

Addendum Number: 1.0

Addendum Issue Date: February 10, 2025

Owner:

State of Iowa Department of Corrections – Clarinda Correctional Facility

DWG Date: February 6, 2025

Project Name:

Clarinda Correctional Facility – Kitchen & Laundry

RFB Number:

922300-04

Containing: 3 Pages; 141 Drawings; 4 Specifications

*This addendum amends the drawings and specifications of the above reference project and is hereby incorporated into the contract documents as part thereof. Bidders must acknowledge receipt of this Addendum in the space provided on the Bid Form. **FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.***

General:

1. The following discipline drawing sets have been included as reference documents: General, Life Safety, Civil, Structural, Architectural, Foodservice Equipment, Fire Protection, Plumbing and Mechanical. The reference drawings are the most up-to-date documentation from the project including changes during the on-going construction. Bid Package 09 shall coordinate all work with these drawings.
2. Bid Package is for video surveillance cameras only. Clarifications to the bid package verbiage have been made.
3. All work of Bid Package 09 shall be coordinated with the other bid packages, all drawings, and all specifications

Drawings:

All Technology and Electrical drawing sheets have been reissued to capture the proper date and bidding number. The drawing sheets are derived from the latest documents from on-going construction. Changes to Video Surveillance specific items have been clouded and are noted below.

Technology:

Item No. 1. T0.00 – TECHNOLOGY COVERSHEET

Reference view – TECHNOLOGY SYMBOLS LIST

1. **REVISE:** TECHNOLGY SYMBOL NOTE 3.

Item No. 2. T1.1 – LEVEL 01 PLAN – AREA A – TECHNOLOGY

Reference view 3 – ELEVATION – TELECOM ROOM TR-1

1. **REVISE:** note pointing to VS-SW-1 and VS-NRV-1.

Item No. 3. T5.1 – TECHNOLOGY DIAGRAMS

Reference view 3 – FIBER AND COPPER RISER DIAGRAM

1. **ADD:** note pointing to SC-MPP-1.

Item No. 4. T6.1 – TECHNOLOGY SCHEDULES

Reference view –TECHNOLOGY EQUIPMENT SCHEDULE

1. **REVISE:** VS-CM-1, VS-CM-2, VS-VM-3, VS-NVR-1 and VS-SWI-1 equipment descriptions.

Specifications:

Sections 28 0500 and 28 2300 have been reissued in their entirety to capture the proper date and bidding number. The sections are derived from the latest documents from on-going construction. Changes to Video Surveillance specific items have been noted below.

- Item No. 5. Section 00 3113 – Preliminary Schedule
Reference – 1.03 SCHEDULE DURATIONS
1. **REVISE** Item C. to read Substantial Completion by 08/22/25
- Item No. 6. Section 00 3113 – PRELIMINARY SCHEDULE EXAMPLE
1. **REVISE** - See attached revised building schedule with a data date of 01/31/2025
- Item No. 7. Section 01 1200 – CONTRACT SUMMARY
Reference – I. Bid Package #09 – Video Surveillance
1. **REVISE** - Provide all labor, material and equipment for the Clarinda Kitchen and Laundry Addition project to provide and install complete video surveillance equipment based on all contract drawings and specifications. BP-07 contractor is providing cabling and pathways as indicated in contract drawings and specifications.
2. **ADD** - Materials such as cabling / conduit / back boxes already provided under BP-07.
- Item No. 8. Section 28 0500 – BASIC ELECTRONIC SAFETY AND SECURITY SYSTEM REQUIREMENTS
Reference – 1.03 OWNER FURNISHED PRODUCTS
1. **DELETE:** Item B.
- Item No. 9. Section 28 2300 – VIDEO SURVEILLANCE
Reference – 1.06 System Description
1. **ADD:** Item B to read “All of the project’s structured cabling is being provided and installed by BP-07 contractor and is not part of this scope of work.”
2. **ADD:** Item C to read “The system shall integrate into the Owner’s existing video surveillance system for monitoring and maintenance.”
Reference – 2.05 NVMS RECORDING REQUIREMENTS
1. **REVISE:** Item B to read “Project drawings show NVR for coordination purposes and is for reference only. The listed information below shall be used for final sizing of storage.”
2. **REVISE:** Item B, paragraph 2 to read “Cameras shall be assumed to be recording at 24 fps, 24 hours per day, 7 days per week, 365 days per year.”
Reference – 2.06 NVMS CABLING
1. **REVISE:** Item A to read “Refer to BP-07 Division 27 specifications section for cabling being provided by BP-07 contractor.”

Product Approvals:

The following manufacturers are approved as substitute products of the named Base Bid manufacturer(s). Approval is contingent upon manufacturers fulfilling all specification requirements, tangible and intangible, equally as well as specified product.

References/Item

28 2300/Video Surveillance (2.02)

28 2300/Video Surveillance (2.02)

Manufacturer/Supplier

Hanwha/System Technology Services Inc.

AXIS-Genetec/Electronic Engineering

Bids are Due: February 13, 2025 / 2:00 PM local time to [IMPACS Electronic Procurement System](#).

END OF ADDENDUM

Issued By:

FARNSWORTH GROUP, INC.
Kelsey Vetter, AIA
Sr. Project Architect

Attachments:

Drawings: E0.0, E0.1, E0.2, E1.1, E1.2, E1.3, E1.4, E1.5, E1.6, E1.7, E1.8, E1.9, E1.10, E1.11, E2.1, E2.2, E4.1, E4.2, E5.1, E6.1, E6.2, E6.3, E7.1, E7.2, ED1.1, T0.0, T1.1, T1.2, T1.3, T4.1, T5.1, T6.1

Specifications: 00 3113, 01 1200, 28 0500, 28 2300

Other: Approved Substitution Request Forms – 28 2300; Reference Construction Drawing set IFC 4-8-24 (General, Life Safety, Civil, Structural, Foodservice Equipment, Fire Protection, Plumbing and Mechanical)

SECTION 00 3113

PRELIMINARY SCHEDULE

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Preliminary Construction Schedule
- B. Schedule Durations

1.02 PRELIMINARY SCHEDULE

- A. A preliminary schedule has been identified by the Owner for the implementation of the Project. Refer to the schedule following this Section for references to anticipated milestones and construction duration.
- B. Each step of the Preliminary Schedule is subject to receipt of acceptable bids, Owner's decision process and date of commencement.
- C. A proposed construction schedule shall be submitted by all Trade Contractors to the Construction Manager no later than 48 hours prior to the pre-construction meeting. A revised Construction Schedule will be submitted by the Construction Manager once all preliminary schedules are reviewed and approved by the Owner.
- D. The final construction schedule will be established post award of bids with the cooperation of all contractors.

1.03 SCHEDULE DURATIONS

- A. Anticipated Notice of Intent to Award – 02/17/25
- B. Anticipated Date of Commencement – 04/09/25
- C. Substantial Completion by – 08/22/25

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

Revised Addendum
#1

END OF SECTION

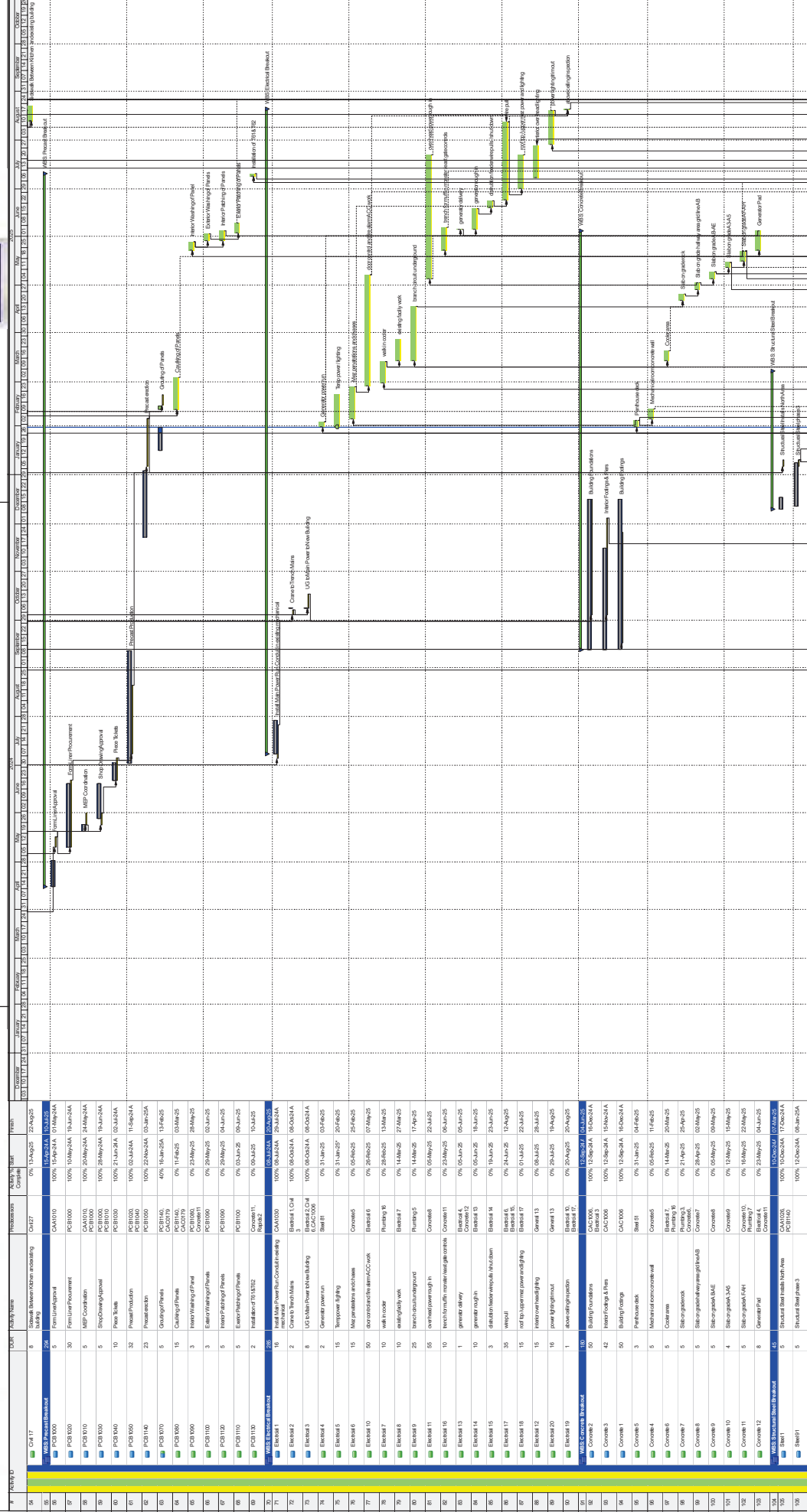
7679-9223.00 DOC CCF Kitchen/Laundry



Primary Baseline
 Actual Work
 Remaining Work
 Critical Remaining Work
 Start Constraint
 Finish Constraint

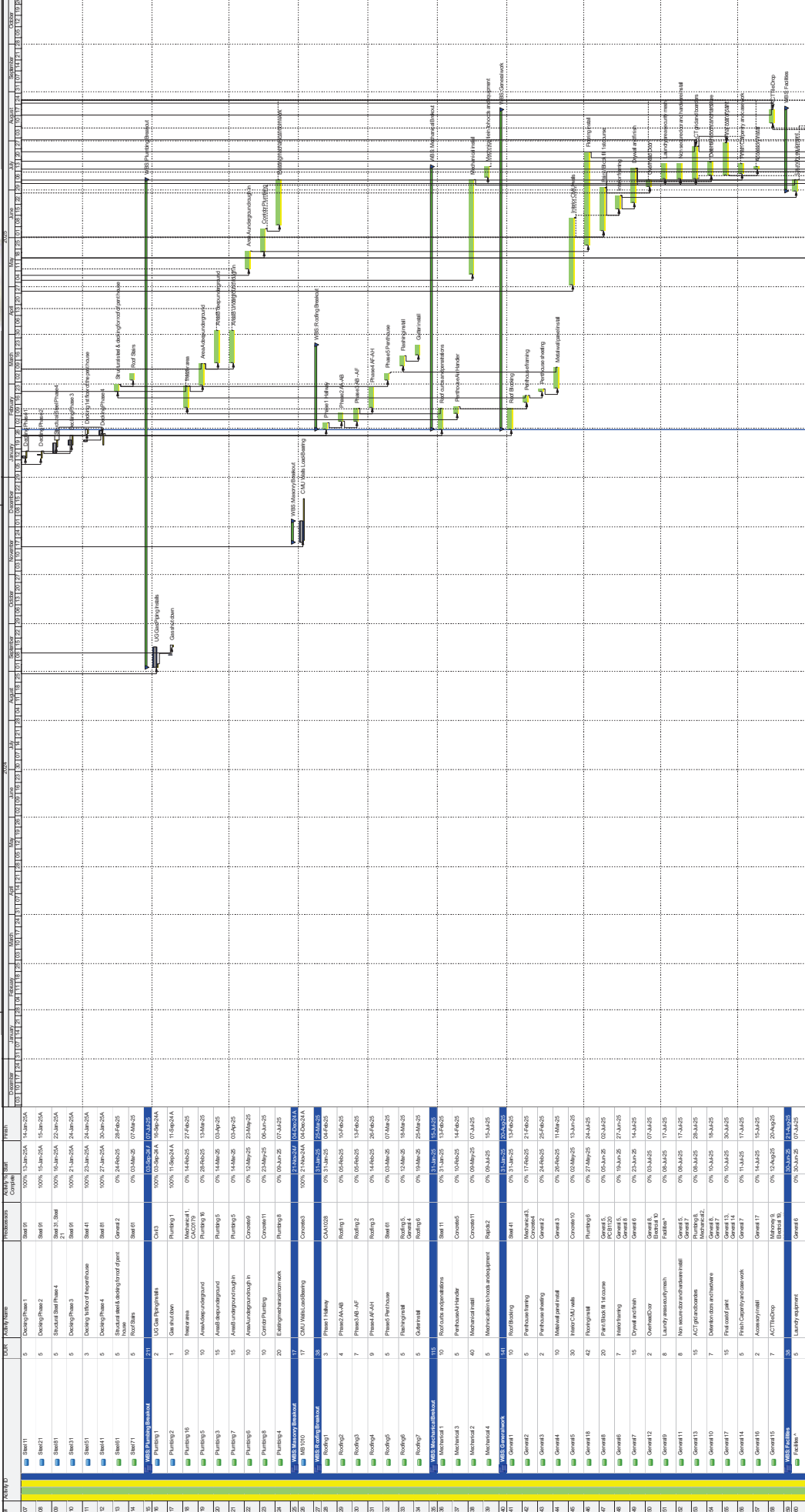
Data Date 01.31.2025

7679-9223.00 DOC CCF Kitchen/Laundry



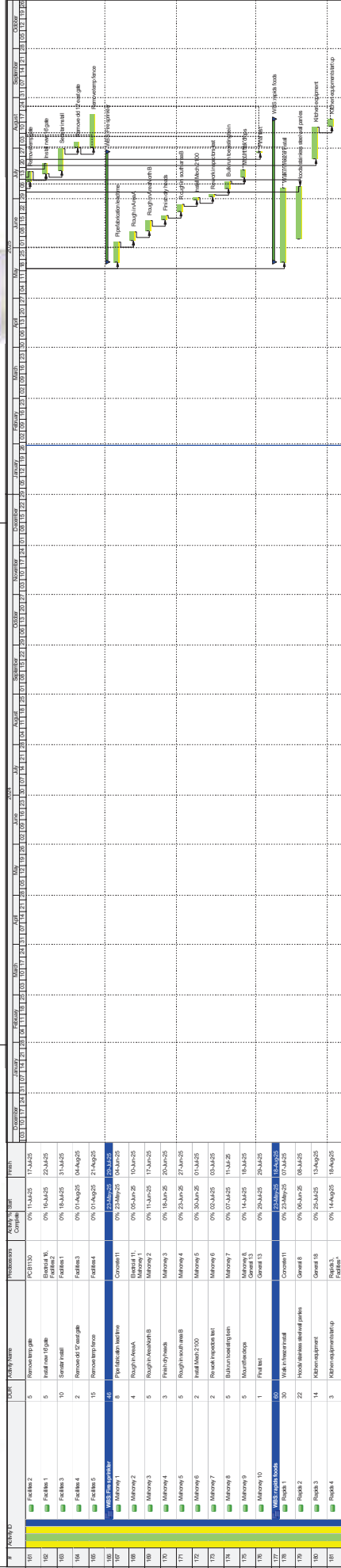
Data Date 01.31.2025

Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Start Constraint
Finish Constraint



Data Date 01.31.2025

■ Primary Baseline
■ Remaining Work
■ Actual Work
■ Critical Remaining Work
▲ Start Constraint
◻ Finish Constraint



Primary Baseline Remaining Work Start Constraint
 Actual Work Critical Remaining Work Finish Constraint

Data Date 01.31.2025

SECTION 01 1200

CONTRACT SUMMARY

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Project Information
- B. Project Summary
- C. Bid Scope Summary
- D. Work Hour Restrictions
- E. Access to Site
- F. Coordination with Occupants
- G. Rules for Construction Workers
- H. Bid Package Instructions

1.02 PROJECT INFORMATION

- A. Facility Name/Location: Clarinda Correctional Facility (CCF) 2000 N. 16th St., Clarinda, IA 51632
- B. DAS Project #: 9223.00
- C. Owner: State of Iowa, Department of Administrative Services, Hoover State Office Building, Level 3, 1305 East Walnut Street, Des Moines, IA 50319
- D. Owner's Representative: Brad Tonyan, Iowa Department of Administrative Services, 109 SE 13th Street, Des Moines, IA 50319
- E. Construction Manager: Brian Polzin, The Samuels Group, 2929 Westown Parkway Suite 200, West Des Moines, IA 50266

1.03 PROJECT SUMMARY

- A. The project includes the construction of a new kitchen and laundry building for the Clarinda Correctional Facility. Scope of the project includes general construction, concrete, masonry, precast, structural steel, EPDM roofing, food service equipment, fire suppression, plumbing, HVAC, electrical, communications, electronic safety/security, earthwork, paving, utilities, etc.
- B. Target date to provide substantial completion is August 12, 2025.

1.04 BID SCOPE SUMMARY

- A. Scope Applicable to All Bid Packages:
 - 1. The Contractor's Work includes all labor, supervision, materials, equipment, services, supplies, tools, facilities, transportation, hoisting, storage, receiving, licenses, inspections, certifications, overhead, profit, or other items required or reasonably inferable to properly and timely perform and complete all work and services to be performed by the Contractor pursuant to this Agreement. Unless specifically stated otherwise, incidental work required to accomplish the work of this Bid Package shall be included in the bid. This would include, but not be limited to, temporary facilities, protection of the work, security of equipment, materials, and work in progress, etc. **Contractor's Work shall be performed in accordance with the Drawings, Specification Divisions 00 and 01, and Specification sections applicable to each Contractor's scope.**
 - 2. The Contractor is responsible for all labor and equipment to unload, account for all material delivered, stock, and delivery for this scope of work. Storage and delivery of materials and equipment at the Site shall be permitted only to the extent approved in advance by the Construction Manager, and if anything so stored obstructs the progress

- of any portion of the work, it shall be promptly removed or relocated by the Contractor without reimbursement.
3. On-site supervision by Prime Contractor at all times work by that contractor or their subcontractors/suppliers is taking place.
 4. Provide all temporary facilities required for this scope of work including trailer, trailer power, telephone, secured storage, temporary power for work, temporary and task lighting for work, etc. as determined necessary by Contractor. Coordinate location of trailers, material storage and utility lines with Construction Manager. Limited space is available, and permission to bring any such facility or excess materials to the site shall be approved by the Construction Manager.
 5. Contractor shall provide all equipment and tools for Contractor's own cleanup. Clean up shall be done at the end of every shift or more frequently if required for the Contractor to perform their work, for other Contractors to perform their work, as required by the Owner's operations, and at the discretion of the Construction Manager.
 6. All turf, landscaping, and subgrade disturbances caused by equipment traffic or other activities related to the Contractor's scope shall be repaired or restored to proper conditions by the Contractor.
 7. Protect adjacent existing building elements from damage from Scope of work. Repair existing building elements damaged during Contractor's Scope of work.
 8. Work occurring in occupied areas of the prison can be shut down by the facility manager or construction manager at any time for noise, vibration, or any inconvenience to the facility's everyday operation. Coordinate disruptive work with the Construction Manager and give adequate notice for all shutdowns and inconvenient work. Work causing noise, vibration, or other interruption needs to be coordinated at least 72 hours before the start of work.
 9. Work occurring in occupied areas of the prison will need to be performed at the convenience of the Owner. The work will likely need to be performed after normal working hours (nights) or on weekends. Any shutdown of an existing utility must be conducted during off hours.
 10. Each Trade Contractor is responsible for protecting their work until acceptance by the owner. Each Trade Contractor is responsible for respecting the work completed by all other Trade Contractors and shall be responsible for replacing anything damaged.
 11. Each Trade Contractor shall provide daily jobsite clean-up for debris and dust generated by the installation of their scope of work. Haul debris to the dumpster provided by the Construction Manager. Daily jobsite clean-up shall consist of all prime contractor's employees cleaning the work area for at least 30 minutes before leaving.
 12. Each Trade Contractor shall provide all layout and surveying as required to complete their scope of work. The cost of testing and inspections shall be paid by the Owner as required by the Contract Documents. All testing and inspections shall be called for by each Trade Contractor and tests shall be coordinated with the Construction Manager. Retesting due to failed tests will be the responsibility of the Trade Contractor.
 13. All work to be completed in accordance with the schedule and phasing included in the specification section and as noted in the Contract Documents. The contractor shall include additional mobilizations as required to meet the schedule and phasing as noted.
 14. Each trade contractor is responsible to field verify all dimensions prior to fabrication of products.
 15. Trade contractors and employees shall be responsible for following OSHA construction standards and compliance with such standards for the project.
 16. Weekly meetings shall be conducted on site for construction activities, safety, scheduling, and overall project activities. A representative (Foreman, Lead Employee) from each bid package shall participate.

1.05 WORK HOUR RESTRICTIONS (Refer to Drawing G0.1 for zones A and B)

- A. **Zone A (Construction Zone):** Gate opens at 6:30 AM and gate closes at 6:30 PM. (Monday through Friday). Standard Work hours are from 7:00 AM to 3:30 PM but can be extended to 6:30 PM, Monday through Friday. Saturday and Sunday work requests shall be submitted two weeks in advance to the CM's on-site superintendent and project manager.
- B. **Zone B (Restricted Construction Zone With Tool Control):** Work hours are from 7:00 AM to 5:00 PM, Monday through Friday only. Saturday and Sunday construction is prohibited in this area. Tool control will be in effect for any work in the Secure Construction Zone area.

1.06 CONTRACTOR USE OF SITE AND PREMISES

- A. Construction Operations: Limited to areas noted on Drawings.
- B. Provide access to and from site as required by law and Owner:
 - 1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
 - 2. Do not obstruct roadways, sidewalks, or other public ways without permission of Owner and permit if required.
- C. Facility will be occupied at all times during duration of work. Contractor personnel shall conduct themselves in an agreeable manner at all times. Failure to do so may result in removal from the work site.
- D. Parking in the West Parking lot of the Clarinda Correctional Facility is off limits. Contractors shall park in the designated parking areas noted on the project drawings and/or as directed by the construction manager and correctional facility.
- E. **All Trade Contractors shall be responsible for the cleanup of their own work. Provide means and methods to ensure construction debris and materials are collected and removed to dumpsters on a daily basis.**
- F. All ladders shall be taken down at the end of the workday and secured with locking devices.

1.07 OWNER OCCUPANCY

- A. Owner intends to occupy the Project upon Substantial Completion.
- B. Cooperate with the Owner to minimize conflict and facilitate the Owner's operations.
- C. Schedule the Work to accommodate Owner occupancy.
- D. Coordinate disruption of utilities, fire alarm system, electrical system, plumbing/HVAC systems, etc. with the facility a minimum of 72 hours prior to commencement of any work.

1.08 RULES FOR CONSTRUCTION WORKERS

- A. The staff of the State of Iowa has a responsibility to protect the public by providing a secure environment. All work site rules must be followed to the letter, at all times.
- B. All construction workers must have a background check completed prior to entering the campus to perform work.
- C. Hot Work Permit Processes and Fire Watch, when necessary, will be adhered to for this project.
- D. All State properties are tobacco-free. No smoking will be permitted or tolerated on campus unless in designated areas.
- E. You are permitted access only to the work site and no other area of the institution.
- F. **No drugs, alcohol, or firearms are allowed on the work site.**
- G. Do not leave money, drugs, alcohol, or firearms in your personal vehicle.
- H. Company and personal vehicles are to be parked and locked in designated or authorized area of the work.
- I. Secure all tools at the end of the day.

- J. Maintain control of all tools, supplies, and debris at all times during the work.
- K. Never leave keys in any vehicle. If a security officer finds keys in a vehicle, they are under orders to turn them in to a security supervisor.
- L. Do not give anything to residents or take anything from residents; if they offer, inform your supervisor.
- M. Secure all tools at the end of each day. Never leave tools unattended. All tools shall be checked in at the beginning of the day and checked out at the end of the day. If security officers find loose tools, they are under orders to turn them into their supervisor.
- N. All delivery vehicles must go directly to the job site. Extra time should be anticipated for all deliveries. Provide 24-hour notice to the facility of deliveries.
- O. Contractors shall be responsible for the coordination and receiving of all deliveries. The Clarinda Correctional Facility shall not be responsible for receiving of contractor related materials, equipment, or deliveries.
- P. During an emergency, follow the instructions of the security staff.
- Q. Contractors shall wear clothing of a different color, pattern, fashion, etc., to distinguish themselves from inmates. **High Visibility Orange shall not be worn by contractors.**
- R. Contractors shall conduct all construction work under OSHA compliance.
- S. **All ladders shall be taken down at the end of the workday and secured with locking devices.**

1.09 BID PACKAGE INSTRUCTIONS –

- A. **Bid Package #01 – General Construction:** Trade Contractor shall include all of the following, but not limited to, as part of the contract:
 - 1. Provide all labor, material, and equipment for the Clarinda Kitchen & Laundry Addition project to provide and install Concrete, Masonry, Metals, Woods, Plastic, Composites, Thermal/Moisture Protection, Openings, Finishes, Specialties, and Furnishings based on all contract drawings and specifications.
 - 2. Includes Divisions 00 and 01 including project management and supervision during construction activities associated with this Scope of Work. Contractor's Work shall be performed in accordance with the Drawings, Specification Divisions 00 and 01, and Specification sections applicable to each Contractor's scope.
 - 3. Includes:

DIVISION 02 - DEMOLITION

- 02 4100 Demolition (As Applies to this Bid Package)

DIVISION 03 - CONCRETE

- 03 3000 Cast-in-Place Concrete
- 03 3511 Concrete Floor Finishes

DIVISION 03 CLARIFICATIONS:

- Includes installation of embedded plates supplied by precast contractor.
- Includes provide and install of grout and reinforced concrete wearing slabs at coolers and freezers after F.S.E.C. installation of cooler and freezer insulated screed.
- Includes excavation and backfill of footings and foundations.
- Excess spoils of footings and foundations excavation (fill material, organics, black dirt) shall be stocked piled at a location noted on site.
- Includes housekeeping pads, mechanical pads, generator pad, and site bollards.

DIVISION 04 - MASONRY

- 04 2000 Unit Masonry

DIVISION 04 CLARIFICATIONS:

- Includes installation of embedded plates supplied by precast contractor.

- Coordinate location of mixing tower and water access with CM.

DIVISION 05 - METALS

- 05 1200 Structural Steel Framing
- 05 2100 Steel Joist Framing
- 05 3100 Steel Decking
- 05 4000 Cold-Formed Metal Framing
- 05 5000 Metal Fabrications
- 05 5100 Metal Stairs

DIVISION 05 CLARIFICATIONS:

- Includes coordination with precast/precast erector for removal of bracing.

DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

- 06 1000 Rough Carpentry
- 06 4100 Architectural Wood Casework

DIVISION 06 CLARIFICATIONS:

- Includes provide and install of treated wood roof curbs for walk-in freezers and coolers condensing units
- Includes roof blocking and plywood at the roof area and parapet walls.

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

- 07 2100 Thermal Insulation
- 07 2500 Weather Barriers
- 07 4213.19 Insulated Metal Wall Panels
- 07 8400 Firestopping (As Applies to this Bid Package)
- 07 9200 Joint Sealants (As Applies to this Bid Package)

DIVISION 07 CLARIFICATIONS:

- Includes provide and install vapor barrier and slab insulation after installation of walk-in coolers and freezers insulated screed.

DIVISION 08 - OPENINGS

- 08 1113 Hollow Metal Doors and Frames
- 08 3323 Overhead Coiling Doors
- 08 7100 Door Hardware
- 08 8000 Glazing

DIVISION 08 CLARIFICATIONS:

- Coordinate prep of doors and frames with controls and electrical.
- Coordinate keying and door prep requirements with owner.

DIVISION 09 - FINISHES

- 09 2116 Gypsum Board Assemblies
- 09 2216 Non-structural Metal Framing
- 09 3000 Tiling
- 09 5100 Acoustical Ceilings
- 09 9123 Interior Painting
- 09 9600 High-Performance Coatings

DIVISION 10 - SPECIALTIES

- 10 1401 Code-Required Signage
- 10 2600 Wall and Door Protection
- 10 2800 Toilet, Bath, and Laundry Accessories
- 10 4400 Fire Protection Specialties

DIVISION 11 - EQUIPMENT

- 11 1900 Detention Security Equipment
- 11 1910 Detention Hollow Metal

DIVISION 12 - FURNISHINGS

- 12 3600 Countertops
4. Bid Package #01 Unit Prices:
- A. **Unit Price #01A** – Over Ex/Backfill with Engineered Fill (1 Cubic yard): Trade Contractor shall include all of the following, but not limited to, as part of the contract:
1. Provide a unit cost to excavate one cubic yard of soils and place one cubic yard of engineered compacted fill for over excavation requirements.
 2. Reference Team Services Geotechnical Evaluation Report dated April 12, 2022.
 3. Excess spoils (fill material, organics, black dirt) shall be stocked piled at a location noted on site.
 4. Unit prices include all necessary material, plus cost for delivery, installation, insurance, overhead, and profit.
 5. Owner reserves the right to reject Contractor's measurements of work in place that involves use of established unit prices and to have this work measured, at the Owner's expense, by an independent surveyor acceptable to the Contractor.
- B. **Unit Price #01B** – Over Ex/Backfill with Lean Concrete (1 Cubic yard): Trade Contractor shall include all of the following, but not limited to, as part of the contract:
1. Provide a unit cost to excavate one cubic yard of soils and place one cubic yard of lean concrete fill for over excavation requirements.
 2. Reference Team Services Geotechnical Evaluation Report dated April 12, 2022.
 3. Excess spoils (fill material, organics, black dirt) shall be stocked piled at a location noted on site.
 4. Unit prices include all necessary material, plus cost for delivery, installation, insurance, overhead, and profit.
 5. Owner reserves the right to reject Contractor's measurements of work in place that involves use of established unit prices and to have this work measured, at the Owner's expense, by an independent surveyor acceptable to the Contractor.
5. Bid Package #01 Alternate:
- A. **Alternate #1** – Laundry Equipment Opening Surrounds: Trade Contractor shall include all of the following, but not limited to, as part of the contract:
1. Provide all labor, material, and equipment for the opening surrounds as noted in detail 17/A8.1 for washer units and dryer units at Laundry Room 1204.
 2. Reference Plans and specifications for additional information. General Information included on Drawing G0.1.
 3. Reference Drawing A1.1 for location of Security and Screen Walls and Doors.
 4. Includes Section 11 1940 Security and Screen Walls and Doors.
 5. Include deduct off building elements provided in base bid for washer and dryer openings.
 6. Coordinate work with other trades for installation.
 7. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 8. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
 9. Execute accepted alternates under the same conditions as other work of the Contract
6. **ADDITIONAL CLARIFICATIONS BID PACKAGE #01:**

- A. Follow working hours as noted in the specifications for Zone A (Construction Zone) and Zone B (Restricted Construction Zone with Tool Control) – coordinate with the Construction Manager.
 - B. All activities must be coordinated with the Construction Manager.
 - C. All activities must be coordinated with the other Trade Contractors.
 - D. Includes all temporary barricades, enclosures, and protection for this Bid Package Scope of Work.
 - E. Includes all core drilling, penetrations, cutting, and patching required to complete the work.
 - F. Includes daily cleanup, removal, and lawful disposal of all scrap materials and debris generated from the site operation and installation of the work included in this Bid Package.
 - G. Debris shall be removed during normal construction hours. Dumpsters are supplied by Owner unless clarified in Bid Package.
 - H. Includes all caulking/sealant as it pertains to this Bid Package.
 - I. Level 2, Mechanical Room Louver OAL-1: Section of insulated wall panel below Louver OAL-1 shall be installed after all AHU and DOAS units have been installed by HVAC contractor. Coordinate install with all trades.
- B. **Bid Package #02 – Precast:** Trade Contractor shall include all of the following, but not limited to, as part of the contract:
1. Provide all labor, material, and equipment for the Clarinda Kitchen & Laundry Addition project to provide and install Precast Architectural Concrete based on all contract drawings and specifications.
 2. Includes Divisions 00 and 01 including project management and supervision during construction activities associated with this Scope of Work. Contractor's Work shall be performed in accordance with the Drawings, Specification Divisions 00 and 01, and Specification sections applicable to each Contractor's scope.
 3. Includes:

DIVISION 03 – CONCRETE

- 03 4500 Precast Architectural Concrete

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

- 07 9200 Joint Sealants (As Applies to this Bid Package)

4. **ADDITIONAL CLARIFICATIONS BID PACKAGE #02:**

- A. Follow working hours as noted in the specifications for Zone A (Construction Zone) and Zone B (Restricted Construction Zone with Tool Control) – coordinate with the Construction Manager.
- B. All activities must be coordinated with the Construction Manager.
- C. All activities must be coordinated with the other Trade Contractors.
- D. Coordinate with all trade contractors for location of embeds and openings.
- E. Includes all temporary barricades, enclosures, and protection for this Bid Package Scope of Work.
- F. Precast Contractor to provide site specific safety plan.
- G. Includes all core drilling, penetrations, cutting, and patching required to complete the work.
- H. Includes daily cleanup, removal, and lawful disposal of all scrap materials and debris generated from the site operation and installation of the work included in this Bid Package.
- I. Debris shall be removed during normal construction hours. Dumpsters are supplied by Owner unless clarified in Bid Package.
- J. Preinstallation Meeting: Convene one week prior to commencing work.
- K. Includes all caulking/sealant as it pertains to this Bid Category. Seal all precast perimeter and intermediate joints (interior and exterior) in accordance with Section 07 9200.
- L. Includes shims and 1" grout fill at precast to foundation wall.

- M. Includes Embed plates (top of foundation walls). Installed by others.
- N. Includes bracing, bracing anchoring needs, and removal of these components.
- O. Coordinate removal of precast bracing components with steel erection.
- P. Coordinate installation of 12' x 12' knock out panel area at south wall elevation with construction manager. The tentative date of knock out panel installation is May 2025.

C. **Bid Package #03 – Roofing/Gutters/Downspouts:** Trade Contractor shall include all of the following, but not limited to, as part of the contract:

- 1. Provide all labor, material, and equipment for the Clarinda Kitchen & Laundry Addition project to provide and install EPDM roofing system, sheet metal flashing/trim, parapet cap, gutters, and downspouts based on all contract drawings and specifications.
- 2. Includes Divisions 00 and 01 including project management and supervision during construction activities associated with this Scope of Work. Contractor's Work shall be performed in accordance with the Drawings, Specification Divisions 00 and 01, and Specification sections applicable to each Contractor's scope.
- 3. Includes:

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

- 07 5300 Elastomeric Membrane Roofing
- 07 6200 Sheet Metal Flashing and Trim
- 07 7100 Roof Specialties
- 07 7123 Manufactured Gutters and Downspouts
- 07 7200 Roof Accessories
- 07 7260 Roof Fall Protection
- 07 9200 Joints Sealants (As Applies to this Bid Package)

4. **ADDITIONAL CLARIFICATIONS BID PACKAGE #03:**

- A. Follow working hours as noted in the specifications for Zone A (Construction Zone) and Zone B (Restricted Construction Zone with Tool Control) – coordinate with the Construction Manager.
- B. All activities must be coordinated with the Construction Manager.
- C. All activities must be coordinated with the other Trade Contractors.
- D. Includes all temporary barricades, enclosures, and protection for this Bid Package Scope of Work.
- E. Includes all core drilling, penetrations, cutting, and patching required to complete the work.
- F. Includes daily cleanup, removal, and lawful disposal of all scrap materials and debris generated from the site operation and installation of the work included in this Bid Package.
- G. Debris shall be removed during normal construction hours. Dumpsters are supplied by Owner unless clarified in Bid Package.
- H. Includes all caulking/sealant as it pertains to this Bid Package.
- I. Includes pre-finished tamper proof gutter covers.
- J. Includes saw cutting of reveal for metal flashing at connection to existing building.
- K. Turn over Roof Fall Protection to owner.

D. **Bid Package #04 – Food Service:** Trade Contractor shall include all of the following, but not limited to, as part of the contract:

- 1. Provide all labor, material, and equipment for the Clarinda Kitchen & Laundry Addition project to provide and install food service equipment based on all contract drawings and specifications.
- 2. Includes Divisions 00 and 01 including project management and supervision during construction activities associated with this Scope of Work. Contractor's Work shall be

performed in accordance with the Drawings, Specification Divisions 00 and 01, and Specification sections applicable to each Contractor's scope

3. Includes:

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

- 07 8400 Firestopping (As Applies to this Bid Package)
- 07 9200 Joints Sealants (As Applies to this Bid Package)

DIVISION 11 - EQUIPMENT

- 11 4000 Foodservice Equipment

4. Bid Package #04 Alternate:

A. **Alternate #2** – Alternate Bakery Equipment: Trade Contractor shall include all of the following, but not limited to, as part of the contract:

1. Provide all labor, material, and equipment to supply and install bakery equipment.
2. Reference Plans and specifications for additional information. General Information included on Drawing G0.1.
3. Final Electrical, Plumbing, and HVAC connections by others. Coordinate work.
4. Coordinate work with other trades for installation.
5. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
6. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
7. Execute accepted alternates under the same conditions as other work of the Contract.

5. **ADDITIONAL CLARIFICATIONS BID PACKAGE #04:**

- A. Follow working hours as noted in the specifications for Zone A (Construction Zone) and Zone B (Restricted Construction Zone with Tool Control) – coordinate with the Construction Manager.
- B. All activities must be coordinated with the Construction Manager.
- C. All activities must be coordinated with the other Trade Contractors.
- D. Includes all temporary barricades, enclosures, and protection for this Bid Package Scope of Work.
- E. Includes daily cleanup, removal, and lawful disposal of all scrap materials and debris generated from the site operation and installation of the work included in this Bid Package.
- F. Debris shall be removed during normal construction hours. Dumpsters are supplied by Owner unless clarified in Bid Package.
- G. Includes all caulking/sealant as it pertains to this Bid Category.

E. **Bid Package #05 – Fire Suppression:** Trade Contractor shall include all of the following, but not limited to, as part of the contract:

1. Provide all labor, material, and equipment for the Clarinda Kitchen & Laundry Addition project to provide and install Fire Suppression system based on all contract drawings and specifications.
2. Includes Divisions 00 and 01 including project management and supervision during construction activities associated with this Scope of Work. Contractor's Work shall be performed in accordance with the Drawings, Specification Divisions 00 and 01, and Specification sections applicable to each Contractor's scope.
3. Includes Fire Suppression items noted in the Food Service Equipment MEP Drawings.
4. Includes:

DIVISION 02 – EXISTING CONDITIONS

- 02 4100 Demolition (As Applies to this Bid Package)

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

- 07 8400 Firestopping (As Applies to this Bid Package)
- 07 9200 Joints Sealants (As Applies to this Bid Package)

DIVISION 21 – FIRE SUPPRESSION

- 21 0500 Basic Fire Suppression Requirements
- 21 0505 Fire Suppression Demolition for Remodeling
- 21 0529 Fire Suppression Supports and Anchors
- 21 1300 Fire Protection Systems

5. **ADDITIONAL CLARIFICATIONS BID PACKAGE #05:**

- A. Follow working hours as noted in the specifications for Zone A (Construction Zone) and Zone B (Restricted Construction Zone with Tool Control) – coordinate with the Construction Manager.
- B. All activities must be coordinated with the Construction Manager.
- C. All activities must be coordinated with the other Trade Contractors.
- D. Includes all temporary barricades, enclosures, and protection for this Bid Package Scope of Work.
- E. Includes all core drilling, penetrations, cutting, and patching required to complete the work.
- F. Includes daily cleanup, removal, and lawful disposal of all scrap materials and debris generated from the site operation and installation of the work included in this Bid Package.
- G. Debris shall be removed during normal construction hours. Dumpsters are supplied by Owner unless clarified in Bid Package.
- H. Includes firestopping and sealant associated to this contractor's scope of work.
- I. Includes removal and resetting of existing ceiling tile for work associated to this bid package.
- J. Submit all shop drawings to the State Fire Marshal office (SFM) for approval. Includes all fees associated with permits and inspections.

- F. **Bid Package #06 – Plumbing and HVAC:** Trade Contractor shall include all of the following Scope of Work, but not limited to, as part of the contract:

1. Provide all labor, material, and equipment for the Clarinda Kitchen & Laundry Addition project to provide and install complete Plumbing and Heating/Ventilating/Air-Conditioning (HVAC) systems based on all contract drawings and specifications.
2. Includes Divisions 00 and 01 including project management and supervision during construction activities associated with this Scope of Work. Contractor's Work shall be performed in accordance with the Drawings, Specification Divisions 00 and 01, and Specification sections applicable to each Contractor's scope.
3. Includes Mechanical, Plumbing, and HVAC items noted in the Food Service Equipment MEP Drawings.
4. Includes:

DIVISION 02 – EXISTING CONDITIONS

- 02 4100 Demolition (As Applies to this Bid Package)

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

- 07 8400 Firestopping (As Applies to this Bid Package)
- 07 9200 Joints Sealants (As Applies to this Bid Package)

DIVISION 22 – PLUMBING

- 22 0500 Basic Plumbing Requirements
- 22 0505 Plumbing Demolition for Remodeling
- 22 0513 Motors
- 22 0516 Plumbing Expansion Compensation

- 22 0529 Plumbing Supports and Anchors
- 22 0548 Plumbing Vibration Isolation/Vibration Isolation Submittal Form
- 22 0553 Plumbing Identification
- 22 0716 Plumbing Equipment Insulation
- 22 0719 Plumbing Piping Insulation
- 22 0900 Instrumentation
- 22 1000 Plumbing Piping
- 22 1023 Natural Gas Piping
- 22 1030 Plumbing Specialties
- 22 1200 Tanks - Plumbing
- 22 1519 Compressed Air Systems
- 22 3000 Plumbing Equipment
- 22 4000 Plumbing Fixtures

DIVISION 23 – HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

- 23 0500 Basic HVAC Requirements
- 23 0505 HVAC Demolition for Remodeling
- 23 0513 Motors
- 23 0529 HVAC Supports and Anchors
- 23 0530 Roof Support and Wind Bracing
- 23 0548 HVAC Vibration Isolation, Vibration Isolation Submittal Form
- 23 0553 HVAC Identification
- 23 0593 Testing, Adjusting, and Balancing
- 23 0713 Ductwork Insulation
- 23 0719 HVAC Piping Insulation
- 23 0800 HVAC Commissioning Requirements
- 23 0900 Controls
- 23 0913 Instrumentation
- 23 2300 Refrigeration Piping and Specialties
- 23 3100 Ductwork
- 23 3300 Ductwork Accessories
- 23 3423 Power Ventilators
- 23 3600 Air Terminal Units
- 23 3700 Air Inlets and Outlets
- 23 4000 Air Cleaning
- 23 6213 Air Cooled Condensing Units
- 23 7313 Indoor Modular Air Handling Units
- 23 8200 Terminal Heat Transfer Units

5. Bid Package #06 Alternates:

- A. **Alternate #1** – Laundry Equipment Plumbing and HVAC: Trade Contractor shall include all of the following, but not limited to, as part of the contract:
1. Provide all labor, material, and equipment for the plumbing and HVAC needs to supply and install washer units and dryer units for Laundry Room 1204.
 2. Includes supply of washer units and dryer units.
 3. Reference Plans and specifications for additional information. General Information included on Drawing G0.1.
 4. Coordinate work with other trades for installation.
 5. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 6. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
 7. Execute accepted alternates under the same conditions as other work of the Contract.

- B. **Alternate #2** – Alternate Bakery Plumbing and HVAC: Trade Contractor shall include all of the following, but not limited to, as part of the contract:
1. Provide all labor, material, and equipment for the plumbing and HVAC needs for this alternate.
 2. Reference Plans and specifications for additional information. General Information included on Drawing G0.1.
 3. Coordinate work with other trades for installation.
 4. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 5. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
 6. Execute accepted alternates under the same conditions as other work of the Contract.
6. **ADDITIONAL CLARIFICATIONS BID PACKAGE #06:**
- A. Follow working hours as noted in the specifications for Zone A (Construction Zone) and Zone B (Restricted Construction Zone with Tool Control) – coordinate with the Construction Manager.
 - B. All activities must be coordinated with the Construction Manager.
 - C. All activities must be coordinated with the other Trade Contractors.
 - D. Coordinate with the local utilities.
 - E. Includes all temporary barricades, enclosures, and protection for this Bid Package Scope of Work.
 - F. Includes daily cleanup, removal, and lawful disposal of all scrap materials and debris generated from the site operation and installation of the work included in this Bid Package.
 - G. Includes all core drilling, penetrations, cutting, and patching required to complete the work.
 - H. Includes firestopping and sealant associated to this contractor's scope of work.
 - I. Includes removal and resetting of existing ceiling tile for work associated to this bid package.
 - J. Cover ends of pipes and ductwork while stored and after installation.
 - K. Provide TAB services as called out in documents.
 - L. Coordinate and provide access to the commissioning agent for equipment to be reviewed.
 - M. Level 2, Mechanical Room Louver OAL-1: Section of insulated wall panel below Louver OAL-1 shall be installed after all AHU and DOAS units have been installed by HVAC contractor. Coordinate install with all trades.
- G. **Bid Package #07 – Electrical:** Trade Contractor shall include all of the following Scope of Work, but not limited to, as part of the contract:
1. Provide all labor, material, and equipment for the Clarinda Kitchen & Laundry Addition project to provide and install complete electrical, communications, and electronic safety/security systems based on all contract drawings and specifications.
 2. Includes Divisions 00 and 01 including project management and supervision during construction activities associated with this Scope of Work. Contractor's Work shall be performed in accordance with the Drawings, Specification Divisions 00 and 01, and Specification sections applicable to each Contractor's scope.
 3. Includes Electrical items noted in the Food Service Equipment MEP Drawings.
 4. Includes:

DIVISION 02 – EXISTING CONDITIONS

- 02 4100 Demolition (As Applies to this Bid Package)

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

- 07 8400 Firestopping (As Applies to this Bid Package)
- 07 9200 Joints Sealants (As Applies to this Bid Package)

DIVISION 26 – ELECTRICAL

- 26 0500 Basic Electrical Requirements
- 26 0505 Electrical Demolition for Remodeling
- 26 0513 Wire and Cable
- 26 0526 Grounding and Bonding
- 26 0527 Supporting Devices
- 26 0533 Conduit and Boxes
- 26 0553 Electrical Identification
- 26 0573 Power System Study
- 26 0800 Commissioning of Electrical
- 26 0913 Power Monitoring and Control System
- 26 0933 Lighting Control Systems
- 26 2200 Dry Type Transformers
- 26 2416 Panelboards
- 26 2419 Motor Control
- 26 2726 Wiring Devices
- 26 2813 Fuses
- 26 2816 Disconnect Switches
- 26 2923 Variable Frequency Drives
- 26 3213 Packaged Engine Generator Systems
- 26 3600 Transfer Switch
- 26 4100 Lightning Protection Systems
- 26 4300 Surge Protection Devices
- 26 5119 LED Lighting

DIVISION – 27 COMMUNICATIONS

- 27 0500 Basic Communications Systems Requirements
- 27 0505 Technology Demolition For Remodeling
- 27 0526 Communications Bonding
- 27 0528 Interior Communication Pathways
- 27 0553 Identification and Administration
- 27 1100 Communication Equipment Rooms (CER)
- 27 1500 Horizontal Cabling Requirements
- 27 1710 Testing
- 27 1720 Structured Cabling System Warranty
- 27 5113 Paging Systems

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

- 28 0500 Basic Electronic Safety and Security Systems
- 28 1300 Electronic Access Control
- 28 2300 Video Surveillance 28 2300 Video Surveillance (VIDEO SURVEILLANCE EQUIPMENT PROVIDED AND INSTALLED BY OWNER. SPECIFICATION PROVIDED AS REFERENCE ONLY”.
- 28 3100 Fire Alarm and Detection Systems

5. Bid Package #07 Alternates:

- A. **Alternate #1** – Laundry Equipment Electrical: Trade Contractor shall include all of the following, but not limited to, as part of the contract:
 1. Provide all labor, material, and equipment for electrical needs for Laundry Equipment (Washers and Dryers) for Laundry Room 1204.
 2. Reference Plans and specifications for additional information. General Information included on Drawing G0.1.

3. Coordinate work with other trades for installation.
 4. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 5. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
 6. Execute accepted alternates under the same conditions as other work of the Contract.
- B. **Alternate #2** – Alternate Bakery Equipment Electrical: Trade Contractor shall include all of the following, but not limited to, as part of the contract:
1. Provide all labor, material, and equipment for electrical needs for Bakery Equipment.
 2. Reference Plans and specifications for additional information. General Information included on Drawing G0.1.
 3. Coordinate work with other trades for installation.
 4. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 5. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
 6. Execute accepted alternates under the same conditions as other work of the Contract.
6. **ADDITIONAL CLARIFICATIONS BID PACKAGE #07:**
- A. Follow working hours as noted in the specifications for Zone A (Construction Zone) and Zone B (Restricted Construction Zone with Tool Control) – coordinate with the Construction Manager.
 - B. All activities must be coordinated with the Construction Manager.
 - C. All activities must be coordinated with all other Trade Contractors.
 - D. Coordinate with the local utilities.
 - E. Includes all temporary barricades, enclosures, and protection for this Bid Package Scope of Work.
 - F. Includes temporary lighting and power for the building addition. Connect to existing power located on second floor Administration Building electrical room. Temp. lighting and temp. power to be OSHA compliant. Provide minimum qty. of two (2), 200 amp. temporary service panels with power outlets for the construction area.
 - G. Provide temporary lighting with footcandle requirements per OSHA standards.
 - H. Dumpsters supplied by Owner unless clarified in Bid Package.
 - I. Includes daily cleanup, removal, and lawful disposal of all scrap materials and debris generated from the site operation and installation of the work included in this Bid Package.
 - J. Includes all core drilling, penetrations, cutting, and patching required to complete the work.
 - K. Includes firestopping and sealant associated to this contractor's scope of work.
 - L. Includes removal and resetting of existing ceiling tile for work associated to this bid package.
 - M. Obtain electrical permit and coordinate electrical inspections via the State Fire Marshall Office (SFM).
- H. **Bid Package #08 – Civil:** Trade Contractor shall include all of the following Scope of Work, but not limited to, as part of the contract:
1. Provide all labor, material, and equipment for the Clarinda Kitchen & Laundry Addition project for earthwork, exterior improvements, and utilities based on all contract drawings and specifications.

2. Includes Divisions 00 and 01 including project management and supervision during construction activities associated with this Scope of Work. Contractor's Work shall be performed in accordance with the Drawings, Specification Divisions 00 and 01, and Specification sections applicable to each Contractor's scope.
3. Includes:

DIVISION 02 – EXISTING CONDITIONS

- 02 4100 Demolition (As Applies to this Bid Package)

DIVISION 31 – EARTHWORK

- 31 1000 Site Clearing
- 31 2000 Earthwork
- 31 2005 Earth Moving for Building
- 31 2333 Trenching and Backfilling (As Applies to this Bid Package)
- 31 3500 Erosion and Sediment Control

DIVISION 32 – EXTERIOR IMPROVEMENTS

- 32 1123 Aggregate Base Courses
- 32 1313 Concrete Paving
- 32 1373 Pavement Joint Sealants
- 32 1723 Pavement Markings
- 32 9119 Landscape Grading
- 32 9219 Seeding

DIVISION 33 - UTILITIES

- 33 3100 Sanitary Sewerage Piping
- 33 3101 Sanitary Sewer Manholes
- 33 4000 Storm Sewer and Drainage
- 33 4900 Storm Drainage Structures

4. Bid Package #08 Unit Prices:

- A. **Unit Price #08A - Over Ex/Backfill with Engineered Fill (1 Cubic Yard):** Trade Contractor shall include all of the following, but not limited to, as part of the contract:
 1. Provide a unit cost to excavate one cubic yard of soil and place one cubic yard of engineered compacted fill for over excavation requirements.
 2. Reference Team Services Geotechnical Evaluation Report dated April 12, 2022.
 3. Excess spoils (fill material, organics, black dirt) shall be stocked piled at a location noted on site.
 4. Unit prices include all necessary material, plus cost for delivery, installation, insurance, overhead, and profit.
 5. The owner reserves the right to reject Contractor's measurements of work in place that involves use of established unit prices and to have this work measured, at the Owner's expense, by an independent surveyor acceptable to the Contractor.

5. **ADDITIONAL CLARIFICATIONS BID PACKAGE #08:**

- A. Follow working hours as noted in the specifications for Zone A (Construction Zone) and Zone B (Restricted Construction Zone with Tool Control) – coordinate with the Construction Manager.
- B. All activities must be coordinated with the Construction Manager.
- C. All activities must be coordinated with the other Trade Contractors.
- D. Successful bidders will have access to a full set of construction documents ("CD") via Procore.
- E. Includes all temporary barricades, enclosures, and protection for this Scope of Work.
- F. Includes all safety material necessary to protect personnel in and from open trenches and excavations. Excavations shall be closed as soon as possible.

- G. Demolition and offsite disposal of existing storm structures and piping shall be included and be at the expense of this bid package.
- H. Excess spoils (fill material, organics, black dirt) shall be stocked piled at a location noted on site.
- I. Demolished concrete paving shall be stockpiled at a location noted on site.
- J. Dumpsters supplied by Owner unless clarified in Bid Package.
- K. Includes daily cleanup, removal, and lawful disposal of all scrap materials and debris generated from the site operation and installation of the work included in this Bid Package.
- L. Includes all cutting and patching required to complete the work.
- M. Trenching and backfilling of footings and foundations by others.

I. **Bid Package #09 – Video Surveillance:** Trade Contractor shall include all of the following Scope of Work, but not limited to, as part of the contract:

1. Provide all labor, material and equipment for the Clarinda Kitchen and Laundry Addition project to provide and install complete video surveillance equipment based on all contract drawings and specifications. BP-07 contractor is providing cabling and pathways as indicated in contract drawings and specifications.
2. Materials such as cabling / conduit / back boxes already provided under BP-07.
3. Includes Divisions 00 and 01 including project management and supervision during construction activities associated with this Scope of Work. Contractor's Work shall be performed in accordance with the Drawings, Specification Divisions 00 and 01, and Specification sections applicable to each Contractor's scope.

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

- 28 2300 Video Surveillance

Revised Addendum
#1

- **DIVISION 26 – ELECTRICAL** - (Specification Provided as Reference Only)
- 26 0513 Wire and Cable
- 26 0533 Conduit and Boxes
- **DIVISION – 27 COMMUNICATIONS** - (Specification Provided as Reference Only)
- 27 1500 Horizontal Cabling Requirements
- **DIVISION 28 – ELECTRONIC SAFETY AND SECURITY** - (Specification Provided as Reference Only)
- 28 0500 Basic Electronic Safety and Security Systems
- 28 3100 Fire Alarm and Detection Systems

4. ADDITIONAL CLARIFICATIONS BID PACKAGE #09:

Follow working hours as noted in the specifications for Zone A (Construction Zone) and Zone B (Restricted Construction Zone with Tool Control) – coordinate with the Construction Manager.

- A. All activities must be coordinated with the Construction Manager.
- B. All activities must be coordinated with all other Trade Contractors.
- C. Coordinate with the local utilities.
- D. Includes all temporary barricades, enclosures, and protection for this Bid Package Scope of Work.
- E. Dumpsters supplied by Owner unless clarified in Bid Package.
- F. Includes daily cleanup, removal, and lawful disposal of all scrap materials and generated from the site operation and installation of the work included in this Bid Package.
- G. Includes all core drilling, penetrations, cutting, and patching required to complete the work.

- H. Includes firestopping and sealant associated to this contractor's scope of work.
- I. Includes removal and resetting of existing ceiling tile for work associated to this bid package.

J. **Work Performed by Owner:** The Clarinda Correctional Facility will perform the following work items:

1. Relocate all movable furniture, fixtures, and equipment (FF&E), including window treatments; and personal materials from each sequenced work area prior to demolition and construction activities and after new construction is completed.
2. Provide and install temporary walkways and security fence along existing cell pod.
3. Provide and install 16' Wide sliding gate/with motor at sally port road.
4. Provide and install temporary gates at the south perimeter security fence.
5. Provide and install west temporary road and west trailer pad area as noted on drawing C2.1.
6. Site snow removal will be performed by the Owner.

K. **Owner Furnished Products:** The Clarinda Correctional Facility will provide the following materials for installation by the contractor:

1. No items noted.

PART 2 - PRODUCTS – NOT USED
PART 3 - EXECUTION – NOT USED

END OF SECTION

SUBSTITUTION REQUEST FORM

Project: DOC CCF Kitchen & Laundry Addition Substitution Request Number: 1
From: System Technology Services
To: _____ Date: 2/5/25
A/E Project Number: 0240202.00
Re: _____

Specification Title: Video Surveillance Description: NVMS Manufacturers
Section: 2.02 A Page: 6 Article/Paragraph: _____

Proposed Substitution: Wisenet WAVE
Manufacturer: Hanwha Vision Address: 500 Frank Burr Blvd, Teaneck, NJ Phone: 877-213-1222
Trade Name: Wisenet WAVE Model No.: _____

History: New product 2-5 years old 5-10 yrs old More than 10 years old

Differences between proposed substitution and specified product:
Wisenet WAVE has a perpetual camera license model with no SMA. All upgrades are included.

Wave is compatible with over 18K existing camera models.

AI integration that enable object detection to trigger analytics resulting on less false alarms.

Point-by-point comparative data prepared by contractor and attached - REQUIRED BY A/E

Reason for not providing specified item: Hanwha WAVE is a more flexible, cost effective option, both short and long term.

Similar Installation:

Project: _____ Architect: _____
Address: _____ Owner: _____
Date Installed: _____

Proposed substitution affects other parts of Work: No Yes; explain _____

Supporting Data Attached: Drawings Product Data Samples Tests Reports _____

SUBSTITUTION REQUEST FORM

(Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted by: Peter Heath

Signed by: Peter Heath

Firm: System Technology Services Inc

Address: 2806 SW 6th Street
Lincoln, NE 68506

Telephone: 402-610-0474

Attachments: Hanwha WAVE Brochure, Hanwha NDAA Compliant List, Hanwha WAVE Specification,
Hanwha wrt Recorder cut sheet,

Comparable recorder to the Pelco VXP-P2-24-5TE is: Hanwha WRR-P-E200x3 (Datasheet is attached)

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01 3300.
 Substitution approved as noted - Make submittals in accordance with Specification Section 01 3300.
 Substitution rejected - Use specified materials.
 Substitution Request received too late - Use specified materials.

Signed by:

Date: **February 7, 2025**

Additional Comments: Contractor Subcontractor Supplier Manufacturer A/E _____
Manufacturer is acceptable. Meet all requirements of specifications and drawings noted in bid package.

SUBSTITUTION REQUEST FORM

Project: 922300-04 Substitution Request Number: _____
From: Electronic Engineering
To: _____ Date: 1/7/25
A/E Project Number: _____
Re: _____

Specification Title: BP-09 VIDEO SURVEILLANCE Description: _____
Section: _____ Page: _____ Article/Paragraph: _____

Proposed Substitution: IP Camera and Security Software
Manufacturer: AXIS / Genetec Address: _____ Phone: _____
Trade Name: _____ Model No.: _____

History: New product 2-5 years old 5-10 yrs old More than 10 years old
Differences between proposed substitution and specified product: Similar solution. Different manufacturers.

Point-by-point comparative data prepared by contractor and attached - REQUIRED BY A/E

Reason for not providing specified item: This solution will line up with the initiative the DOC is moving to
have standards that are consistent. It also takes advantage of the state contract they awarded in 2024.

Similar Installation:
Project: Mt. Pleasant Prison Architect: _____
Address: 1200 E Washington St, Owner: _____
Mt Pleasant, IA 52641 Date Installed: 2024

Proposed substitution affects other parts of Work: No Yes; explain _____

Supporting Data Attached: Drawings Product Data Samples Tests Reports _____

SUBSTITUTION REQUEST FORM

(Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted by: Andy Richardson

Signed by: 

Firm: Electronic Engineering

Address: 1100 Keo Way, Des Moines, IA 50309

Telephone: 515-240-1100

Attachments: _____

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01 3300.
- Substitution approved as noted - Make submittals in accordance with Specification Section 01 3300.
- Substitution rejected - Use specified materials.
- Substitution Request received too late - Use specified materials.

Signed by: _____ Date: **February 10, 2025**

Additional Comments: Contractor Subcontractor Supplier Manufacturer A/E _____

Manufacturers are acceptable. Meet all requirements of specifications and drawings noted in bid package.

SECTION 28 0500
BASIC ELECTRONIC SAFETY AND SECURITY SYSTEM REQUIREMENTS
(SPECIFICATION PROVIDED AS REFERENCE ONLY)

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Basic Safety and Security System Requirements (herein referred to Security) specifically applicable to Division 28 sections, in addition to Division 1 - General Requirements.
- B. All materials and installation methods shall conform to the applicable standards, guidelines and codes referenced herein and within each specification section.

1.02 SCOPE OF WORK

- A. This Specification and the accompanying drawings govern the work involved in furnishing, installing, testing and placing into satisfactory operation the security systems as shown on the drawings and specified herein.
- B. Each Contractor shall provide all new materials as indicated in the schedules on the drawings, and/or in these specifications, and all items required to make the portion of the security systems a finished and working system.
- C. All work will be awarded under a single General Contract. The division of work listed below is for the Contractor's convenience and lists normal breakdown of the work.
- D. Description of systems include but are not limited to the following:
 - 1. Extension of existing electronic access control system
 - 2. Fire detection and alarm.
 - 3. Low voltage security wiring (less than +120VAC) as specified and required for proper system control and communications.
 - 4. All associated electrical backboxes, conduit, miscellaneous cabling, and power supplies required for proper system installation and operation as defined in the "Suggested Matrix of Scope Responsibility".
 - 5. Firestopping of penetrations of fire-rated construction as described in Division 7.

1.03 OWNER FURNISHED PRODUCTS

- A. Existing access control system managed by Owner security vendor Accurate Controls, Inc.

1.04 WORK SEQUENCE

- A. All construction work that will produce excessive noise levels and interference with normal building operations, as determined by the Owner, shall be scheduled with the Owner. It may be necessary to schedule such work during non-occupied hours. The Owner shall reserve the right to set policy as to when restricted construction hours will be required.
- B. Itemize all work and list associated hours and pay scale for each item.

1.05 DIVISION OF WORK BETWEEN ELECTRICAL AND SECURITY CONTRACTORS

- A. Division of work is the responsibility of the Prime Contractor. Any scope of work described in the contract document shall be sufficient for including said requirement in the project. The Prime Contractor shall be solely responsible for determining the appropriate subcontractor for the described scope. In no case shall the project be assessed an additional cost for scope that is described in the contract documents. The following division of responsibility is a guideline based on typical industry practice.

B. Definitions:

1. "Electrical Contractor" as referred to herein refers to the Contractors listed in Division 26 of this Specification.
2. "Electrical Contractor" shall also refer to the Contractor listed in Division 28 of this specification when the "Suggested Matrix of Scope Responsibility" indicates the work shall be provided by the EC. Refer to the Contract Documents for the "Suggested Matrix of Scope Responsibility".
3. "Security Contractor" as referred to herein refers to the Contractors listed in Division 28 of this Specification.
4. Low Voltage Security Wiring: The wiring (less than 120VAC) associated with the Security Systems, used for analog and/or digital signals between equipment.

C. General:

1. The purpose of these Specifications is to outline typical Electrical and Security Contractor's work responsibilities as related to security systems including back boxes, conduit, power wiring and low voltage security wiring. The prime contractor is responsible for all divisions of work.
2. The exact wiring requirements for much of the equipment cannot be determined until the systems have been purchased and submittals are approved. Therefore, only known wiring, conduits, raceways, and electrical power as related to such items, is shown on the Security Drawings. Other wiring, conduits, raceways, junction boxes, and electrical power not shown on the Security Drawings but required for the successful operation of the systems shall be the responsibility of the Security Contractor and included in the Contractor's bid.
3. Where the Electrical Contractor is required to install conduit, conduit sleeves and/or power connections in support of Security systems, the final installation shall not begin until a coordination meeting between the Electrical Contractor and the Security Contractor has convened to determine the exact location and requirements of the installation.
4. This Contractor shall establish Electrical and Security utility elevations prior to fabrication and installation. The Security Contractor shall cooperate with the Electrical Contractor and the determined elevations in accordance with the guidelines below. This Contractor shall coordinate utility elevations with other trades. When a conflict arises, priority shall be as follows:
 - a. Lighting Fixtures
 - b. Gravity Flow Piping, including Steam and Condensate
 - c. Sheet Metal
 - d. Electrical Busduct
 - e. Sprinkler Piping and other Piping
 - f. Conduit and Wireway
 - g. Open Cabling

D. Electrical Contractor's Responsibility:

1. Assumes all responsibility for all required conduit and power connections when shown on the "Suggested Matrix of Scope Responsibility" to be provided by the Electrical Contractor.
2. Responsible for Security Systems grounding and bonding.
3. This Contractor is responsible for coordination of utilities with all other Contractors. If any field coordination conflicts are found, the Contractor shall coordinate with other Contractors to determine a viable layout.

- E. Security Contractor's Responsibility:
1. Assumes all responsibility for the low voltage security wiring of all systems, including cable support where open cable is specified.
 2. Assumes all responsibility for all required backboxes, conduit and power connections not specifically shown as being provided by the Electrical Contractor on the "Suggested Matrix of Scope Responsibility."
 3. Responsible for providing the Electrical Contractor with the required grounding lugs or other hardware for each piece of security equipment which is required to be bonded to the telecommunications bonding system.
 4. This Contractor is responsible for coordination of utilities with all other Contractors. If any field coordination conflicts are found, the Contractor shall coordinate with other contractors to determine a viable layout.

1.06 COORDINATION DRAWINGS

- A. Definitions:
1. Coordination Drawings: A compilation of the pertinent layout and system drawings that show the sizes and locations, including elevations, of system components and required access areas to ensure that no two objects will occupy the same space.
 - a. Mechanical trades shall include, but are not limited to, mechanical equipment, ductwork, fire protection systems, plumbing piping, medical gas systems, hydronic piping, steam and steam condensate piping, and any item that may impact coordination with other disciplines.
 - b. Electrical trades shall include, but are not limited to, electrical equipment, conduit 1.5" and larger, conduit racks, pull boxes, transformers, raceway, busway, lighting, ceiling-mounted devices, and any item that may impact coordination with other disciplines.
 - c. Technology trades shall include, but are not limited to, technology equipment, racks, conduit 1.5" and larger, conduit racks ladder rack, pull boxes, raceway, ceiling-mounted devices, and any item that may impact coordination with other disciplines.
 - d. Maintenance clearances and code-required dedicated space shall be included.
 - e. The coordination drawings shall include all underground, underfloor, in-floor, in chase, and vertical trade items.
 2. The contractors shall use the coordination process to identify the proper sequence of installation of all utilities above ceilings and in other congested areas, to ensure an orderly and coordinated end result, and to provide adequate access for service and maintenance.
- B. Participation:
1. The contractors and subcontractors responsible for work defined above shall participate in the coordination drawing process.
 2. One contractor shall be designated as the Coordinating Contractor for purposes of preparing a complete set of composite electronic CAD coordination drawings that include all applicable trades, and for coordinating the activities related to this process. The Coordinating Contractor for this project shall be the Mechanical Contractor.
 - a. The Coordinating Contractor shall utilize personnel familiar with requirements of this project and skilled as draftspersons/CAD operators, competent to prepare the required coordination drawings.
 3. Electronic CAD drawings shall be submitted to the Coordinating Contractor for addition of work by other trades. IMEG will provide electronic file copies of ventilation drawings for contractor's use if the contractor signs and returns an "Electronic File Transfer" waiver provided by IMEG. IMEG will not consider blatant reproductions of original file copies an acceptable alternative for coordination drawings.

C. Drawing Requirements:

1. The file format and file naming convention shall be coordinated with and agreed to by all contractors participating in the coordination process and the Owner.
 - a. Scale of drawings:
 - 1) General plans: 1/4 Inch = 1'-0" (minimum).
 - 2) Mechanical, electrical, communication rooms, and including the surrounding areas within 10 feet: 1/2 Inch = 1'-0" (minimum).
 - 3) Shafts and risers: 1/2 Inch = 1'-0" (minimum).
 - 4) Sections of shafts and mechanical and electrical equipment rooms: 1/4 Inch = 1'-0" (minimum).
 - 5) Sections of congested areas: 1/2 Inch = 1'-0" (minimum).
2. Ductwork layout drawings shall be the baseline system for other components. Ductwork layout drawings shall be modified to accommodate other components as the coordination process progresses.
3. There may be more drawings required for risers, top and bottom levels of mechanical rooms, and shafts.
4. The minimum quantity of drawings will be established at the first coordination meeting and sent to the A/E for review. Additional drawings may be required if other areas of congestion are discovered during the coordination process.

D. General:

1. Coordination drawing files shall be made available to the A/E and Owner's Representative. The A/E will only review identified conflicts and give an opinion, but will not perform as a coordinator.
2. A plotted set of coordination drawings shall be available at the project site.
3. Coordination drawings are not shop drawings and shall not be submitted as such.
4. The contract drawings are schematic in nature and do not show every fitting and appurtenance for each utility. Each contractor is expected to have included in the bid sufficient fittings, material, and labor to allow for adjustments in routing of utilities made necessary by the coordination process and to provide a complete and functional system.
5. The contractors will not be allowed additional costs or time extensions due to participation in the coordination process.
6. The contractors will not be allowed additional costs or time extensions for additional fittings, reroutings or changes of duct size, that are essentially equivalent sizes to those shown on the drawings and determined necessary through the coordination process.
7. The A/E reserves the right to determine space priority of equipment in the event of spatial conflicts or interference between equipment, piping, conduit, ducts, and equipment provided by the trades.
8. Changes to the contract documents that are necessary for systems installation and coordination shall be brought to the attention of the A/E.
9. Access panels shall preferably occur only in gypsum board walls or plaster ceilings where indicated on the drawings.
 - a. Access to mechanical, electrical, technology, and other items located above the ceiling shall be through accessible lay-in ceiling tile areas.
 - b. Potential layout changes shall be made to avoid additional access panels.
 - c. Additional access panels shall not be allowed without written approval from the A/E at the coordination drawing stage.
 - d. Providing additional access panels shall be considered after other alternatives are reviewed and discarded by the A/E and the Owner's Representative.

- e. When additional access panels are required, they shall be provided without additional cost to the Owner.
- 10. Complete the coordination drawing process and obtain signoff of the drawings by all contractors prior to installing any of the components.
- 11. Conflicts that result after the coordination drawings are signed off shall be the responsibility of the contractor or subcontractor who did not properly identify their work requirements, or installed their work without proper coordination.
- 12. Updated coordination drawings that reflect as-built conditions may be used as record documents.

1.07 QUALITY ASSURANCE

A. Qualifications:

- 1. Only products of reputable manufacturers as determined by the Architect/Engineer will be acceptable.
- 2. Each Contractor and their subcontractors shall employ only workers who are skilled in their respective trades and fully trained. All workers involved in the installation, termination, testing, and placing into operation electronic security devices shall be individually trained by the manufacturer.
- 3. The Contractor shall be experienced in all aspects of this work and shall be required to demonstrate direct experience on recent systems of similar type and size.
- 4. The Contractor shall own and maintain tools and equipment necessary for successful installation and testing of electronic security devices and have personnel adequately trained in the use of such tools and equipment.
- 5. A resume of qualification shall be submitted with the Contractor's bid indicating the following:
 - a. A list of recently completed projects of similar type and size with contact names and telephone numbers for each.

B. Compliance with Codes, Laws, Ordinances:

- 1. Conform to all requirements of the State of Iowa's Codes, Laws, Ordinances and other regulations having jurisdiction.
- 2. In the event there are no local codes having jurisdiction over this job, the current issue of the National Electrical Code shall be followed.
- 3. If there is a discrepancy between the codes and regulations having jurisdiction over this installation, and these specifications, Architect/Engineer shall determine the method or equipment used.
- 4. If the Contractor notes, at the time of bidding, that any parts of the drawings or specifications do not comply with the codes or regulations, Contractor shall inform the Architect/Engineer in writing, requesting a clarification. If there is insufficient time to follow this procedure, Contractor shall submit with the proposal a separate price to make the system comply with the codes and regulations.
- 5. Verify the installation environment prior to purchasing or installing any cable. Cable installed in a plenum environment shall be appropriately rated. Bring all discrepancies between the contract documents and installation conditions to the attention of the Architect/Engineer prior to purchase or installation.
- 6. All changes to the system made after the letting of the contract, in order to comply with the applicable codes or the requirements of the Inspector, shall be made by the Contractor without cost to the Owner.

C. Permits, Fees, Taxes, Inspections:

- 1. Procure all applicable permits and licenses.
- 2. Abide by all applicable laws, regulations, ordinances, and other rules of the State or Political Subdivision wherein the work is done, or as required by any duly constituted public authority.
- 3. Pay all applicable charges for such permits or licenses that may be required.

4. Pay all applicable fees and taxes imposed by the State, Municipal and/or other regulatory bodies.
5. Pay all charges arising out of required inspections due to codes, permits, licenses or as otherwise may be required by an authorized body.
6. Pay all charges arising out of required contract document reviews associated with the project and as initiated by the Owner or authorized independent agency/consultant.
7. All equipment, and materials shall be as approved or listed by the following: (Unless approval or listing is not applicable to an item by all acceptable manufacturers.)
 - a. Factory Mutual
 - b. Underwriters' Laboratories, Inc.

D. Examination of Drawings:

1. The drawings for the Security Systems work are diagrammatic, intended to convey the scope of the work and to indicate the general arrangements and locations of equipment etc., and the approximate sizes of equipment.
2. Contractor shall determine the exact locations of equipment and the exact routing of cabling to best fit the layout of the job. Scaling of the drawings will not be sufficient or accurate for determining this layout. Where a specific route is required, such route will be indicated on the drawings.
3. Where job conditions require reasonable changes in indicated arrangements and locations, such changes shall be made by the Contractor at no additional cost to the Owner.
4. If an item is either shown on the drawings, called for in the specifications or required for proper operation of the system, it shall be considered sufficient for including same in this contract.
5. The determination of quantities of material and equipment required shall be made by the Contractor from the drawings. Schedules on the drawings and in the specifications are completed as an aid to the Contractor but where discrepancies arise, the greater number shall govern.
6. Where words "provide", "install", or "furnish" are used on the drawings or in the specifications, it shall be taken to mean, to furnish, install and terminate completely ready for operation, the items mentioned.

E. Electronic Media/Files:

1. Construction drawings for this project have been prepared utilizing Revit.
2. Contractors and Subcontractors may request electronic media files of the contract drawings and/or copies of the specifications. Specifications will be provided in PDF format.
3. Upon request for electronic media, the Contractor shall complete and return a signed "Electronic File Transmittal" form provided by IMEG. If the information requested includes floor plans prepared by others, the Contractor will be responsible for obtaining approval from the appropriate Design Professional for use of that part of the document.
4. The electronic contract documents can be used for preparation of shop drawings and as-built drawings only. The information may not be used in whole or in part for any other project.
5. The drawings prepared by IMEG for bidding purposes may not be used directly for ductwork layout drawings or coordination drawings.
6. The use of these CAD documents by the Contractor does not relieve them from their responsibility for coordination of work with other trades and verification of space available for the installation.
7. The information is provided to expedite the project and assist the Contractor with no guarantee by IMEG as to the accuracy or correctness of the information provided. IMEG accepts no responsibility or liability for the Contractor's use of these documents.

F. Field Measurements:

1. Before ordering any materials, this Contractor shall verify all pertinent dimensions at the job site and be responsible for their accuracy.

1.08 SUBMITTALS

A. Submittals shall be required for the following items, and for additional items where required elsewhere in the specifications or on the drawings.

1. Submittals list:

Referenced	Specification Section	Submittal Item
	28 13 00	Electronic Access Control

B. General Submittal Procedures: In addition to the provisions of Division 1, the following are required:

1. Transmittal: Each transmittal shall include the following:

- a. Date
- b. Project title and number
- c. Contractor's name and address
- d. Division of work (e.g., plumbing, heating, ventilating, etc.)
- e. Description of items submitted and relevant specification number
- f. Notations of deviations from the contract documents
- g. Other pertinent data

2. Submittal Cover Sheet: Each submittal shall include a cover sheet containing:

- a. Date
- b. Project title and number
- c. Architect/Engineer
- d. Contractor and subcontractors' names and addresses
- e. Supplier and manufacturer's names and addresses
- f. Division of work (e.g., plumbing, heating, ventilating, etc.)
- g. Description of item submitted (using project nomenclature) and relevant specification number
- h. Notations of deviations from the contract documents
- i. Other pertinent data
- j. Provide space for Contractor's review stamps

3. Composition:

- a. Submittals shall be submitted using specification sections and the project nomenclature for each item.
- b. Individual submittal packages shall be prepared for items in each specification section. All items within a single specification section shall be packaged together where possible. An individual submittal may contain items from multiple specifications sections if the items are intimately linked (e.g., pumps and motors).
- c. All sets shall contain an index of the items enclosed with a general topic description on the cover.

4. Content: Submittals shall include all fabrication, erection, layout, and setting drawings; manufacturers' standard drawings; schedules; descriptive literature, catalogs and brochures; performance and test data; wiring and control diagrams; dimensions; shipping and operating weights; shipping splits; service clearances; and all other drawings and descriptive data of materials of construction as may be required to show that the materials, equipment or systems and the location thereof conform to the requirements of the contract documents.

5. Contractor's Approval Stamp:
 - a. The Contractor shall thoroughly review and approve all shop drawings before submitting them to the Architect/Engineer. The Contractor shall stamp, date and sign each submittal certifying it has been reviewed.
 - b. Unstamped submittals will be rejected.
 - c. The Contractor's review shall include, but not be limited to, verification of the following:
 - 1) Only approved manufacturers are used.
 - 2) Addenda items have been incorporated.
 - 3) Catalog numbers and options match those specified.
 - 4) Performance data matches that specified.
 - 5) Electrical characteristics and loads match those specified.
 - 6) Equipment connection locations, sizes, capacities, etc. have been coordinated with other affected trades.
 - 7) Dimensions and service clearances are suitable for the intended location.
 - 8) Equipment dimensions are coordinated with support steel, housekeeping pads, openings, etc.
 - 9) Constructability issues are resolved (e.g., weights and dimensions are suitable for getting the item into the building and into place, sinks fit into countertops, etc.).
 - d. The Contractor shall review, stamp and approve all subcontractors' submittals as described above.
 - e. The Contractor's approval stamp is required on all submittals. Approval will indicate the Contractor's review of all material and a complete understanding of exactly what is to be furnished. Contractor shall clearly mark all deviations from the contract documents on all submittals. If deviations are not marked by the Contractor, then the item shall be required to meet all drawing and specification requirements.
6. Submittal Identification and Markings:
 - a. The Contractor shall clearly mark each item with the same nomenclature applied on the drawings or in the specifications.
 - b. The Contractor shall clearly indicate the size, finish, material, etc.
 - c. Where more than one model is shown on a manufacturer's sheet, the Contractor shall clearly indicate exactly which item and which data is intended.
 - d. All marks and identifications on the submittals shall be unambiguous.
7. Schedule submittals to expedite the project. Coordinate submission of related items.
8. Identify variations from the contract documents and product or system limitations that may be detrimental to the successful performance of the completed work.
9. Reproduction of contract documents alone is not acceptable for submittals.
10. Incomplete submittals will be rejected without review. Partial submittals will only be reviewed with prior approval from the Architect/Engineer.
11. Submittals not required by the contract documents may be returned without review.
12. The Architect/Engineer's responsibility shall be to review one set of shop drawing submittals for each product. If the first submittal is incomplete or does not comply with the drawings and/or specifications, the Contractor shall be responsible to bear the cost for the Architect/Engineer to recheck and handle the additional shop drawing submittals.
13. Submittals shall be reviewed and approved by the Architect/Engineer **before** releasing any equipment for manufacture or shipment.

14. Contractor's responsibility for errors, omissions or deviation from the contract documents in submittals is not relieved by the Architect/Engineer's approval.
15. Schedule shall allow for adequate time to perform orderly and proper review of submittals, including time for consultants and Owner if required, and resubmittals by Contractor if necessary, and to cause no delay in Work or in activities of Owner or other contractors.
 - a. Allow at least two weeks for Architect's/Engineer's review and processing of each submittal.
16. Architect/Engineer reserves the right to withhold action on a submittal which, in the Architect/Engineer's opinion, requires coordination with other submittals until related submittals are received. The Architect/Engineer will notify the Contractor, in writing, when they exercise this right.

C. Electronic Submittal Procedures:

1. Distribution: Email submittals as attachments to all parties designated by the Architect/Engineer, unless a web-based submittal program is used.
2. Transmittals: Each submittal shall include an individual electronic letter of transmittal.
3. Format: Electronic submittals shall be in PDF format only. Scanned copies, in PDF format, of paper originals are acceptable. Submittals that are not legible will be rejected. Do not set any permission restrictions on files; protected, locked, or secured documents will be rejected.
4. File Names: Electronic submittal file names shall include the relevant specification section number followed by a description of the item submitted, as follows. Where possible, include the transmittal as the first page of the PDF instead of using multiple electronic files.
 - a. Submittal file name: 28 XX XX.description.YYYYMMDD
 - b. Transmittal file name: 28 XX XX.description.YYYYMMDD
5. File Size: Files shall be transmitted via a pre-approved method. Larger files may require an alternative transfer method, which shall also be pre-approved.

1.09 SCHEDULE OF VALUES

A. The requirements herein are in addition to the provisions of Division 1.

B. Format:

1. Use AIA Document Continuation Sheets G703 or another similar form approved by the Owner and Architect/Engineer.
2. Submit in Excel format.
3. Support values given with substantiating data.

C. Preparation:

1. Itemize work required by each specification section and list all providers. All work provided by subcontractors and major suppliers shall be listed on the Schedule of Values. List each subcontractor and supplier by company name.
2. Break down all costs into:
 - a. Material: Delivered cost of product with taxes paid.
 - b. Labor: Labor cost, excluding overhead and profit.
3. Itemize the cost for each of the following:
 - a. Overhead and profit.
 - b. Bonds.
 - c. Insurance.
 - d. General Requirements: Itemize all requirements.

4. For each line item having an installed cost of more than \$5,000, break down costs to list major products or operations under each item. At a minimum, provide material and labor cost line items for the following:
 - a. Security systems:
 - 1) Surveillance
 - 2) Access control
- D. Update Schedule of Values when:
 1. Indicated by Architect/Engineer.
 2. Change of subcontractor or supplier occurs.
 3. Change of product or equipment occurs.

1.10 CHANGE ORDERS

- A. A detailed material and labor takeoff shall be prepared for each change order, along with labor rates and markup percentages. Change orders shall be broken down by sheet or associated individual line item indicated in the change associated narrative, whichever provides the most detailed breakdown. Change orders with inadequate breakdown will be rejected.
- B. Itemized pricing with unit cost shall be provided from all distributors and associated subcontractors.
- C. Change order work shall not proceed until authorized.

1.11 EQUIPMENT SUPPLIERS' INSPECTION

- A. The following equipment shall not be placed in operation until a representative of the manufacturer has inspected the installation and certified that the equipment is properly installed and that the equipment is ready for operation:
 1. Firestopping, including mechanical firestop systems.

1.12 PRODUCT DELIVERY, STORAGE, HANDLING & MAINTENANCE

- A. Exercise care in transporting and handling to prevent damage to fixtures, equipment and materials.
- B. Store materials on the site to prevent damage.
- C. Keep fixtures, equipment and materials clean, dry and free from harmful conditions.

1.13 NETWORK / INTERNET CONNECTED EQUIPMENT

- A. These specifications may require certain equipment or systems to have network, Internet and/or remote access capability ("Network Capability"). Any requirement for Network Capability shall be interpreted only as a functional capability and is not to be construed as authority to connect or enable any Network Capability. Network Capability may only be connected or enabled with the express written consent of the Owner.

1.14 WARRANTY

- A. At a minimum, provide a one (1) year warranty for all equipment, materials, and workmanship. Individual specifications sections within Division 28 may require additional warranty requirements for specific equipment or systems.
- B. The warranty period for the entire installation described in this Division of the specifications shall commence on the date of substantial completion unless a whole or partial system or any separate piece of equipment or component is put into use for the benefit of any party other than the installing contractor with prior written authorization. In this instance, the warranty period shall commence on the date when such whole system, partial system or separate piece of equipment or component is placed in operation and accepted in writing by the Owner or their representative.
- C. Warranty requirements shall extend to correction, without cost to the final user, of all work and/or equipment found to be defective or nonconforming to the contract documents. The Contractor shall bear the cost of correcting all damage resulting from such defects or nonconformance with contract documents exclusive of repairs required as a result of improper maintenance or operation, or of normal wear as determined by the Architect/Engineer.

1.15 INSURANCE

- A. Contractor shall maintain insurance coverage as set forth in Division 0 of these specifications.

1.16 MATERIAL SUBSTITUTION

- A. Where several manufacturers' names are given, the first named manufacturer constitutes the basis for job design and establishes the equipment quality required.
- B. Equivalent equipment manufactured by the other named manufacturers may be used. Contractor shall ensure that all items submitted by these other manufacturers meets all requirements of the drawings and specifications and fits in the allocated space. When using other listed manufacturers, the Contractor shall assume responsibility for any and all modifications necessary (including, but not limited to structural supports, electrical connections and rough-in, and regulatory agency approval, etc.) and coordinate such with other contractors. The Architect/Engineer shall make the final determination of whether a product is equivalent.
- C. Any material, article or equipment of other unnamed manufacturers which will adequately perform the services and duties imposed by the design and is of a quality equal to or better than the material, article or equipment identified by the drawings and specifications may be used if approval is secured in writing from the Architect/Engineer via addendum. The Contractor bears full responsibility for the unnamed manufacturers' equipment adequately meeting the intent of design. The Architect/Engineer may reject manufacturer at time of shop drawing submittal. The Contractor assumes all costs incurred by other trades on the project as a result of changes necessary to accommodate the offered material, equipment or installation method.
- D. Should this Contractor be unable to secure approval from the Architect/Engineer for other unnamed manufacturers as outlined above, this Contractor may list voluntary add or deduct prices for alternate materials on the bid form. These items will not be used in determining the low bidder. Should a voluntary alternate material be accepted, This Contractor shall assume all costs that may be incurred as a result of using the offered material, article or equipment necessitating extra expense on This Contractor or on the part of other Contractors whose work is affected.

PART 2 - PRODUCTS

2.01 Refer to individual sections.

PART 3 - EXECUTION

3.01 JOBSITE SAFETY

- A. Neither the professional activities of the Architect/Engineer, nor the presence of the Architect/Engineer or the employees and subconsultants at a construction site, shall relieve the Contractor and any other entity of their obligations, duties and responsibilities including, but not limited to, construction means, methods, sequence, techniques or procedures necessary for performing, superintending or coordinating all portions of the work of construction in accordance with the contract documents and any health or safety precautions required by any regulatory agencies. The Architect/Engineer and personnel have no authority to exercise any control over any construction contractor or other entity or their employees in connection with their work or any health or safety precautions. The Contractor is solely responsible for jobsite safety. The Architect/Engineer and the Architect/Engineer's consultants shall be indemnified and shall be made additional insureds under the Contractor's general liability insurance policy.

3.02 GENERAL INSTALLATION REQUIREMENTS

- A. Installation of all conduit and cabling shall comply with Sections 26 05 33 and 26 05 13. Additional conduit requirements described within this Division shall be supplemental to the requirement described in Section 26 0533. Should conflicts exist between the two Divisions the more stringent (more expensive material and labor) condition shall prevail until bidding addendum or construction clarification or RFI can be submitted and responded to. In no case shall the Contractor carry the least stringent condition in the pricing.
- B. It is the Contractor's responsibility to survey the site and include all necessary costs to perform the installation as specified.

- C. The Contractor shall be responsible for identifying and reporting to the Architect/Engineer any existing conditions including but not limited to damage to walls, flooring, ceiling and furnishings prior to start of work. All damage to interior spaces caused by this Contractor shall be repaired at this Contractor's expense to pre-existing conditions, including final colors and finishes.
- D. All cables and devices installed in damp or wet locations, including any underground or underslab location, shall be listed as suitable for use in such environments. Follow manufacturer's recommended installation practices for installing cables and devices in damp or wet locations. Any cable or device that fails as a result of being installed in a damp or wet location shall be replaced at the Contractor's expense.

3.03 FIELD QUALITY CONTROL

- A. General:
 - 1. Refer to specific Division 28 sections for further requirements.
 - 2. The Contractor shall conduct all tests required and applicable to the work both during and after construction of the work.
 - 3. The necessary instruments and materials required to conduct or make the tests shall be supplied by the Contractor who shall also supply competent personnel for making the tests who has been schooled in the proper testing techniques.
 - 4. In the event the results obtained in the tests are not satisfactory, This Contractor shall make such adjustments, replacements and changes as are necessary and shall then repeat the test or tests which disclose faulty or defective work or equipment, and shall make such additional tests as the Architect/Engineer or code enforcing agency deems necessary.
- B. Protection of cable from foreign materials:
 - 1. It is the Contractor's responsibility to provide adequate physical protection to prevent foreign material application or contact with any cable type. Foreign material is defined as any material that would negatively impact the validity of the manufacturer's performance warranty. This includes, but is not limited, to overspray of paint (accidental or otherwise), drywall compound, or any other surface chemical, liquid or compound that could come in contact with the cable, cable jacket or cable termination components.
 - 2. Application of foreign materials of any kind on any cable, cable jacket or cable termination component will not be accepted. It shall be the Contractor's responsibility to replace any component containing overspray, in its entirety, at no additional cost to the project. Cleaning of the cables with harsh chemicals is not allowed. This requirement is regardless of the PASS/FAIL test results of the cable containing overspray. Should the manufacturer and warrantor of the structured cabling system desire to physically inspect the installed condition and certify the validity of the structured cabling system (via a signed and dated statement by an authorized representative of the structured cabling manufacturer), the Owner may, at their sole discretion, agree to accept said warranty in lieu of having the affected cables replaced. In the case of plenum cabling, in addition to the statement from the manufacturer, the Contractor shall also present to the Owner a letter from the local Authority Having Jurisdiction stating that they consider the plenum rating of the cable to be intact and acceptable.

3.04 PROJECT CLOSEOUT

- A. Refer to the Division 1 Section: PROJECT CLOSEOUT for requirements. The following paragraphs supplement the requirements of Division 1.
- B. Final Jobsite Observation:
 - 1. The Architect/Engineer will not perform a final jobsite observation until the project is ready. This is not dictated by schedule, but rather by completeness of the project.
 - 2. Refer to the end of Section 27 0500 for a "STATEMENT INDICATING READINESS FOR FINAL JOBSITE OBSERVATION."
 - 3. The Contractor shall sign this form and return it to the Architect/Engineer so that the final observation can commence.

- C. Before final payment will be authorized, this Contractor must have completed the following:
1. Submitted operation and maintenance manuals to the Architect/Engineer for review.
 2. Submitted bound copies of approved shop drawings.
 3. Record documents including edited drawings and specifications accurately reflecting field conditions, **inclusive** of all project revisions, change orders, and modifications.
 4. Submitted a report stating the instructions given to the Owner's representative complete with the number of hours spent in the instruction. The report shall bear the signature of an authorized agent of This Contractor and shall be signed by the Owner's representative as having received the instructions.
 5. Submitted testing reports for all systems requiring final testing as described herein.
 6. Submitted start-up reports on all equipment requiring a factory installation inspection and/or start.
 7. Provide spare parts, maintenance, and extra materials in quantities specified in individual specification sections. Deliver to the project site; submit receipt to Architect/Engineer prior to final payment being approved.

3.05 OPERATION AND MAINTENANCE MANUALS

- A. General:
1. Provide an electronic copy of the O&M manuals as described below for Architect/Engineer's review and approval. The electronic copy shall be corrected as required to address the Architect/Engineer's comments. Once corrected, electronic copies and paper copies shall be distributed as directed by the Architect/Engineer.
 2. Approved O&M manuals shall be completed and in the Owner's possession prior to Owner's acceptance and at least 10 days prior to instruction of operating personnel.
- B. Electronic Submittal Procedures:
1. Distribution: Email the O&M manual as attachments to all parties designated by the Architect/Engineer.
 2. Transmittals: Each submittal shall include an individual electronic letter of transmittal.
 3. Format: Electronic submittals shall be in PDF format only. Scanned copies, in PDF format, of paper originals are acceptable. Submittals that are not legible will be rejected. Do not set any permission restrictions on files; protected, locked, or secured documents will be rejected.
 4. File Names: Electronic submittal file names shall include the relevant specification section number followed by a description of the item submitted, as follows. Where possible, include the transmittal as the first page of the PDF instead of using multiple electronic files.
 - a. O&M file name: O&M.div28.contractor.YYYYMMDD
 - b. Transmittal file name: O&Mtransmittal.div28.contractor.YYYYMMDD
 5. File Size: Files shall be transmitted via a pre-approved method. Larger files may require an alternative transfer method, which shall also be pre-approved.
 6. Provide the Owner with an approved copy of the O&M manual on compact discs (CD), digital video discs (DVD), or flash drives with a permanently affixed label, printed with the title "Operation and Maintenance Instructions", title of the project and subject matter of disc/flash drive when multiple disc/flash drives are required.
 7. All text shall be searchable.
 8. Bookmarks shall be used, dividing information first by specification section, then systems, major equipment and finally individual items. All bookmark titles shall include the nomenclature used in the construction documents and shall be an active link to the first page of the section being referenced.

- C. Operation and Maintenance Instructions shall include:
1. Title Page: Include title page with project title, Architect, Engineer, Contractor, all subcontractors, and major equipment suppliers, with addresses, telephone numbers, website addresses, email addresses and point of contacts. Website URLs and email addresses shall be active links in the electronic submittal.
 2. Table of Contents: Include a table of contents describing specification section, systems, major equipment, and individual items.
 3. Copies of all final approved shop drawings and submittals. Include Architect's/Engineer's shop drawing review comments. Insert the individual shop drawing directly after the Operation and Maintenance information for the item(s) in the review form.
 4. Copy of final approved test and balance reports.
 5. Copies of all factory inspections and/or equipment startup reports.
 6. Copies of warranties.
 7. Schematic wiring diagrams of the equipment that have been updated for field conditions. Field wiring shall have label numbers to match drawings.
 8. Dimensional drawings of equipment.
 9. Capacities and utility consumption of equipment.
 10. Detailed parts lists with lists of suppliers.
 11. Operating procedures for each system.
 12. Maintenance schedule and procedures. Include a chart listing maintenance requirements and frequency.
 13. Repair procedures for major components.
 14. List of lubricants in all equipment and recommended frequency of lubrication.
 15. Instruction books, cards, and manuals furnished with the equipment.

3.06 INSTRUCTING THE OWNER'S REPRESENTATIVE

- A. Adequately instruct the Owner's designated representative or representatives in the maintenance, care, and operation of the complete systems installed under this contract.
- B. Provide verbal and written instructions to the Owner's representative or representatives by FACTORY PERSONNEL in the care, maintenance, and operation of the equipment and systems.
- C. The Owner has the option to make a video recording of all instructions. Coordinate schedule of instructions to facilitate this recording.
- D. Notify the Architect/Engineer of the time and place for the verbal instructions to be given to the Owner's representative so a representative can be present if desired.
- E. Refer to the individual specification sections for minimum hours of instruction time for each system.
- F. Operating Instructions:
 1. The Contractor is responsible for all instructions to the Owner and/or Owner's operating staff on the security systems.
 2. If the Contractor does not have Engineers and/or Technicians on staff that can adequately provide the required instructions on system operation, performance, troubleshooting, care and maintenance, the Contractor shall include in the bid an adequate amount to reimburse the Owner for the Architect/Engineer to perform these services.

3.07 SYSTEM STARTING AND ADJUSTING

- A. The security systems included in the construction documents are to be complete and operating systems. The Architect/Engineer will make periodic job site observations during the construction period. The system start-up, testing, configuration, and satisfactory system performance is the responsibility of the Contractor. This shall include all calibration and adjustments of electrical equipment controls, equipment settings, software configuration, troubleshooting and verification of software, and final adjustments that may be required.
- B. All operating conditions and control sequences shall be simulated and tested during the start-up period.
- C. The Contractor, subcontractors, and equipment suppliers are expected to have skilled technicians to ensure that the system performs as designed. If the Architect/Engineer is requested to visit the job site for the purpose of trouble shooting, assisting in the satisfactory start-up, obtaining satisfactory equipment operation, resolving installation and/or workmanship problems, equipment substitution issues or unsatisfactory system performance, including call backs during the warranty period through no fault of the design; the Contractor shall reimburse the Owner on a time and material basis for services rendered at the Architect/Engineer's standard hourly rates in effect at the time the services are requested. The Contractor shall be responsible for making payment to the Owner for services required that are product, installation or workmanship related. Payment is due within 30 days after services are rendered.

3.08 RECORD DOCUMENTS

- A. Refer to the Division 1 Section: PROJECT CLOSEOUT for requirements. The following paragraphs supplement the requirements of Division 1.
- B. Mark specifications to indicate approved substitutions, change orders, and actual equipment and materials used.
- C. This Contractor shall maintain at the job site, a separate and complete set of Security Drawings which shall be clearly and permanently marked and noted in complete detail any changes made to the location and arrangement of equipment or made to the Technology Systems and wiring as a result of building construction conditions or as a result of instructions from the Architect or Engineer. All Change Orders, RFI responses, Clarifications and other supplemental instructions shall be marked on the documents. Record documents that merely reference the existence of the above items are not acceptable. Should This Contractor fail to complete Record Documents as required by this contract, This Contractor shall reimburse Architect/Engineer for all costs to develop record documents that comply with this requirement. Reimbursement shall be made at the Architect/Engineer's hourly rates in effect at the time of work.
- D. Record actual routing of all conduits sized 2" or larger.
- E. The above record of changes shall be made available for the Architect and Engineer's examination during any regular work time.
- F. Upon completion of the job, and before final payment is made, This Contractor shall give the marked-up drawings to the Architect/Engineer.

3.09 ADJUST AND CLEAN

- A. Contractor shall thoroughly clean all equipment and systems prior to the Owner's final acceptance of the project.
- B. Contractor shall clean all foreign paint, grease, oil, dirt, labels, stickers, and other foreign material from equipment.
- C. Contractor shall remove all rubbish, debris, etc., accumulated during the Contractor's operations from the premises.

END OF SECTION

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SECTION 28 2300
VIDEO SURVEILLANCE

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Network Video Management System (NVMS).
- B. Video Storage Solution
- C. Cameras and Accessories.
- D. Cabling.

1.02 RELATED WORK

- A. Section 26 0533 - Conduit and Boxes
- B. Section 26 0513 - Wire and Cable
- C. Section 27 1500 - Horizontal Cabling Requirements
- D. Section 28 0500 - Basic Electronic Safety and Security System Requirements
- E. Section 28 3100 - Fire Detection and Alarm Systems

1.03 QUALITY ASSURANCE

- A. NVMS Software Developer (Manufacturer): The NVMS system shall be a single-source manufacturer such that the single manufacturer develops, supports, and warranties the NVMS software solution.
- B. Integrator/Installer (Contractor): The Contractor must be a NVMS-certified installation, service, and support company specializing in the selected manufacturer's product, with demonstrated prior experience with the selected manufacturer's system installation and programming.

1.04 REFERENCES

- A. NFPA 70 - National Electrical Code
- B. Electronic Industries Association (EIA) Video Surveillance Equipment Standards
- C. UL 2044 - Standard for Commercial Closed Circuit Television Equipment
- D. UL 3044 - Standard for Safety for Surveillance Closed Circuit Television Equipment

1.05 SUBMITTALS

- A. Submit shop drawings and product data under provisions of Section 28 0500.
- B. Product Data Submittal: Provide manufacturer's technical product specification sheet for each individual component type. Submitted data shall show the following:
 - 1. Compliance with each requirement of these documents.
 - 2. All component options and accessories specific to this project.
 - 3. Electrical power consumption rating and voltage.
 - 4. Heat generation for all power consuming devices.
 - 5. All required wiring shall be identified.
 - 6. Number of IP addresses that will be required from the Owner's Information Systems Department.
 - 7. Statement of Acceptability of Designed Server:
 - a. If the Contractor agrees that the server(s) designed and described herein is acceptable for the chosen manufacturer's solution and meets the demand of the application, this shall be stated in writing and submitted as part of the shop drawing submittal.
 - b. If the Contractor does not agree that the server(s) designed and described herein is acceptable for the chosen manufacturer's solution, Contractor shall itemize the quantity, technical specifications, and capacities of the servers required to support the functionality

and device quantities required by the project drawings. Indicate the capacity utilization factor for each server.

c. Contractor's bid shall include any required changes in server(s) capacity.

8. Calculation for storage required using the criteria contained in the project drawings.
9. Calculation for required network bandwidth, including any latency restrictions.
10. Provide annual cost and all terms and conditions for the NVMS Software Maintenance Agreement. Include all additional costs and terms and conditions for any Annual Service Contracts provided by the Contractor for all services that are not included in the Software Maintenance Agreement.

C. System Drawings: Project-specific system CAD drawings shall be provided as follows:

1. Provide a system block diagram noting system components and interconnection between components. The interconnection of components shall clearly indicate all wiring required in the system. When multiple pieces of equipment are required in the exact same configuration (e.g., multiple identical cameras), the diagram may show one device and refer to the others as "typical" of the device shown.

D. Sample format of site specific programming guides to be used for system planning/programming conference with Owner.

E. Meeting agenda for planning/programming conference required in Part 3 of this specification.

F. Submit detailed description of Owner training to be conducted at project end, including specific training time.

G. Quality Assurance:

1. Provide materials documenting experience requirements of the manufacturer and installing contractor.
2. Provide system checkout test procedure to be performed at acceptance. Test procedures shall include all external alarm events.

H. Coordination Drawings:

1. Include all ceiling-mounted devices in composite electronic coordination files. Refer to Section 28 0500 for coordination drawing requirements.

1.06 SYSTEM DESCRIPTION

A. This specification section describes the furnishing, installation, commissioning and programming of a complete, turnkey, closed circuit television system.

B. All of the project's structured cabling is being provided and installed by BP-07 contractor and is not part of this scope of work.

C. The system shall integrate into the Owner's existing video surveillance system for monitoring and maintenance.

D. Performance Statement: This specification section and the accompanying project drawings are performance based, describing the minimum material quality, required features, and operational requirements of the system. These documents do not convey every wire that must be installed and every equipment connection that must be made. Based on the equipment constraints described and the performance required of the system as presented in these documents, the vendor and the Contractor are solely responsible for determining all wiring, programming and miscellaneous equipment required for a complete and operational system.

E. Refer to the project drawings for model numbers for the Basis of Design for all equipment.

1.07 LICENSING REQUIREMENTS

- A. All licenses required for system operation shall be included in the Contractor's bid. Licenses shall include, but not be limited to, server and workstation software, cameras, encoders/decoders, and any other licensing that is required by the manufacturer for operation of any system component.
 - 1. Camera licenses shall be provided for all cameras listed on the drawings.
 - 2. The Contractor shall fill out the NVMS Bid Inventory Form located herein and provide at the time of bid.

1.08 PROJECT RECORD DOCUMENTS

- A. Submit documents under the provisions of Section 28 0500.
- B. Provide final system block diagram showing any deviations from shop drawing submittal.
- C. Provide statement that system checkout test, as outlined in shop drawing submittal, is complete and satisfactory.
- D. Provide final camera type and camera requirements schedules documenting all changes made during construction.
- E. Warranty: Submit written warranty and complete all Owner registration forms.
- F. Complete all operation and maintenance manuals as described below.

1.09 OPERATION AND MAINTENANCE DATA

- A. Submit documents under the provisions of Section 28 0500.
- B. Manuals: Final copies of the manuals shall be delivered within 14 days after completing the installation test. Each manual's contents shall be identified on the cover. The manual shall include names, addresses, and telephone numbers of the contractor responsible for the installation and maintenance of the system and the manufacturer for each piece of equipment for each system. The manuals shall have a table of contents and labeled sections. The final copies delivered after completion of the installation test shall include all modifications made during installation, checkout, and acceptance testing. The manuals shall consist of the following:
 - 1. Hardware Manual: The manual shall describe all equipment furnished including:
 - a. General description and specifications.
 - b. Installation and check out procedures.
 - c. System layout drawings and schematics.
 - d. Alignment and calibration procedures.
 - 2. Software Manual: The software manual shall describe the functions of all software and shall include all other information necessary to enable proper installation, testing, and operation. The manual shall include:
 - a. Definition of terms and functions.
 - b. System use and application software.
 - c. Graphical user interface use.
 - d. Reports generation.
 - 3. Operator's Manual: The operator's manual shall fully explain all procedures and instructions for the operation of the system including:
 - a. Computers and peripherals.
 - b. System startup and shutdown procedures.
 - c. Use of system.
 - d. Recovery and restart procedures.
 - e. Use of report generator and generation of reports.
 - f. Data entry.

- g. Operator commands.
 - h. Alarm messages.
 - i. System permissions functions and requirements.
4. Maintenance Manual: The maintenance manual shall include descriptions of maintenance for all equipment including inspection, periodic preventive maintenance, fault diagnosis, and repair or replacement of defective components.

1.10 WARRANTY

- A. Unless otherwise noted, provide warranty for one (1) year after Date of Substantial Completion for all materials and labor.
- B. Onsite Work During Warranty Period: This work shall be included in the Contractor's bid and performed during regular working hours, Monday through Friday.
 - 1. Inspections: Perform one minor inspection six-months after Substantial Completion and one major inspection prior to the expiration of the warranty.
 - 2. Minor Inspections: Inspections shall include:
 - a. Visual checks and operational tests of all equipment, field hardware, and electrical and mechanical controls.
 - b. Mechanical adjustments if required on any mechanical or electromechanical devices.
 - c. Install all available software updates, patches, or bug fixes available from the NVMS manufacturer.
 - 3. Major Inspections: Inspections shall include all work described under paragraph Minor Inspections and the following work:
 - a. Clean all equipment, including interior and exterior surfaces.
 - b. Perform diagnostics on all equipment, including all system software diagnostics, and correct all diagnosed problems.
 - c. Adjust all camera alignments that have become out of alignment from their documented position at Substantial Completion.
 - d. Install all available software updates, patches, or bug fixes available from the NVMS manufacturer.
 - e. All warrantable system deficiencies during the Major Inspection shall be remedied under warranty at no cost to the Owner.
- C. Operation: Upon the performance of any scheduled adjustments or repairs, verify operation of the NVMS system.
- D. Emergency Service: The Owner will initiate service calls when the NVMS system is not functioning properly. Qualified personnel shall be available to provide service within the distance defined above. The Owner shall be furnished with telephone number(s) where service personnel can be reached 24/7/365.
- E. Records and Logs: Keep records and logs of each task completed under warranty. The log shall contain all initial settings upon Substantial Completion. Complete logs shall be kept and shall be available for review on site, demonstrating that planned and systematic adjustments and repairs have been accomplished for the NVMS system.
- F. Work Requests: Record each service call request on a service request form. The form shall include the model and serial number identifying the component involved, its location, date and time the call was received, specific nature of trouble, names of service personnel assigned to the task, instructions describing what must be done, the amount and nature of the materials used, the time and date work started, and the time and date of completion. Deliver a record of the work performed within five (5) days after work is accomplished.

- G. System Modifications: Make any recommendations for system modification in writing to the Owner. No system modifications shall be made without prior approval of the Owner. Any modifications made to the system shall be incorporated into the operations and maintenance manuals, and other documentation affected. To the fullest extent possible, the Owner shall be provided with electronic restorable versions of all configurations prior to the modifications being made.
 - H. Software: Provide all software updates during the period of the warranty and verify operation in the system. These updates shall be accomplished in a timely manner, fully coordinated with NVMS system operators, shall include training for the new changes/features enabled, and shall be incorporated into the operations and maintenance manuals, and software documentation.
 - I. Refer to the individual product sections for further warranty requirements of individual system components.
- 1.11 SOFTWARE MAINTENANCE AGREEMENT/ANNUAL SERVICE CONTRACT**
- A. Provide annual cost and all terms and conditions for the Software Maintenance Agreement (SMA) provided by the NVMS manufacturer and/or the Contractor.
 - B. The Owner will enter into a contract directly with the vendor. This specification is not a contract between the Owner and the vendor to perform these services. The cost and terms of the SMA **may** be used by the Owner for NVMS solution selection.

PART 2 - PRODUCTS

2.01 NETWORK VIDEO MANAGEMENT SYSTEM - GENERAL REQUIREMENTS

- A. The network video management system (NVMS) shall be an enterprise-class client/server-based video security solution that provides management of digital video, audio and data across a TCP/IP network.
- B. Provide a turnkey solution that includes furnishing, installation, and configuration of a separate IP network, complete with all required network electronics, switches, and other hardware.
- C. ONVIF Compliance:
 - 1. The NVMS system shall be ONVIF certified as an ONVIF Network Video Client.
 - 2. Cameras shall be ONVIF certified as an ONVIF Network Transmitter unless specifically noted as an exception to this requirement in the project drawings.
- D. The NVMS system shall be an "open system."
 - 1. To meet this requirement, the NVMS must directly support cameras from a minimum of three (3) readily available camera manufacturers.
 - 2. The three (3) camera manufacturers must have no corporate relationship to the NVMS manufacturer.
 - 3. "Directly support" shall be defined as plug-n-play using drivers that are commercially available at the time of bid that utilize the ONVIF specification as the means of integration.
 - 4. In addition to the requirement to support three (3) independent manufacturer's cameras, the NVMS may support an unlimited additional quantity of in-house or other proprietary cameras.
 - 5. The open system shall not require proprietary storage solutions. It shall support third party storage solutions, including:
 - a. Commercially available Direct Attached Storage (DAS) devices.
 - b. Network Attached Storage (NAS) devices.
 - c. Storage Area Networks (SAN) for **primary** or archival storage purposes. Primary support for SAN shall be defined as:
 - 1) The ability to directly record to SAN device without first recording to an NAS or DAS.
 - 2) The NVMS is provided with a user experience that makes the video recorded to the SAN transparent to the user. This shall be defined as:
 - a) Full search, bookmarking, and other software features for finding, marking, locating, and identifying video are supported by the NVMS for video recorded to a SAN in an identical way to video that is recorded to an NAS or DAS.

- b) No loading of the video from the SAN into the NVMS shall be required.
 - c) Full playback, windowing of camera video, archiving, and exporting is supported by the NVMS for video recorded to the SAN in an identical way as video recorded to an NAS or DAS.
6. The system must have a published API/SDK permitting third party integrations to the product without restrictions.
7. The NVMS shall support active directory using LDAP protocol.
- E. The NVMS system shall consist of the following hardware/software components:
- 1. Software:
 - a. Server and client
 - b. Recording services, archival services, and storage management
 - c. Configuration tools
 - 2. System storage as specified on the project drawings.
 - 3. Cameras and related hardware as specified on the project drawings.
 - 4. Hardware: Servers, workstations, and miscellaneous hardware (keyboard, mouse, KVM) as specified on the projects drawings.
 - 5. Network electronics and related hardware and software as specified on the project drawings.
- F. Video from any camera on the system (on the LAN, WAN or Internet) shall be capable of being viewed from single or multiple workstations simultaneously at any time, limited only by network bandwidth.
- G. The NVMS shall support simultaneous displaying of live (30 fps) video of a minimum of 16 cameras while the video monitoring screen is configured in a 16-camera split configuration. In no case shall the frame rate of the camera be required to be restricted to less than 30 fps to display a 16-camera split view.
- H. Simultaneous display and recording of every camera shall be supported with independent user-adjustable frame rates that can be set differently for the display stream and the recording stream. These independent settings shall be unique per camera.
- I. The NVMS monitoring software shall support any combination of recorded and live video in any multiple camera split view, including viewing recorded video and live video from the same camera.
- J. The NVMS shall support continuous recording and event-based recording simultaneously. This shall be capable of being set on a per camera basis.
- K. Viewing of video (live and recorded) shall be possible from client software from any client hardware that is connected to the security LAN/WAN or Internet (through appropriate firewalls). In addition, system administration shall be permitted from remote client hardware.

2.02 NVMS MANUFACTURERS

- A. Basis of Design:
- 1. Pelco
 - 2. Hanwha
 - 3. AXIS
 - 4. Genetec
 - 5. Preapproved Equal

2.03 NVMS SERVER REQUIREMENTS

- A. The server shall communicate on a TCP/IP based Ethernet LAN capable of utilizing 100/1000BaseT.
- B. The server shall be provided by the NVMS system vendor.

C. The server(s) requirements have been calculated based on the NVMS Basis of Design manufacturer noted above. By submitting a bid, the Contractor acknowledges that the calculated server requirements listed here may not be sufficient for a listed alternate, acceptable manufacturer selected by the Contractor. The Contractor shall modify the calculated server requirements listed herein based on the calculated requirement of the chosen manufacturer. The server requirements for the basis of design are as follows:

1. Server Quantity and Location: Refer to project drawings for quantity of servers required and their location.

D. All licensing shall be included in the Contractor's bid.

2.04 NVMS SYSTEM DETAILED REQUIREMENTS

A. Network Requirements: The NVMS shall support Ethernet 10/100 BaseT and Gigabit Ethernet.

1. Network protocols shall be supported including TCP/IP, IPX, and UDP.
2. The network interface shall allow remote access of the NVMS from anywhere on the end-user's LAN/WAN or Internet (behind firewall).
3. The system shall permit limiting of frame rate transmission to individual clients.
4. Both Multicast and Unicast shall be supported.
5. All transmission of system data shall be secured using Secure Socket Layer (SSL) security on the TCP/IP network.
6. Simple Network Management Protocol (SNMP) shall be supported.

B. Video Formats:

1. The NVMS shall support MJPEG, JPEG2000, MPEG-4, H.264 and H.265 compression formats.
2. The system shall support any single stream of bandwidth up to 90Mbit/sec at 30 fps at 4872 x 3248 resolution with no system performance degradation, assuming appropriate network bandwidth.
3. Video shall be recorded using a 256-bit encryption algorithm with authentication (watermarking) software suitable for evidentiary proceedings. The watermarking feature shall provide evidence of altered video.
 - a. The video shall be watermarked with the authentication key/signature during recording of live video to the drive.
 - b. A video player shall be provided with the NVMS system.
 - 1) The player shall have the ability to validate the authentication upon playback.
 - 2) This authentication shall provide the storage media name, camera name, video time, and user information.
 - 3) The authentication shall have the ability to be password protected.
4. Resolution:
 - a. The camera resolution shall be user selectable on a per-camera basis. Selecting or changing resolution shall not require a restart of the application, server, or workstation.
 - b. The system shall support the following resolutions:
 - 1) Megapixel Resolutions: SXGA (1280 x 1024: 1.3MP), SXGA + EXGA (1400 x 1050: 1.4 MP), UXGA (1600 x 1200: 1.9MP), WUXGA (1920 x 1200: 2.3MP), QXGA (2048 x 1536: 3.1MP), WQXGA (2560 x 1600: 4.1MP), QSXGA (2560 x 2048: 5.2MP), 3296 x 2472: 8MP, 4000 x 2672: 11MP, 4864 x 3248: 16MP, 6576 x 4384: 29MP.
 - a) 16:9 and 4:3 formats shall be supported.
 - 2) HDTV Resolutions: 720p, 1080(i/p) in 16:9 format.

C. Workstation Client Software Requirements:

1. The client software for the NVMS shall run as an application on Windows 7, 10, or 11 64-bit. The client software shall not require a PC more robust than that defined above in the section entitled

"NVMS CLIENT REQUIREMENTS." Should the workstation client software require a PC configuration more robust than that defined herein, the cost of upgrading the workstation hardware to the more robust requirement shall be paid by the Contractor.

2. The client software shall provide video signal detection and provide alerts whenever video is lost on any input channel.
3. Updates to the client software shall be capable of being pushed to all clients from the NVMS server.
4. The client software shall provide a graphical mapping feature. The graphical map shall accommodate the importation of CAD files, or custom development of floor plans or site plans to create a to-scale or not-to-scale graphical representation of the system layout including all cameras.
 - a. Cameras located on the graphical map shall be "live," which is defined as the ability to click the camera in the graphical user interface (GUI) to see camera information and live video. The camera name shall be available to the user via a "mouse hovering" maneuver over the camera icon.
 - b. For site cameras, the graphical map shall consist of an overall site plan showing all exterior cameras. Buildings and other physical entities on the site shall be graphically represented.
 - 1) The buildings shown on the site plan shall visually indicate to the user that cameras are located inside that building's interior, if applicable.
 - c. The user shall be able to click a building that contains cameras to obtain a new graphical layout of that building. Once the building interior layout graphical map is on screen, interior cameras shall be represented by icons.
 - d. The user shall have the ability to navigate back to the main (previous) graphical map via a single-click graphical icon.
5. Camera Configuration:
 - a. Each camera shall be configurable for a 32-alphanumeric character name.
 - b. The system shall allow for the setup and adjustment of brightness, contrast, archiving, motion detection, and Pan/Tilt/Zoom on a per camera basis.
 - c. The NVMS shall support a separate frame rate for recording and a separate frame rate for viewing for every camera input (assuming the camera provides two streams). These frame rates shall be capable of being independently set for each camera input.
 - d. The NVMS shall support the PTZ control of analog NVMS cameras through the encoders.
 - e. The compression algorithm formats MJPEG and MPEG4 shall be supported in the same system and shall be individually selectable on a per-camera basis.
 - f. Each individual camera shall be capable of having individual camera settings that shall include (at a minimum):
 - 1) Continuous recording.
 - 2) Motion-based recording capability shall be provided including:
 - a) Motion as determined by the NVMS software using:
 - b) Motion as determined at the camera.
 - c) Motion trigger by digital inputs from external trigger systems such as contact closures, alarm inputs, POS integration, etc.
 - d) Motion triggers received by external trigger inputs shall be recorded by the event recording capabilities of the NVMS and identifiable on a timeline during playback and in reports.

- 3) Alarm-initiated recording.
 - a) When a camera enters alarm recording mode, the NVMS shall have the capability of changing to different camera settings for the recorded video during the duration of the alarm mode. The settings capable of being changed shall include the frame rate and the resolution. These setting changes shall be configurable in advance per camera by the User through the software GUI.
 - 4) Time-based recording on a preset schedule.
 - 5) Manual (user) activation of the start and stop of the recording process through the GUI.
 - a) The NVMS software shall prevent any user from manually starting and stopping the recording of video based on that user's login credential.
 - 6) Defined pre-event and post-event recording buffers shall be provided for all non-continuous recording events.
 - 7) Each camera shall be capable of having unique storage retention settings.
 - g. The NVMS shall support unidirectional audio recording utilizing the built-in audio recording capability of audio-equipped IP cameras.
- D. Pan/Tilt/Zoom (PTZ) Control:
1. The NVMS shall support PTZ control from any client, including remote and mobile clients.
 2. The following PTZ features shall be supported:
 - a. Priority Levels
 - b. Device Group Control
 - c. PTZ Override (Lockout)
 - d. Proportional PTZ Control
 - e. Preset Lock via video screen
 - f. Preset Tour
- E. Video Archiving:
1. The archiving feature shall be hardware independent, providing the ability to utilize commercial off-the-shelf mass storage devices as archived video destinations, including optical DVD, DAS, NAS, SAN, and other external storage drives.
 2. The archiving software shall provide the ability to manage and store video information from multiple recorded video locations to a central location.
 3. Each NVMS server shall have the ability to set its own unique archiving settings. Video shall automatically be archived based on user-defined "percentage full" settings. When the NVMS reaches the designated capacity threshold, video shall be automatically copied to the archive storage destination, and space on the source of the recorded video shall be released for overwrite by new video information using a first-in, first-out algorithm.
 - a. Exception: Video marked or tagged by the user or by automated alarm inputs shall be retained by the archiving process despite its location in the first-in, first-out timeline.
 4. Regardless of the video's storage location (local or in the archive), the NVMS software shall automatically retrieve video associated with an event on demand by the user in response to a search, browse, or other retrieval action. The actual storage location of the video shall be transparent to the user.
 - a. Exception: Video archived to removable media (e.g., removable hard drives or optical DVD) shall require prompting to the user to insert the appropriate media.
 5. Archiving shall be capable of being scheduled such that archiving will only run during certain hours defined by the Owner.

6. The NVMS solution shall be permitted to utilize advanced algorithms for managing onboard storage such as reducing the frame rate of recorded video for the oldest video as an alternative to completely removing the video using a first-in, first-out algorithm. If this option exists in the NVMS software, it must have the following features:
 - a. Ability of the Owner to completely disable the feature.
 - b. Ability to set a minimum frame rate that the system will not exceed.
 - c. Ability to set the feature on a per-camera basis.
- F. The NVMS shall provide up to 10 different and independent programmable recording schedules.
 1. The schedules may be programmed to provide different record frame rates for day, night, and weekend periods, as well as holidays and exception days.
 2. Advanced task schedules may also be programmed that could specify allowed log-on times for user groups, when events may trigger alarms, and when data backups and archiving should occur.
- G. The VMS shall support Dual Authorization logon. It shall function as follows:
 1. Dual Authorization user groups may be created.
 2. Logon pairs, consisting of any two normal user groups, may be assigned to each Dual Authorization user group.
 3. A separate set of privileges and priorities can be assigned for each Dual Authorization user group.
 4. For each user group assigned as part of a logon pair, it shall be configurable whether the group can:
 - a. Log on either individually or as part of the logon pair.
 - b. Log on only as part of the logon pair.
 5. If a user that is part of logon pair logs on individually, then the user shall receive the privileges and priorities of the user's assigned user group. If the same user logs in as part of a logon pair, then the user shall receive the privileges and priorities assigned to the Dual Authorization group to which the pair is assigned.
- H. The NVMS shall auto-discover cameras and encoders. Device detection shall support devices in different subnets.
- I. The NVMS shall be designed in such a way that server downtime or loss of communication to the server does not affect the functionality of the recording services. Normal recording and motion recording shall continue during server downtime.,

2.05 NVMS RECORDING REQUIREMENTS

- A. The NVMS shall provide management of the recording and playback of video, audio, and data (bookmarking, alarm data, etc.).
- B. Project drawings show NVR for coordination purposes and is for reference only. The listed information below shall be used for final sizing of storage:
 1. Total distributed storage requirements shall be determined based on a minimum of 30 days storage retention.
 2. Cameras shall be assumed to be recording at 24 fps, 24 hours per day, 7 days per week, 365 days per year.
 3. Compression shall be permitted to be used in the storage calculation. The compression algorithm (MPEG-4, H.264, etc.) shall be used on a per-camera basis. If the NVMS permits variable levels of compression intensity, the use of the "average" or "medium" level setting shall be used in the storage calculation unless otherwise noted.
 4. The Contractor shall provide the complete storage analysis and calculation as a shop drawing.

- C. Network Video Recorder (NVR) Hardware Platform:
1. The NVR shall be defined as a storage device for recording IP video streams from IP cameras or from analog cameras that have been encoded to IP. In both cases, the NVR shall record IP streams from cameras or encoders located anywhere on the IP network without being direct-cable connected to the NVR.
 2. Refer to the project drawings for specific requirements, model numbers, and basis of design for the NVR.
 3. NVR Configuration:
 - a. The NVR shall contain one hard drive for the operating system and software, and all hard drive storage required to achieve the required storage retention.
 - b. Provide with RAID 5 hard disk controller configuration for the video storage hard drives.
 4. The NVMS shall provide a failover function where an NVR can be assigned as a backup to other NVRs. When an assigned NVR goes out of service, the failover NVR takes over the responsibilities of the failed NVR. When the primary NVR returns to service, the control shall be automatically transferred back to the primary NVR.
 5. It shall be possible to assign a redundant NVR to every NVR for use in normal operation of all NVR(s) in the system. The redundant NVR shall record the same streams as the primary NVR. The redundant NVR shall have its own disk drives where it shall store the recorded data.

2.06 NVMS CABLING

- A. Refer to BP-07 Division 27 specifications section for cabling being provided by BP-07 contractor.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Comply with the manufacturer's instructions and recommendations for installation of all products.
- B. Provide all system wiring between all components as shown on the project drawings or as directed by the manufacturer, whichever is the more stringent requirement.
- C. Mount all cameras in the approximate locations shown on the drawings. Coordinate installation with other trades and utilities in the vicinity. Cameras containing fixed lenses, moved by more than 1'-0" from their location shown on the drawings, shall have a new lens calculation performed by the Contractor. Provide Architect/Engineer with results of lens calculation before proceeding with installation.
- D. Coordinate with Owner's IT Department to acquire network connections as well as any network configuration information, such as IP numbers, that will be required to connect NVMS to Owner network (if applicable).
- E. Provide all low voltage and +120 VAC power to all devices as required for proper system operation. Refer to Sections 26 05 33 and 26 05 13 for further requirements.
- F. Cabling shall be plenum rated when installed outside of conduit in plenum ceilings.

3.02 FIELD QUALITY CONTROL

- A. Where these specifications require a product or assembly without the use of a brand or trade name, provide a product that meets the requirements of the specifications as supplied and warranted by the system vendor. If the product or assembly is not available from the system vendor, provide product or assembly as recommended by the system vendor.
- B. Periodic observations will be performed during construction to verify compliance with the requirements of the specifications. These services do not relieve the Contractor of responsibility for compliance with the project drawings.
- C. It shall be the Contractor's responsibility to correct all inadequate picture quality issues prior to acceptance of the system.

3.03 MANUFACTURER'S FIELD SERVICES

- A. Installation shall be performed by a factory-trained and certified Contractor.
 - 1. Provide a comprehensive, site-specific customer planning guide for the system. Conduct a conference with the Owner prior to any installation to discuss the programming options of the system and the planning guide. The result of this planning guide shall be the determination of the system options for each device and for the software.
- B. Include labor for all planning and all programming activities required to implement the Owner's operational preferences for each device and software. Any software programmable option, within the bounds of the capabilities of the hardware specified, shall be included.
- C. Provide a complete, functional system as described by the project drawings. These responsibilities include:
 - 1. Complete hardware setup, installation, wiring, and software configuration of the system, including all remote operator locations and all peripheral hardware.
 - 2. Complete programming of all hardware and software options in accordance with the Owner's preferences as determined by the planning guide conference.
 - 3. Programming of all custom graphic GUI screens including devices.
 - 4. Complete system diagnostic verification.
- D. Provide an authorized manufacturer representative to commission the system and ensure that facility-wide standards and project setup procedures are adhered to.

3.04 SYSTEM ACCEPTANCE

- A. Submit for review a formal acceptance and system checkout program. The system checkout procedures shall include all system components and software. Perform the tests and document all results under the supervision of the manufacturer's system engineer.
- B. All operational scenarios, as defined by the customer planning guide, shall be tested to simulate the actual use of the system in the normal operating environment. The successful completion of these operational scenarios shall be documented.

3.05 SYSTEM DOCUMENTATION

- A. Complete documentation shall be provided for the system. The documentation shall describe:
 - 1. All operational parameters of the system.
 - 2. Complete documentation of all programming and options.
 - 3. Complete operating instructions for all hardware and software.
- B. The following sections shall be provided in the system documentation:
 - 1. System Administrator Manual: Provides an overview and a step-by-step guide and instructions detailing all system administrator responsibilities and functions.
 - 2. User Manual: A step-by-step guide and instructions detailing all system user functions.
 - 3. Technical Maintenance Manual: A comprehensive document providing all maintenance actions, system testing schedules, troubleshooting flowcharts, functional system layout, wiring diagrams, block diagrams, and schematic diagrams.

3.06 SYSTEM TRAINING

- A. All labor and materials required for on-site system training by a certified representative of the system manufacturer shall be provided. Training shall be conducted at the project site using the project equipment.
- B. Provide two weeks advanced notice of training to the Owner.
- C. Provide a training outline agenda describing the subject matter and the recommended audience for each topic.

- D. At a minimum, the following training shall be conducted:
1. System Administrators: A course detailing the system functions and operations. Provide configuration training on all aspects of the system.
 2. Users: Provide a detailed course outlining the operational features of all aspects of the user interface. Topics shall include alarm monitoring functions, reports, error handling, alarm handling, output relay control, and general overview of the report hardware.
 3. GUI Editing: Conduct detailed training on using the GUI editing software. Topics shall include the editing of existing graphical maps and the creation of new graphical maps.
- E. Minimum on-site training times shall be:
1. System Administrators: Three (3) days.
 2. Users: One (1) day.
 3. GUI Editing: One (1) day.

NVMS Bid Inventory Form

Item	Cost/Other
Total fixed (lump sum cost) for the entire project:	
Itemize the total fixed lump sum cost as follows: Software cost for NVMS including all implementation services. Cost for all camera hardware and associated accessories.	
Itemize software cost for the following (show the math): Fixed, non-reoccurring flat base cost (if any) Fixed, non-reoccurring per-camera licensing fee (if any) Recurring flat base cost (if any - do NOT include optional software maintenance agreement costs) Recurring flat per-camera licensing fee (if any) Client workstation licensing fees (if any) Remote Client licensing fees (if any) Mobile Client licensing fees (if any) Itemize all other license fees not included above.	
Add all required and optional software maintenance agreement costs (do NOT include in bid cost).	
Acknowledge receipt of addenda by writing addendum number to the right.	_____ through _____ inclusive

Include below Server Acknowledgement Statement per Section 28 2300, Article 2.3, Paragraph D.

List below all separate software options, licensing or other monetary features that the Integrator interprets as not being requested by this RFP, but that are available from the NVMS manufacturer for purchase. Attach separate document if needed.

END OF SECTION

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ELECTRICAL SYMBOL LIST	
SYMBOL	DESCRIPTION
W	WIRE GUARD (REQUIRED)
A	ALARM
C	CONTROL
D	DIAGNOSTIC
I	INTERLOCK
M	MANUAL
R	RELAY
S	SENSOR
T	TRANSFORMER
V	VOLTS
W	WIRE GUARD (REQUIRED)
X	EXHAUST
Y	YIELD
Z	ZONE
AA	ALARM
AB	ALARM
AC	ALARM
AD	ALARM
AE	ALARM
AF	ALARM
AG	ALARM
AH	ALARM
AI	ALARM
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BID SET
 02/06/2025

STATE OF TEXAS DEPARTMENT
 OF CORRECTIONS

**CLARINDA
 CORRECTIONAL
 FACILITY - KITCHEN &
 LAUNDRY ADDITION**

2000 N. 87TH ST., CLARINDA, TX
 75842

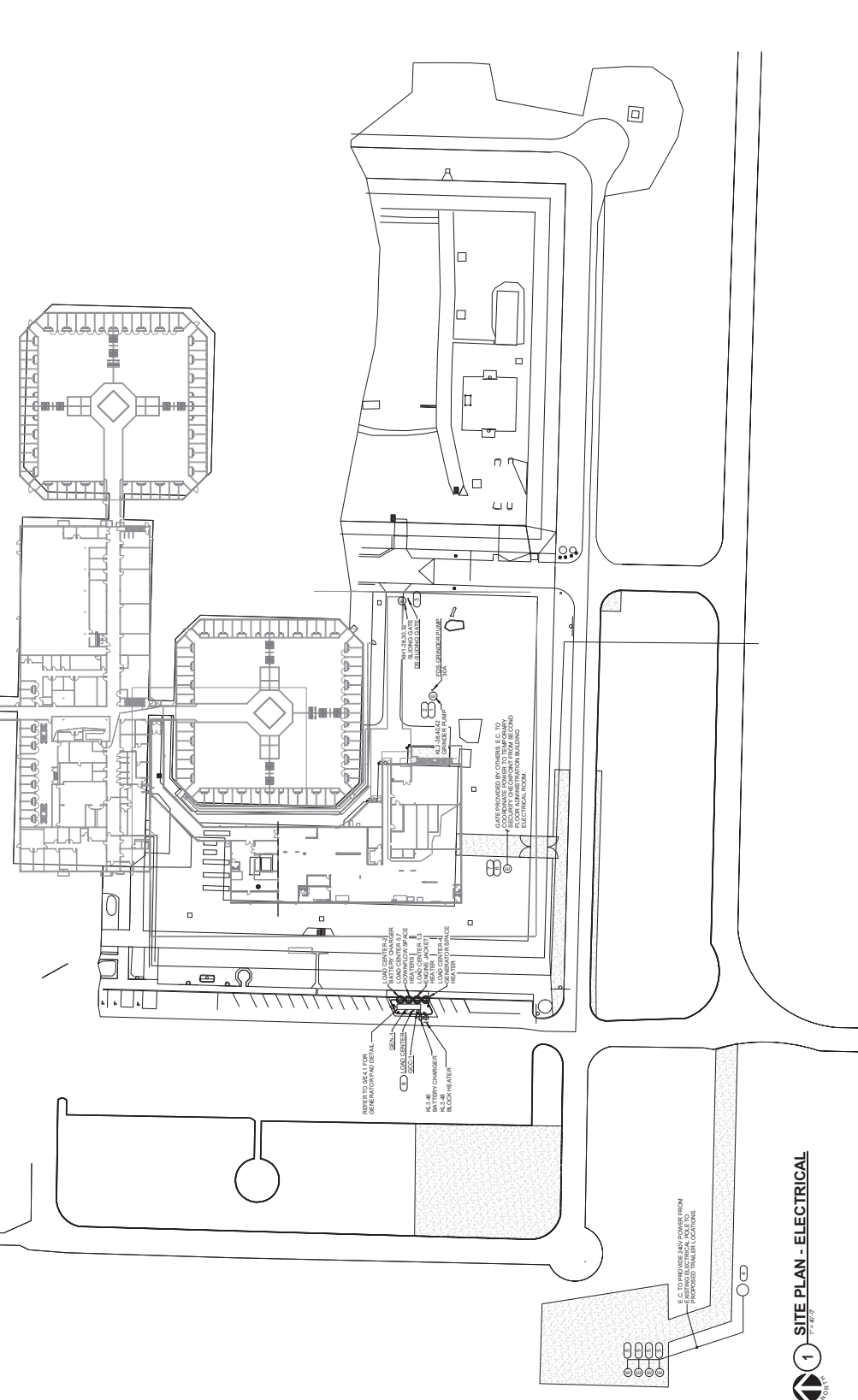
DATE: 02/06/2024
 DESIGNED: KRISPI
 DRAWN: ADOLAR
 REVIEWED: ISASTO

**SITE PLAN -
 ELECTRICAL**

E0.2

PROJECT NO.: 0240202-04
 #B1622300-04

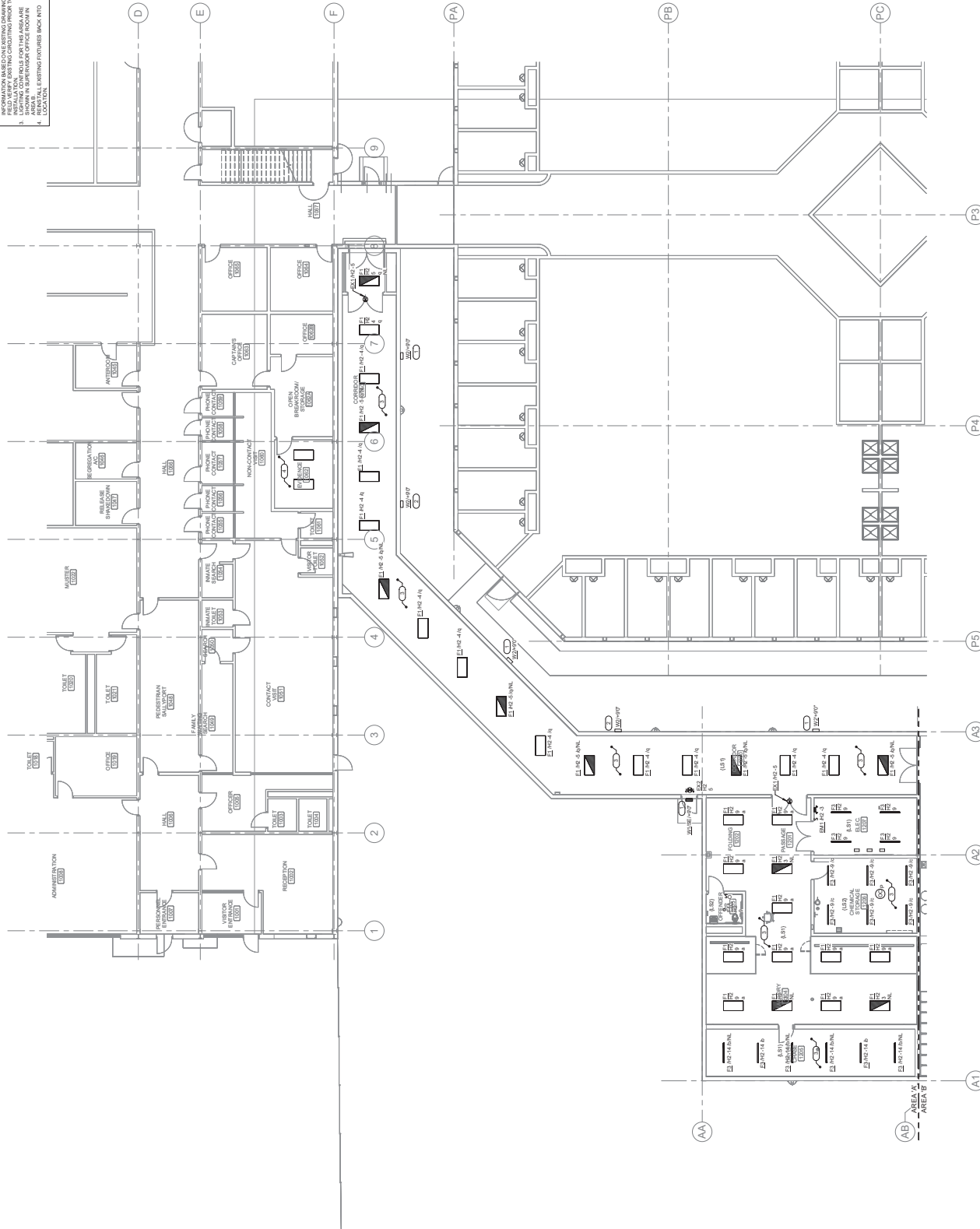
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1 SITE PLAN - ELECTRICAL
 02/06/2024

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 HOUSTON, TEXAS 77042
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- REVISIONS:**
1. PROVIDE LIGHTING FIXTURES TO EXISTING LIGHTING CIRCUITS. CONTACT TO EXISTING INFORMATION BASED ON EXISTING DRAWINGS TO VERIFY. PROVIDE LIGHTING FIXTURES TO EXISTING INFORMATION BASED ON EXISTING DRAWINGS TO VERIFY. PROVIDE LIGHTING FIXTURES TO EXISTING INFORMATION BASED ON EXISTING DRAWINGS TO VERIFY.
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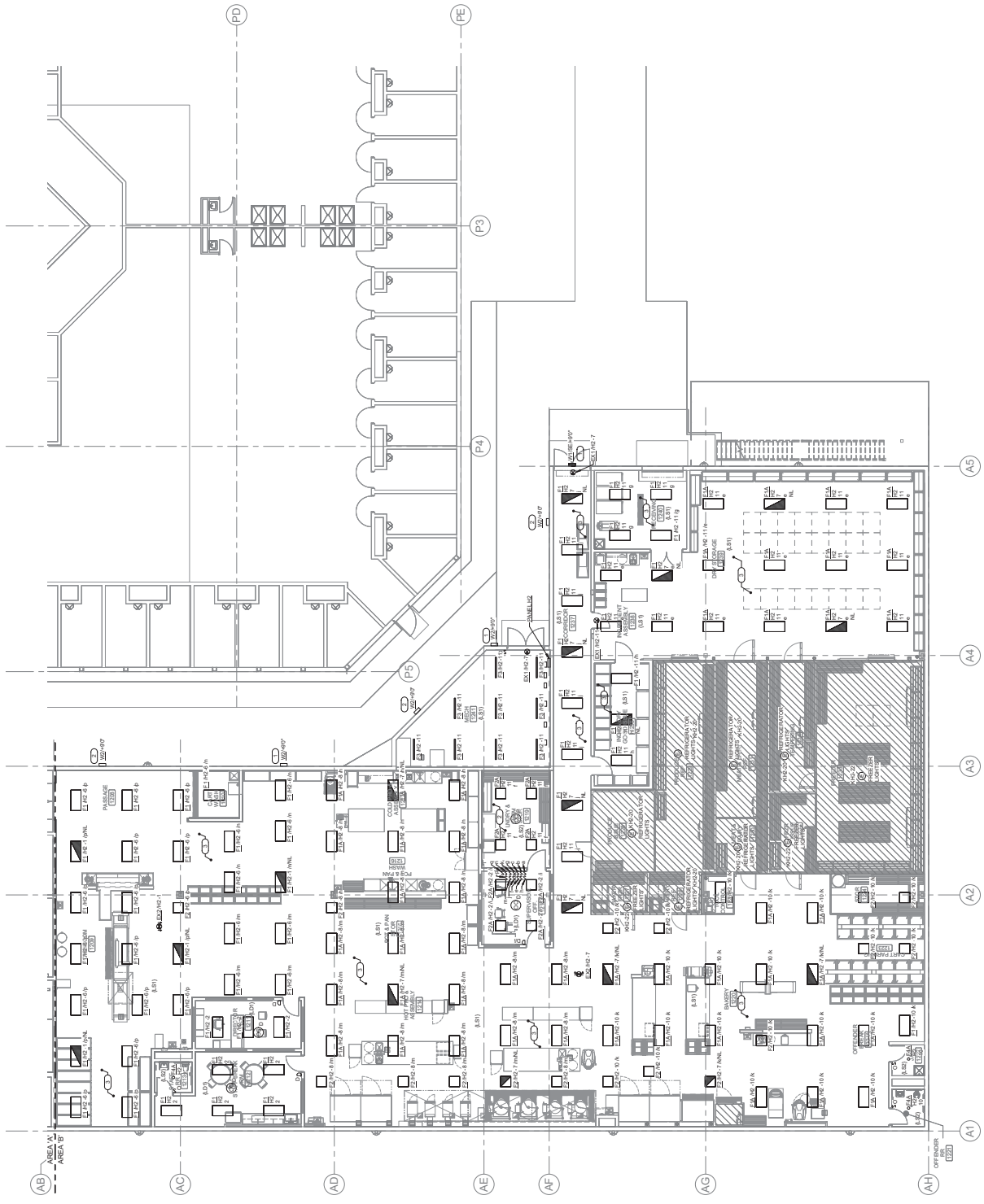


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1 LEVEL 01 PLAN - AREA A - LIGHTING

DATE: 02/04/2024
 DESIGNED: KRISTIN
 DRAWN: ADULLER
 REVIEWED: ISASTO

1. ALL NEW INSTALLATIONS TO BE INSTALLED IN ACCORDANCE WITH THE IOWA ELECTRICAL CODE (IEC) AND THE IOWA LIGHTING CODE (ILC). CONSULT TO THE IOWA ELECTRICAL BOARD AND THE IOWA ILLUMINATING ENGINEERS BOARD FOR THE LATEST VERSIONS OF THESE CODES.
2. ALL EXISTING INSTALLATIONS TO BE MAINTAINED UNLESS OTHERWISE NOTED OTHERWISE.
3. ALL NEW INSTALLATIONS TO BE INSTALLED IN ACCORDANCE WITH THE IOWA ELECTRICAL CODE (IEC) AND THE IOWA LIGHTING CODE (ILC). CONSULT TO THE IOWA ELECTRICAL BOARD AND THE IOWA ILLUMINATING ENGINEERS BOARD FOR THE LATEST VERSIONS OF THESE CODES.
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5. ALL NEW INSTALLATIONS TO BE INSTALLED IN ACCORDANCE WITH THE IOWA ELECTRICAL CODE (IEC) AND THE IOWA LIGHTING CODE (ILC). CONSULT TO THE IOWA ELECTRICAL BOARD AND THE IOWA ILLUMINATING ENGINEERS BOARD FOR THE LATEST VERSIONS OF THESE CODES.



LEVEL 01 PLAN - AREA B - LIGHTING
 1/8" = 1'-0"



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DATE: 02/06/2025
DESCRIPTION: 11100000 - RF 01.0

BID SET
 02/06/2025

STATE OF IOWA DEPARTMENT
 OF CORRECTIONS

**CLARINDA
 CORRECTIONAL
 FACILITY - KITCHEN &
 LAUNDRY ADDITION**

2000 N 87TH ST, CLARINDA, IA
 51622

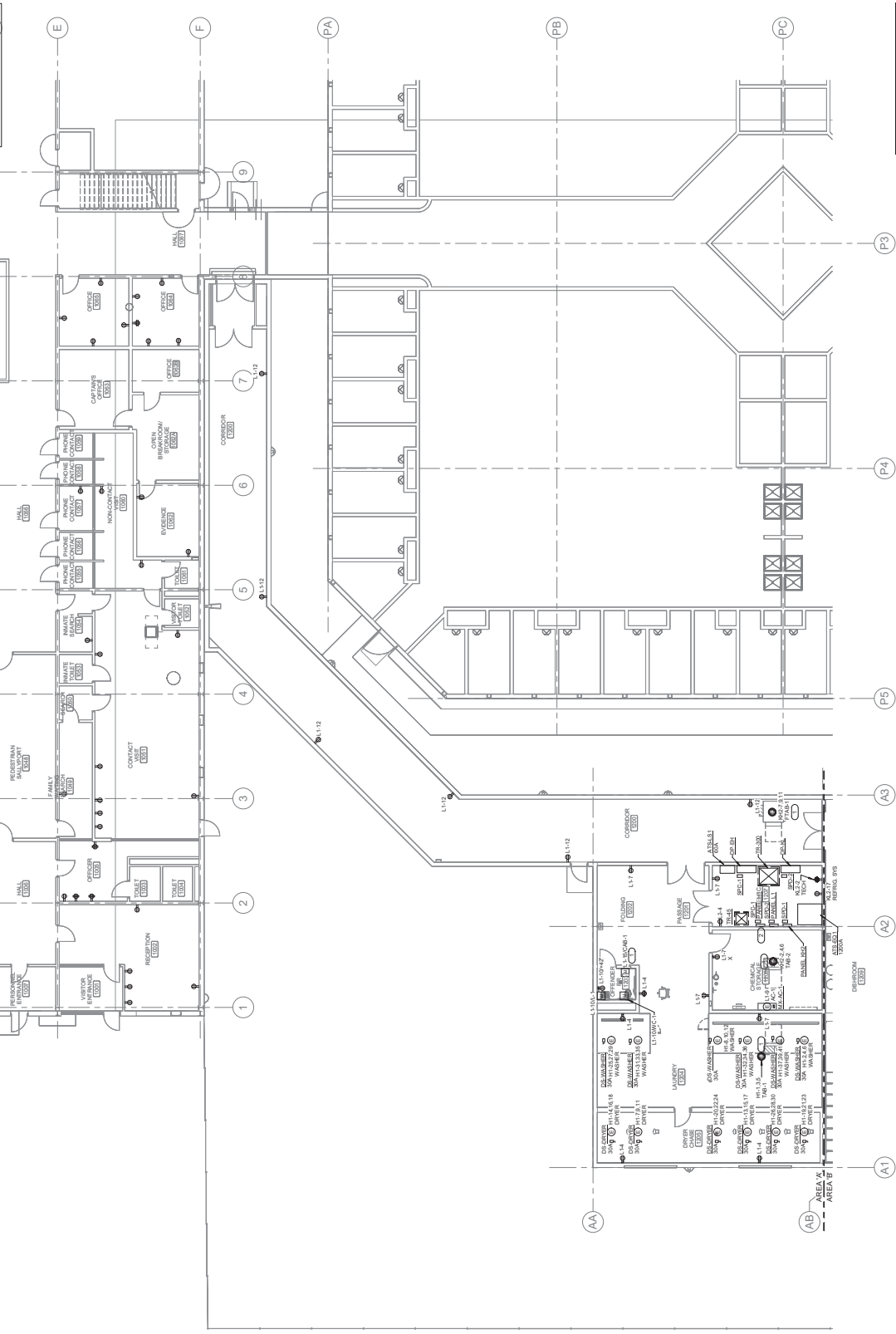
DATE: 02/06/2024
DESIGNED: KRISPI
DRAWN: ADJULUR
REVIEWED: ISASTO

**LEVEL 01 PLAN -
 AREA A - POWER**

E1.4

PROJECT NO: 02402002-00
 R#1822200-04

- REVISIONS:**
- PROVIDE TO ELECTRICAL INSTALLATION MANUFACTURER
 - PROVIDE TO ELECTRICAL MANUFACTURER
 - PROVIDE TO ELECTRICAL MANUFACTURER
- REVISIONS:**
- PROVIDE TO ELECTRICAL MANUFACTURER
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 BOSTON, MA 02111
 (617) 552-1100 / imeg@imeg.com

1 LEVEL 01 PLAN - AREA A - POWER



NOTES:

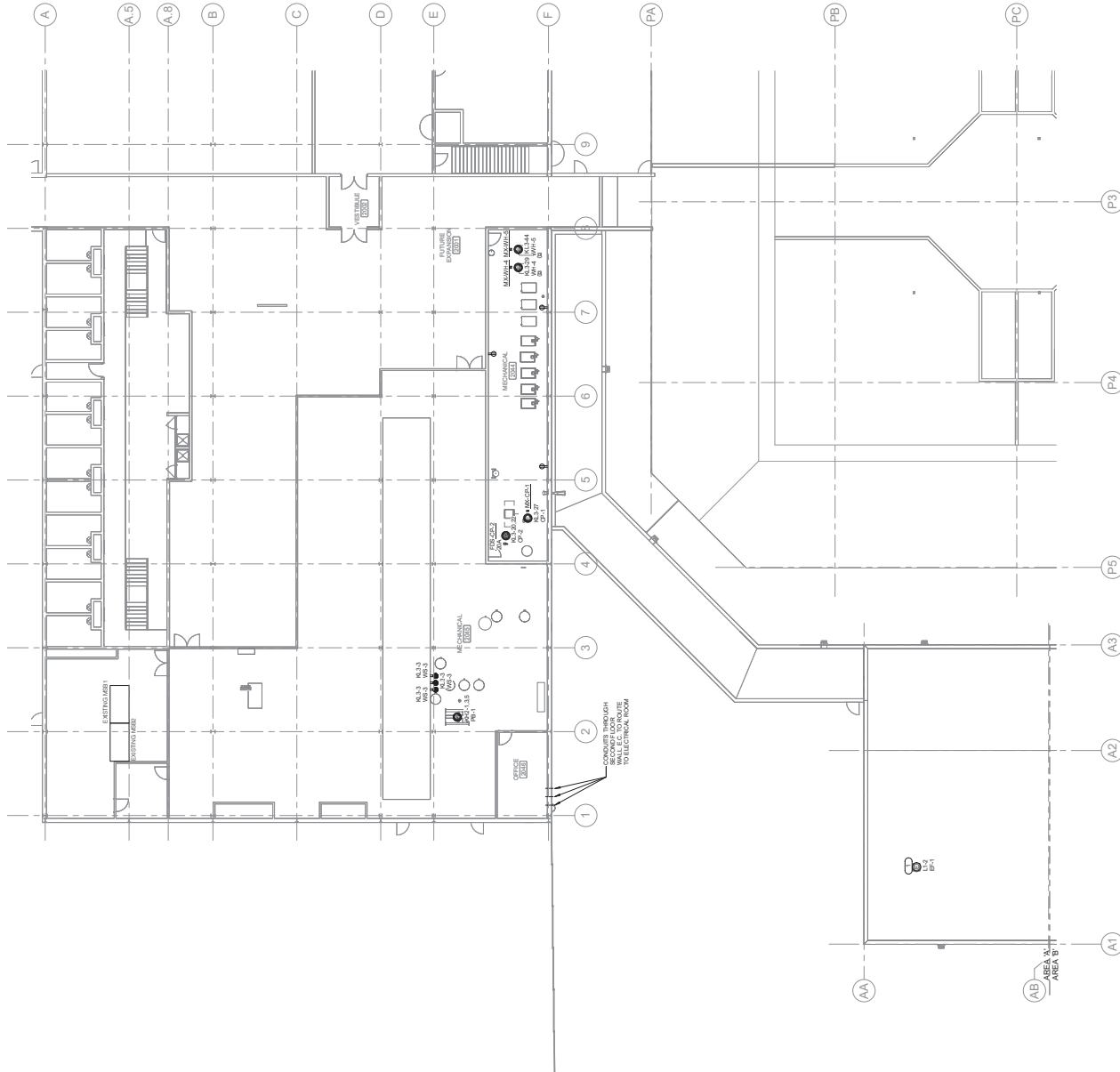
1. PROVIDE ALL EQUIPMENT MANUFACTURER, MODEL NUMBER, AND SERIAL NUMBER.
2. PROVIDE ALL EQUIPMENT MANUFACTURER, MODEL NUMBER, AND SERIAL NUMBER.

REMARKS:

1. BASE BID CONDITIONS: EQUIPMENT AS NOTED IN THESE DOCUMENTS WITH THE EXCEPTION OF THE FOLLOWING: ALL EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR. ALL EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR. ALL EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR.
2. PROVIDE ALL EQUIPMENT MANUFACTURER, MODEL NUMBER, AND SERIAL NUMBER.

TERMINAL NO. 3:

TERMINAL NO. 3: PROVIDE ALL EQUIPMENT MANUFACTURER, MODEL NUMBER, AND SERIAL NUMBER. PROVIDE ALL EQUIPMENT MANUFACTURER, MODEL NUMBER, AND SERIAL NUMBER. PROVIDE ALL EQUIPMENT MANUFACTURER, MODEL NUMBER, AND SERIAL NUMBER.



1 LEVEL 02 PLAN - AREA A - POWER
 3/27/17



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DATE: DESCRIPTION:

BID SET
 02/06/2025

STATE OF IOWA DEPARTMENT OF CORRECTIONS

CLARINDA CORRECTIONAL FACILITY - KITCHEN & LAUNDRY ADDITION

2000 N. 87TH ST., CLARINDA, IA 51622

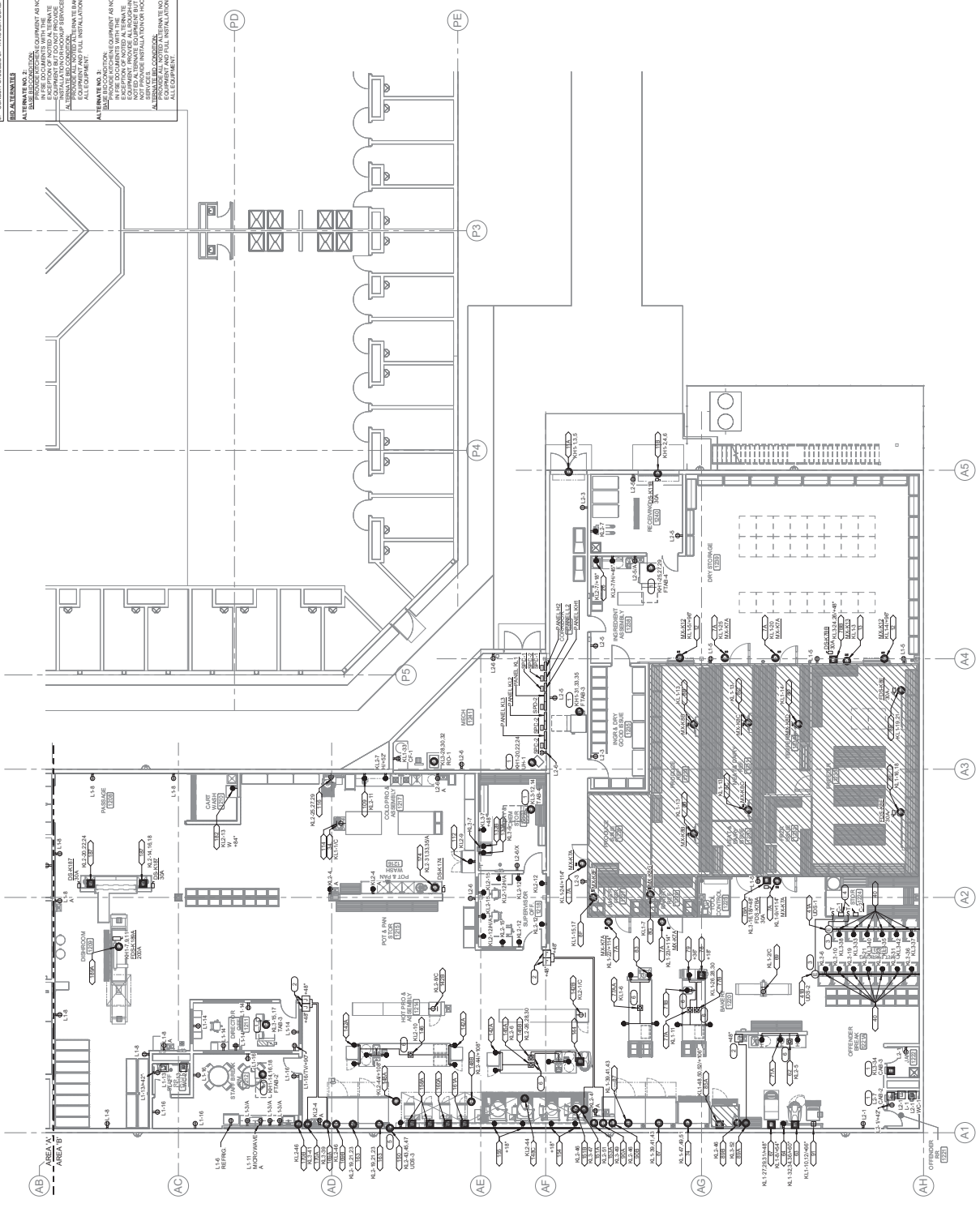
DATE: 02/06/2024
 DESIGNED: KRISPI
 DRAWN: ADDULER
 REVIEWED: ISASTO

PROJECT TITLE: LEVEL 02 PLAN - AREA A - POWER

E1.5

PROJECT NO.: 0240202-00
 R#1822200-04

- REVISIONS:**
- PROVIDE ALL EQUIPMENT MANUFACTURE PLANS TO THE MANUFACTURER FOR REVIEW AND APPROVAL.
 - VERIFY ALL EQUIPMENT MANUFACTURE PLANS FOR EACH BRAND CANNOT BE USED FOR THE PROJECT.
 - VERIFY ALL EQUIPMENT MANUFACTURE PLANS FOR EACH BRAND CANNOT BE USED FOR THE PROJECT.
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 - VERIFY ALL EQUIPMENT MANUFACTURE PLANS FOR EACH BRAND CANNOT BE USED FOR THE PROJECT.
- ALTERNATE NO. 1:**
 PROVIDE ALL EQUIPMENT MANUFACTURE PLANS TO THE MANUFACTURER FOR REVIEW AND APPROVAL.
- ALTERNATE NO. 2:**
 PROVIDE ALL EQUIPMENT MANUFACTURE PLANS TO THE MANUFACTURER FOR REVIEW AND APPROVAL.
- ALTERNATE NO. 3:**
 PROVIDE ALL EQUIPMENT MANUFACTURE PLANS TO THE MANUFACTURER FOR REVIEW AND APPROVAL.



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1 LEVEL 01 PLAN - AREA B - POWER

DATE: 02/09/2024
 DESIGNED: KRISPI
 DRAWN: ADDULER
 REVIEWED: ISASTO

PROJECT TITLE:
**LEVEL 01 PLAN -
 AREA B - POWER**

PROJECT NO.:
E1.6

02/04/2022-00
 #B1922300-04



Farnsworth GROUP
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 (972) 252-4667 / (972) 252-4668

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kpff

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DATE: 02/06/2025
 DESCRIPTION: STATE OF TEXAS DEPARTMENT OF CORRECTIONS

BID SET
 02/06/2025

STATE OF TEXAS DEPARTMENT OF CORRECTIONS

CLARINDA CORRECTIONAL FACILITY - KITCHEN & LAUNDRY ADDITION

2000 N. 87TH ST., CLARINDA, TX 75012

DATE: 02/06/2025
 DESIGNED: KRISPI
 DRAWN: ADJULR
 REVIEWED: ISASTO

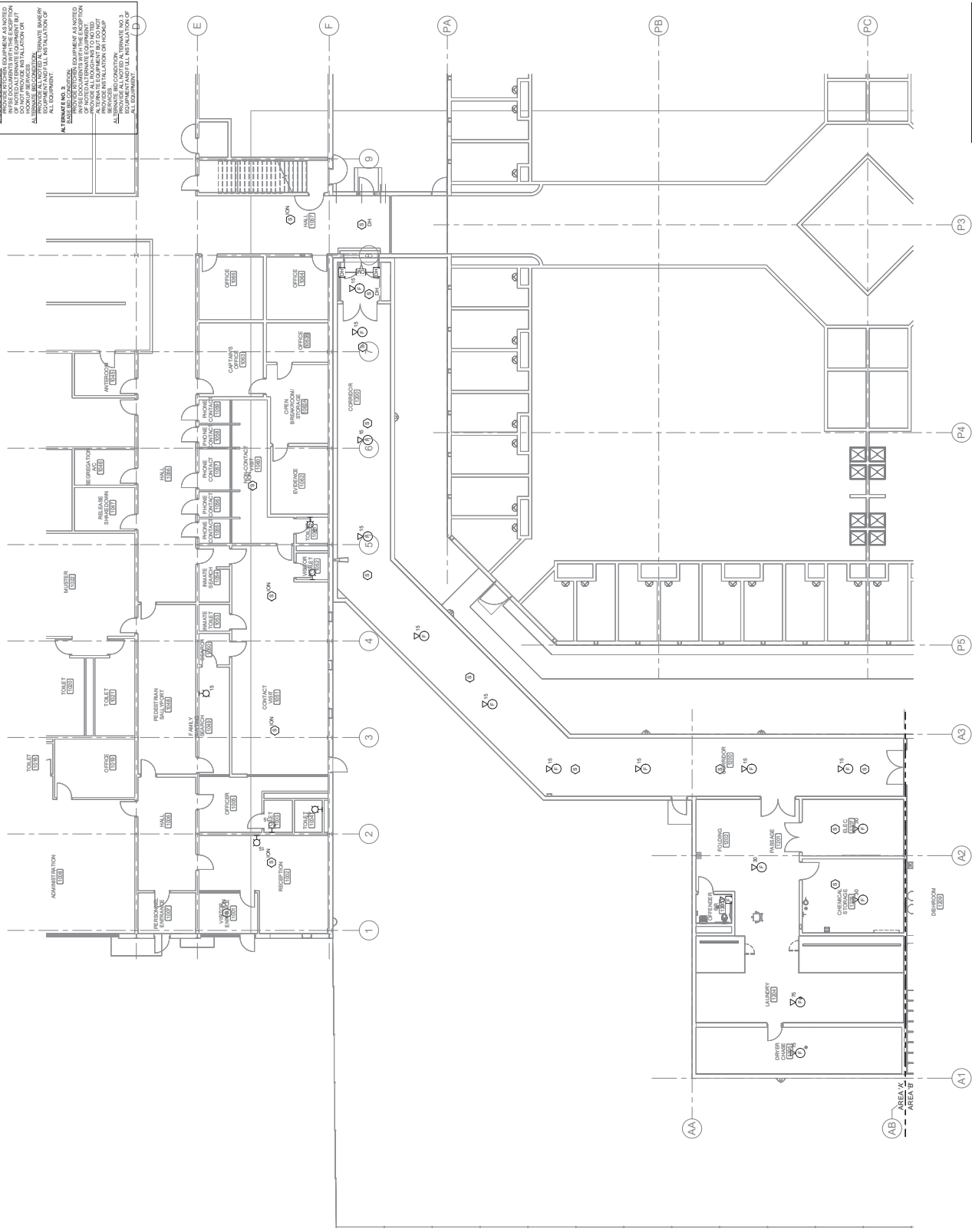
PROJECT TITLE: LEVEL 01 PLAN - AREA A - SYSTEMS

PROJECT NO.: E1.8

02/04/2025.00
 R81822300-04

GENERAL NOTES:
 1. ALL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE ACCESS TO JUSTICE ACT (ATJ) REQUIREMENTS.
 2. PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 3. PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 4. PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 5. PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 6. PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 7. PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 8. PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 9. PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 10. PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.

ALTERNATES:
 ALTERNATE NO. 1: PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 ALTERNATE NO. 2: PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 ALTERNATE NO. 3: PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 ALTERNATE NO. 4: PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 ALTERNATE NO. 5: PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 ALTERNATE NO. 6: PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 ALTERNATE NO. 7: PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 ALTERNATE NO. 8: PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 ALTERNATE NO. 9: PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.
 ALTERNATE NO. 10: PROVIDE ALL NECESSARY EQUIPMENT AS NOTED ON THIS PLAN AND IN THE NOTES TO THE SPECIFICATIONS.



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1 LEVEL 01 PLAN - AREA A - SYSTEMS



10' 0" = 1" = 10'



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DATE: DESCRIPTION:

BID SET
 02/06/2025

STATE OF IOWA DEPARTMENT OF CORRECTIONS

CLARINDA CORRECTIONAL FACILITY - KITCHEN & LAUNDRY ADDITION

2000 N. 18TH ST., CLARINDA, IA 51622

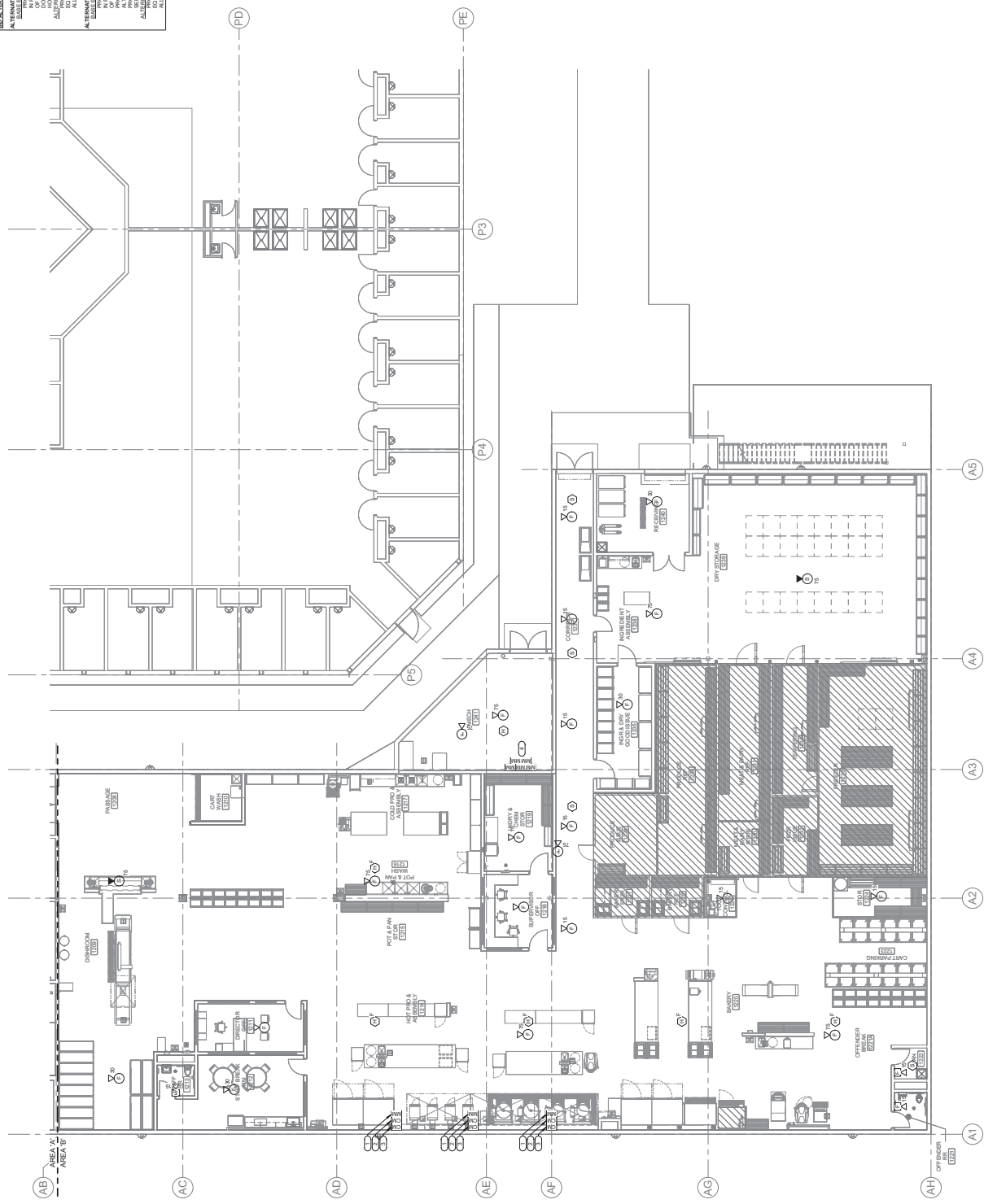
DATE: 02/06/2024
 DESIGNED: KRISPI
 DRAWN: ADDULR
 REVIEWED: ISASTO

PROJECT TITLE:
LEVEL 01 PLAN - AREA B - SYSTEMS

PROJECT NO.:
E1.9

02/04/2022-04
 #B1622300-04

- GENERAL NOTES:**
1. MONITOR MODULE FOR HOOD SUPPLEMENTARY CONTROLS LOCATED IN AREA B (WHERE SERVICE TRAFFIC) - SEE ACCESS TO SERVICE TRAFFIC.
 2. MONITOR MODULE FOR HOOD SUPPLEMENTARY CONTROLS LOCATED IN AREA B (WHERE SERVICE TRAFFIC) - SEE ACCESS TO SERVICE TRAFFIC.
 3. MONITOR MODULE FOR HOOD SUPPLEMENTARY CONTROLS LOCATED IN AREA B (WHERE SERVICE TRAFFIC) - SEE ACCESS TO SERVICE TRAFFIC.
 4. MONITOR MODULE FOR HOOD SUPPLEMENTARY CONTROLS LOCATED IN AREA B (WHERE SERVICE TRAFFIC) - SEE ACCESS TO SERVICE TRAFFIC.
- GENERAL NOTES:**
1. MONITOR MODULE FOR HOOD SUPPLEMENTARY CONTROLS LOCATED IN AREA B (WHERE SERVICE TRAFFIC) - SEE ACCESS TO SERVICE TRAFFIC.
 2. MONITOR MODULE FOR HOOD SUPPLEMENTARY CONTROLS LOCATED IN AREA B (WHERE SERVICE TRAFFIC) - SEE ACCESS TO SERVICE TRAFFIC.
 3. MONITOR MODULE FOR HOOD SUPPLEMENTARY CONTROLS LOCATED IN AREA B (WHERE SERVICE TRAFFIC) - SEE ACCESS TO SERVICE TRAFFIC.
 4. MONITOR MODULE FOR HOOD SUPPLEMENTARY CONTROLS LOCATED IN AREA B (WHERE SERVICE TRAFFIC) - SEE ACCESS TO SERVICE TRAFFIC.



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1 LEVEL 01 PLAN - AREA B - SYSTEMS

PROJECT NO.:
E1.9

02/04/2022-04
 #B1622300-04



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DATE: DESCRIPTION:

BID SET
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STATE OF IOWA DEPARTMENT
 OF CORRECTIONS

**CLARINDA
 CORRECTIONAL
 FACILITY - KITCHEN &
 LAUNDRY ADDITION**

2000 N. 48TH ST., CLARINDA, IA
 51627

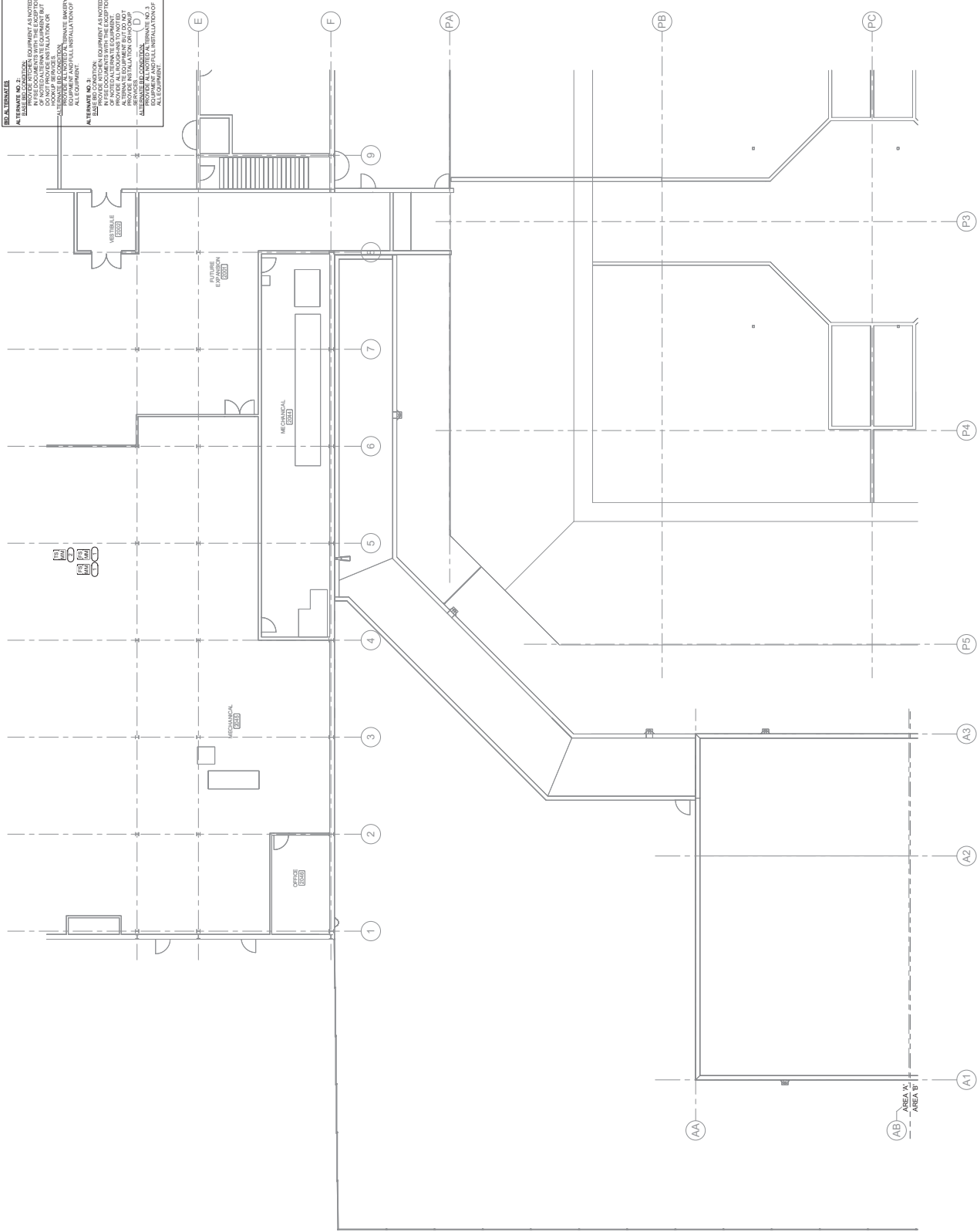
DATE: 02/06/2024
 DESIGNED: KRISPI
 DRAWN: ADDULER
 REVIEWED: ISASTO

THIS TITLE
**LEVEL 02 PLAN -
 AREA A - SYSTEMS**

E1.10

PROJECT NO.: 0240202-00
 R81622300-04

- REVISIONS:**
1. NEW SYMBOLS FOR SPRINKLER SYSTEM
 2. NEW SYMBOLS FOR FIRE ALARM SYSTEM
 3. MONITOR PANELS SWITCH
- ALTERNATE NO. 1:**
 ALL EQUIPMENT AND MATERIALS TO BE INSTALLED SHALL BE APPROVED BY THE ARCHITECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE IOWA DEPARTMENT OF CORRECTIONS STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE IOWA DEPARTMENT OF CORRECTIONS STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE IOWA DEPARTMENT OF CORRECTIONS STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- ALTERNATE NO. 2:**
 ALL EQUIPMENT AND MATERIALS TO BE INSTALLED SHALL BE APPROVED BY THE ARCHITECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE IOWA DEPARTMENT OF CORRECTIONS STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE IOWA DEPARTMENT OF CORRECTIONS STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE IOWA DEPARTMENT OF CORRECTIONS STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- ALTERNATE NO. 3:**
 ALL EQUIPMENT AND MATERIALS TO BE INSTALLED SHALL BE APPROVED BY THE ARCHITECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE IOWA DEPARTMENT OF CORRECTIONS STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE IOWA DEPARTMENT OF CORRECTIONS STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE IOWA DEPARTMENT OF CORRECTIONS STANDARD SPECIFICATIONS FOR CONSTRUCTION.



1 LEVEL 02 PLAN - AREA A - SYSTEMS

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 www.ripe.com



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DATE: DESCRIPTION:

BID SET
 02/06/2025

STATE OF IOWA DEPARTMENT
 OF CORRECTIONS

**CLARINDA
 CORRECTIONAL
 FACILITY - KITCHEN &
 LAUNDRY ADDITION**

2000 N. 48TH ST., CLARINDA, IA
 51622

DATE: 02/06/2024
 DESIGNED: KRISPI
 DRAWN: ADOLAR
 REVIEWED: ISASTO

THIS TITLE
**LEVEL 02 PLAN -
 AREA B - SYSTEMS**

E1.11

PROJECT NO.: 0240202-00
 R#1822300-04

FIELD NOTES:
 1. ALL DEVICES LOCATED IN AREA B (KITCHEN) SHALL BE INSTALLED IN THE KITCHEN. ALL DEVICES LOCATED IN AREA B (LAUNDRY) SHALL BE INSTALLED IN THE LAUNDRY. ALL DEVICES LOCATED IN AREA B (OFFICE) SHALL BE INSTALLED IN THE OFFICE. ALL DEVICES LOCATED IN AREA B (STORAGE) SHALL BE INSTALLED IN THE STORAGE AREA. ALL DEVICES LOCATED IN AREA B (MECHANICAL) SHALL BE INSTALLED IN THE MECHANICAL ROOM. ALL DEVICES LOCATED IN AREA B (ELECTRICAL) SHALL BE INSTALLED IN THE ELECTRICAL ROOM. ALL DEVICES LOCATED IN AREA B (PLUMBING) SHALL BE INSTALLED IN THE PLUMBING ROOM. ALL DEVICES LOCATED IN AREA B (HVAC) SHALL BE INSTALLED IN THE HVAC ROOM. ALL DEVICES LOCATED IN AREA B (FIRE) SHALL BE INSTALLED IN THE FIRE ROOM. ALL DEVICES LOCATED IN AREA B (ELEVATOR) SHALL BE INSTALLED IN THE ELEVATOR SHAFT. ALL DEVICES LOCATED IN AREA B (STAIR) SHALL BE INSTALLED IN THE STAIR. ALL DEVICES LOCATED IN AREA B (CORRIDOR) SHALL BE INSTALLED IN THE CORRIDOR. ALL DEVICES LOCATED IN AREA B (LOBBY) SHALL BE INSTALLED IN THE LOBBY. ALL DEVICES LOCATED IN AREA B (RECEPTION) SHALL BE INSTALLED IN THE RECEPTION AREA. ALL DEVICES LOCATED IN AREA B (OFFICE) SHALL BE INSTALLED IN THE OFFICE. ALL DEVICES LOCATED IN AREA B (STORAGE) SHALL BE INSTALLED IN THE STORAGE AREA. ALL DEVICES LOCATED IN AREA B (MECHANICAL) SHALL BE INSTALLED IN THE MECHANICAL ROOM. ALL DEVICES LOCATED IN AREA B (ELECTRICAL) SHALL BE INSTALLED IN THE ELECTRICAL ROOM. ALL DEVICES LOCATED IN AREA B (PLUMBING) SHALL BE INSTALLED IN THE PLUMBING ROOM. ALL DEVICES LOCATED IN AREA B (HVAC) SHALL BE INSTALLED IN THE HVAC ROOM. ALL DEVICES LOCATED IN AREA B (FIRE) SHALL BE INSTALLED IN THE FIRE ROOM. ALL DEVICES LOCATED IN AREA B (ELEVATOR) SHALL BE INSTALLED IN THE ELEVATOR SHAFT. ALL DEVICES LOCATED IN AREA B (STAIR) SHALL BE INSTALLED IN THE STAIR. ALL DEVICES LOCATED IN AREA B (CORRIDOR) SHALL BE INSTALLED IN THE CORRIDOR. ALL DEVICES LOCATED IN AREA B (LOBBY) SHALL BE INSTALLED IN THE LOBBY. ALL DEVICES LOCATED IN AREA B (RECEPTION) SHALL BE INSTALLED IN THE RECEPTION AREA.

REVISIONS:

BY: DATE:

DESCRIPTION:

DATE:

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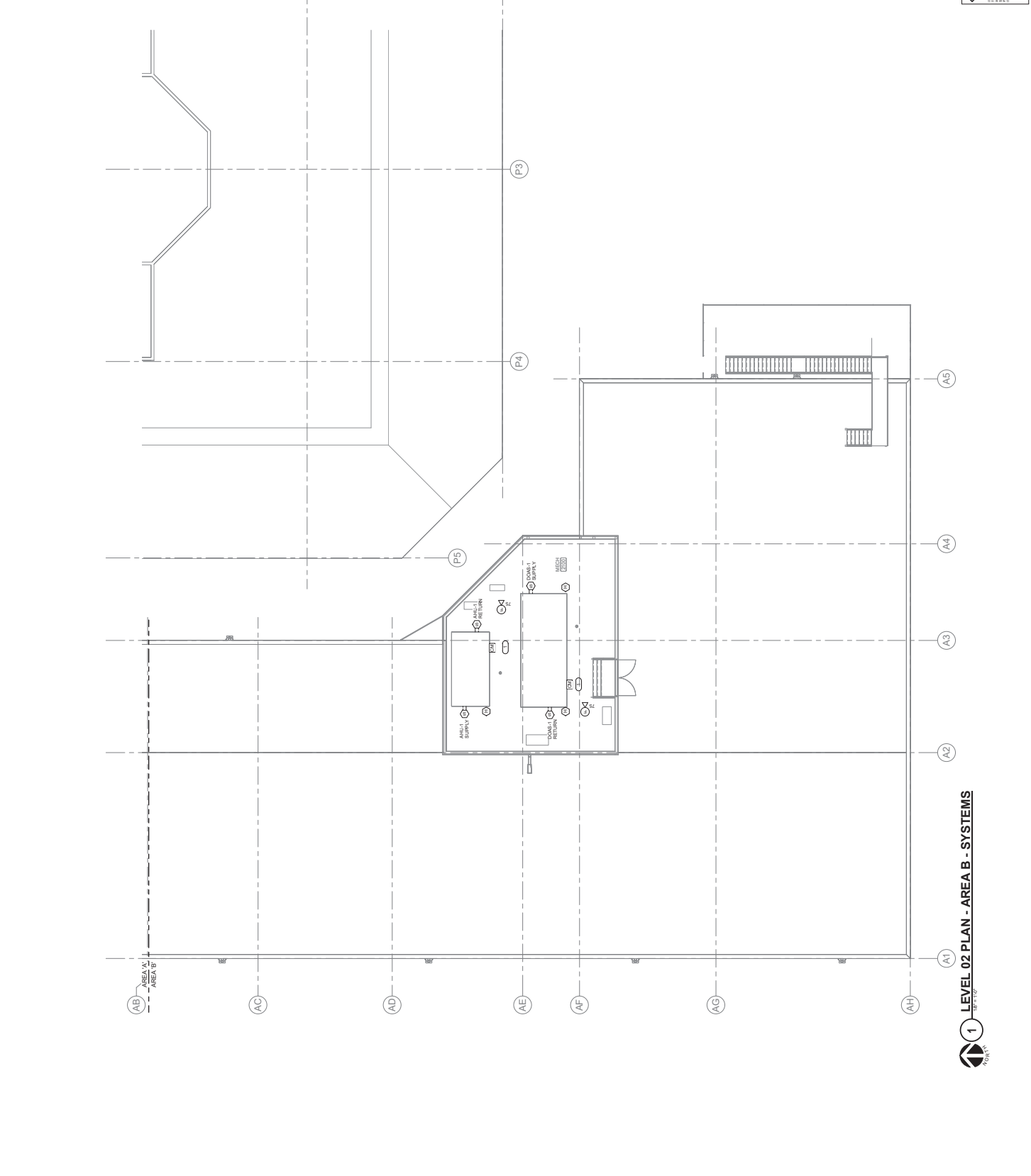
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PROJECT NO.: 0240202-00
 R#1822300-04

1
 LEVEL 02 PLAN - AREA B - SYSTEMS

DATE: 02/06/2024

DESIGNED: KRISPI

DRAWN: ADOLAR

REVIEWED: ISASTO

DATE: 02/06/2024

DESIGNED: KRISPI

DRAWN: ADOLAR

REVIEWED: ISASTO

DATE: 02/06/2024

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PROJECT NO.: 0240202-00
 R#1822300-04

1
 LEVEL 02 PLAN - AREA B - SYSTEMS

DATE: 02/06/2024

DESIGNED: KRISPI

DRAWN: ADOLAR

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DATE: 02/06/2024

DESIGNED: KRISPI

DRAWN: ADOLAR

REVIEWED: ISASTO



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Bishop Engineering

DATE: DESCRIPTION:

BID SET
02/06/2025

STATE OF TEXAS DEPARTMENT
OF CORRECTIONS

**CLARINDA
CORRECTIONAL
FACILITY - KITCHEN &
LAUNDRY ADDITION**

2000 N. 87TH ST, CLARINDA, TX
75822

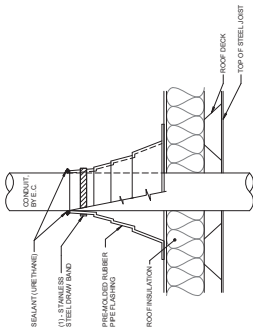
DATE: 02/06/2024
DESIGNED: KRISPI
DRAWN: ADULLER
REVIEWED: ISASTO

PROJECT TITLE:
ELECTRICAL DETAILS



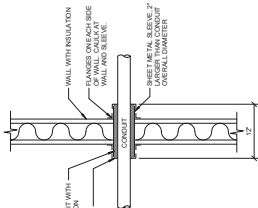
PROJECT NO.: 0240202-00
R#1822300-04

E4.1

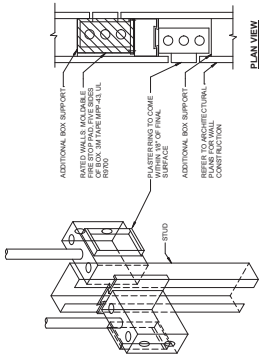


- NOTES:**
- CONDUIT SHALL BE SUPPORTED WITH ANCHORS ABOVE AND BELOW ROOF.
 - ROOFING INSTALLER PRIOR TO INSTALLATION.

3 CONDUIT ROOF PENETRATION
REVISED

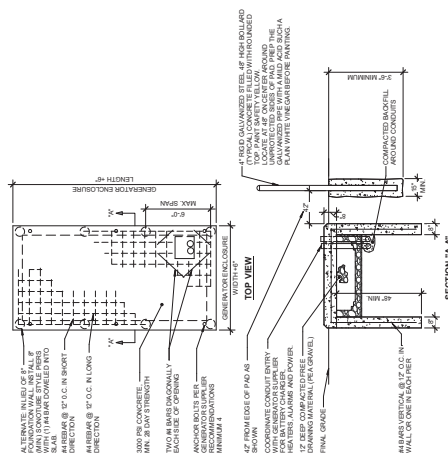


2 CONDUIT WALL PENETRATION
REVISED



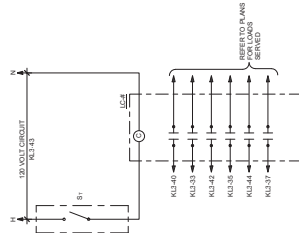
- NOTES:**
- HORIZONTAL CONDUIT CONNECTION BETWEEN DEVICES SHALL BE NOT PERMITTED. ALL CONNECTIONS SHALL BE MADE AT 90 DEGREE ANGLES TO THE DEVICES.

1 SIDE BY SIDE DEVICE OPENINGS
REVISED

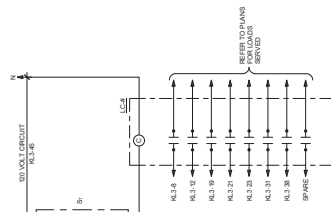


- NOTES:**
- COORDINATE DIMENSIONS WITH GENERATOR SUPPLIER PRIOR TO START OF CONSTRUCTION.

4 GENERATOR PAD DETAIL
REVISED



6 CONTACTOR DETAIL C-2
REVISED



5 CONTACTOR DETAIL C-1
REVISED



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 DENVER, CO 80202
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DATE: _____
 DESCRIPTION: _____

BID SET
 02/06/2025

STATE OF IOWA, DEPARTMENT
 OF CORRECTIONS

**CLARINDA
 CORRECTIONAL
 FACILITY - KITCHEN &
 LAUNDRY ADDITION**

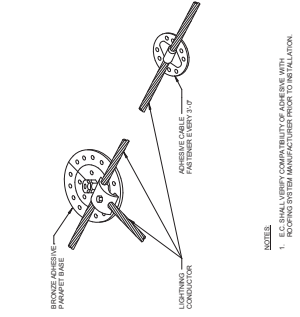
2000 N. 18TH ST., CLARINDA, IA
 51622

DATE: 02/06/2024
 DESIGNED: KRISPI
 DRAWN: ADULLER
 REVIEWED: ISASTO

HEET TITLE:
ELECTRICAL DETAILS

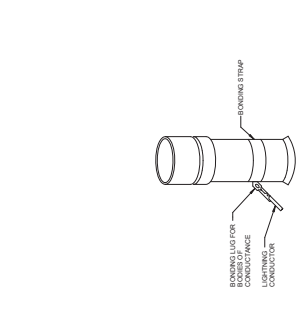
PROJECT NO.:
E4.2

02/04/2022-04
 #B1622300-04

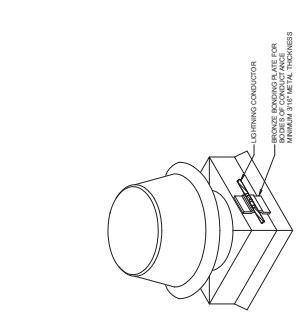


NOTES:
 1. E.C. SHALL VERIFY COMPAATIBILITY OF ADHESIVE WITH ROOFING SYSTEM MANUFACTURER PRIOR TO INSTALLATION.

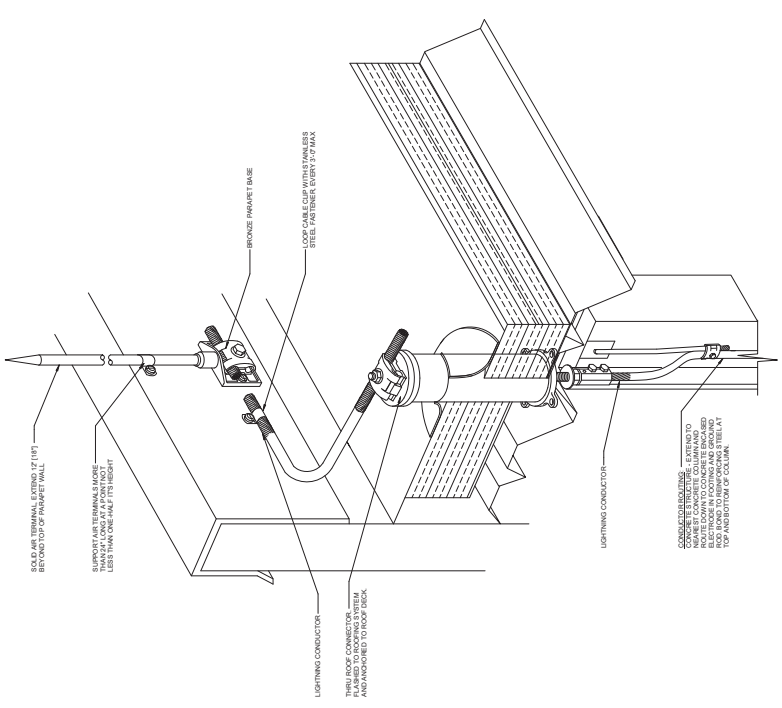
1 CABLE JUNCTION POINT
 NO SCALE



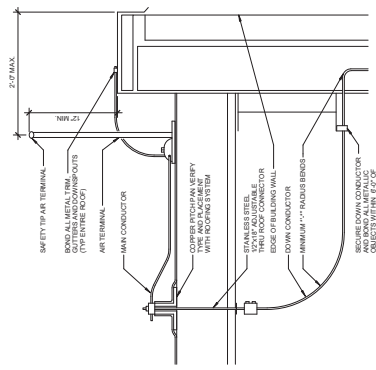
2 BONDING FOR PLUMBING VENTS
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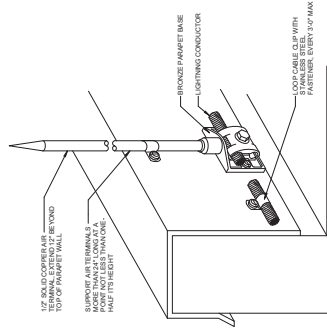
3 BONDING FOR METAL BODIES
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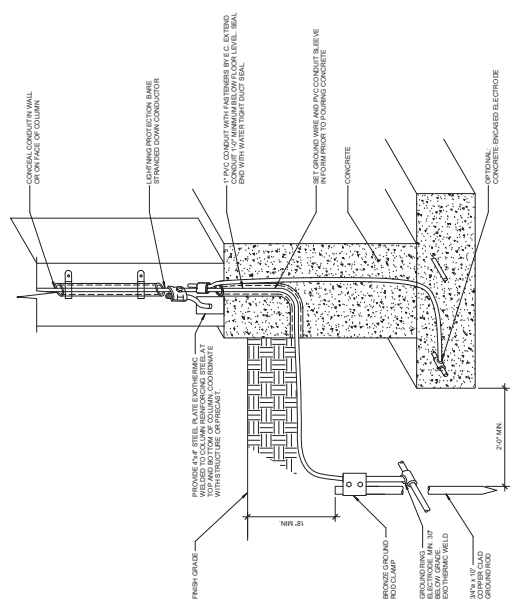
4 EQUIPMENT AIR TERMINAL
 NO SCALE



5 PERIMETER AIR TERMINAL DETAIL
 NO SCALE



6 PARAPET AIR TERMINAL DETAIL
 NO SCALE



7 COLUMN CONNECTOR GROUND DETAIL
 NO SCALE

REVISIONS

1. FOR THE REVISIONS, CHANGES, AND COMMENTS TO THIS DRAWING, REFER TO THE REVISION LOG.



Farnsworth GROUP
 14225 UNIVERSITY AVENUE, SUITE 110
 FARMINGTON, MISSISSIPPI 38625
 (662) 222-3469 / (662) 222-3470

RIFFE ASSOCIATES
 FOODSERVICE DESIGN + CONSULTING



IMEG
 Bishop Engineering

DATE: DESCRIPTION:

BID SET
 02/06/2025

STATE OF LOUISIANA DEPARTMENT OF CORRECTIONS

CLARINDA CORRECTIONAL FACILITY - KITCHEN & LAUNDRY ADDITION

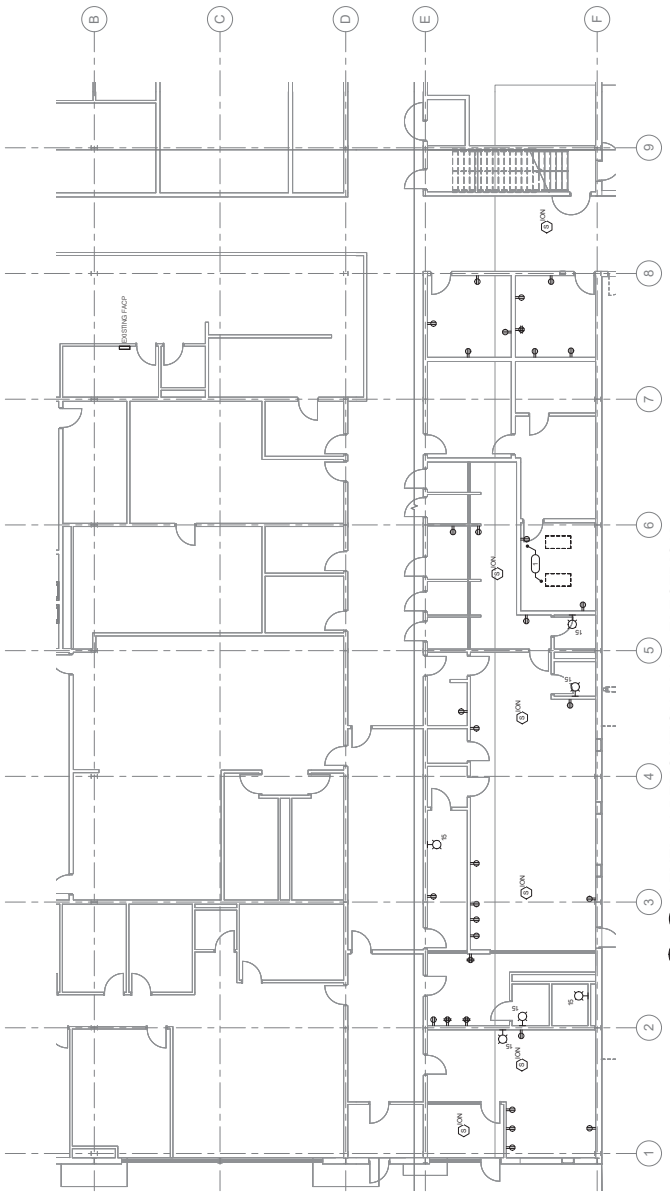
2000 N. 98TH ST, CLARINDA, LA 70527

DATE: 02/06/2024
 DESIGNED: KRISPI
 DRAWN: ADOLAR
 REVIEWED: ISASTO

DEMOLITION PLAN - ELECTRICAL

ED1.1

PROJECT NO.: 02402002-00
 R#1802200-04



1 LEVEL 01 DEMOLITION PLAN - ELECTRICAL



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www.farnsworth.com
 www.rippe.com
RIPE ASSOCIATES
 FOODSERVICE DESIGN + CONSULTING

kpff

IMEG
 Bishop Engineering

A. DATE: 02/06/2025
 B. DESCRIPTION: 2000 N. 18TH ST. CLARINDA, IA
 C. DRAWN BY: BJA/ADK/AMK

BID SET
 02/06/2025

STATE OF IOWA DEPARTMENT
 OF CORRECTIONS

**CLARINDA
 CORRECTIONAL
 FACILITY - KITCHEN &
 LAUNDRY ADDITION**

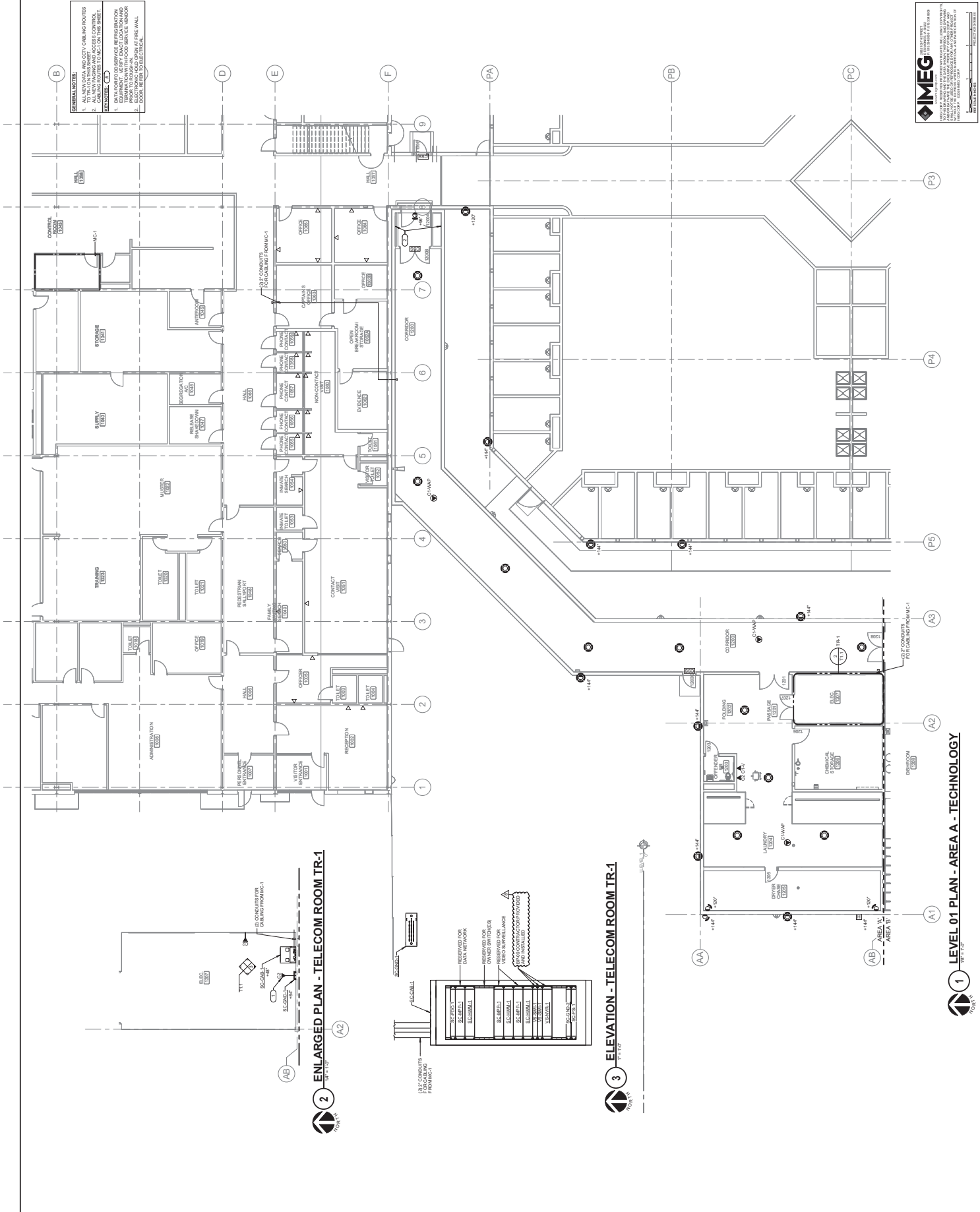
2000 N. 18TH ST. CLARINDA, IA
 51622

DATE: 02/06/2024
 DESIGNED: DAMBEE
 DRAWN: VRPAT
 REVIEWED: PHNIE

PROJECT TITLE:
**LEVEL 01 PLAN -
 AREA A -
 TECHNOLOGY**

PROJECT NUMBER:
T1.1

PROJECT NO.:
 0240202-00
 R81922300-04



GENERAL NOTES:
 1. ALL RERUN AND CITY CABLING ROUTES SHALL BE IN ACCORDANCE WITH THE CITY OF CLARINDA, IOWA ELECTRICAL CODE.
 2. ALL RERUN AND ACCESS CONTROL SHALL BE IN ACCORDANCE WITH THE CITY OF CLARINDA, IOWA ELECTRICAL CODE.
REVISIONS:
 1. DATA PROVIDER'S SERVICE REFRESHMENT PERIODS SHALL BE 30 DAYS.
 2. TERMINATION WITH FOOD SERVICE VENDOR SHALL BE IN ACCORDANCE WITH THE CITY OF CLARINDA, IOWA ELECTRICAL CODE.
 3. ELECTRONIC AND OPTICAL FIRE WALL SHALL BE IN ACCORDANCE WITH THE CITY OF CLARINDA, IOWA ELECTRICAL CODE.

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 IMEG CONSULTING ENGINEERS
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 HOUSTON, TEXAS 77033
 (281) 223-4669 / (281) 223-4600
 www.imeg.com

2 ENLARGED PLAN - TELECOM ROOM TR-1
 1/8" = 1'-0"

3 ELEVATION - TELECOM ROOM TR-1
 1" = 1'-0"

1 LEVEL 01 PLAN - AREA A - TECHNOLOGY
 1/8" = 1'-0"

GENERAL NOTES:
 1. SEE ALL NOTES AND CITY CODES AND REFER TO THE DRAWING TO THE LEFT FOR THE LOCATION OF THE EQUIPMENT ON THIS FLOOR PLAN.
 2. EQUIPMENT ON THIS FLOOR PLAN IS TO BE INSTALLED IN THE SERVICE AND/OR STORAGE ROOMS.

Farnsworth GROUP
 14225 UNIVERSITY AVENUE, SUITE 1110
 BOSTON, MA 02128
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RIFFE ASSOCIATES
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 1000 WASHINGTON STREET, SUITE 200
 BOSTON, MA 02111
 (617) 552-1100 / riffes.com

IMEG
 Bishop Engineering
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 BOSTON, MA 02111
 (617) 552-1100 / imeg.com

DATE: 02/06/2025
DESCRIPTION:
PROJECT: BID SET

BID SET
 02/06/2025

STATE OF IOWA DEPARTMENT
 OF CORRECTIONS

**CLARINDA
 CORRECTIONAL
 FACILITY - KITCHEN &
 LAUNDRY ADDITION**

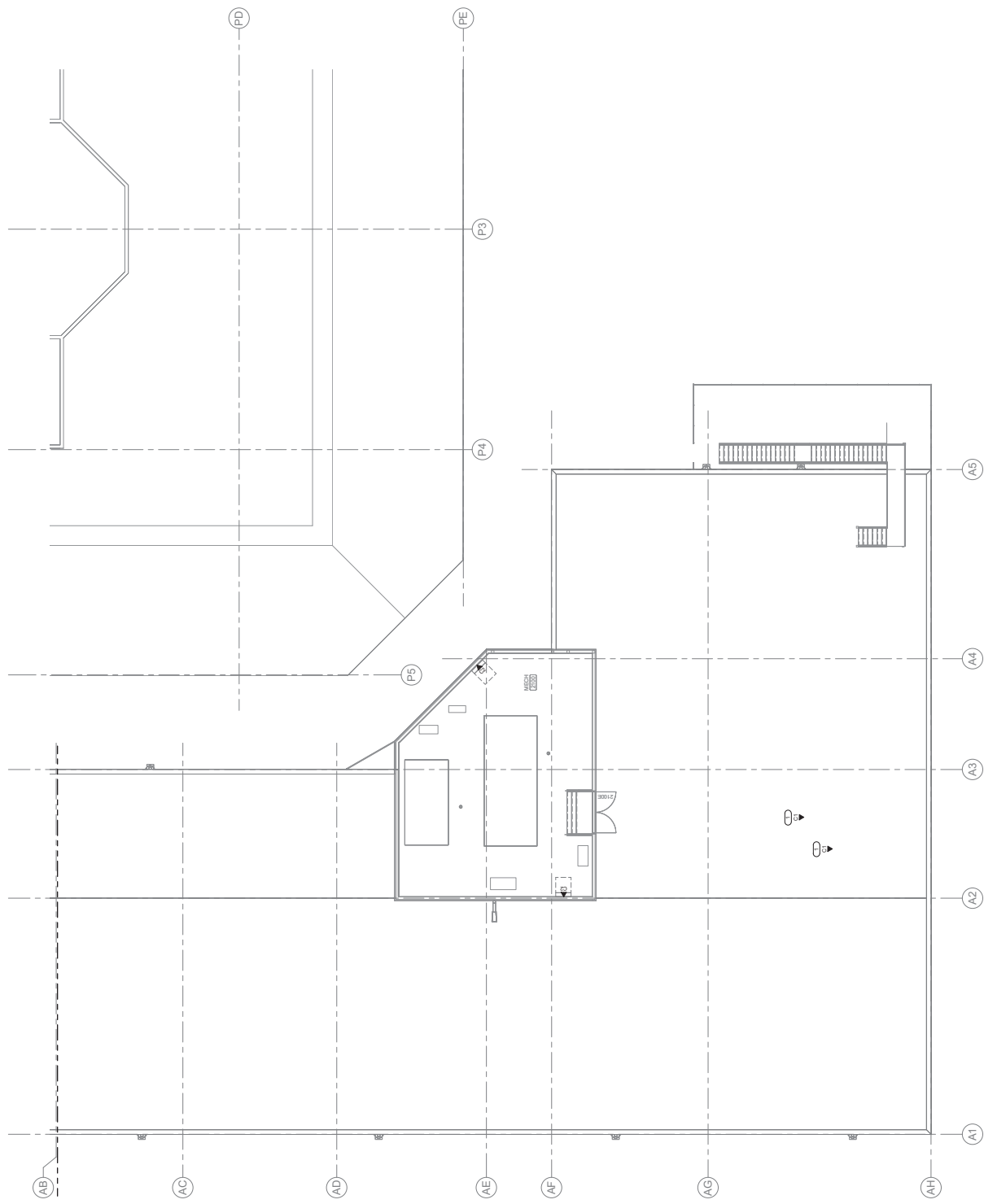
2000 N. 48TH ST., CLARINDA, IA
 51622

DATE: 02/06/2025
DESIGNED: DAMBEE
DRAWN: VFRPAT
REVIEWED: PHNIE

**LEVEL 02 PLAN -
 AREA B -
 TECHNOLOGY**

T1.3

PROJECT NO.: 0240202-00
 R8102200-04



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 1000 WASHINGTON STREET, SUITE 200
 BOSTON, MA 02111
 (617) 552-1100 / imeg.com

1
 LEVEL 02 PLAN - AREA B - TECHNOLOGY

GENERAL NOTES:
 1. SEE ALL NOTES AND CITY CODES AND REFER TO THE DRAWING TO THE LEFT FOR THE LOCATION OF THE EQUIPMENT ON THIS FLOOR PLAN.
 2. EQUIPMENT ON THIS FLOOR PLAN IS TO BE INSTALLED IN THE SERVICE AND/OR STORAGE ROOMS.



Farnsworth Group
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 (281) 416-1000 / info@imeg.com

DATE: 02/06/2025
DESCRIPTION:
PROJECT NO.: 0240202-00
PROJECT NAME: CLARINDA CORRECTIONAL FACILITY - KITCHEN & LAUNDRY ADDITION

BID SET
 02/06/2025

STATE OF TEXAS DEPARTMENT
 OF CORRECTIONS

**CLARINDA
 CORRECTIONAL
 FACILITY - KITCHEN &
 LAUNDRY ADDITION**

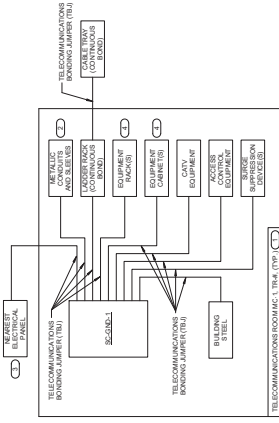
2000 N. 87TH ST, CLARINDA, TX
 75822

DATE: 02/06/2025
DESIGNED: DAMBEE
DRAWN: VPPAT
REVIEWED: PHNIE

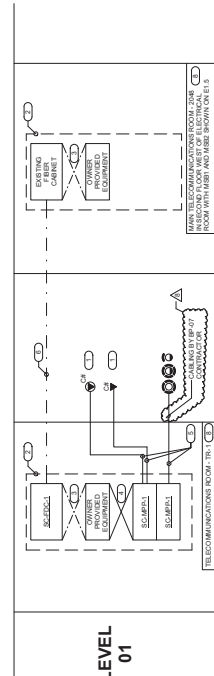
**TECHNOLOGY
 DIAGRAMS**

T5.1

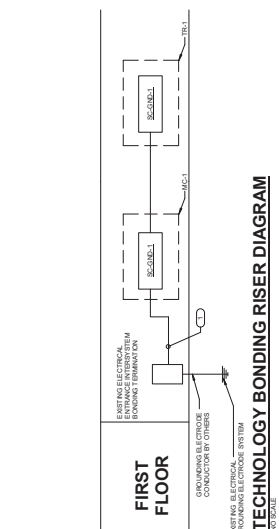
PROJECT NO.: 0240202-00
 #B1922300-04



- NOTES:**
1. THIS FLOW DIAGRAM IS A GENERAL GUIDE AND DOES NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THE FLOW DIAGRAM IS PROVIDED FOR INFORMATION ONLY. REFER TO THE FLOOR PLANS AND THE BONDING SCHEDULE FOR ACTUAL SPECIFICATIONS AND QUANTITIES. REFER TO THE FLOOR PLANS AND THE BONDING SCHEDULE FOR ACTUAL SPECIFICATIONS AND QUANTITIES. REFER TO THE FLOOR PLANS AND THE BONDING SCHEDULE FOR ACTUAL SPECIFICATIONS AND QUANTITIES.
 2. ALL CONDUCTORS FOR ADDITIONAL REQUIREMENTS SHALL BE MINIMUM SIZE OF 18 AWG PER NFPA 70E TABLE 130.5(B) UNLESS OTHERWISE SPECIFIED. REFER TO THE FLOOR PLANS AND THE BONDING SCHEDULE FOR ACTUAL SPECIFICATIONS AND QUANTITIES. REFER TO THE FLOOR PLANS AND THE BONDING SCHEDULE FOR ACTUAL SPECIFICATIONS AND QUANTITIES.
 3. ALL KITCHEN CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS. ELECTRIC WELDING OR SOLDERING SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT FROM THE SURFACE OF THE CONDUCTOR TO BE BONDING POINT AND ADDITIONAL INFORMATION AND REQUIREMENTS FOR SCHEDULE.
 4. REFER TO THE TELECOMMUNICATIONS ROOM SCHEDULE FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION.
- REMARKS:**
1. REFER TO TELECOM ROOM REFERENCES SCHEDULE ON COVER SHEET FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION.
 2. INDICES HORIZONTAL AND VERTICAL CONDUIT SCHEDULES FOR TECHNOLOGY CABLING.
 3. PROVIDE SECURE MOUNTING TELECOMMUNICATIONS BONDING BARRIER AT EACH EQUIPMENT RACK.



- NOTES:**
1. THIS RISER IS A GENERAL GUIDE AND DOES NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF INFORMATION ONLY. REFER TO THE FLOOR PLANS AND THE BONDING SCHEDULE FOR ACTUAL SPECIFICATIONS AND QUANTITIES. REFER TO THE FLOOR PLANS AND THE BONDING SCHEDULE FOR ACTUAL SPECIFICATIONS AND QUANTITIES. REFER TO THE FLOOR PLANS AND THE BONDING SCHEDULE FOR ACTUAL SPECIFICATIONS AND QUANTITIES.
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 4. REFER TO THE TELECOMMUNICATIONS ROOM SCHEDULE FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION.
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 2. INDICES HORIZONTAL AND VERTICAL CONDUIT SCHEDULES FOR TECHNOLOGY CABLING.
 3. PROVIDE SECURE MOUNTING TELECOMMUNICATIONS BONDING BARRIER AT EACH EQUIPMENT RACK.

CONDUCTOR SIZE IN FT/L	MINIMUM ACCEPTABLE SIZE - AWG
14" - 20"	6
21" - 26"	4
27" - 32"	2
33" - 38"	1
39" - 44"	1/2
45" - 50"	3/8
51" - 56"	1/4
57" - 62"	3/16
63" - 68"	1/8
69" - 74"	1/16
75" - 80"	1/32
81" - 86"	1/64
87" - 92"	1/128
93" - 98"	1/256
99" - 104"	1/512



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STATE OF IOWA DEPARTMENT OF CORRECTIONS CLARINDA CORRECTIONAL FACILITY - KITCHEN & LAUNDRY ADDITION

2000 N 16TH ST, CLARINDA, IA 51632

- ARCHITECT:**
FARNSWORTH GROUP
14225 University Ave
Ste 110
Waukee, IA 50263
- ENGINEERS:**
BISHOP ENGINEERING
3501 104th St,
Urbandale, IA 50322
- KPFF CONSULTING ENGINEERS**
604 Locust St
Ste. 202
Des Moines, IA 50309
- IMEG**
2882 106th St
Des Moines, IA 50263
- CONSULTANT:**
RIPE ASSOCIATES
10400 Yellow Circle Drive
Ste 100
Minneapolis, MN 55343

LOCATION MAP

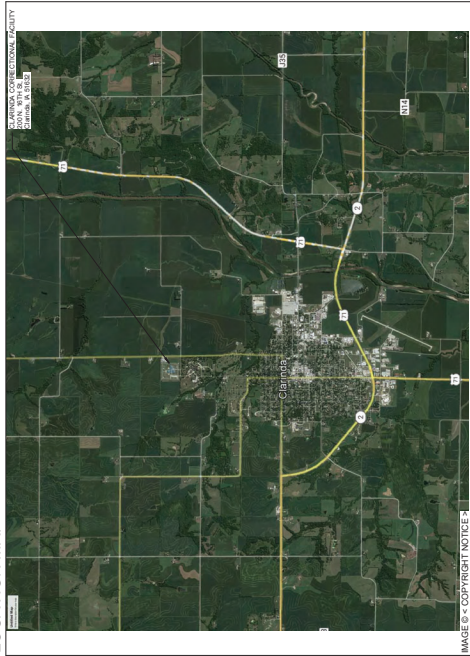
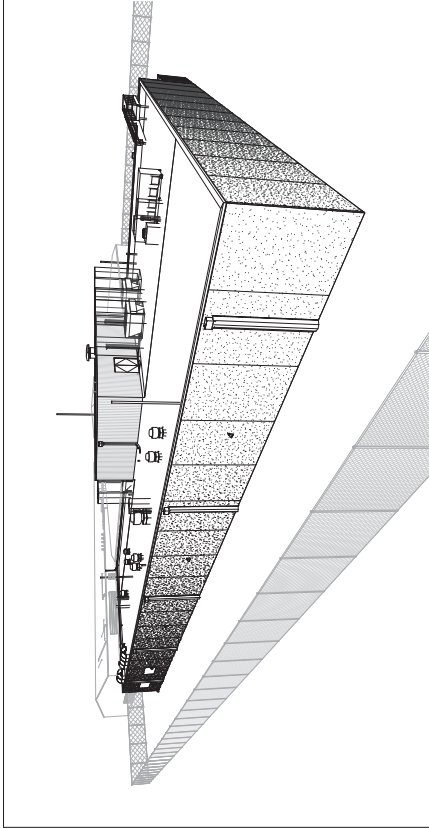


IMAGE © - COPYRIGHT NOTICE

PROJECT IMAGE



PROFESSIONAL REGISTRATIONS

<p>BETH V. BANDERHWA, P.E. LICENSE RENEWAL DATE: DEC 31, 2025 I HAVE REVIEWED THIS PROJECT AND THE WORK HAS BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA. I HEREBY CERTIFY THAT THE ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA. DATE: _____</p>	<p>ROBERT C. INDOSKY LICENSE RENEWAL DATE: DEC 31, 2025 I HAVE REVIEWED THIS PROJECT AND THE WORK HAS BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA. I HEREBY CERTIFY THAT THE ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA. DATE: _____</p>
<p>ERIC J. HENDERSON LICENSE RENEWAL DATE: DEC 31, 2025 I HAVE REVIEWED THIS PROJECT AND THE WORK HAS BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA. I HEREBY CERTIFY THAT THE ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA. DATE: _____</p>	<p>RIPE ASSOCIATES LICENSE RENEWAL DATE: DEC 31, 2025 I HAVE REVIEWED THIS PROJECT AND THE WORK HAS BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA. I HEREBY CERTIFY THAT THE ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA. DATE: _____</p>

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--	--



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 14223 UNIVERSITY AVENUE, SUITE 110
 CLARINDA, IA 51632
 (515) 252-3469 / (402) 469-4400
 www.farnsworth.com

RIPE ASSOCIATES
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 DES MOINES, IA 50319
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IFC
 04/09/2024

STATE OF IOWA - DEPARTMENT OF CORRECTIONS
 CLARINDA CORRECTIONS FACILITY - KITCHEN & LAUNDRY ADDITION

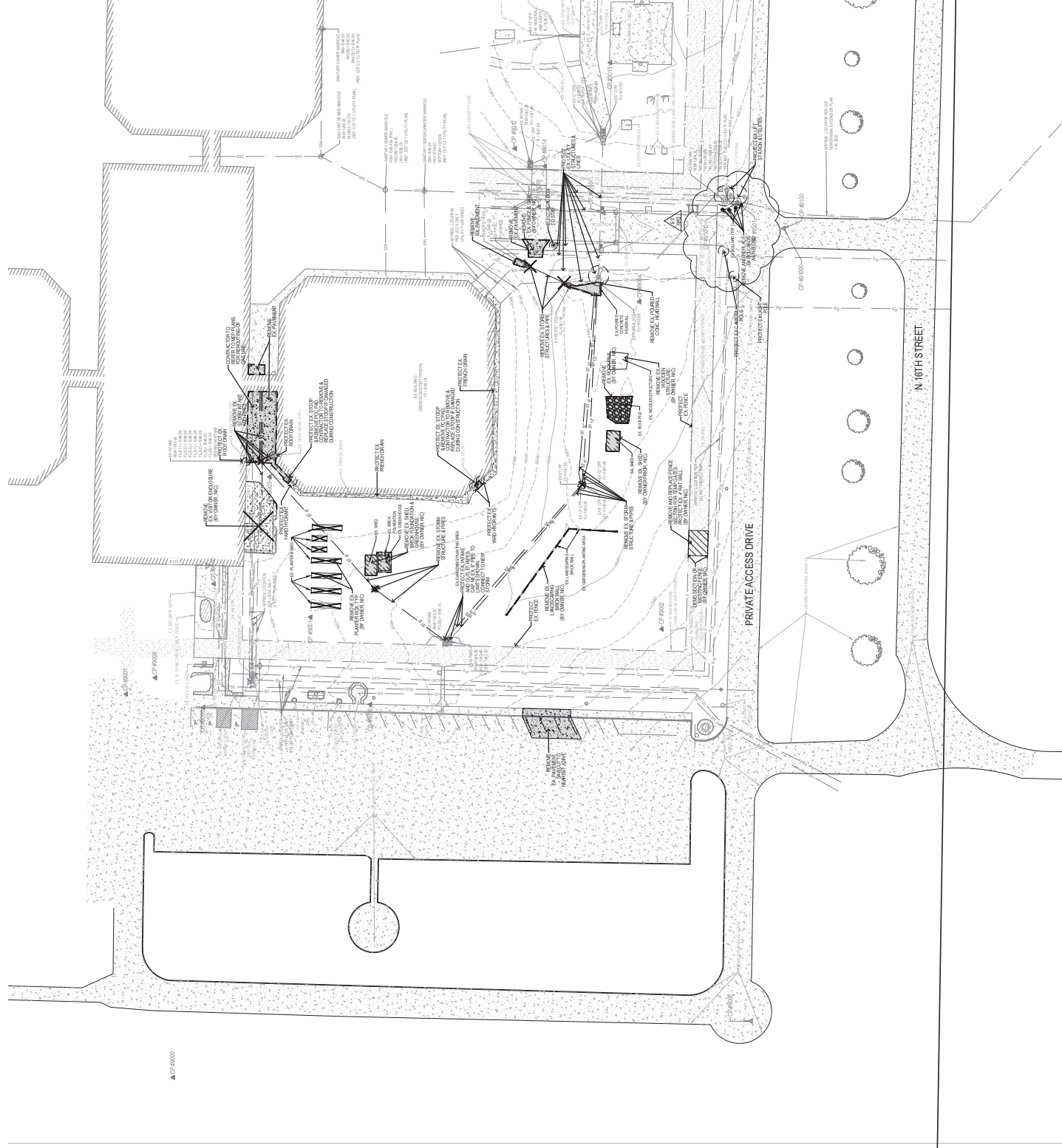
DATE: 02/09/2024
 DESIGNED: SVS
 DRAWN: LCR
 REVIEWED: SVS

EX CONDITIONS & DEMO PLAN

PROJECT NO.: **C1.1**

PROJECT NUMBER: 2400202.00
 R19512306.02

- REMARKS:**
1. VERIFY EXISTING ALL PAVEMENT TO FULL DEPTH OF SLAB.
 2. VERIFY EXISTING ALL UTILITIES AND REMOVE OR RELOCATE AS SHOWN.
 3. PAVEMENT ITEMS CALLED OUT FOR DEMO SHALL BE DEMOLISHED AND REPAIRED TO ORIGINAL CONDITION.
 4. CONCRETE TO BE DEMOLISHED SHALL BE DEMOLISHED TO ORIGINAL FINISH OR TO A FINISH TO BE DETERMINED BY THE ARCHITECT.
 5. DIFFERENT FROM WORK ON NO CONTACT TO CONCRETE ACTIVITIES. SEE ARCHITECT'S NOTES FOR CONCRETE ACTIVITIES.
 6. CONCRETE TO BE DEMOLISHED SHALL BE DEMOLISHED TO ORIGINAL FINISH OR TO A FINISH TO BE DETERMINED BY THE ARCHITECT.
 7. CONCRETE TO BE DEMOLISHED SHALL BE DEMOLISHED TO ORIGINAL FINISH OR TO A FINISH TO BE DETERMINED BY THE ARCHITECT.
 8. CONCRETE TO BE DEMOLISHED SHALL BE DEMOLISHED TO ORIGINAL FINISH OR TO A FINISH TO BE DETERMINED BY THE ARCHITECT.
 9. MATERIALS TO BE DEMOLISHED SHALL BE DEMOLISHED TO ORIGINAL FINISH OR TO A FINISH TO BE DETERMINED BY THE ARCHITECT.
 10. MATERIALS TO BE DEMOLISHED SHALL BE DEMOLISHED TO ORIGINAL FINISH OR TO A FINISH TO BE DETERMINED BY THE ARCHITECT.
 11. DEMOLITION SHALL BE COMPLETED BY OWNER.



PROJECT NO.: **C1.1**

PROJECT NUMBER: 2400202.00
 R19512306.02



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IMEG
Bishop Engineering
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 BOSTON, MA 02111
 www.bishopeng.com

DATE:	DESCRIPTION:
1	10/11/2020
2	10/11/2020
3	10/11/2020
4	10/11/2020

IFC
 04/09/2024

STATE OF IOWA - DEPARTMENT
 OF CORRECTIONS

CLARINDA
CORRECTIONS
FACILITY - KITCHEN &
LAUNDRY ADDITION

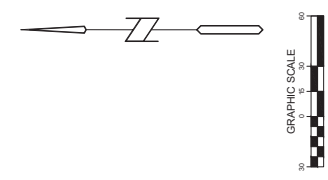
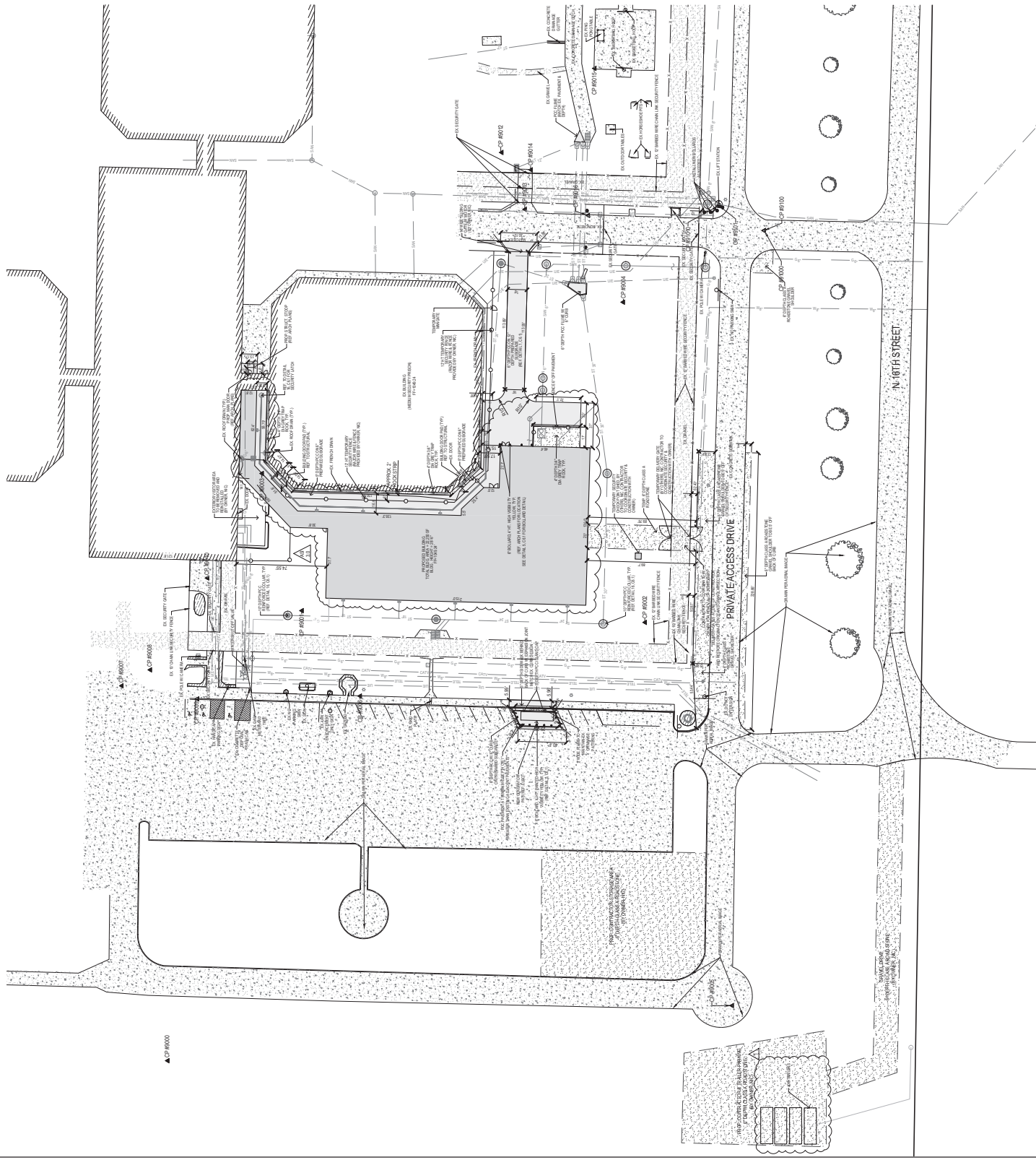
DATE:	02/09/2024
DESIGNED:	SYS
DRAWN:	LCR
REVIEWED:	SYS

LAYOUT PLAN

C2.1

PROJECT NO.: 240202.00
 R0152306-02

- GENERAL NOTES:**
- CONTRACTOR SHALL PROVIDE GUARANTEE LETTER FOR ALL WORK TO BE CONSTRUCTED AND BE REVIEWED BY THE ARCHITECT AND APPROVED BY THE STATE OF IOWA DEPARTMENT OF CORRECTIONS.
 - CONTRACTOR SHALL PROVIDE GUARANTEE LETTER FOR ALL WORK TO BE CONSTRUCTED AND BE REVIEWED BY THE ARCHITECT AND APPROVED BY THE STATE OF IOWA DEPARTMENT OF CORRECTIONS.
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 - CONTRACTOR SHALL PROVIDE GUARANTEE LETTER FOR ALL WORK TO BE CONSTRUCTED AND BE REVIEWED BY THE ARCHITECT AND APPROVED BY THE STATE OF IOWA DEPARTMENT OF CORRECTIONS.
- PERMITS & INSTALLATION NOTES:**
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE STATE OF IOWA DEPARTMENT OF CORRECTIONS.
 - CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE STATE OF IOWA DEPARTMENT OF CORRECTIONS.
 - CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE STATE OF IOWA DEPARTMENT OF CORRECTIONS.
 - CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE STATE OF IOWA DEPARTMENT OF CORRECTIONS.
- BUILDING & STRUCTURAL NOTES:**
- CONTRACTOR SHALL PROVIDE GUARANTEE LETTER FOR ALL WORK TO BE CONSTRUCTED AND BE REVIEWED BY THE ARCHITECT AND APPROVED BY THE STATE OF IOWA DEPARTMENT OF CORRECTIONS.
 - CONTRACTOR SHALL PROVIDE GUARANTEE LETTER FOR ALL WORK TO BE CONSTRUCTED AND BE REVIEWED BY THE ARCHITECT AND APPROVED BY THE STATE OF IOWA DEPARTMENT OF CORRECTIONS.
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 www.rippe.com

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 DENVER, CO 80202
 (303) 733-1100
 www.bishopeng.com

4. DATE: 02/09/2024
 5. DESCRIPTION: UTILITY PLAN
 6. DRAWN BY: LCR
 7. CHECKED BY: SYS
 8. APPROVED BY: SYS

IFC
 04/09/2024
 STATE OF FLORIDA - DEPARTMENT
 OF CORRECTIONS

**CLARINDA
 CORRECTIONS
 FACILITY - KITCHEN &
 LAUNDRY ADDITION**

2000 N 18TH ST, CLARINDA, FL
 32622

DATE: 02/09/2024
 DESIGNED: SYS
 DRAWN: LCR
 REVIEWED: SYS

UTILITY PLAN

C4.1

PROJECT NO.: R1952306-02

- GENERAL NOTES:**
1. CONTRACTOR TO PROVIDE GRADATION TESTING FOR ALL AREAS TO BE CONSTRUCTED AND REPORT INFORMATION TO THE CITY OF CLARINDA FOR RECORDATION AND INSTALLATION FROM EXISTING TO PROPOSED BOUNDARIES.
 2. ALL EXISTING UTILITIES SHALL BE PROTECTED AND NOT REMOVED UNLESS SPECIFICALLY NOTED OTHERWISE.
 3. ALL NEW UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF CLARINDA SPECIFICATIONS AND THE FLORIDA STATE BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS (FSBPEA) SPECIFICATIONS.
 4. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF CLARINDA SPECIFICATIONS AND THE FLORIDA STATE BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS (FSBPEA) SPECIFICATIONS.
 5. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF CLARINDA SPECIFICATIONS AND THE FLORIDA STATE BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS (FSBPEA) SPECIFICATIONS.
 6. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF CLARINDA SPECIFICATIONS AND THE FLORIDA STATE BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS (FSBPEA) SPECIFICATIONS.
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- ELECTRIC CRITICAL CROSSING NOTES:**
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