

Morgan County

REQUEST FOR PROPOSAL 2024 Facilities Infrastructure Replacement Project

PROJECT NAME: *Facilities Infrastructure Replacement Project*

**Morgan County
218 West Kiowa Avenue, P.O. Box 596
Fort Morgan, Colorado 80701
PH: 970-542-3500, ext. 1410 FAX: 970-542-3556
bccadmin@co.morgan.co.us**

Release Date: October 11, 2024

PROPOSAL INFORMATION

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PART 1 – REQUEST FOR PROPOSALS

WORK: *Facilities Infrastructure Replacement Project*

WORK NO.: RFP 2024-1031-001

SUBMITTAL DATE AND LOCATION:

Date of Request: October 11, 2024

Due Date for Proposals: October 30, 2024 by 4:00 p.m.

Submit two copies of the proposal to:
Mindi Cloyd, Administrative Services Manager
Morgan County
218 West Kiowa Avenue, P.O. Box 596
Fort Morgan, CO 80701

Proposal Opening: October 31, 2024 at 9 a.m.
231 Ensign Fort Morgan, Colorado, Assembly Room, basement of the Administration Building. Vendors and/or public will be able to view RFP opening via a Zoom meeting. Details will be posted on the County website at: <https://morgancounty.colorado.gov/bids-and-proposals>.

Morgan County requests proposals for one project to include the following subprojects. Each subproject shall be bid separately.

1. Morgan County Department of Human Services – HVAC Control Upgrade
2. Morgan County Justice Center – HVAC Unit Replacement, controls and lighting upgrade
3. Morgan County Administrative Building – HVAC Control Upgrade
4. Morgan County 60kw Solar Panel Array Installation

Any questions concerning this Request for Proposals shall be directed **IN WRITING ONLY** to Mindi Cloyd, Administrative Services Manager, FAX 970-542-3556, or E-MAIL: bccadmin@co.morgan.co.us.

Mindi Cloyd

Morgan County, Colorado

Published October 17, 2024
in the Morgan County Times

Posted October 11, 2024
Morgan County Website –
www.co.morgan.co.us

SPECIFIC PROJECT REQUIREMENTS

See attached drawings for the following elements of the project

Morgan County Department of Human Services – HVAC Control Upgrade

- M1.0 Basement Plan – Mechanical
- M1.1 First Floor – Mechanical
- M1.2 Mezzanine Plan – Mechanical
- M2.1 Section 230050 HVAC Specifications

Morgan County Administrative Building – HVAC Control Upgrade

- M1.0 Roof Plan – HVAC
- M2.0 Section 230050 HVAC Specifications

Morgan County Justice Center – HVAC Unit Replacement, controls and lighting upgrade

- M1.0 First Floor Mechanical (West)
- M1.2 First Floor Mechanical (East)
- M2.0 Division 22 – Plumbing
- M2.1 Division 23 – Heating, Ventilating, and Air-Conditioning
- M2.2 Division 23 – Heating, Ventilating, and Air-Conditioning Continued
- ED1.0 Electrical Demolition Plan (West)
- ED1.1 Electrical Demolition Plan (East)
- E1.0 Lighting Plan (West)
- E1.1 Lighting Plan (East)
- E2.0 Power Plan (West)
- E2.1 Power Plan (East)
- E3.0 Emergency Lighting Relay Detail
- E4.0 Section 260101 Common Electrical Work Specifications

Morgan County 60kw Solar Panel Array Installation

- E100 Electrical Plan
- E200 Site Detail
- E300 Division 26 – Electrical
- E301 Division 26 – Electrical Continued

PART 2 - INSTRUCTIONS TO RESPONDERS

- 2.1 A proposal is a responsive, conforming, unconditional, complete, legible, and properly executed offer by a responders to provide the work specified in the Request for Proposals (RFP) for the compensation specified.
- 2.2 Proposals shall be clearly marked with the work name, contact person, mailing address, and telephone number of the responder.
- 2.3 It shall be the responsibility of the responder to ensure that the proposal is in proper form and in the County's possession by or before the time and date designated in the RFP. Proposals will not be accepted after the designated time and date. Any proposal received late will be returned to the responder unopened, if possible.
- 2.4 If a mistake is made or discovered during or after the proposal review, the County reserves the right to determine which party made the mistake and whether the mistake is material and, after these determinations, the County, in its sole reasonable discretion, shall decide whether to accept or reject the proposal. No advantage shall be taken by any party of manifest clerical errors or omissions in any proposal and the Contract Documents. Responders shall notify the County immediately of any errors or omissions that are encountered.
- 2.5 Any interlineation, alteration, or erasure shall be initialed by the responder. On the proposal, the price of each item shall be stated in numerals and words; in case of conflict, the words shall control. In the case of conflict between the indicated sum of any addition of figures and the correct sum, the correct sum shall control.
- 2.6 The County shall not reimburse any responder for any cost incurred in preparing a proposal or attending equipment demonstrations, inspections, pre-meeting conferences, or interviews.
- 2.7 Any amplification, clarification, explanation, interpretation, or correction of a proposal shall be made only by written addendum, and a copy of the addendum shall be mailed or delivered to each person receiving a RFP. The County is not responsible for any amplification, clarification, explanation, or interpretation or correction of a proposal not contained in written addenda.
- 2.8 Proposals by corporations shall be executed in the corporate name by the president or a vice-president (or a corporate officer accompanied by evidence of authority to sign), and the corporate seal shall be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation shall be shown. Proposals submitted by partnerships shall be executed in the partnership name and signed by a partner, and the legal address of the partnership shall be shown. Proposals submitted by limited liability companies shall be executed in the company's name and signed by a member, and the legal address of the company shall be shown. Names and titles shall be typed or printed below each signature.
- 2.9 The following information shall be submitted with the proposal:
 - 2.9.1. The names and resumes of staff personnel who will be assigned to the work.

- 2.9.2 A complete proposed scope of work and schedule, including any alternatives that can be identified. The responder is expected to review the work site prior to submittal of the proposal.
- 2.9.3 The names and addresses of any subcontractors who will be retained for the work.
- 2.9.4 A list of the responder's previous experience on construction of similar projects.
- 2.9.5 A certificate of good standing with the Colorado Secretary of State, if responder is an entity.
- 2.9.6 A bid bond, as described below.
- 2.10 Any proposal received as a result of this request is prepared at the responder's expense and becomes County property. Proposals are public records under Colorado Open Records Act. If responder considers any information confidential, responders shall mark such information as "Confidential".
- 2.11 The submission of a proposal shall be conclusive evidence and a legal admission that the responder: (1) has no questions, complaints, or objections in connection with the RFP, subject to any requests made by the responder for amplification, clarification, explanation, interpretation, or correction; (2) has no questions, complaints, or objections as to the completeness, sufficiency, scope, or detail of the proposal; and (3) has full knowledge of the scope, nature, quality, and quantity of the equipment to be provided, the performance criteria, the requirements of the contract, the site and conditions of delivery, and applicable law.
- 2.12 The contract will be awarded to the lowest responsible and responsive responder complying with the terms and conditions, guidelines, and specifications presented in the RFP and these Instructions. The County reserves the right to determine, in its sole reasonable discretion, whether any proposal meets the needs or purposes intended and is within the approved budget. The County does not base its award on prices alone. Also to be considered are: quality of product; past experience with the responder or any subcontractors, consultants, products or suppliers; qualifications of the responder and/or subcontractors or suppliers; services offered; warranties; maintenance considerations; long-range costs; delivery; and similar conditions. While the County desires to award the all subprojects, it reserves the right remove or reduce any subproject to meet the County's budget.
- 2.13 The County reserves the right to conduct such investigations as it deems necessary to assist in the evaluation of any proposal to establish the experience, responsibility, reliability, references, reputation, qualifications, or financial ability of any responder, manufacturer or supplier. The purpose of such investigation is to satisfy the County that the responder has the experience, resources, and commercial reputation necessary to supply the specified equipment and to perform the necessary warranty and product support in accordance with the Contract Documents in the prescribed manner and time.
- 2.14 The final award shall be made by the Board of County Commissioners in the best interests of Morgan County. Morgan County may grant a 5% preference to local businesses. A local shall be a business which maintains a physical place of business in Morgan County.
- 2.15 The County reserves the right, if it deems such action to be in its best interests, to reject any and all proposals or to waive any irregularities or informalities therein. Any incomplete, false,

or misleading information provided by any responder shall be grounds for rejection of the proposal. If proposals are rejected, the County further reserves the right to investigate and accept the next best proposal in order of ranking, or to reject all proposals and re-solicit for additional proposals.

- 2.16 No proposal shall include federal excise taxes or state or local sales or use taxes.
- 2.17 In the event of any claim, suit, or demand which may result from any proposal, or the award of any contract as a result of submission of a proposal, Colorado law shall govern any such claim, suit, or demand and the rights and duties of the parties.
- 2.18 The proposal, including all required documents, shall be submitted using the enclosed forms. The summary and proposal schedule shall be used for submitting the fees, and the completed forms shall be submitted in a separate sealed envelope. The responder shall also include with the proposal schedule a breakdown of tasks that shows name, position, hours, and costs for each task.
- 2.19 Copies of the Contract Documents are available at the 218 West Kiowa Avenue, Fort Morgan, CO 80701.
- 2.20 All parts not specifically mentioned which are necessary in order to provide a complete unit, shall be included in the proposal. Any item listed as "Standard" in the manufacturer's published specification, furnished by the responder, is assumed to be included in the proposal. Any variations shall be outlined in writing, noting cost factors where applicable.
- 2.21 Proposals shall be in accordance with the specifications contained in the RFP. Should any requirement in the specifications not be included in manufacturer's specification sheets, the responder shall include, with its proposal, a statement of compliance. Failure to do so shall be grounds for disqualification of the proposal.
- 2.22 Each proposal shall include a statement of standard warranty of the manufacturer.
- 2.23 The County requires a bid bond in the form of a corporate surety bond in the amount of five percent of the total proposal amount before the County can accept and consider any proposal. Proposals with the required proposal bond shall be filed at the office of Administrative Services Manager, 218 West Kiowa Avenue, P.O. Box 596, Fort Morgan, CO 80701, with the fee schedule, proposal schedule, and proposal summary in a separate sealed envelope. Upon award, such bid bonds shall be returned to the unsuccessful responder(s). For the successful responder, the bid bond will be returned upon receipt of the required payment and performance bond, in the full amount of the contract price within the time and the executed contract period of the notice of award. Failure to return executed contracts and required payment and performance bond within the deadline stated in the notice of award will result in forfeiture of the bid bond.
- 2.24 No proposal may be withdrawn for a period of 60 days after the deadline for proposals.

PART 3 - PROPOSAL FORM

Name and Address of Responder: _____

Name of Company _____

Address of Company _____

City _____ State _____ Zip Code _____

Phone Number _____ Fax Number _____

Representative (Print Name) _____ Title _____

Signature _____

Email _____

Summary of Subprojects:

<u>Subproject</u>	<u>Subproject Totals:</u>
Morgan County Department of Human Services HVAC Control Upgrade	\$ _____
Morgan County Justice Center HVAC Unit Replacement	\$ _____
Morgan County Justice Center HVAC Controls	\$ _____
Morgan County Justice Center Lighting Upgrades	\$ _____
Morgan County Justice Center (Jail) Plumbing Controls	\$ _____
East Point Professional Center HVAC Unit	\$ _____
Morgan County Administrative Building HVAC Control Upgrade	\$ _____
Morgan County 60kw Solar Panel Array Installation	\$ _____
Total All Subprojects	\$ _____

RESPONDER'S QUALIFICATION STATEMENT

A Statement showing the qualifications of responder shall be a prerequisite to the responder being awarded the Contract. The qualification statement is intended to assure the County that a high degree of overall workmanship can be expected, and that the Work will be completed within the time limits contained in the Contract Documents.

All items on the statement must be answered in full and submitted with the proposal. The qualification statement will be reviewed by the County after all Proposals have been received and opened and prior to award.

The responder shall answer and furnish the following items for review:

1. Name of Responder. _____

2. Permanent address and phone number of Responder. _____

3. Date company was organized. _____

4. If a corporation, where incorporated. _____

5. Number of years engaged in contracting business under present firm or trade name. _____

6. Certified copy of financial statement prepared during current fiscal year as prepared for bank or bonding company.

7. List of current jobs new under contract, indicating client and telephone number, size, type of job and percentage of completion of each and date of completion. (Use additional sheets if necessary). _____

8. List of projects of this size and complexity completed within the last three (3) years along with contract amount, client's name and address. _____

SITE PLAN GENERAL NOTES

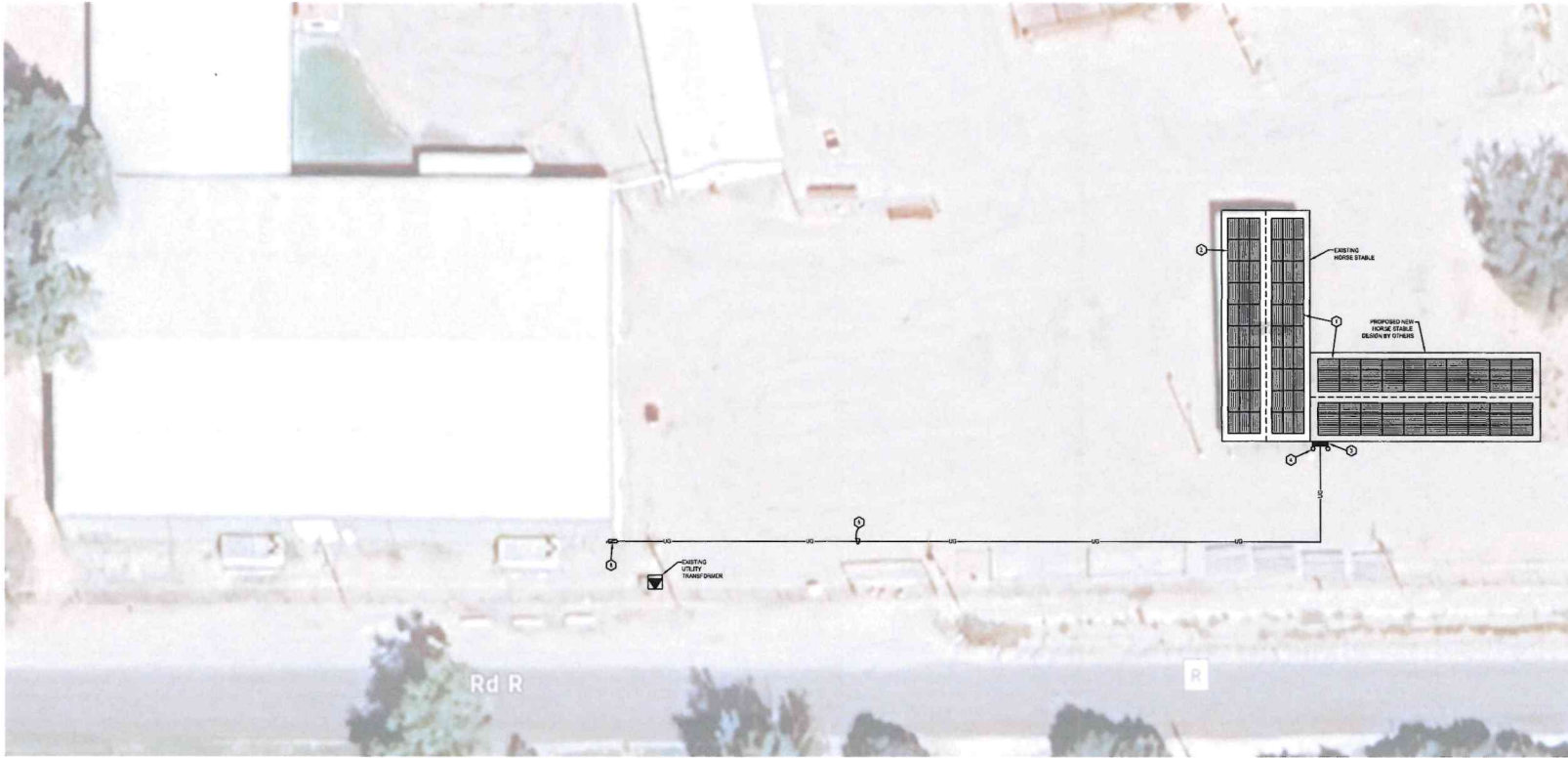
- A. VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DIGGING. EXCAVATING OR DIRECTIONAL BORING REPAIR EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- B. ALL UNDERGROUND CONDUIT SHALL BE 1" MINIMUM AND INSTALLED AT LEAST 18" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE, WITH RED WARNING TAPE AT 12".
- C. SCALE IS APPROXIMATELY 1" = 20' FT. UNIT MEASURES ARE TAKEN FROM INTERIOR CORNER VIEWS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND ACTUAL LENGTHS.

PHOTOVOLTAIC SYSTEM GENERAL NOTES

- A. COORDINATE WITH THE LOCAL UTILITY COMPANY ON ALL INTERCONNECT ON REQUIREMENTS. THE CONTRACTOR SHALL COMPLETE AND SUBMIT ALL FORMS AND PROCEDURES AS REQUIRED FOR INTERCONNECTION.
- B. THE PHOTOVOLTAIC SYSTEM SHALL COMPLY WITH RAPID SHUTDOWN REQUIREMENTS OUTLINED IN NEC 690.12.
- C. PROVIDE ALL IDENTIFICATION AND MARKING REQUIREMENTS FOR ALL WIRING AND DEVICES ASSOCIATED WITH THE PHOTOVOLTAIC SYSTEM AS OUTLINED IN NEC 90 PART IV.
- D. PROVIDE ALL MARKINGS, IDENTIFICATION, PLUGS, ETC. FOR PHOTOVOLTAIC SYSTEM AS OUTLINED IN NEC 90 PART IV.

SHEET NOTES

- 1. PROVIDE A MINIMUM 10% TYPICAL PHOTOVOLTAIC SYSTEM A PORTION OF THE SYSTEM SHALL BE MOUNTED TO THE ROOF OF THE EXISTING HORSE STABLE STRUCTURE AND THE OTHER PORTION SHALL BE MOUNTED TO NEW HORSE STABLE STRUCTURE. NEW STRUCTURE IS DESIGNED BY OTHERS. COORDINATE WITH OWNER.
- 2. ROOF-MOUNTED SOLAR MODULES (TYPICAL)
- 3. SOLAR INVERTER AND SOLAR DISCONNECT MOUNTED ON UNSTRUCTURED RACKING SYSTEM. SEE POWER RACKING CONDIM AND ASSOCIATED DETAIL FOR FURTHER REQUIREMENTS.
- 4. PROVIDE WIND-UP PROTECTIVE ROLLS AS SHOWN BY EQUIPMENT, SEE ASSOCIATED DETAIL (TYPICAL)
- 5. INSTALL FENCED FOR PHOTOVOLTAIC SYSTEM A MINIMUM OF 10' BELOW FINISHED GRADE. REFER TO DETAIL FOR WARNING TAPE AT 12"
- 6. INSTALL NEW SERVICE DISCONNECT FOR PHOTOVOLTAIC SYSTEM ADJACENT TO EXISTING BALANCE SERVICE DISCONNECTS. SEE POWER RACKING CONDIM FOR FURTHER REQUIREMENTS.



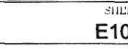
PHOTOVOLTAIC SYSTEM
for
MORGAN COUNTY FAIRGROUNDS

PROJECT #
DATE 10/03/24
DRAWN TMR

REVISIONS

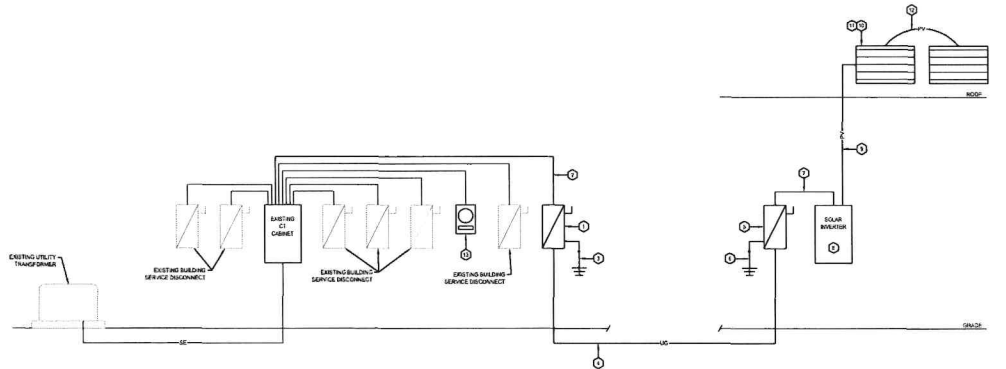
NO.	DESCRIPTION

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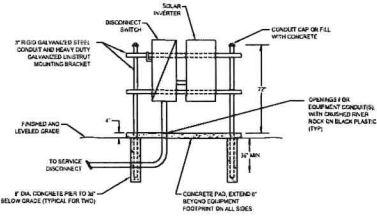


SHEET
E100

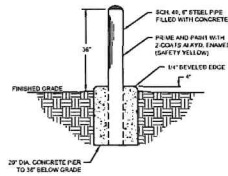
1 ELECTRICAL PLAN - PHOTOVOLTAIC SYSTEM
SCALE: SEE SITE PLAN GENERAL NOTES



1 POWER RISER DIAGRAM
E200 NO SCALE



2 EQUIPMENT MOUNTING DETAIL
E200 NO SCALE



3 PROTECTIVE BOLLARD DETAIL
E200 NO SCALE

PHOTOVOLTAIC SYSTEM GENERAL NOTES

- A. COORDINATE WITH THE LOCAL UTILITY COMPANY ON ALL INTERCONNECTION REQUIREMENTS. THE CONTRACTOR SHALL COMPLETE AND SUBMIT ALL FORMS AND PROCEDURES AS REQUIRED FOR INTERCONNECTION.
- B. THE PHOTOVOLTAIC SYSTEM SHALL COMPLY WITH RAISED SHUT/DOWN REQUIREMENTS OUTLINED IN NEC 690.12.
- C. PROVIDE ALL IDENTIFICATION AND MARKING REQUIREMENTS FOR ALL WIRING AND SERVICES AS SPECIFIED WITH THE PHOTOVOLTAIC SYSTEM AS OUTLINED IN NEC 690 PART IV.
- D. PROVIDE ALL MARKINGS, IDENTIFICATION PLACQUES, ETC. FOR PHOTOVOLTAIC SYSTEM AS OUTLINED IN NEC 690 PART IV.

SHEET NOTES

- 1. PROVIDE A SERVICE ENTRANCE RATED, 60V, 250AMP, FUSIBLE, NEMA 3A DISCONNECT SWITCH FUSE AT 125 AMPS LINES PER NEC 690 REQUIREMENTS.
- 2. PROVIDE 4-#10 AWG IN 1/2\"/>
- 3. BOND NEW PV SERVICE DISCONNECT TO EXISTING BUILDING SERVICE GROUNDING SYSTEM PER NEC REQUIREMENTS. FIELD VERIFY EXISTING CONDITIONS.
- 4. PROVIDE 4-#10 AWG, #20 AWG OR 2\"/>
- 5. 1. PROVIDE A 10V, 200 AMP, FUSIBLE, NEMA 3A DISCONNECT SWITCH, FUSE AT 125 AMPS, LABEL PER NEC 690 REQUIREMENTS. LOCATE ROOM NEAR AND GROUND BUS.
- 6. GROUNDING AND BOND ELECTRICAL SYSTEM IN ACCORDANCE WITH THE NEC. PROVIDE 6-#10 1/2\"/>
- 7. PROVIDE 4-#1 AWG, #20 AWG OR 1/2\"/>
- 8. PROVIDE A GROUND, 48V, 3 PHASE SOLAR INVERTER, YASKAMA MODEL PV-ETL-48 OR EQUAL.
- 9. PROVIDE PHOTOVOLTAIC WIRING AS REQUIRED FROM PHOTOVOLTAIC SYSTEM TO 200 AMP INVERTER. QUANTITY AND SIZE AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. WIRING SHALL BE INSTALLED IN RIGID-STEEL CONDUIT (TYPICAL).
- 10. PROVIDE SOLAR MODULE QUANTITY AS REQUIRED FOR PHOTOVOLTAIC SYSTEM AS SPECIFIED. CONDUIT FOR SOLAR MODULES SHALL BE INSTALLED IN RIGID-STEEL CONDUIT. QUANTITY, TYPE, SIZE, ETC. FOR A COMPLETE AND OPERABLE SYSTEM. BOND OF PUGH'S IS ANNO SOLAR US EAGLE GS SERIES. SECURITY GROUND WIRING.
- 11. PROVIDE SOLAR MODULE RACKING SYSTEM. SECURE TO ROOF AND INSTALL SOLAR MODULE PER MANUFACTURER'S INSTRUCTIONS. RACKING SYSTEM BY USRAC OR EQUAL.
- 12. PROVIDE PHOTOVOLTAIC WIRING BETWEEN SOLAR MODULES AS REQUIRED. 200 AMP RACKING, WIRING SHALL BE INSTALLED OUTSIDE OF THE ARRAY. WIRING SHALL BE INSTALLED IN RIGID-STEEL CONDUIT. WHERE INSTALLED INSIDE ARRAY AND ALLOWABLE BY THE NEC, WIRING CAN BE INSTALLED FREE AIR. WHERE PLASTIC TIES ARE USED TO SECURE WIRING PLASTIC TIES SHALL BE UV RESISTANT TYPE. (TYPICAL)
- 13. UPGRADE ALL TERSING SERVICES PER LOCAL UTILITY COMPANY'S REQUIREMENTS. COORDINATE WITH UTILITY COMPANY.



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702 South Bay Street - Suite 201 - P.O. Box 43108
Raleigh, North Carolina 27604-0310



Engineering Technology Inc.
Mechanical & Electrical
102 W. South St. - Suite 201 - Raleigh, NC 27601
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Fax: 919.733.1111
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PHOTOVOLTAIC SYSTEM

for
MORGAN COUNTY FAIRGROUNDS

PROJECT #:
DATE 10/03/24
DRAWN TMR

REVISIONS

NO.	DATE	DESCRIPTION

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JOSEPH R. HERINGLEY &
ASSOCIATES, INC.
MECHANICAL
ELECTRICAL
PLUMBING
HVAC

SHEET
E200



Joseph R. Herwig & Associates, Inc.
7700 West Valley Parkway, Suite 400
Littleton, Colorado 80120
Phone: (303) 751-1100
Fax: (303) 751-1101



PHOTOVOLTAIC SYSTEM
for
MORGAN COUNTY FAIRGROUNDS

PROJECT # _____

DATE 10/03/24

DRAWN: TMR

REVISIONS



SHEET

E301

3. Stainless Steel Nuts/Bolts: Minimum thickness of 1/32 inch, engraved or laser-etched head.
4. Anodized Aluminum: Anodized, minimum thickness of 1/32 inch, engraved or laser-etched head.

6. Furnish all Equipment Identification:
1. Minimum Size: 1 inch by 2.5 inches.
2. Text: All equipment shall be identified with:
3. Minimum Text Height:
a. Equipment Designation: 1/2 inch.
b. Other Information: 1/8 inch.

4. Color:
a. Normal Power System: White and on black background.
b. Emergency Power System: White text on red background.

2.2 UNDISBURSED WARRANTY TABLE

A. Materials: Use the highest electrical type polyethylene hose suitable for direct burial, unless otherwise indicated. 3 inches wide, with minimum thickness of 3 mm, unless otherwise required for proper dielectric. An impact resistant cover full length of pipe.

B. Cable:
1. Type for Buried Power Lines: Black steel on red background.

PART 3 EXECUTION

3.1 INSTALLATION

A. Install identification products to be clearly visible for examination, adjustment, servicing, and maintenance.
B. Install underground warning tape above buried lines with one tape strand at _____ inches below finished grade.

END OF SECTION 26053

SECTION 26058 - WIRING CONNECTIONS

PART 1 GENERAL - NOT USED

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.1 ELECTRICAL CONNECTIONS

A. Make electrical connections in accordance with equipment manufacturer's instructions.
B. Make conductive connections to equipment using flexible conductors: Use liquid-tight flexible conduct with neoprene conductors in damp or wet locations.
C. Connect heat-producing equipment using wires and cable with insulation suitable for temperature conditions.
D. Install suitable strain-relief clamps and fittings for cord connections to outlet boxes and equipment connection boxes.
E. Install disconnect switches, controllers, control stations, and control devices to comply equipment wiring requirements.
F. Install disconnect switches to comply equipment wiring requirements.
G. Install interconnecting conduit and wiring between devices and equipment to complete equipment wiring requirements.

END OF SECTION 26058

SECTION 26111 - FUSES

PART 1 GENERAL - NOT USED

PART 2 PRODUCTS

2.1 APPLICATIONS

A. Fuses:
1. Fuses: Suitable up to 600 Ampere: Class RK1, time-delay.
2. Fuses: Suitable Larger Than 600 Ampere: Class K, time-delay.
3. General Purpose Branch Circuit: Class RK1, time-delay.
4. Industrial Motor Branch Circuit: Class RK1, time delay.
5. Primary Protection for Control Transformers: Class CC, time-delay.

2.2 FUSES

A. Unless specifically indicated to be enclosed, provide fuses for all fusable equipment as required for a complete operating system.
B. Voltage Rating: Suitable for circuit voltage.
C. Provide the following characteristics where indicated or where required to complete installation:
1. Fuses: Compatible with indicated fuses.
2. Fuse Recesses: For fusing indicated fuses to permit installation in switch designed for fuses with lower current ratings.

PART 3 EXECUTION

3.1 INSTALLATION

A. Do not install fuses until circuits are ready to be energized.
B. Install fuses with lower current than that manufacturer type, and use an easy reset.

END OF SECTION 26111

SECTION 26117 - ENCLOSURE SYSTEMS

PART 1 GENERAL - NOT USED

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. ABB
B. Eaton Corporation
C. Schneider Electric: Square D Products
D. Siemens Industry, Inc.

2.2 ENCLOSED SAFETY SWITCHES

A. Description: Quick-break, coil-break enclosed safety switches listed and labeled as complying with UL 98, heavy duty, ratings, configurations, and features as indicated on the drawings.
B. Voltage Rating: Suitable for circuit voltage.
C. Voltage Rating: Suitable for circuit voltage.
D. Provide with switch blade locked position that is visible when the cover is open.
E. Enclosures: Comply with NFPA 70B, and list and label as complying with UL 98 and UL 1001.

F. Heavy Duty Switch:
1. Comply with NFPA 70B.
2. Comply with UL 98.
3. Provide mechanical lock unless otherwise indicated.
4. Lug Material: Copper, suitable for bare-copper conductor only.
5. Provide interlock operation handle with means for locking in the OFF position, capable of supporting three positions.
6. Provide the following features and accessories where indicated or where required to complete installation:
1. Lock: As required for compliance type; Lock to include lockable in the on position.

PART 3 EXECUTION

3.1 INSTALLATION

A. Fuses where indicated to be mounted adjacent to the equipment they supply, mount enclosed switches with the highest position of the operating handle not to exceed 79 inches above the floor or working surface.

END OF SECTION 26117

SECTION 26139 - PHOTOVOLTAIC COLLECTORS

PART 1 GENERAL

1.1 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
1. Coordinate arrangement of a structural equipment with the dimensions and clearance requirements of the final equipment to be installed.
2. Read-Made Array: Coordinate the work with other trades to provide roof penetrations that preserve the integrity of the roofing system and do not void the roof warranty.
B. Professional Marking: Coordinate work with other trades at the location, require allowance of all related trades. Include adequate protection on the finished surfaces associated with photovoltaic systems and appropriate safety procedures to be followed.
C. Release and Receipt: Provide and submit documentation as required by Owner to verify funds have been received, lists, and utility company release and clearance program. Notify Owner of any new conditions affecting program completion.
D. Utility Interconnection:
1. Professional Marking: Coordinate work with utility company requirements.
2. Coordination with Utility Company to provide utility marking suitable for system requirements.
3. Arrive for interconnect and submit permit necessary to allow Utility Company approval of system.

1.2 SUBMITTALS

A. See Section 01300 - Administrative Requirements, for submittal procedures.
B. Design Documents: Prepare and submit all information required for plan review and permitting by authority having jurisdiction, including but not limited to floor plans, flow diagrams, details, and description of operation.
C. Product Data: Provide manufacturer's standard catalog pages and data sheets for each product. Include ratings, configurations, standard wiring diagrams, and the support part descriptions. Include voltage service condition requirements, and installed features.
D. Shop Drawings: Include dimensioned plan view and sections including locations of system components, electrical characteristics, attachment locations and details, and proposed site, type, and mounting of conductors and cables. Include safety interconnection schematic diagrams showing all safety and field connections.
E. Shop Data:
1. Include structural calculations, certified by structural engineer, for equipment and mounting systems upon request.
2. Include electrical calculations for array and associated equipment.
3. Include the Definition Statement.

G. Operation and Maintenance Data: Include detailed information on system operation, equipment programming and safety, equipment installation, maintenance procedures and intervals.
H. Warranty: Submit samples of manufacturer's warranty and documentation of final installed warranty completed by Owner's name and registered with manufacturer.
I. Project Record Documents: Record final location of system components, installed electrical interconnections and routing, and final equipment settings.

1.3 QUALITY ASSURANCE

A. Comply with NFPA 70.
B. Comply with Utility Company requirements for interconnection.
C. Insular Qualification: Complete preparation in conformity with work of this section with minimum three documented experiences with photovoltaic systems of any size, type, and complexity.
1. Location: In state in which the Project is located to install photovoltaic systems.
2. Education: North American Board of Certified Energy Practitioners (NABCEP) certified PV Installer or three years equivalent experience in installation of photovoltaic systems.
3. Installable Products: At least 2 years of experience installing photovoltaic systems.
D. Product Label: Provide label on equipment. An application recognized by UL as a nationally recognized Testing Laboratory (NRTL) and acceptable to authority having jurisdiction.

1.4 WARRANTY

A. See Section 01300 - General Submittals, for additional warranty requirements.
B. Photovoltaic Module:
1. Provide minimum five-year manufacturer warranty covering repair or replacement due to defective materials or workmanship.
2. Provide manufacturer warranty guaranteeing minimum 30 percent of rated power output for 10 years and minimum 80 percent of rated power output for 20 years.
C. Photovoltaic Module Mounting System: Provide minimum 10-year manufacturer warranty covering repair or replacement due to defective materials or workmanship.
D. Photovoltaic Inverter: Provide minimum five-year manufacturer warranty covering repair or replacement due to defective materials or workmanship.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Photovoltaic Module: Jinko Solar US Eagle G5 Series 235 Watt or Equal.
B. Photovoltaic Module Mounting System: Unimac or Equal.
C. Photovoltaic Inverter: Vestas Solaria Solar or Equal.
D. Source Limitation: For each type of component, furnish products produced by a single manufacturer and certified as single source.
2.2 PHOTOVOLTAIC SYSTEM REQUIREMENTS

A. Provide complete photovoltaic system consisting of photovoltaic modules and associated balance of system components necessary for operation to facility electrical system.
B. System Description:
1. Photovoltaic array to be installed in location indicated on the drawings.
2. Orientation of array is as indicated on the drawings.
3. System includes interconnection with utility grid (optional system).
4. Grounding to secure funds from available federal, state, and utility company rebate and incentive program.
C. Capacity:
1. Total Nameplate Rated Power Output of Array: Equal to or greater than the rated output of the base of design array.
D. Size:
1. Array: Designed to fit within the area designated on the drawings.
2. Individual Module: Size as indicated.
E. Provide photovoltaic system and associated components suitable for available local, state, and utility company rebate and incentive program.
F. Provide photovoltaic system and associated components suitable for continuous operation under the service conditions as the installed location.
G. Provide photovoltaic system and associated components that qualify for available local, state, and utility company rebate and incentive program.
H. Unless specifically indicated in the schedule, provide all required equipment, conduct, buses, wiring, connections, hardware, supports, accessories, software, system programming, etc. as necessary for a complete operating system.
I. DC-Fault-Circuit Protection: Provide DC photovoltaic over-voltage protection devices listed as complying with UL 1699B as required for compliance with NFPA 70.
J. Read-Made Array: Provide Read-Made Array. Provide listed equipment arranged to provide rapid installation in accordance with NFPA 70.
K. Arraying equipment to provide minimum clearances to interconnection with manufacturer's instructions and NFPA 70.
L. Arrange array to minimize shading during peak production periods.

2.3 PHOTOVOLTAIC MODULES

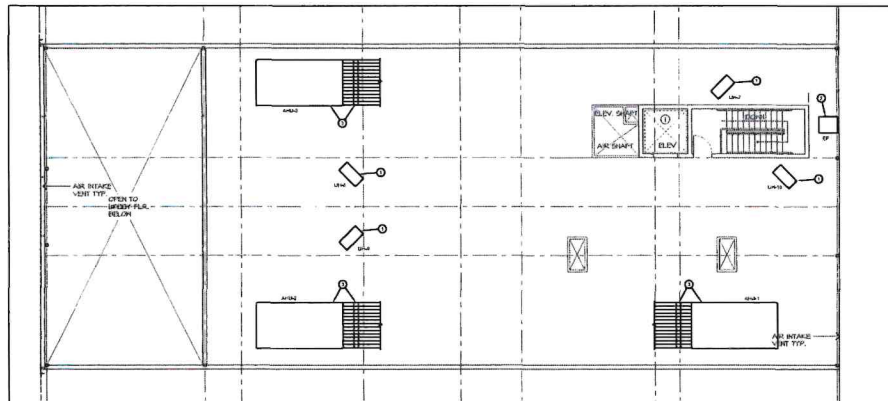
A. Acceptable Module Types: Either crystalline silicon or thin film modules complying with specified requirements to be submitted for the project.
B. General Requirements:
1. Photovoltaic Module: Factory assembled, consisting of photovoltaic cells, frame, junction box, cables for series connection, and safety features for shade tolerance, rated for 600 V DC, complying with IEC 61215 and IEC 61212 and listed as complying with UL 1703.
2. Frame: Anodized Aluminum: Weatherproof, with fully insulated terminals and polyurethane backing connections.
3. Factory Installed Cable: Type USE-2 or listed photovoltaic (PV) wire with approved backing connections.
4. Unless otherwise indicated, specified module performance characteristics are relative under Standard Test Conditions (STC).
2.4 BALANCE OF SYSTEM COMPONENTS

A. Photovoltaic Module Mounting System:
1. Provide complete mounting system compatible with modules to be installed and suitable to properly mount them in the location indicated, including all necessary hardware and accessories.
2. Support Structure and Associated Hardware Materials: Use aluminum, galvanized steel, or stainless steel.
3. Read-Made Array:
a. Provide suitable compatible with the roof at the installed location.
B. Photovoltaic Inverter:
1. Provide inverter as indicated or as required for connection of the photovoltaic array DC system to the AC system interface.
2. Inverter: Suitable for the requirements of the connected array, rated configuration compatible with connected system; listed as complying with UL 1741, furnished with the following features:
a. Maximum power point tracking (MPPT).
b. LCD display.
c. Integral AC disconnect.
d. Integral DC disconnect.
3. Grid-Tie Inverter: Comply with IEEE 1547, including over-voltage grid voltage and frequency protection, and anti-islanding protection to automatically disconnect upon loss of utility power and to remain disconnected until utility power restoration has been maintained for five minutes.

PART 3 EXECUTION

3.1 INSTALLATION

A. Install products in accordance with manufacturer's instructions.
B. Provide required support and attachment in accordance with Section 26028.
C. Mount equipment such that the highest portion of any opening frame for circuit breakers or switches does not exceed 79 inches above the floor, ground, or working surface.
D. Circuiting Requirements: In Addition to Requirements of Section 26028:
1. Wiring Methods:
a. Unless otherwise indicated, use exposed metal factory-rated cables (not metal clad) building for metal interconnections.
b. Unless otherwise indicated, use exposed type USE 2B/USE 2B-2 underground cable (not metal clad) building for energy bearing (energized) and conductor (energized).
c. Unless otherwise indicated, use type THHN/THWN-2 large conductor building wire in suitable enclosures for wiring between connection boxes and panel interconnection.
d. Support required cables in accordance with NFPA 70, unless provided, unless noted, using rigid metal cable in suitable runways where readily accessible or where required by authority having jurisdiction.
e. Install cables in suitable runways where readily accessible or where required by authority having jurisdiction.
f. Use suitable lead-on installed support conductors, mechanical connections, or compression connections for photovoltaic circuit cables and bus.
2. Maintain separation of photovoltaic and non-photovoltaic cables in accordance with NFPA 70.
E. Grounding and Bonding Requirements: In Addition to Requirements of Section 26028:
1. Ensure that there is only one AC system bonding connection between grounding system and photovoltaic system conductors, including neutral connections and conductors related to equipment.
2. Identification Requirements: In Addition to Those Specified in Section 26028:
1. Use identification tags or means of identification acceptable to authority having jurisdiction to identify the locations of multiple panel modules and the location of main service disconnecting means and each photovoltaic system disconnecting means. Locate all main service disconnecting means and all each photovoltaic system disconnecting means. Verify labels and descriptions with authority having jurisdiction.
2. Use identification tags to identify each photovoltaic system disconnecting means with type UV-312H or 312H.
3. Use identification tags or identification label to identify systems equipped with rigid shut-down and shutdown panels (readily accessible, marked, labeled, and located to comply with NFPA 70 and requirements of authority having jurisdiction).
4. Use identification tags or identification label to identify the information required by NFPA 70 for marking of direct-current photovoltaic power sources. Locate at each DC disconnect means requiring marking.
5. Use identification tags or identification label to identify the interactive system point of interconnection of the disconnecting means to a power source and with the rated AC input current and the normal operating AC values.
6. Use markings tags to identify electrical hazards for photovoltaic system disconnecting means. Include the word "WARNING - Electric Shock Hazard." Terminals on the line and bond leads may be energized in the open position or approved bypassed.
7. Use wire and cable means to identify photovoltaic system sources, output, and inverter circuit connections at all points of interconnection, including disconnecting means.



GENERAL NOTES

1. ALL EQUIPMENT SHALL BE BASED OFF OF EQUIPMENT DRAWING PAGES FOR MANUFACTURER'S DATA SHEETS. EQUIPMENT IS SPECIFIED BY THE CONTRACTOR AND SHOWN IN THE SPECIFICATIONS FOR CONTROL EQUIPMENT.

SCHEDULES

1. PROVIDE NEW VAVT FOR OPERATIONAL CONTROL AND CONTROL VALVE ACTUATOR, VAVT AND EXISTING TYPICAL UNIT. GENERAL.
2. PROVIDE NEW CONTROL VAVT OPERATIONAL CONTROL.
3. PROVIDE NEW VAVT AND EXISTING UNIT OPERATIONAL CONTROL AND NEW CONTROL VAVT AND EXISTING UNIT FOR AIR SOURCE. CONTROLS UNIT IS A TYPICAL MULTIZONE UNIT. PROVIDE NEW ACTUATORS ON VAVT, OPERATIONAL AND CONTROL.



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08.19.24

CONSULTANTS



MORGAN COUNTY DEPARTMENT OF HUMAN SERVICES
 FORT MORGAN, COLORADO

PROJECT #
DATE: 8.19.24
DRAWN: JH / RS
CHECKED: JH

NO.	REVISIONS

MECHANICAL
TITLE: M1.2 - MECHANICAL
DATE: 8.19.24



M1.2 SHEET

- D. Check:
1. That valve handling range is not locked, pump behavior and breakaway.
 2. That valve handling range is not locked, pump behavior and breakaway.
 3. That valve handling range is not locked, pump behavior and breakaway.
 4. That valve handling range is not locked, pump behavior and breakaway.
13. CHECKLIST FOR STARTUP (SEE INSTRUCTIONS AND LOGS)
- A. Test Schedule. Start and stop supply fan. Check for leaks by correct handling schedule. If the fan is shut on intermission, signal alarm.
- B. Safety Checks:
1. Safety Protection. Stop fans upon coil temperature control values and close related air dampers. If temperature deterioration of gas coil coil is below 37 degrees F, signal warning alarm. At start up, test emergency shutdown means to ensure a timely response to fan stop.
 2. Safety Protection. Stop fans upon coil temperature control values and close related air dampers. If temperature deterioration of gas coil coil is below 37 degrees F, signal warning alarm. At start up, test emergency shutdown means to ensure a timely response to fan stop.
- C. Air Handler Handling Cycle:
1. When fan is not running and outdoor air temperature is below 40 degrees F, fully open and return to heating.
 2. When fan is running, outdoor air control valve to handle discharge air temperature required. If heat pump control provides adequate heating.
- D. Fan Coil:
1. Make fan discharge air temperature at 50 degrees F by energizing heat pump during a call for cooling and closing to handle room temperature control. Energize heating when on heat pump for heating and open to handle room temperature control.
- E. Check: Return air filter condition:
1. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 2. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 3. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 4. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 5. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 6. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 7. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 8. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 9. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 10. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 11. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 12. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 13. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
 14. When supply fan is not running, return air filter condition, air filter and return dampers to be open.
- F. Heating System:
1. Check return air at 72 degrees F. Includes zone dampers and restrictors to meet space temperature.
- G. Check:
1. System program.
 2. System control location.
 3. Control fan coil condition.
 4. Outdoor air temperature location.
 5. Heat exchanger temperature location.
 6. Fan discharge air temperature location.
 7. Fan discharge temperature control panel adjustment.
 8. Fan discharge temperature location.
 9. Fan discharge temperature location.
 10. Fan discharge temperature location.
 11. Fan discharge temperature location.
 12. Fan discharge temperature location.
 13. Fan discharge temperature location.
 14. Fan discharge temperature location.
14. UNIT HEADERS
- A. Return temperature sensor location control space temperature at 50 degrees F by closing unit fan motor.
15. POINTS LIST
- A. All control points will be addressed according to actual manufacturer equipment identification numbers and room numbers.
- END OF SECTION - EDWES



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06.19.24

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MORGAN COUNTY DEPARTMENT OF HUMAN SERVICES
 FORT MORGAN, COLORADO

PROJECT #
 DATE: 8.19.24
 DRAWN: RJH / RS
 CHECKED: JH

REVISIONS

NO.	DATE	DESCRIPTION

JOSEPH R. HEUGLEY
 LICENSE NO. 10000
 STATE OF COLORADO

JOSEPH R. HEUGLEY
 LICENSE NO. 10000
 STATE OF COLORADO

GENERAL NOTES

A. FIELD VERIFY EXISTING CONDITIONS AND LOCATION OF ALL THROUGH ROOF PENETRATIONS AND TO BE REINFORCED WITH ANCHORS THROUGHOUT AS SHOWN IN CORRESPONDING LOCATION.

SHEET NOTES

1. PROVIDE BRACKET INTERFACE AT ROOFTOP AND NEW CONTROLS SYSTEM.



Joseph R. Hewgley & Associates, Inc.
2100 South Broadway, Suite 400
Denver, Colorado 80202 • Tel: 303.733.4100

SEAL



06.19.24

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**MORGAN COUNTY ADMINISTRATIONS
BUILDING**

FORT MORGAN, COLORADO

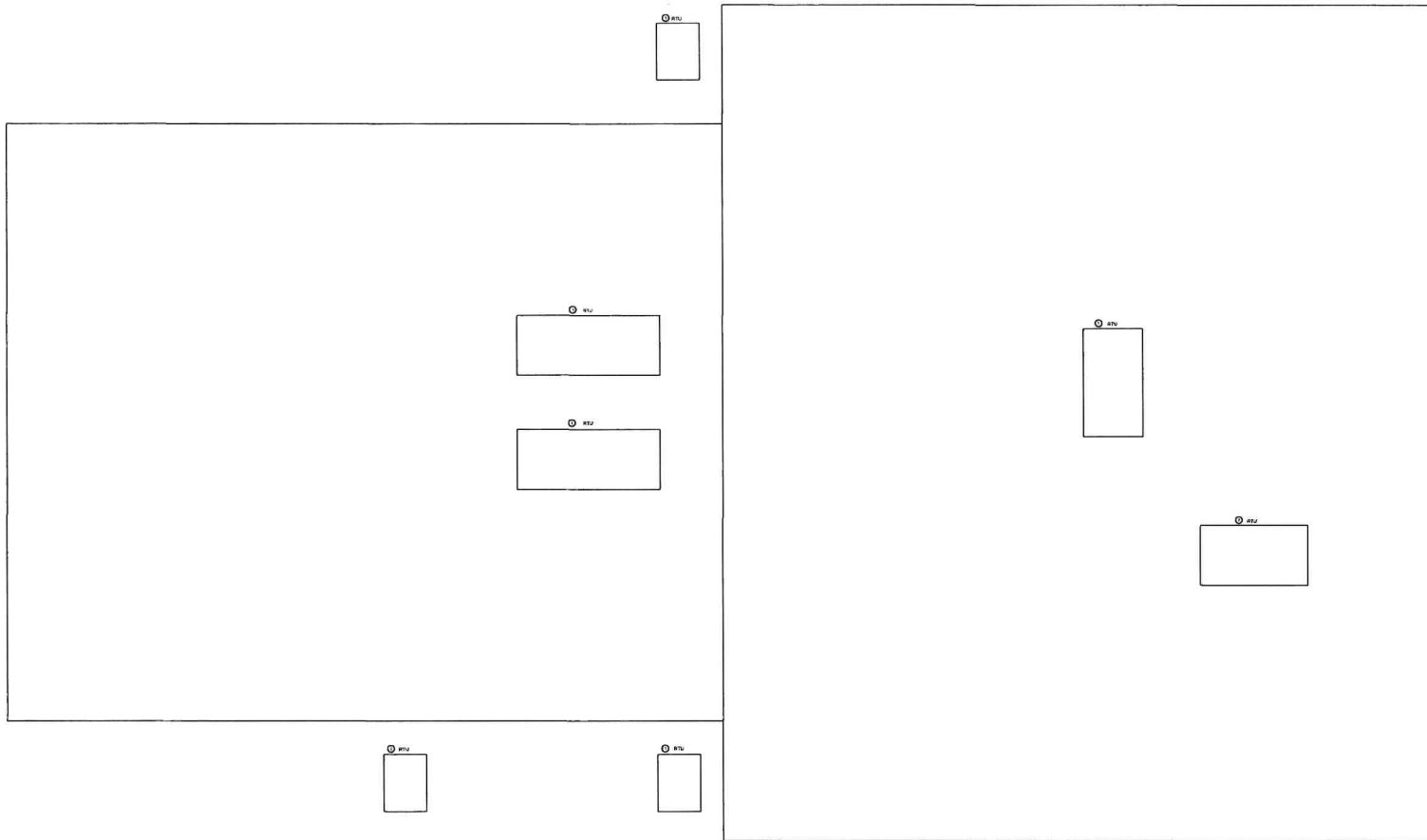
PROJECT #
DATE: 8.19.24
DRAWN: JH / RS
CHECKED: JH
REVISIONS

NO.	DESCRIPTION	DATE

JOSEPH R. HEWGLEY
REGISTERED PROFESSIONAL ENGINEER
NO. 40874



M1.0 SHEET



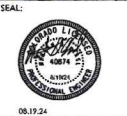
1 ROOF PLAN - HVAC
SCALE: 1/4" = 1'-0"



- 4. Fan cooling and outside air temperature below 55 degrees F, modules designed to maintain inside air temperature of 55 degrees F or higher.
 - 5. Fan cooling and outside air temperature above 55 degrees F, outside air coil fan speed will vary and return damper is closed.
 - 6. Fan cooling and outside air temperature above 55 degrees F, fan speed turns on and closed air return damper. If return air temperature is low, drive outside damper to minimum, close relief damper, and open return damper.
 - 7. Fan heating, drive outside damper to minimum, close relief damper, and open return damper.
 - 8. Relief damper in system shall be modulated to maintain the Building static pressure setpoint.
6. Display:
- 1. System status.
 - 2. System control indication.
 - 3. System set point indication.
 - 4. Outside air temperature indication.
 - 5. Return air temperature indication.
 - 6. Fan discharge air temperature indication.
 - 7. Fan discharge air temperature control point indication.
 - 8. Fan discharge air flow indication.
 - 9. Fan discharge air pressure indication.
 - 10. Building static pressure control point adjustment.
 - 11. Building static pressure control point adjustment.
- 2.3 POWER LOG
- A. An control points shall be addressed according to actual mechanical equipment identification numbers and room numbers.
- END OF SECTION 23000



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08.19.24

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**MORGAN COUNTY ADMINISTRATIONS
 BUILDING**
 FORT MORGAN, COLORADO

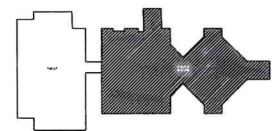
PROJECT #
 DATE 8.19.24
 DRAWN RJH / RS
 CHECKED JH
 REVISIONS

NO.	DATE	DESCRIPTION

DESIGNED BY
 CHECKED BY
 APPROVED BY



M2.1 SHEET



Joseph R. Hensley & Associates, Inc.
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Phone: 970.834.4444 • Fax: 970.834.4444



08.19.24



Engineering Technology, Inc.
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Fort Morgan, CO 80701
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MORGAN COUNTY JUSTICE CENTER

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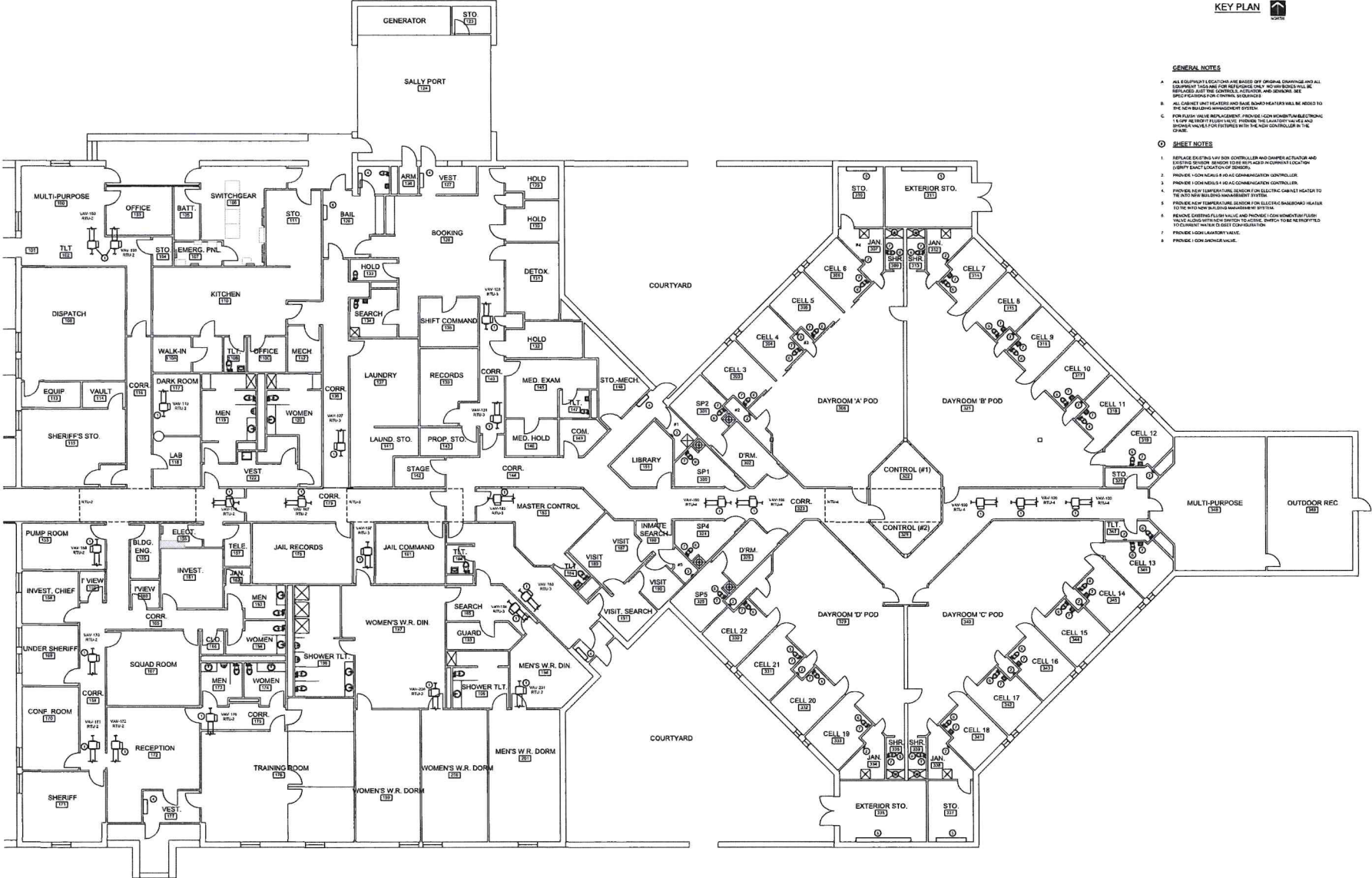
PROJECT #
DATE 08.19.24
DRAWN R/JH / RS
CHECKED: JH

NO.	DATE	REVISIONS

APPROVED FOR CONSTRUCTION
JAMES R. HENSLY & ASSOCIATES, INC.

MFB/EP
JAMES R. HENSLY & ASSOCIATES, INC.
1111 11th St
Fort Morgan, CO 80701

M1.1 SHEET



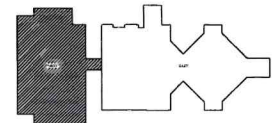
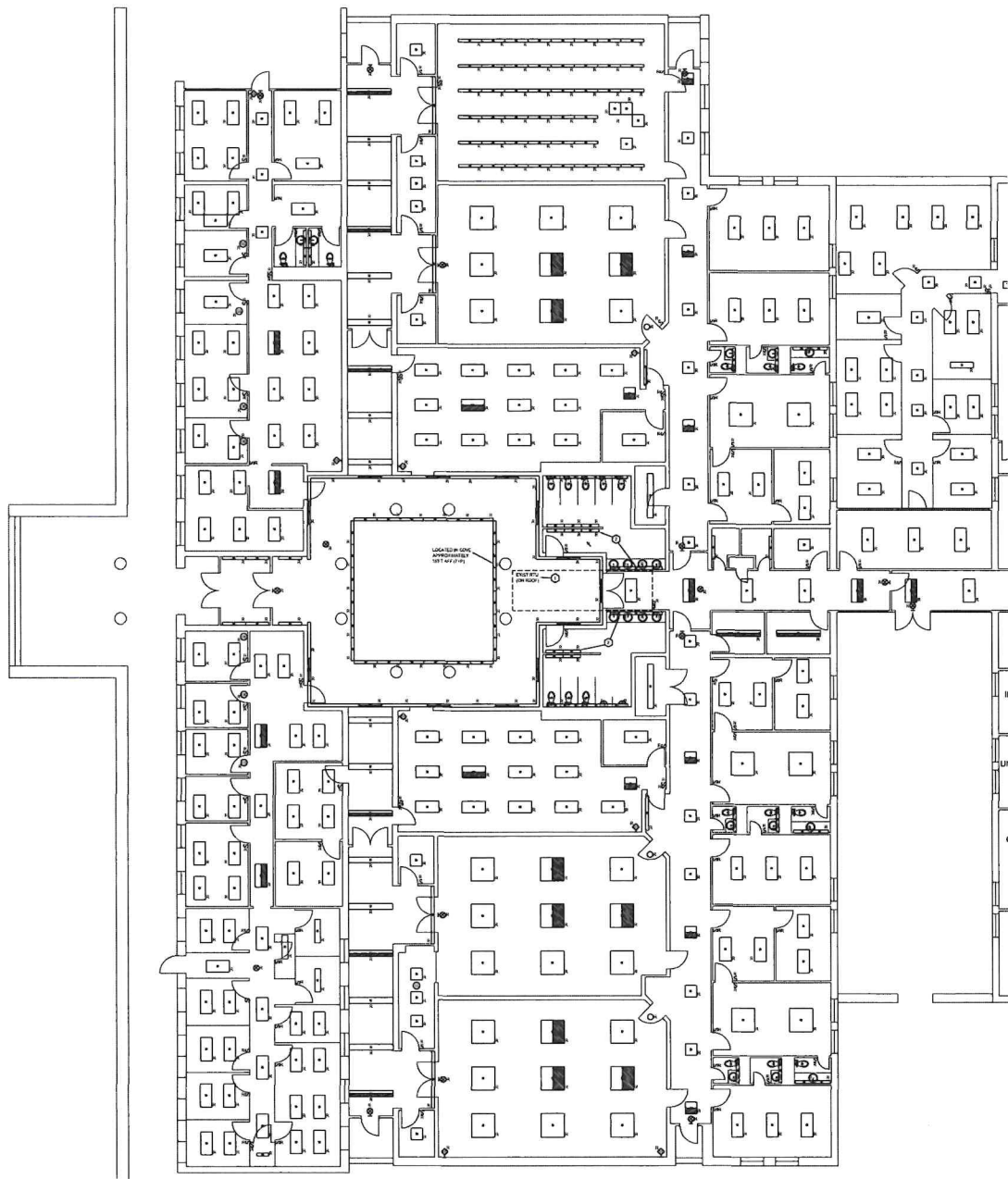
GENERAL NOTES

- A. ALL EQUIPMENT LOCATIONS ARE BASED UPON ORIGINAL DRAWINGS AND ALL EQUIPMENT TAGS ARE FOR REFERENCE ONLY. NO DIMENSIONS SHALL BE RELIABLE AND THE CONTRACTOR, SUBCONTRACTOR, AND SUPPLIER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
- B. ALL CONTRACTORS SHALL VERIFY AND MAKE SURE HEATERS WILL BE ADDED TO THE NEW BUILDING MANAGEMENT SYSTEM.
- C. FOR ALL NEW MECHANICAL EQUIPMENT, PROVIDE LOW VOLTAGE ELECTRICAL SERVICE FROM THE BUILDING MANAGEMENT SYSTEM. PROVIDE ALL NECESSARY VALVES AND SHUTTERS TO ALL SYSTEMS WITH THE NEW CONTROLLER IN THE CHASE.

SHEET NOTES

- 1. REPLACE EXISTING FAN BOX CONTROLLER AND DAMPER ACTUATOR AND EXISTING SYSTEM SENSOR SYSTEM AND PROVIDE EXACT LOCATION (IDENTIFY EXACT LOCATION OF SENSOR).
- 2. PROVIDE 100MM X 100MM COMMUNICATION CONTROLLER.
- 3. PROVIDE 100MM X 100MM 4-20mA COMMUNICATION CONTROLLER.
- 4. PROVIDE NEW TEMPERATURE SENSOR FOR ELECTRIC CHANSET HEATER TO TIE INTO NEW BUILDING MANAGEMENT SYSTEM.
- 5. PROVIDE NEW TEMPERATURE SENSOR FOR ELECTRIC BANBOWARD HEATER TO TIE INTO NEW BUILDING MANAGEMENT SYSTEM.
- 6. PROVIDE EXISTING FLOOR VALVE AND PROVIDE 100MM X 100MM FLOOR VALVE AND SHUTTER FOR SERVICE TO EXISTING. SHUTTER TO BE REWORKED TO FITMENT WITH EXISTING COMMUNICATION.
- 7. PROVIDE 100MM X 100MM VALVE.
- 8. PROVIDE 100MM X 100MM VALVE.

1 FIRST FLOOR - MECHANICAL PLAN (EAST)
SCALE: 1/8" = 1'-0"



KEY PLAN

DEFINITION GENERAL NOTES

- A. THESE PLANS INDICATE MAIN ITEMS OF DEMOLITION IN THE PROJECT AND ARE NOT INTENDED TO INDICATE ALL DEMOLITION WORK TO BE DONE BY THE OWNER. REMOVAL ITEMS INDICATED ON THESE PLANS SHALL BE DEMOLISHED AND RECYCLED OR REUSED WHERE DEMOLITION SHALL BE COMPLETED BY THE CONTRACTOR. ITEMS TO BE DEMOLISHED SHALL BE IDENTIFIED BY THE CONTRACTOR. ITEMS TO BE DEMOLISHED SHALL BE IDENTIFIED BY THE CONTRACTOR. ITEMS TO BE DEMOLISHED SHALL BE IDENTIFIED BY THE CONTRACTOR.
- B. DEMOLITION SHALL BE COMPLETED IN ACCORDANCE WITH FEDERAL AND STATE ENVIRONMENTAL REGULATIONS.
- C. DEMOLITION SHALL BE COMPLETED IN ACCORDANCE WITH FEDERAL AND STATE ENVIRONMENTAL REGULATIONS.
- D. DEMOLITION SHALL BE COMPLETED IN ACCORDANCE WITH FEDERAL AND STATE ENVIRONMENTAL REGULATIONS.
- E. DEMOLITION SHALL BE COMPLETED IN ACCORDANCE WITH FEDERAL AND STATE ENVIRONMENTAL REGULATIONS.
- F. DEMOLITION SHALL BE COMPLETED IN ACCORDANCE WITH FEDERAL AND STATE ENVIRONMENTAL REGULATIONS.
- G. DEMOLITION SHALL BE COMPLETED IN ACCORDANCE WITH FEDERAL AND STATE ENVIRONMENTAL REGULATIONS.

SHEET NOTES

1. DEMOLITION SHALL BE COMPLETED IN ACCORDANCE WITH FEDERAL AND STATE ENVIRONMENTAL REGULATIONS.
2. DEMOLITION SHALL BE COMPLETED IN ACCORDANCE WITH FEDERAL AND STATE ENVIRONMENTAL REGULATIONS.

1 ELECTRICAL DEMOLITION PLAN - (WEST)
ED1.0 SCALE 1/8" = 1'-0"



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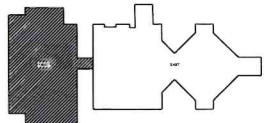
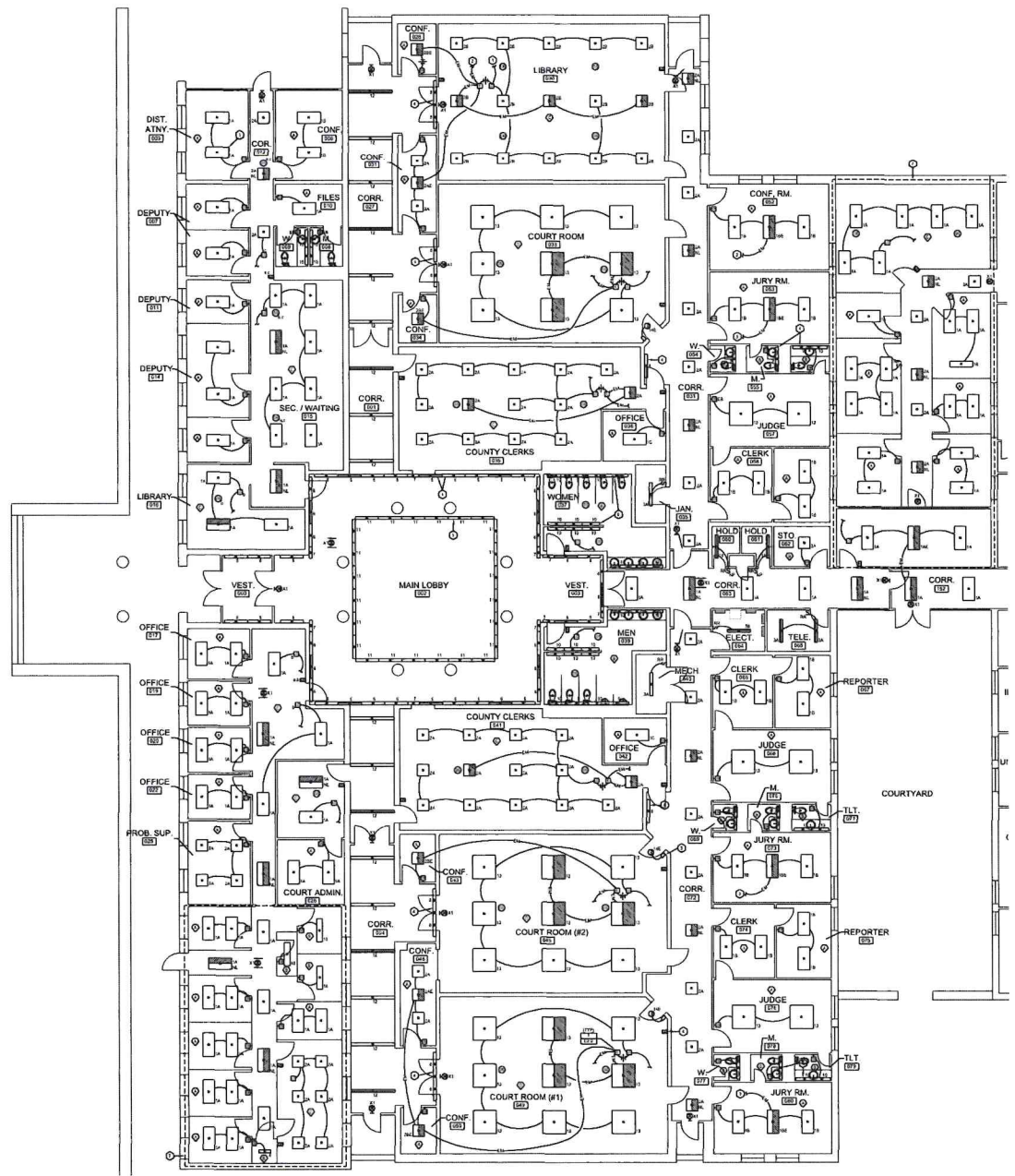
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FORT MORGAN, COLORADO

PROJECT #
DATE 08.19.24
DRAWN JRH / RS
CHECKED JH
REVISIONS

NO.	DATE	DESCRIPTION

PREPARED BY: J. HENGLY
CHECKED BY: J. HENGLY
DATE: 08.19.24

ED1.0 SHEET



KEY PLAN
NORTH

LIGHTING GENERAL NOTES

- A. CONNECT EXIT LIGHTS, EMERGENCY POWER SUPPLY UNITS, EMERGENCY BATTERY UNIT FEEDLINES AND NON-EMERGENCY FULL INDICATED FUNDING UNITS TO THE NEAREST TRUNKING EMERGENCY CIRCUIT.
- B. CONNECT EMERGENCY EXIT LIGHTS FEEDLINES TO THE NEAREST TRUNKING EMERGENCY CIRCUIT.
- C. CONNECT NON-EMERGENCY NORMAL FIXTURES TO THE NEAREST TRUNKING NORMAL LIGHTING CIRCUIT IN THE ROOM FLOOR. CONNECT LIGHTING CIRCUITS THROUGH LIGHTING CONTROLS WITHIN EACH ROOM TO CONTROL LIGHT FIXTURES UNLESS NOTED OTHERWISE.
- D. LOCATE REMOTE CONTROLS WHERE PRESENT FOR UNNUMBERED ABOVE THE NEAREST ACCESSIBLE COLLING WALLS NOTED OTHERWISE.
- E. WHERE INDICATED, SUBSCRIBES TO LIGHTING CONTROL, SWITCHES INDICATE CONTROL OF LAMP/LED WITH CORRESPONDING SUBSCRIBERS WITHIN THE SAME ROOM.
- F. WHERE DRAWING IS INDICATED, PROVIDE A DELEGATED LOAD CONTROLLER OR LIGHT CONTROL DEVICE WITHIN A ZONE.
- G. WHERE LIGHTING CONTROL WIRING IS REQUIRED BETWEEN SPACES, IT SHALL BE PROVIDED PER MANUFACTURER'S INSTRUCTIONS. WRITE CABLEING ABOVE ASSOCIATED LIGHTING CIRCUIT SYMBOL AND NUMBER CABLEING TO BE USED FROM 0 TO 100 FT. SHALL BE NOTED IN CABLEING.
- H. MOTION SENSORS SHALL BE INSTALLED A MINIMUM 6 FT FROM HVAC DIFFUSERS PER CODE REQUIREMENTS.
- I. MOTION SENSORS ARE REQUIRED SCHEMATICALLY FOR CODE COMPLIANCE AND ARE A MINIMUM PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR ROOMS/SPACES. CONNECT MOTION SENSORS WITHIN A ROOM UNLESS NOTED OTHERWISE.
- J. LOAD CONTROLLER ARE REQUIRED FOR THE PLAN. SCHEMATICALLY FOR BRANCHED CIRCUITS. LOCATE LOAD CONTROLLER AND ACCESSIBLE/REACHABLE TO SOURCE POINT OF ABSOLUTE NORMAL CIRCUITS. LOAD CONTROLLER ARE PERMITTED TO BE INSTALLED IN THESE SPACES WITH EXPOSED CEILING WHERE APPROVED BY THE DESIGN TEAM.

SHEET NOTES

1. CONNECT TO EXISTING LIGHTING CIRCUIT THAT PREVIOUSLY SERVED THIS AREA (IF ANY).
2. CONNECT TO EXISTING EMERGENCY CIRCUIT THAT PREVIOUSLY SERVED THIS AREA (IF ANY).
3. CONNECT TO NEAREST AVAILABLE EMERGENCY FEEDLINE (IF ANY).
4. INITIAL SYMBOL IN CIRCLE IN SQUARE CIRCLES OR SQUARES SHALL BE CONNECTED TO EXISTING CIRCUIT OR TO THE EMERGENCY CIRCUIT. FULL-SHAPE SYMBOLS OF THIS FORM AREA ARE OTHER AVAILABLE SYMBOLS.
5. INITIAL SYMBOL IN CIRCLE IN SQUARE CIRCLES OR SQUARES SHALL BE CONNECTED TO EXISTING NORMAL CIRCUIT. FULL-SHAPE SYMBOLS OF THIS FORM AREA ARE OTHER AVAILABLE SYMBOLS.
6. INITIAL SYMBOL IN CIRCLE IN SQUARE CIRCLES OR SQUARES SHALL BE CONNECTED TO EXISTING EMERGENCY CIRCUIT. FULL-SHAPE SYMBOLS OF THIS FORM AREA ARE OTHER AVAILABLE SYMBOLS.
7. INITIAL SYMBOL IN CIRCLE IN SQUARE CIRCLES OR SQUARES SHALL BE CONNECTED TO EXISTING EMERGENCY CIRCUIT. FULL-SHAPE SYMBOLS OF THIS FORM AREA ARE OTHER AVAILABLE SYMBOLS.
8. INITIAL SYMBOL IN CIRCLE IN SQUARE CIRCLES OR SQUARES SHALL BE CONNECTED TO EXISTING EMERGENCY CIRCUIT. FULL-SHAPE SYMBOLS OF THIS FORM AREA ARE OTHER AVAILABLE SYMBOLS.
9. INITIAL SYMBOL IN CIRCLE IN SQUARE CIRCLES OR SQUARES SHALL BE CONNECTED TO EXISTING EMERGENCY CIRCUIT. FULL-SHAPE SYMBOLS OF THIS FORM AREA ARE OTHER AVAILABLE SYMBOLS.

1 LIGHTING PLAN - (WEST)
E1.0 SCALE 1/8" = 1'-0"



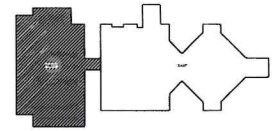
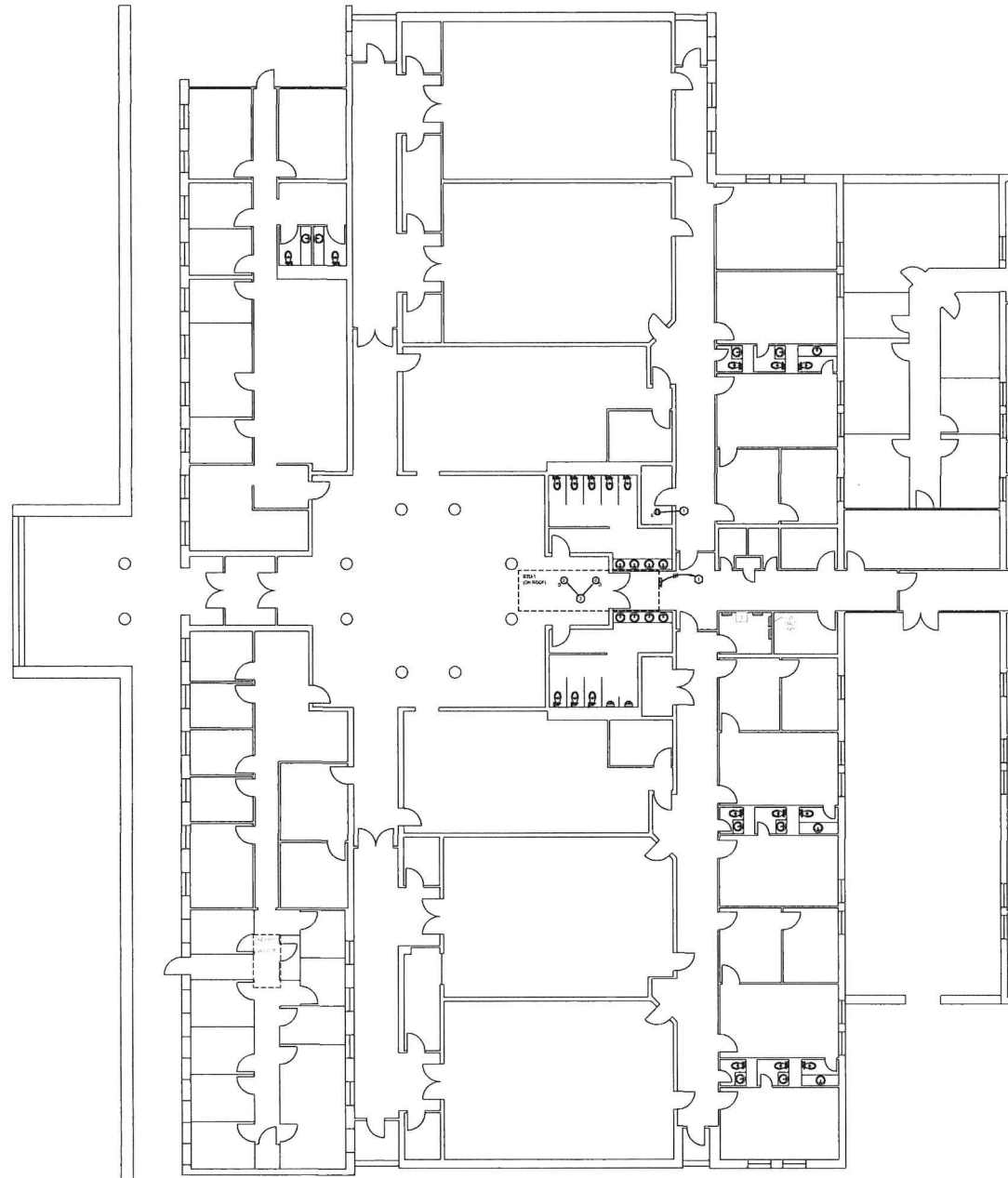
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MORGAN COUNTY JUSTICE CENTER
FORT MORGAN, COLORADO

PROJECT #
DATE 08.19.24
DRAWN RJH / RS
CHECKED JH
REVISIONS

NO.	DATE	DESCRIPTION

BY: [Signature]
DATE: 08.19.24
FOR: MORGAN COUNTY JUSTICE CENTER



KEY PLAN
NORTH

ELECTRICAL GENERAL NOTES

- A. PROVIDE TEMPORARY POWER, LIGHTING AND HEATING AS REQUIRED FOR CONSTRUCTION. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
- B. FIVE YEAR ALL WIRE THROUGHOUT FIVE RATED WALLS, CEILING AND FLOORS.
- C. COORDINATE LOCATION OF WIRING DEVICES, TELECOM OUTLETS, FIRE ALARM DEVICES, ETC. WITH MECHANICAL, PLUMBING AND OTHER WALL TRADES PRIOR TO INSTALL.
- D. ALUMINUM CASES SHALL MOUNTED OUTLET BOXES FOR SWITCHES, INTERRUPTERS AND CIRCULAR REVERSIBLE SWITCHES SHALL BE ALIGNED VERTICALLY AND INSTALLED AT CUTTING HEIGHTS AND BEHIND ALL ADJACENT WALLS AT THE SAME HEIGHT TO MATCH EXISTING ARCHITECTURE OF ANY DISCREPANCIES BETWEEN TRADES PRIOR TO INSTALL.
- E. CONSIDER ALL CONDUITS IN WALLS, CHASES, ABOVE CEILING, BELOW FLOOR OR IN BENCHES OR UNDER FLOOR SPACES, WHERE POSSIBLE, RUN RAMPED CONDUITS VERTICALLY, WHERE POSSIBLE, TO MAKE ACCESSIBLE CEILING. CONNECT HORIZONTALY FROM CEILING.
- F. PROVIDE TAMPER RESISTANT RECEPTACLES WHERE REQUIRED BY THE NEC.
- G. USE 1/2" O.D. RIGID CONDUIT AND FUSE MOUNTED BOXES WHERE POSSIBLE.
- H. INSTALL NEW DEVICES IN EXISTING SCHEDULES WHERE POSSIBLE. FUSE COVER SURFACE ENDING AS AVAILABLE. PROVIDE GANGED CONDUITS AND/OR BLANK COVER PLATES AS REQUIRED.
- I. POWER TO EXISTING DEVICES NOT IN THE SCOPE OF THIS PROJECT SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR BRIGHT TUNE CHANGES NECESSARY FOR RECONNECTION OF EXISTING CIRCUITS, COORDINATE AND SCHEDULE OUTAGES WITH THE OWNER.

SHEET NOTES

1. CONNECT TO THE EXISTING SWITCH IN EXISTING PANEL, PER C. LAST DRAWING PROVIDED. PROVIDE NEW FIVE YEAR RATED THE NEW WIRING IN THE EXISTING CONDUIT. EXAMINE AND VERIFY THE CONDUIT AS REQUIRED FOR CONNECTION. VERIFY AND COORDINATE THE EXACT LOCATION OF PANELS AND SWITCHES WITH THE OWNER PRIOR TO INSTALLATION OF THESE PANELS.
2. APPROXIMATE LOCATION OF DEATH-KNOB FOR IDENTIFIABLE ACCEPTABLE SPALL REMAIN.
3. PROVIDE NEW FIVE YEAR RATED DEATH-KNOB PROVIDED WITH FIRE ALARM SYSTEM. FIELD AND CONNECT TO WIRE AND FIRE ALARM SYSTEM FIELD. VERIFY EXACT LOCATION AND REQUIREMENTS.

1 POWER PLAN - (WEST)
E2.0 SCALE 1/8" = 1'-0"



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MORGAN COUNTY JUSTICE CENTER
FORT MORGAN, COLORADO

PROJECT #
DATE 08/19/21
DRAWN RJH / RS
CHECKED JH
REVISIONS

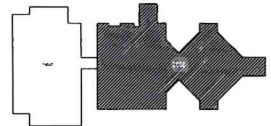
NO.	DATE	DESCRIPTION

NO. OF SHEETS
SHEET NO. 1 OF 1
DATE 08/19/21

E2.0 SHEET

VIAERO BUILDING, ROOF TOP UNIT REQUIRED WORK

AS PART OF THIS PROJECT, THE EXISTING ROOF TOP UNIT ON THE VIAERO BUILDING, APPROXIMATELY 150' EAST ALONG THE EAST SIDE OF THE BUILDING, SHOULD BE REMOVED. APPROXIMATELY 150' EAST ALONG THE EAST SIDE OF THE BUILDING, CONSTRUCTION SHALL REMOVE THE EXISTING CONNECTION FOR THE REMOVED ELECTRICAL CONNECTION AND CONNECT THE REMOVED TO THE EXISTING ELECTRICAL CONNECTION. THE EXISTING ELECTRICAL CONNECTION SHALL BE MAINTAINED. THE EXISTING MAIN PANEL SHALL BE MAINTAINED. THE EXISTING MAIN PANEL SHALL BE MAINTAINED. THE EXISTING MAIN PANEL SHALL BE MAINTAINED. THE EXISTING MAIN PANEL SHALL BE MAINTAINED.



KEY PLAN

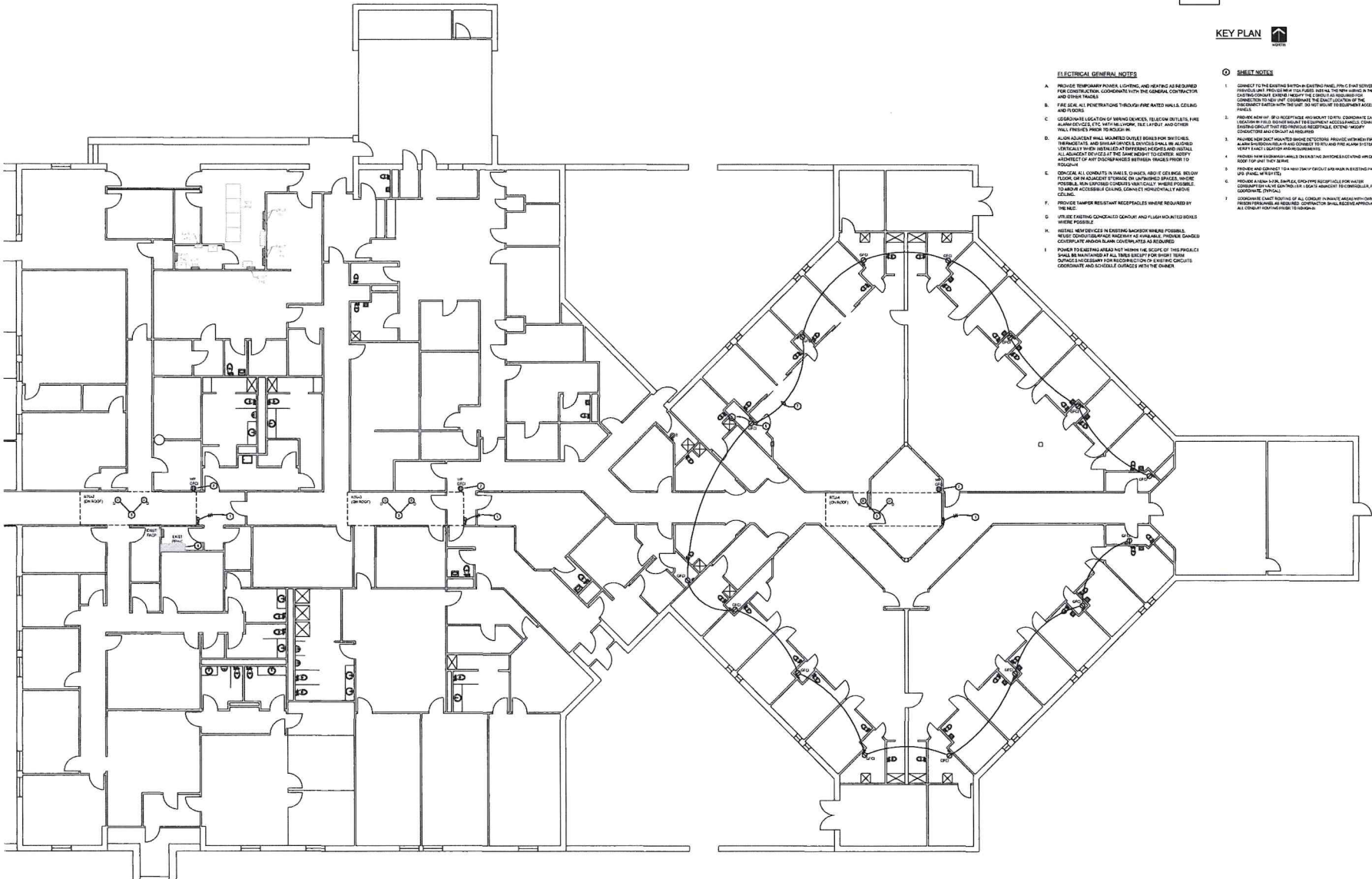


ELECTRICAL GENERAL NOTES

- A. PROVIDE TEMPORARY PANEL, LIGHTING AND HEATING AS REQUIRED FOR CONSTRUCTION. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
- B. FIRE DAM, ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILING AND FLOORS.
- C. LEGISLATIVE LOCATION OF WIRING DEVICES, TELEPHONE OUTLETS, FIRE ALARM DEVICES, ETC. WITH MECHANICAL, PLUMBING AND OTHER TRADES PRIOR TO ROUGH-IN.
- D. ALONG ADJACENT WALL MOUNTED RACEWAYS SHALL BE MAINTAINED. THROUGH WALLS AND THROUGH CEILING DEVICES SHALL BE MAINTAINED. THROUGH WALLS AND THROUGH CEILING DEVICES SHALL BE MAINTAINED. THROUGH WALLS AND THROUGH CEILING DEVICES SHALL BE MAINTAINED.
- E. CONDUCT ALL CONDUITS IN WALLS, CHASES, ABOVE CEILING, BELOW FLOOR OR IN CEILING IF TRUCKING OR BUNDLED. WHERE POSSIBLE, RUN CONDUITS TO RACEWAYS. WHERE POSSIBLE, RUN CONDUITS TO RACEWAYS. WHERE POSSIBLE, RUN CONDUITS TO RACEWAYS.
- F. PROVIDE TAMPER RESISTANT RECEPTACLES WHERE REQUIRED BY THE IBC.
- G. UTILIZE EXISTING CONCEALED GEOMETRY AND FLUSH MOUNTED BOXES WHERE POSSIBLE.
- H. INSTALL NEW DEVICES IN EXISTING BACKBOX WHERE POSSIBLE. WHERE CONDUIT BACKBOXES ARE AVAILABLE, PROVIDE GANGED COVERPLATE APPROX. 3/4" DEEP. WHERE COVERPLATE APPROX. 3/4" DEEP.
- I. POWER TO EXISTING AREA NOT WITHIN THE SCOPE OF THIS PROJECT SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR SHIP-TIME CHANGE NECESSARY FOR REDIRECTION OF ELECTRICAL CIRCUITS. COORDINATE AND SCHEDULE OUTAGES WITH THE OWNER.

SHEET NOTES

- 1. CONNECT TO THE EXISTING SYSTEM IN EXISTING PANEL. THIS UNIT SHALL BE SERVED BY THE EXISTING SYSTEM. THE EXISTING SYSTEM SHALL BE MAINTAINED. THE EXISTING SYSTEM SHALL BE MAINTAINED. THE EXISTING SYSTEM SHALL BE MAINTAINED.
- 2. PROVIDE NEW WIRING TO WIRING DEVICES. PROVIDE NEW WIRING TO WIRING DEVICES. PROVIDE NEW WIRING TO WIRING DEVICES. PROVIDE NEW WIRING TO WIRING DEVICES.
- 3. PROVIDE NEW WIRING TO WIRING DEVICES. PROVIDE NEW WIRING TO WIRING DEVICES. PROVIDE NEW WIRING TO WIRING DEVICES. PROVIDE NEW WIRING TO WIRING DEVICES.
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- 6. PROVIDE NEW WIRING TO WIRING DEVICES. PROVIDE NEW WIRING TO WIRING DEVICES. PROVIDE NEW WIRING TO WIRING DEVICES. PROVIDE NEW WIRING TO WIRING DEVICES.



1 POWER PLAN - (EAST)

E2.1 SCALE: 1/8" = 1'-0"



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08.19.24



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MORGAN COUNTY JUSTICE CENTER
FORT MORGAN, COLORADO

PROJECT #
DATE 08.19.24
DRAWN R/JH / RS
CHECKED JH
REVISIONS

NO.	DATE	DESCRIPTION
1	08.19.24	ISSUED FOR PERMIT

PREPARED BY: J. HENGLY
CHECKED BY: R. HENGLY
DATE: 08.19.24

E2.1 SHEET

