

Remarks:

Branch Panel: OPLI

Location: MARTRON 1211 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Recessed | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	FIRE SUPPRESSION SYSTEM KITCHEN 1209	20 A	1	0.5	0.1		2	30 A	TOASTER KITCHEN 1209	2
3	HOT FOOD COUNTER KITCHEN 1209	30 A	2		0.3	0.1				4
5						0.3	0.2	1	20 A	Receptacle KITCHEN 1209	6
7	SLICER KITCHEN 1209	20 A	1	0.5	0.5		1	20 A	ICE MAKER KITCHEN 1209	8
9	SLICER KITCHEN 1209	20 A	1		0.5	0.5	1	20 A	Receptacle KITCHEN 1209	10
11	MIXER KITCHEN 1209	20 A	1			0.5				12
13				0.2						14
15	DISPOSAL KITCHEN 1209	20 A	3		0.2					16
17						0.2	0.2	1	20 A	DETERGENT INJECTOR KITCHEN 1209	18
19				0.2	0.5		1	20 A	TEA KITCHEN 1209	20
21	BOOSTER HEATER KITCHEN 1209	60 A	3		0.2	0.3	2	40 A	COFFEE BREWER KITCHEN 1209	22
23						0.2	0.3				24
25	COFFEE KITCHEN 1209	20 A	1	0.5	0.5		1	20 A	Receptacle KITCHEN 1209	26
27	Receptacle KITCHEN 1209	20 A	1		0.5	0	1	20 A	SPARE	28
29	Receptacle KITCHEN 1209	20 A	1			0.5	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0		1	20 A	SPARE	32
33	SPARE	20 A	1		0	0	1	20 A	SPARE	34
35	SPARE	20 A	1			0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0		1	20 A	SPARE	38
39	SPARE	20 A	1		0	0	1	20 A	SPARE	40
41	SPARE	20 A	1			0	0	1	20 A	SPARE	42
		Total Load:		3.5 kVA	2.5 kVA	2.2 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	8200 VA	100.00%	8200 VA		
				Total Conn. Load:	8200 VA
				Total Est. Demand:	8200 VA
				Total Conn. Current:	23 A
				Total Est. Demand Current:	23 A

Remarks:

Branch Panel: OPLN

Location: DAYROOM 1402 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	PEF-4	20 A	1	0.8	0.4		1	20 A	Receptacle	2
3	EF-B1	20 A	1		0.8	0.7	1	20 A	Receptacle	4
5						0.8	4.9				6
7	PEF-1	20 A	3	0.8	4.9		3	60 A	RTU-B4	8
9					0.8	4.9					10
11						4.9	10.8				12
13	RTU-B6	60 A	3	4.9	10.8		3	110 A	RTU-B3	14
15					4.9	10.8					16
17	ROOF Receptacle	20 A	1			0.5	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0		1	20 A	SPARE	20
21	SPARE	20 A	1		0	0	1	20 A	SPARE	22
23	SPARE	20 A	1			0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0		1	20 A	SPARE	26
27	SPARE	20 A	1		0	0	1	20 A	SPARE	28
29	SPARE	20 A	1			0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0		1	20 A	SPARE	32
33	SPARE	20 A	1		0	0	1	20 A	SPARE	34
35	SPARE	20 A	1			0	0	1	20 A	SPARE	36
37	SPARE	20 A	1	0	0		1	20 A	SPARE	38
39	SPARE	20 A	1		0	0	1	20 A	SPARE	40
41	SPARE	20 A	1			0	0	1	20 A	SPARE	42
		Total Load:		22.4 kVA	22.8 kVA	21.8 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	65376 VA	100.00%	65376 VA		
Receptacle	1620 VA	100.00%	1620 VA	**Total Conn. Load:**	66996 VA
				Total Est. Demand:	66996 VA
				Total Conn. Current:	186 A
				Total Est. Demand Current:	186 A

Remarks:

Branch Panel: OPLL

Location: WORK RELEASE DAYROO... | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 400 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	LIGHTING INTERSITIAL SPACE	20 A	1	0.3	0.4		1	20 A	Receptacle INTERSTITIAL SPACE	2
3	LIGHTING INTERSITIAL SPACE	20 A	1		0.4	0.7	1	20 A	Receptacle INTERSTITIAL SPACE	4
5	LIGHTING INTERSITIAL SPACE	20 A	1			0.3	0.5	1	20 A	ROOF Receptacle	6
7	EF-B2	20 A	1	1.2	0		1	20 A	SPARE	8
9					0.8	0	1	20 A	SPARE	10
11	PEF-2	20 A	3			0.8	0	1	20 A	SPARE	12
13				0.8	0		1	20 A	SPARE	14
15					10.8	0	1	20 A	SPARE	16
17	RTU-B1	110 A	3			10.8	0	1	20 A	SPARE	18
19				10.8	0		1	20 A	SPARE	20
21					10.8	0	1	20 A	SPARE	22
23	RTU-B2	110 A	3			10.8	0	1	20 A	SPARE	24
25				10.8	0		1	20 A	SPARE	26
27					4.9	0	1	20 A	SPARE	28
29	RTU-B5	60 A	3			4.9	0	1	20 A	SPARE	30
31				4.9	0		1	20 A	SPARE	32
33					0.8	0	1	20 A	SPARE	34
35	PEF-3	20 A	3			0.8	0	1	20 A	SPARE	36
37				0.8	0		1	20 A	SPARE	38
39	EF-B3	20 A	1		0.8	0	1	20 A	SPARE	40
41	Receptacle	20 A	1			0.5	0	1	20 A	SPARE	42
		Total Load:		29.8 kVA	29.8 kVA	29.3 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	984 VA	100.00%	984 VA		
Motor	85836 VA	100.00%	85836 VA	**Total Conn. Load:**	88940 VA
Receptacle	2120 VA	100.00%	2120 VA	**Total Est. Demand:**	88940 VA
				Total Conn. Current:	247 A
				Total Est. Demand Current:	247 A

Remarks:

Branch Panel: OPLJ

Location: WORK RELEASE DAYROO... | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	LIGHTING DORM 1428	20 A	1	0.2	0.8		1	20 A	LIGHTING T/SH 2136	2
3	LIGHTING Room 1427, 1425	20 A	1		0.3	0.3	1	20 A	LIGHTING DAYROOM 2131	4
5	LIGHTING WASH 1426	20 A	1			0.2	0.1	1	20 A	LIGHTING T/SH-2 1424-2	6
7	LIGHTING T/SH-1 1424-1	20 A	1	0.2	0.1		1	20 A	LIGHTING CELL 2132	8
9	LIGHTING DORM 1421	20 A	1		0.3	0.1	1	20 A	LIGHTING CELL 2130	10
11	LIGHTING Space A895	20 A	1			0.2	0.1	1	20 A	LIGHTING CELL 2129	12
13	LIGHTING Space A897	20 A	1	0.2	0.1		1	20 A	LIGHTING CELL 2128	14
15	LIGHTING Room A896, 1418	20 A	1		0.3	0.1	1	20 A	LIGHTING DORM 1420	16
17	LIGHTING T/SH 1417	20 A	1			0.2	0.1	1	20 A	LIGHTING CELL 2126	18
19	LIGHTING Room 1416, A902, 1410	20 A	1	0.3	0.1		1	20 A	LIGHTING CELL 2125	20
21	LIGHTING HC CELL 1415	20 A	1			0.1	0.1	1	20 A	LIGHTING CELL 2124	22
23	LIGHTING HC CELL 1414	20 A	1			0.1	0.1	1	20 A	LIGHTING CELL 2123	24
25	LIGHTING CELL 1413	20 A	1	0.1	0.3		1	20 A	LIGHTING DAYROOM 2121	26
27	LIGHTING CELL 1412	20 A	1		0.1	0.3	1	20 A	LIGHTING DAYROOM 2120	28
29	LIGHTING CELL 1411	20 A	1			0.1	0.1	1	20 A	LIGHTING CELLL 2118	30
31	LIGHTING WORK RELEASE DAYROOM 1425	20 A	1	0.5	0.1		1	20 A	LIGHTING CELL 2117	32
33	LIGHTING DAYROOM 1421	20 A	1		0.5	0.1	1	20 A	LIGHTING CELL 2116	34
35	LIGHTING DAYROOM 1418	20 A	1			0.5	0.1	1	20 A	LIGHTING CELL 2115	36
37	LIGHTING DAYROOM 1410	20 A	1	0.5	0.1		1	20 A	LIGHTING CELL 2114	38
39	SPARE	20 A	1		0	0	1	20 A	SPARE	40
41	SPARE	20 A	1			0	0.1	1	20 A	LITES Room 1418, 1410, 1425, 1421	42
		Total Load:		3.1 kVA	2.3 kVA	1.5 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LITES	84 VA	125.00%	105 VA		
LIGHTING	6800 VA	100.00%	6800 VA	**Total Conn. Load:**	6884 VA
				Total Est. Demand:	6905 VA
				Total Conn. Current:	19 A
				Total Est. Demand Current:	19 A

Remarks:

PLAN NOTES

#	NOTE
1	ALL ELECTRICAL EQUIPMENT SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT FROM THE UTILITY. SERIES RATED DEVICES ARE NOT ACCEPTABLE. AVAILABLE FAULT CURRENT SHALL BE CONFIRMED WITH UTILITY AND FAULT ANALYSIS COMPLETE AS PER SPECIFICATIONS SECTION 26 05 73 PRIOR TO FINAL EQUIPMENT APPROVAL.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL
MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070

Designed By: SGD

Drawn By: SGD

Checked By: JAF

Date: 11.21. 2025

DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF
INDIANA
PROFESSIONAL ENGINEER

Dustin Barth

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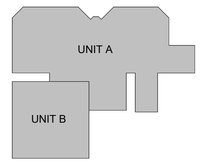

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ELECTRICAL SCHEDULES

E603

Branch Panel: EMA

Location: EMERGENCY POWER 1038 | **Voltage:** 208Y/120 | **Branch:** EM
Supplied From: EMDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MLO
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 100 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	EXIT LIGHT Room 1024, 1036, 1026, A1002, 1006,...	20 A	1	0.1 0			1	20 A	LIGHTING ELEVATOR EQUIP. 1107	2
3	EXIT LIGHT Room 1101, 1100	20 A	1		0 0.1		1	20 A	LIGHTING ELEVATOR #2 PIT	4
5	LIGHTING Room 1006, 1012, 1015, A1002, 1020,...	20 A	1			0.5 0.5	1	20 A	FIRE ALARM CONTROL PANEL EMERGENCY POWE...	6
7	LIGHTING ELEV. EQUIP 1004	20 A	1	0 0.5			1	20 A	FIRE SUPPRESSION SYSTEM EVIDENCE STOR 1013	8
9	LIGHTING Space A828	20 A	1		0.1 0.5		1	20 A	FIRE SUPPRESSION SYSTEM OFFICE STOR 1016	10
11	LIGHTING COMMUNICATIONS CONTROL CC1 1102	20 A	1			0.5 0.5	1	20 A	Receptacle ELEC. 1034	12
13	LIGHTING COMMUNICATIONS CONTROL CC1 1102	20 A	1	0.5 0			1	20 A	SPARE	14
15	LIGHTING Room 1104, 1302, 1301, A846	20 A	1		0.3 0		1	20 A	SPARE	16
17	LIGHTING Room 1037, 1038	20 A	1			0.2 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 0		1	20 A	SPARE	22
23	SPARE	20 A	1			0 0	1	20 A	SPARE	24
		Total Load:		1.2 kVA	1.0 kVA	2.3 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	2454 VA	100.00%	2454 VA		
Receptacle	2000 VA	100.00%	2000 VA	**Total Conn. Load:**	4454 VA
				Total Est. Demand:	4454 VA
				Total Conn. Current:	12 A
				Total Est. Demand Current:	12 A

Remarks:

Branch Panel: OPLR

Location: JAN. 3039 | **Voltage:** None | **Branch:**
Supplied From: OPDP | **Phase:** Not Computed | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** Not Computed | **Main Type:**
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	SPARE	20 A	1	0 0			1	20 A	SPARE	2
3	SPARE	20 A	1		0 0		1	20 A	SPARE	4
5	SPARE	20 A	1			0 0	1	20 A	SPARE	6
7	SPARE	20 A	1	0 0			1	20 A	SPARE	8
9	SPARE	20 A	1		0 0		1	20 A	SPARE	10
11	SPARE	20 A	1			0 0	1	20 A	SPARE	12
13	SPARE	20 A	1	0 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 0		1	20 A	SPARE	22
23	SPARE	20 A	1			0 0	1	20 A	SPARE	24
25	SPARE	20 A	1	0 0			1	20 A	SPARE	26
27	SPARE	20 A	1		0 0		1	20 A	SPARE	28
29	SPARE	20 A	1			0 0	1	20 A	SPARE	30
31	SPARE	20 A	1	0 0			1	20 A	SPARE	32
33	SPARE	20 A	1		0 0		1	20 A	SPARE	34
35	SPARE	20 A	1			0 0	1	20 A	SPARE	36
37	SPARE	20 A	1	0 0			1	20 A	SPARE	38
39	SPARE	20 A	1		0 0		1	20 A	SPARE	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
		Total Load:		0.0 kVA	0.0 kVA	0.0 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	Not Computed
				Total Est. Demand Current:	Not Computed

Remarks:

2

Branch Panel: OPLO

Location: JAN. 3039 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	LIGHTING LOBBY/WAITING 3000	20 A	1	0.6 0			1	20 A	SPARE	2
3	LIGHTING LOBBY/WAITING 3000	20 A	1		0.7 0		1	20 A	SPARE	4
5	LIGHTING LOBBY/WAITING 3000	20 A	1			0 0.1	1	20 A	LIGHTING JAN. 3039	6
7	LIGHTING Room 3019, 3022, 3023, 3021, 3020	20 A	1	0.4 0			1	20 A	SPARE	8
9	LIGHTING Room 3017, 2144	20 A	1		0.5 0.7		1	20 A	LIGHTING CONF. 3044	10
11	LIGHTING Room 3017, 3007	20 A	1			0.4 0.6	1	20 A	LIGHTING OFFICE 3050	12
13	LIGHTING Room 3014, 3012	20 A	1	0.5 0.2			1	20 A	LIGHTING Room 3043, 3045	14
15	LIGHTING Room 3011, 3006	20 A	1		0.5 0.3		1	20 A	LIGHTING Room 3038, 3040, 3041	16
17	LIGHTING Room 3010, 3005, 3009, 3008	20 A	1			0.4 0.6	1	20 A	LIGHTING OFFICE 3052	18
19	LIGHTING SEATING 3024	20 A	1	0.7 0.5			1	20 A	LIGHTING Room 3036, 3035, 3053, 3037	20
21	LIGHTING LITIGATION 3026	20 A	1		0.7 0.6		1	20 A	LIGHTING Room 3032, 3033, 3034	22
23	LIGHTING Room 3026, 3028, 3027, 3029	20 A	1			0.6 0.2	1	20 A	LIGHTING Room 3030	24
25	LIGHTING Room 3003, 3001	20 A	1	0.3 0.3			1	20 A	LIGHTING Room 3046, 3051, 3042	26
27	SPARE	20 A	1		0 0		1	20 A	SPARE	28
29	SPARE	20 A	1			0 0	1	20 A	SPARE	30
31	SPARE	20 A	1	0 0			1	20 A	SPARE	32
33	SPARE	20 A	1		0 0		1	20 A	SPARE	34
35	SPARE	20 A	1			0 0				36
37	SPARE	20 A	1	0 0			3	20 A	SPARE	38
39	SPARE	20 A	1		0 0					40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
		Total Load:		3.5 kVA	3.9 kVA	2.8 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	10129 VA	100.00%	10129 VA		
				Total Conn. Load:	10129 VA
				Total Est. Demand:	10129 VA
				Total Conn. Current:	28 A
				Total Est. Demand Current:	28 A

Remarks:

Branch Panel: EMB

Location: PROPERTY STOR 1213 | **Voltage:** 208Y/120 | **BranEMch:** EM
Supplied From: EMDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MLO
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 100 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	LIGHTING Room 1200, 1220, 1209, A886, 1105, 1216	20 A	1	0 0			1	20 A	SPARE	2
3	LIGHTING Room 1220, A886, 1200, 1221, 1207	20 A	1		0.5 0		1	20 A	SPARE	4
5	LIGHTING Room 1209, 1216	20 A	1			0.3 0	1	20 A	SPARE	6
7	SPARE	20 A	1	0 0			1	20 A	SPARE	8
9	SPARE	20 A	1		0 0		1	20 A	SPARE	10
11	SPARE	20 A	1			0 0	1	20 A	SPARE	12
13	SPARE	20 A	1	0 0			1	20 A	SPARE	14
15	SPARE	20 A	1		0 0		1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPARE	20 A	1	0 0			1	20 A	SPARE	20
21	SPARE	20 A	1		0 0		1	20 A	SPARE	22
23	SPARE	20 A	1			0 0	1	20 A	SPARE	24
		Total Load:		0.0 kVA	0.5 kVA	0.3 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	782 VA	100.00%	782 VA		
				Total Conn. Load:	782 VA
				Total Est. Demand:	782 VA
				Total Conn. Current:	2 A
				Total Est. Demand Current:	2 A

Remarks:

Branch Panel: OPLT

Location: JAN. 3039 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	Receptacle RECEP. 3031	20 A	1	0.5 0.5			1	20 A	Receptacle STOR. 3045	2
3	Receptacle OFFICE 3032	20 A	1		0.7 0.5		1	20 A	Receptacle COURT SERVICES 3047	4
5	Receptacle OFFICE 3034	20 A	1			0.9 0.4	1	20 A	Receptacle COURT SERVICES 3047	6
7	Receptacle OFFICE 3037	20 A	1	0.5 0.5			1	20 A	Receptacle PROB. OFFICE 3048	8
9	Receptacle SERVER 3036	20 A	1		0.2 0.2		1	20 A	Receptacle Space 2166	10
11	Receptacle OFFICE 3040	20 A	1			0.7 0.4	1	20 A	Receptacle INTERVIEW 3049	12
13	Receptacle CORRIDOR 3042	20 A	1	0.4 1.1			1	20 A	Receptacle Room 3046, 3051, 3042	14
15	SPARE	20 A	1		0 0.4		1	20 A	Receptacle OFFICE 3052	16
17	SPARE	20 A	1			0 0.2	1	20 A	Receptacle OFFICE 3052	18
19	SPARE	20 A	1	0 0.4			1	20 A	Receptacle OFFICE 3052	20
21	SPARE	20 A	1		0 0.2		1	20 A	Receptacle OFFICE 3052	22
23	SPARE	20 A	1			0 0.4	1	20 A	Receptacle OFFICE 3052	24
25	SPARE	20 A	1	0 0.4			1	20 A	Receptacle OFFICE 3052	26
27	SPARE	20 A	1		0 0.2		1	20 A	Receptacle OFFICE 3052	28
29	SPARE	20 A	1			0 0.2	1	20 A	Receptacle OFFICE 3052	30
31	SPARE	20 A	1	0 0.2			1	20 A	Receptacle OFFICE 3052	32
33	SPARE	20 A	1		0 0.4		1	20 A	Receptacle OFFICE 3052	34
35	SPARE	20 A	1			0 0.4	1	20 A	Receptacle Room 3041, 3043	36
37	SPARE	20 A	1	0 0			1	20 A	SPARE	38
39	SPARE	20 A	1		0 0		1	20 A	SPARE	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
		Total Load:		4.5 kVA	2.7 kVA	3.4 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	10620 VA	97.08%	10310 VA		
				Total Conn. Load:	10620 VA
				Total Est. Demand:	10310 VA
				Total Conn. Current:	29 A
				Total Est. Demand Current:	29 A

Remarks:

Branch Panel: OPLP

Location: JAN. 3039 | **Voltage:** 208Y/120 | **Branch:** OP
Supplied From: OPDP | **Phase:** 3 | **A.I.C. Rating:** 1
Mounting: Surface | **Wire:** 4 | **Main Type:** MCB
Enclosure Type: Type 1 | **Ground:** Equipment Ground Bus | **Main Rating:** 225 A

General Panel Comments:

Circuit Number	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Circuit Number
1	Receptacle Room 3010, 3007, 3005	20 A	1	1.1 0.4			1	20 A	Receptacle Room 3039, 3031	2
3	Receptacle Room 3010, 3009, 3008	20 A	1		0.7 0.9		1	20 A	Receptacle Room 3048, 3003	4
5	Receptacle JURY 3006	20 A	1			0.4 0.9	1	20 A	Receptacle Room 3001, 3003, 2163	6
7	Receptacle JURY 3006	20 A	1	0.5 0.5			1	20 A	Receptacle Room 3044, 3000	8
9	Receptacle Room 3007, 3012, 3011	20 A	1		0.7 1.4		1	20 A	Receptacle Room 3004, 3007, 3027, 3026, 3024, 3001,...	10
11	Receptacle Room 3014, 3012	20 A	1			0.7 0.8	1	20 A	Receptacle LITIGATION 3026	12
13	Receptacle Room 3017, 3014	20 A	1	0.9 0.4			1	20 A	Receptacle LOBBY/WAITING 3000	14
15	Receptacle CLERICAL COURT COORD. 3016	20 A	1		0.4 0.4		1	20 A	Receptacle LOBBY/WAITING 3000	16
17	Receptacle Room 3016, 3017	20 A	1			0.7 0.4	1	20 A	Receptacle JUDGE 3028	18
19	Receptacle Room 3017, 2144, 3000	20 A	1	1.6 0.4			1	20 A	Receptacle RECORDER 3029	20
21	Receptacle Room 3023, 3019, 3017, 2144	20 A	1		0.9 0.9		1	20 A	Receptacle Room 3024, 3026, 3007	22
23	Receptacle Room 3022, 3019	20 A	1			0.5 0.7	1	20 A	Receptacle OFFICE #3000C	24
25	Receptacle Room 3023, 3022	20 A	1	0.7 0.7			1	20 A	Receptacle OFFICE 3000D	26
27	Receptacle Room 3021, 3020	20 A	1		0.4 0.9		1	20 A	Receptacle OFFICE 3000A	28
29	Receptacle CLERICAL 3017	20 A	1			0.4 0.7	1	20 A	Receptacle OFFICE 3000B	30
31	Receptacle CLERICAL 3017	20 A	1	0.4 0.7			1	20 A	Receptacle OFFICE 3033	32
33	Receptacle CONF. 3044	20 A	1		1.3 0		1	20 A	SPARE	34
35	SPARE	20 A	1			0 0.4	1	20 A	Receptacle Room 3030, 3031	36
37	SPARE	20 A	1	0 0			1	20 A	SPARE	38
39	Receptacle OFFICE 3038	20 A	1		0.7 0.7		1	20 A	Receptacle OFFICE 3035	40
41	SPARE	20 A	1			0 0	1	20 A	SPARE	42
		Total Load:		8.3 kVA	10.3 kVA	6.6 kVA				

Load Summary:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	25220 VA	69.83%	17610 VA		
				Total Conn. Load:	25220 VA
				Total Est. Demand:	17610 VA
				Total Conn. Current:	70 A
				Total Est. Demand Current:	49 A

Remarks:

PLAN NOTES

#	NOTE
1	ALL ELECTRICAL EQUIPMENT SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT FROM THE UTILITY. SERIES RATED DEVICES ARE NOT ACCEPTABLE. AVAILABLE FAULT CURRENT SHALL BE CONFIRMED WITH UTILITY AND FAULT ANALYSIS COMPLETE AS PER SPECIFICATIONS SECTION 26 05 73 PRIOR TO FINAL EQUIPMENT APPROVAL.

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25
1	ADDENDUM 1	12/05/25

Project #: 01-700-070

Designed By: SGD

Drawn By: SGD

Checked By: JAF

Date: 11.21. 2025

DUSTIN E. BARTH REGISTERED No. 12200401 STATE OF INDIANA PROFESSIONAL ENGINEER

Dustin Barth

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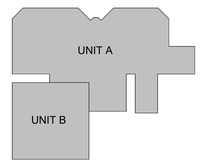

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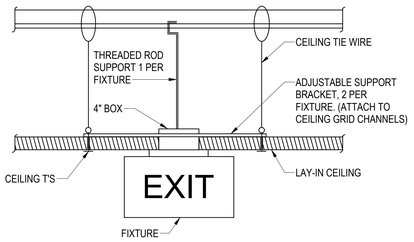
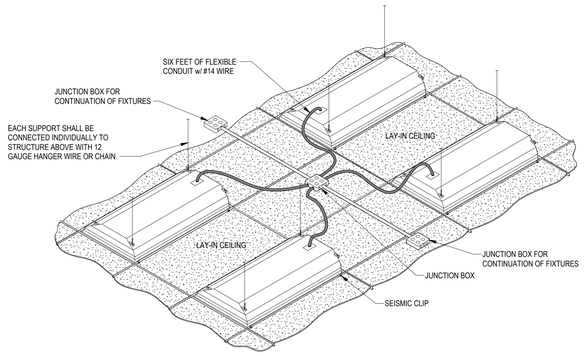
ELECTRICAL SCHEDULES

E604

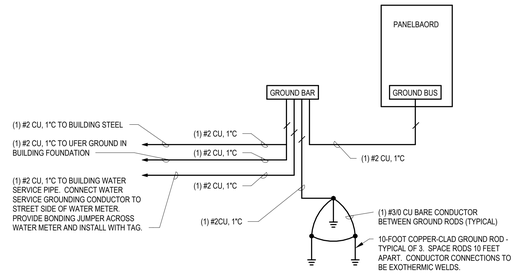


1 EXIT FIXTURE MOUNTING DETAIL
NO SCALE



NOTE:
"DAISY CHAIN" WIRING INSTALLATION IS NOT PERMITTED.

2 LAY-IN FIXTURE WIRING DETAIL
NO SCALE



3 ELECTRICAL GROUNDING DETAIL
NO SCALE

2

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
2	ADDENDUM 2	12/12/25

Project #: 01-700-070
Designed By: SGD
Drawn By: SGD
Checked By: JAF
Date: 11.21. 2025

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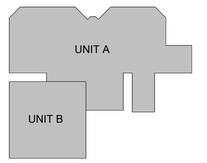

N

ELECTRICAL DETAILS

E800

ADDENDUM #2
MOVE CAMERA TO THE LEFT
TO CLEAR THE NEW ADDITION

IM INTERCOM MASTER STATION

TSC TOUCHSCREEN CONTROL STATION

CORNER-MOUNT, NO-GRIP CAMERA (4MP)

NVC NETWORK VIDEO CLIENT COMPUTER

RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS
HARRISON COUNTY JAIL
MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A2	ADDENDUM 2	12/12/2025

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UNIT A

UNIT B

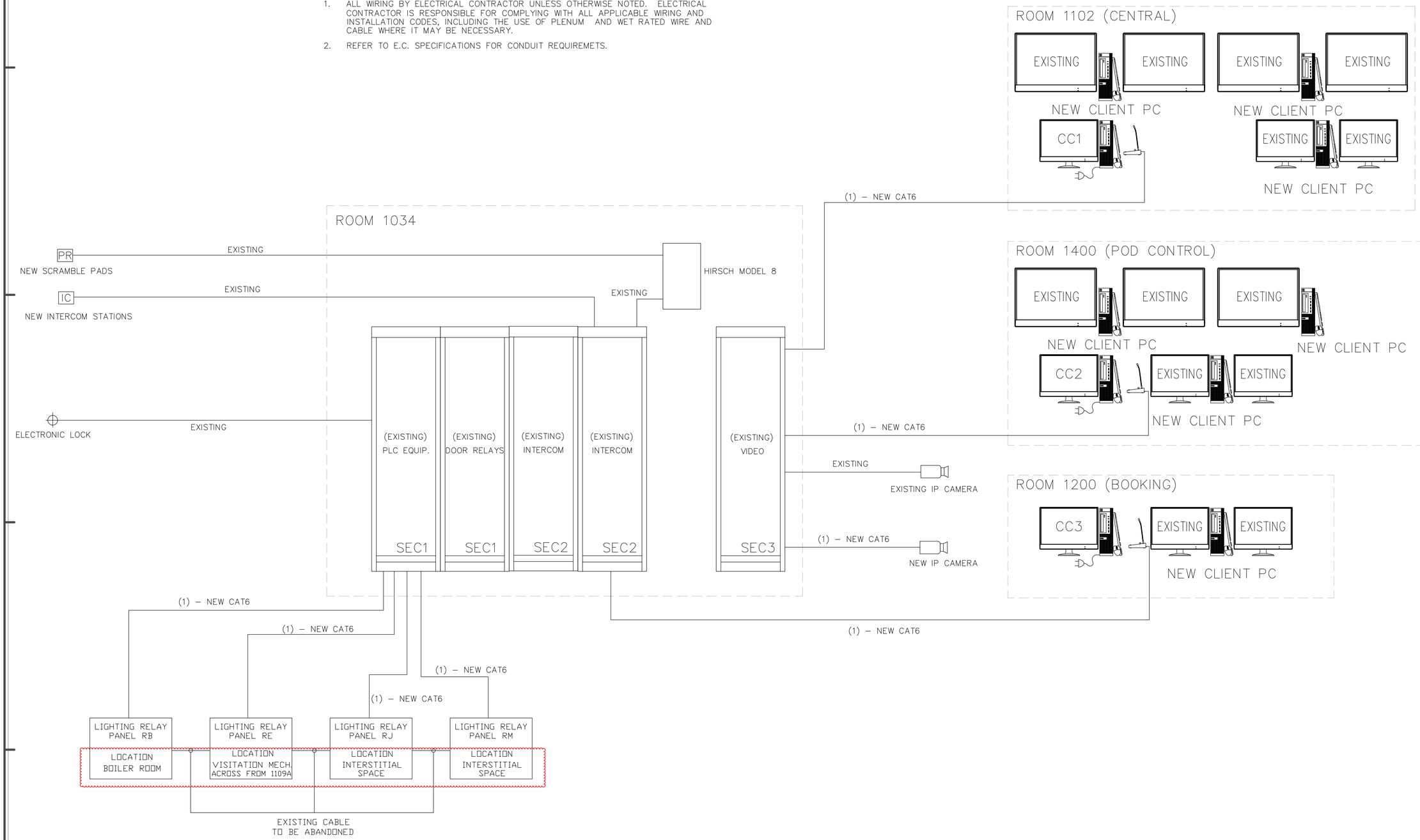
N

OVERALL FIRST FLOOR PLAN

SE101

GENERAL NOTES:

1. ALL WIRING BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE WIRING AND INSTALLATION CODES, INCLUDING THE USE OF PLENUM AND WET RATED WIRE AND CABLE WHERE IT MAY BE NECESSARY.
2. REFER TO E.C. SPECIFICATIONS FOR CONDUIT REQUIREMETS.



RQAW

DCCM

BID SET

HARRISON COUNTY BOARD OF COMMISSIONERS

HARRISON COUNTY JAIL MEP RENOVATION

1445 Gardner LN NW, Corydon, IN 47112

#	Revision	Date
A2	ADDENDUM 2	12/12/2025

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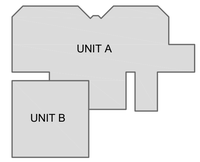

RISER

SE300