

ADDENDUM

PROJECT Black Hawk County Courthouse Renovations

PROJECT # 23109

OWNER Black Hawk County

DATE January 25, 2024

LETTING DATE January 29, 2024

ADDENDUM # 2

TO ALL HOLDERS OF DRAWINGS AND PROJECT MANUALS

This addendum is issued to incorporate the following changes in the drawings and project manual. For bids to be considered, this addendum must be acknowledged by so indicating on the Form of Bid.

Bidders shall make the following corrections or additions to the biddings documents. These items shall supersede, modify, and/or change all statements or drawings to the contrary in the drawings and project manual and shall take precedence over these documents. Bidders shall base their bid on the drawings and project manual and as modified by the changes herein stated.

This addendum consist of (# of pages)

Text	Supplemental Drawings		Project Manual	Total Pages
	8.5" x 11"	30" x 42"		
5	-	15	48	68

REVISIONS

1 General Items

Item #	Add #	Add Item #	Attachment	Description of Change
1.01	-	-	-	Pre-bid meeting attendance is not mandatory.

2 Architectural

Project Manual Changes

Item #	Sheet/ Section	Detail/ Paragraph	Attachment	Description of Change
2.01	00 01 10	Table of Contents	00 01 10	REPLACE Section 00 01 10 Table of Contents with attached.
2.02	00 20 00	Procurement and Contracting Requirements	00 20 00	REPLACE Section 00 20 00 Procurement and Contracting Requirements with attached.
2.03	00 21 13	Instruction to Bidders	NA	DELETE Section 00 21 13 Instructions to Bidders in its entirety. <i>(Information is captured in Section 00 20 00 Procurement and Contracting Requirements as provided in this Addenda 02.)</i>
2.04	00 31 00	Available Project Information	NA	DELETE Section 00 31 00 Available Project Information in its entirety. <i>(BABAA requirements do not apply.)</i>
2.05	00 41 00	Bid Form	00 41 00	REPLACE 00 41 00 Bid Form with attached. <i>(Alternate 04 was added to the form)</i>

2.06	01 10 00	2.02 C.	NA	REVISE Paragraph 2.02 C to read, "Build America, Buy America Act (April 18, 2022) Does Not Apply. "
2.07	01 23 00	1.04 Alternate 04	NA	ADD Alternate 04 to read, "Alternate 04: ADD Removal of Owner Furniture. Base Bid: Owner to remove furniture items. Alternate Bid: Contractor to remove and dispose of Owner furniture items from the first and second floor work areas."
2.08	08 71 00	-	08 71 00	ADD Section 08 71 00 Door Hardware.
2.09	09 66 23	-	09 66 23	ADD Section 09 66 23 RIB Resinous Matrix Terrazzo Flooring.

3 Architectural

Drawing Changes

Item #	Sheet/ Section	Detail/ Paragraph	Attachment	Description of Change
3.01	G0.01	Alternates	NA	ADD Alternate #4 – ADD Removal of Owner furniture items. Base Bid: Owner to remove furniture items. Alternate Bid: Contractor to remove and dispose of owner furniture items from the first and second floor work areas.
3.02	A1.11	First Floor Plan	A1.11	ADD wall furring as shown on plan to accommodate new electrical panel.
3.03	A1.42	Elevations	NA	CLARIFICATION reference the glazing specification section 08 80 00 for speak-through portal to be used for locations referenced as "speaker hole" on various interior elevations on this sheet.
3.04	A7.21	Second Floor finish plan	A7.21	REVISE Second floor finish plan to show terrazzo patch back scope and images.
3.05	AD1.11	Demo Plan Sheet	AD1.11	REVISE demo plan sheet to incorporate Alternate #4 photos & demo note #13.
3.06	AD1.21	Demo Plan Sheet	AD1.21	REVISE demo plan sheet to incorporate Alternate #4 photos & demo note #13.

4 MEPT – see attachment with MODUS title block noted "Addendum #2".

5 Substitution Requests – no changes.

End of Addendum

Submitted By



Tim Turnis, AIA

INVISION

Courthouse Renovations

PROJECT: Black Hawk County

PROJECT NUMBER: 23-142

DATE: January 25, 2024

NOTE { THIS ADDENDUM HAS BEEN ISSUED TO MODIFY AND/OR INTERPRET THE BIDDING DOCUMENTS, INCLUDING THE DRAWINGS AND SPECIFICATIONS. UNLESS OTHERWISE INSTRUCTED, THE INFORMATION CONTAINED ON THE ADDENDUM SHALL TAKE PRECEDENCE OVER ANYTHING CONTRARY ON THE ORIGINAL BIDDING DOCUMENTS AND SHALL BE HEREINAFTER CONSIDERED AS A PARTY OF THE BIDDING DOCUMENTS.

SPECIFICATIONS

SECTION 26 2416 PANELBOARDS

1. **REVISE.** 2.01 (I) Cabinet Front: Flush or surface cabinet front with concealed trim clamps, concealed hinge, metal directory frame, and flush lock all keyed alike. Electrical contractor shall provide pricing for powder coating or factory painting panels located in finished spaces.

PLANS

PLUMBING SHEETS P1.01, P1.11, P1.21

1. **CLARIFY** Reference note 1. Sprinkler contractor shall match existing pipe material if it differs from the specifications when modifying and extending existing sprinkler system.

SHEET ED1.01 BASEMENT ELECTRICAL DEMOLITION PLAN

1. General Notes
 - A. **ADD.** New general Note L to read "Electrical contractor shall remove all unused/abandoned data cabling and associated raceway back to the local switch. Electrical contractor shall remove all unused and abandoned phone cabling back to the local telephone termination Coordinate demolition with owner's IT staff during construction."
 - B. **ADD.** New general Note M to read "Contractor shall salvage all existing night control devices to owner during demolition. Devices meeting the sequence of operations can be reused where approved by design team."
2. Panel L3
 - A. **ADD.** Panel L3 shall be replaced with a new panel in place. Refer to drawings for more information and detail indicating existing circuits.
3. Public Circulation
 - A. **ADD.** Indicate location of existing Telephone Cab A.

SHEET ED1.11 FIRST FLOOR ELECTRICAL DEMOLITION PLAN

1. General Notes
 - A. **ADD.** New general Note L to read "Electrical contractor shall remove all unused/abandoned data cabling and associated raceway back to the local switch. Electrical contractor shall remove all unused and abandoned phone cabling back to the local telephone termination Coordinate demolition with owner's IT staff during construction."
 - B. **ADD.** New general Note M to read "Contractor shall salvage all existing night control devices to owner during demolition. Devices meeting the sequence of operations can be reused where approved by design team."
2. Elec 126
 - A. **ADD.** Indicate location of existing Telephone Cab B.
3. Existing Panel L7 Circuits.
 - A. **REVISE.** Detail. Refer to reissued drawing for more information.
4. Existing Panel L8 Circuits
 - A. **ADD.** New detail showing existing Panel L8 circuits.

SHEET ED1.21 SECOND FLOOR ELECTRICAL DEMOLITION PLAN

1. General Notes
 - A. **ADD.** New general Note L to read "Electrical contractor shall remove all unused/abandoned data cabling and associated raceway back to the local switch. Electrical contractor shall remove all unused and abandoned phone cabling back to the local telephone termination Coordinate demolition with owner's IT staff during construction."
 - B. **ADD.** New general Note M to read "Contractor shall salvage all existing night control devices to owner during demolition. Devices meeting the sequence of operations can be reused where approved by design team."

2. Break Room 241
 - A. **REVISE.** Location of existing panel L-19 to be in Break Room 241.
3. Public Circulation 169
 - A. **ADD.** Indicate location of existing Telephone Cab C.
4. Janitor 222
 - A. **ADD.** Indicate location of Telephone Cab D.
5. Existing Panel L19 Circuits
 - A. **ADD.** New detail showing existing Panel L19 circuits.

SHEET E1.O1 BASEMENT ELECTRICAL PLAN

1. Panel L3
 - A. **ADD.** Panel L3 shall be replaced with a new panel in place. Refer to drawings for more information and detail indicating existing circuits.
2. Clerks of Courts Storage
 - A. **ADD.** Furnish and install quad duplex circuited to a 20A-1P breaker in location of Owner provided Network panel. Coordinate location with owner prior to rough-in.
3. Office 020, office 022, Office 023
 - A. **REVISE.** Feed panels out of panel L3 in lieu of existing panel L4.
4. Existing Panel L3 Circuits
 - A. **ADD.** New detail showing existing panel L3 circuits.

SHEET E5.O1 ELECTRICAL DEMOLITION ONE LINE DIAGRAM

1. **REVISE** Detail. Refer to reissued sheet for clouded revisions.

SHEET E5.I1 ELECTRICAL ONE LINE DIAGRAM

1. **REVISE** Detail. Refer to reissued sheet for clouded revisions.

SHEET E6.O1 ELECTRICAL SCHEDULE

1. Branch Panel L3
 - A. **ADD.** New Branch Panel L3 Schedule. Refer to reissued drawings form more information.
2. Branch Panel L-8
 - A. **REVISE** panel schedule to be 54 circuit in lieu of 42.

SHEET E6.I1 ELECTRICAL SCHEDULES.

1. Lighting Fixture Schedule – All Types
 - A. **CLARIFY.** Contractor shall refer to architect's specification requirements for Procurement of Materials requirements.
2. Type – EA and EB
 - A. **ADD.** Evenlite as an approved equal.
 - B. **ADD.** Emergi-lite as an approved equal.
3. Type – RD
 - A. **ADD.** He Williams as an approved equal.
 - B. **ADD.** Neoray as an approved equal.
4. Type – FA
 - A. **ADD.** Columbia Lighting as an approved equal
 - B. **ADD.** HE Williams as an approved equal.
 - C. **ADD.** Metalux as an approved equal.

SHEET T1.O1 BASEMENT LOW VOLTAGE PLAN

1. Public Circulation
 - A. **ADD.** Indicate location of existing Telephone Cab A.
2. General Notes
 - A. **ADD.** General note L to read "Field verify existing backbone copper/fiber routing to second floor main IT closet located in IT Operations/Server 270 per campus technology riser on sheet T501. Furnish and install two (2) 2" E-Z paths at each fire rated wall/ceiling."

3. Basement Low Voltage Plan.
 - A. **CLARIFY.** For pricing purposes, rooms north of Public Circulation and located in Public Circulation shall be fed from rack located in Office Specialists 053. All other devices in the project area shall be fed from Rack located in Janitor Storage 014.

SHEET T1.1 | FIRST FLOOR LOW VOLTAGE PLAN

1. Elec 126
 - A. **ADD.** Indicate location of existing Telephone Cab B.
2. General Notes
 - A. **ADD.** General note L to read "Field verify existing backbone copper/fiber routing to second floor main IT closet located in IT Operations/Server 270 per campus technology riser on sheet T501. Furnish and install two (2) 2" E-Z paths at each fire rated wall/ceiling."

SHEET T1.2 | SECOND FLOOR LOW VOLTAGE PLAN

1. Public Circulation 169
 - A. **ADD.** Indicate location of existing Telephone Cab C.
2. Janitor 222
 - A. **ADD.** Indicate location of existing Telephone Cab D.
3. General Notes
 - A. **ADD.** General note L to read "Field verify existing backbone copper/fiber routing to second floor main IT closet located in IT Operations/Server 270 per campus technology riser on sheet T501. Furnish and install two (2) 2" E-Z paths at each fire rated wall/ceiling."

SHEET T5.0 | LOW VOLTAGE DETAILS

1. Campus Technology Riser Diagram
 - A. **REVISE** Detail. Refer to reissued drawing for more information.
 - B. **CLARIFY.** Owner's standard fiber is single mode in lieu of multi mode fiber.
2. Black Hawk County IT Rack Schedule
 - A. **REVISE** Schedule. Refer to reissued drawing for more information.
3. Black Hawk County Camera Schedule
 - A. **ADD.** Hanwha is an approved equal Manufacturer on all Types.

VENDOR APPROVALS

NO VENDOR APPROVALS ARE INCLUDED IN THIS ADDENDUM.

ATTACHMENTS

SHEET ED1.0 | BASEMENT ELECTRICAL DEMOLITION PLAN... (30 x 42)

SHEET ED1.1 | FIRST FLOOR ELECTRICAL DEMOLITION PLAN... (30 x 42)

SHEET ED1.2 | SECOND FLOOR ELECTRICAL DEMOLITION PLAN... (30 x 42)

SHEET E1.0 | BASEMENT ELECTRICAL PLAN... (30 x 42)

SHEET E5.0 | ELECTRICAL DEMOLITION ONE LINE DIAGRAM... (30 x 42)

SHEET E6.0 | ELECTRICAL SCHEDULE... (30 x 42)

SHEET E6.1 | ELECTRICAL SCHEDULES... (30 x 42).

SHEET T1.0 | BASEMENT LOW VOLTAGE PLAN... (30 x 42)

SHEET T1.1 | FIRST FLOOR LOW VOLTAGE PLAN... (30 x 42)

SHEET T1.2 | SECOND FLOOR LOW VOLTAGE PLAN... (30 x 42)

SHEET T5.0 | LOW VOLTAGE DETAILS... (30 x 42)

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END OF SECTION

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SECTION 00 20 00

PROCUREMENT AND CONTRACTING REQUIREMENTS

SCHEDULE: (Dates and times subject to change at Black Hawk County's discretion.)

Notice to Bidders Release: **January 12, 2024**

Pre-Bid Meeting: **January 15, 2024 at 2:00 p.m.**

Room B37A
Black Hawk County Courthouse
316 E. 5th St.
Waterloo, IA.

Bid submittal due: **January 29, 2024 at 2:00 p.m.**

Room B41(Basement, Building Maintenance)
Black Hawk County Courthouse
316 E. 5th St
Waterloo, IA.

Bid Hearing/Opening: **January 30, 2024 at 9:05 a.m.**

Room 201 Board of Supervisors Meeting Room
Black Hawk County Courthouse
316 E. 5th St.
Waterloo, IA.

Award of contract: Contract will be awarded within 30 days of the bid opening.

BID/PROPOSAL SUBMISSION:

Each bid price quoted is to be clearly marked on the "Form of Bid" included in the bid document. It shall be submitted in a sealed envelope clearly marked as follows: "BID PROPOSAL FOR BLACK HAWK COUNTY COURTHOUSE RENOVATIONS - BLACK HAWK COUNTY, IA.". Bid security shall accompany the bid proposal in a separate sealed envelope and shall be clearly marked "BID SECURITY FOR BLACK HAWK COUNTY COURTHOUSE RENOVATIONS - BLACK HAWK COUNTY, IA." The name of the business submitting the bid and bid bond must also be clearly marked on both envelopes. All bids must be hand-delivered or mailed to Black Hawk County Courthouse, 316 E. 5th St., Waterloo, IA, 50703. It shall be the sole responsibility of the bidder to ensure that the bid is received by Black Hawk County at the above location and time.

No faxed or e-mailed bids will be accepted under any circumstances.

The selected proposers must NOT be debarred from any federal and/or state agency and Black Hawk County will conduct a review of the Proposer's status on SAM.gov. The Black Hawk County Board of Supervisors will make the final selection and award. The County has the right to reject any and/or all responses.

CONTRACT:

The term of contract shall be for approximately eleven months, commencing in February 2024 following the signing of the contract.

Upon award of the contract it shall be the contractor's responsibility to provide the Black Hawk County Board of Supervisors with two (2) signed contracts. After approval from the County's attorney, the Board will then sign both contracts and mail one completed original to the contractor.

The following contract provisions along with this entire Request for Proposal will be made a part of any resulting contract(s) that arise from this Request for Proposal.

Equal Employment Opportunity

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

- (2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
- (3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
- (4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to

be provided advising the said labor union or workers' representatives of the contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

- (5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance.

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: Provided, that if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

Contract Work Hours and Safety Standards Act

The regulation at 29 C.F.R. § 5.5(b) provides contract clause language concerning compliance with the Contract Work Hours and Safety Standards Act.

Compliance with the Contract Work Hours and Safety Standards Act.

- (1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- (2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$27 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

- (3) Withholding for unpaid wages and liquidated damages. The Black Hawk County Sheriff's Office shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.
- (4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

Clean Air Act and The Federal Water Pollution Control Act

Clean Air Act

- (1) The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.
- (2) The contractor agrees to report each violation to the Black Hawk County Sheriff's Office and understands and agrees that the Black Hawk County Sheriff's Office will, in turn, report each violation as required to assure notification to the appropriate Environmental Protection Agency Regional Office.
- (3) The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by ARPA (American Rescue Plan Act).

Federal Water Pollution Control Act

- (1) The contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.
- (2) The contractor agrees to report each violation to the Black Hawk County Sheriff's Office and understands and agrees that the Black Hawk County Sheriff's Office will, in turn, report each violation as required to assure notification to the appropriate Environmental Protection Agency Regional Office.

- (3) The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by ARPA (American Rescue Plan Act).

Suspension and Debarment

- (1) This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such, the contractor is required to verify that none of the contractor's principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).
- (2) The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.
- (3) This certification is a material representation of fact relied upon by Black Hawk County Sheriff's Office. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to Black Hawk County Sheriff's Office, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.
- (4) The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

Byrd Anti-Lobbying Amendment

- (1) Contractors who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency

Procurement of Recovered Materials

- (1) In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—
 - a. Competitively within a timeframe providing for compliance with the contract performance schedule;
 - b. Meeting contract performance requirements; or
 - c. At a reasonable price.
- (2) Information about this requirement, along with the list of EPA designated items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensiveprocurement-guideline-cpg-program>
- (3) The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act."

Domestic Preferences for Procurement

As appropriate, and to the extent consistent with law, the contractor should, to the greatest extent practicable, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States. This includes, but is not limited to iron, aluminum, steel, cement, and other manufactured products.

For purposes of this clause:

Produced in the United States means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.

Manufactured products mean items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber."

Contracting with small and minority businesses, women's business enterprises, and labor surplus area firms

If the awarded contractor (prime) uses subcontractors, it must take all necessary affirmative steps to assure that small and minority businesses, women's enterprises, and labor surplus area firms are used. **If using subcontractors, bidder must complete and submit with the bid the Small and minority businesses, women's business enterprises, and labor surplus area firms PRE-BID CONTACT INFORMATION form.**

The following affirmative steps are required of the prime contractor:

- (1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- (2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- (3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- (4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;
- (5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce; and
- (6) If Prime contractor is subcontracting and subcontracts are to be let, the Prime contractor must take the affirmative steps listed in paragraphs (b)(1) through (5) of this section.

INSTRUCTIONS TO BIDDERS AND GENERAL TERMS AND CONDITIONS:

Each bidder shall accompany the bid with a BID SECURITY by a bid bond, cash deposit, cashier's check or a certified check on a solvent bank chartered under the laws of the United States and in accordance with the requirements of Section 331.341 of the Iowa Code as amended, in the amount of not less than 5% of the total first year of the proposed project and it shall accompany the bid quote in a separate envelope marked "BID SECURITY FOR BLACK HAWK COUNTY COURTHOUSE RENOVATIONS." Bid security shall be made payable to Black Hawk County. Both envelopes must have the name of the business clearly marked on them. Bid security shall be returned to bidders who were not awarded the contract, upon signing of the contract.

Upon signing the contract, a Performance Bond in the amount equal to the proposed project contract shall be required and submitted before work commences. **The Performance Bond shall remain in force for a period of not less than 12 months after completion and final acceptance of the project by the engineer and the owner. Performance bond shall cover the entire contract amount and shall escalate by all approved change orders. It is the contractor's responsibility to submit change orders to the bond company for approval prior to seeking Board approval for the change.** The successful bidder may request an application to apply for an Iowa Construction Sales Tax Exemption Certificate for purchasing materials to be used in the contract.

All other terms and conditions pursuant to Attachment A apply.

INSURANCE REQUIREMENTS:

The company shall maintain adequate liability insurance in form(s) and amount(s) sufficient to protect Black Hawk County, its agencies, its employees, its clients and the general public against loss, damage and/or expense related to performance under this agreement.

Upon submitting the contract, the company shall provide a Certificate of Insurance pursuant to the requirements set forth in Attachment B.

In the event the insurance coverage is canceled or modified in any way, Black Hawk County must be notified immediately. If at any time during the contract period the company fails to maintain the minimum insurance coverage, the contract may be canceled at Black Hawk County's option.

There shall be no cost to the County for any required insurance coverage or certification.

REFERENCES:

The County reserves the right to ask the bidder to provide with the proposal including the names of two (2) or more references - projects of comparable size to which the company currently or recently has provided it service. Bidder must list names of firms, addresses, phone numbers and name of contact persons is requested.

GENERAL INFORMATION AND/OR REQUIREMENTS:

- A. The company's staff will work primarily week days beginning at or after 6:30 a.m. and end at 3:30 p.m. or such time as is agreeable with both the company and the Superintendent. Weekend work will be permissible with advanced notice.
- B. It will be the responsibility of the Superintendent to set up what is deemed satisfactory performance of the contractor and will be based primarily on the continuous acceptable appearance of the facilities rather than the performance of a specific duty at a specific time for a specific number of times.
- C. The contractor's management personnel shall make regular and frequent inspections to assure that work is being performed in accordance with these specifications. The management personnel shall report to the Superintendent on a regular pre-agreed upon schedule.
- D. The contractor will be responsible for the repair or replacement of any damaged equipment or damages to the buildings that may occur during the course of carrying out the prescribed duties. If damages cannot be repaired by the contractor, it shall be reported to the Maintenance Dept. and the cost of said repair shall be deducted from that facility's monthly invoice.
- E. The grounds shall be returned back to the same condition as prior to the start of the project.
- F. The service contract incorporates by reference the request for proposal as a part of this agreement.
- G. By virtue of statutory authority, the company shall give preference to Iowa Domestic Labor, products and provisions grown, and coal produced within the State of Iowa according to the provisions of the Code of Iowa as amended.

- H. All payroll taxes, liability and workers' compensation are the sole responsibility of the Contractor. The Contractor understands that an employee/employer relationship does not exist under this agreement.
- I. Subcontractors must be pre-approved, **in writing**, by Black Hawk County prior to any work. Contractor shall require subcontractor to carry and maintain the same workers' compensation and liability insurance required of the contractor.
- J. Either party may terminate this agreement by providing a 30 day written notice.
- K. It is the bidder's responsibility to determine the bid price based on the bidder's own evaluation of the space to be covered and the work to be done. Accuracy is the bidder's responsibility.
- L. Contractor shall follow the 2021 International Building Code.
- M. It is the Contractor's responsibility to ensure proper protective safety measures for staff and public entering and exiting the building are taken.
- N. Any firm submitting a bid must be an 'Equal Opportunity Employer' as defined in the "Civil Rights Act of 1964" and in "Iowa Executive Order Number Thirty-Four."
- O. The work is to be constructed to meet the requirements of the Americans with Disabilities Act and Chapter 11 Accessibility of the International Building Code.

Attachment A

GENERAL TERMS AND CONDITIONS

1. **LANGUAGE, WORDS USED INTERCHANGEABLY** - The word "COUNTY" refers to the COUNTY OF BLACK HAWK, IOWA throughout these Instructions to Bidders and General Terms and Conditions. Similarly, BIDDER refers to the person or company submitting an offer to sell its goods or services to the COUNTY. The words QUOTATION, BID and PROPOSAL are all offers from a BIDDER, but may represent different methods of obtaining price and other information from the BIDDER.
2. **BID TABULATION AVAILABILITY** - Bids will be evaluated promptly after opening. After award, a bid tabulation summary will be sent to any company that submitted a bid or returned a Statement of No Bid. BID RESULTS WILL NOT BE GIVEN OVER THE TELEPHONE. No Bid may be withdrawn for a period of sixty (30) calendar days from the Bid Opening date.
3. **BIDDER QUALIFICATIONS** - No Bid shall be accepted from, and no contract will be awarded to, any person, firm or corporation that is in arrears to the County upon debt or contract, that is a defaulter, as surety or otherwise, upon any obligation to the County, or that is deemed irresponsible or unreliable by the County. If requested, Bidders shall be required to submit satisfactory evidence that they have a practical knowledge of the particular supply/service bid and that they have the necessary financial resources to provide the proposed supply/service as described in the attached Technical Proposal specifications.
4. **BID FORM** - Each Bidder must submit an original Bid on the forms attached plus any additional sheets provided by the Bidder that may be required for additional information. The Bidder shall sign his/her Bid correctly, and the Bid may be rejected if it shows any omissions, alterations of the form, additions not called for in the Bid, or any irregularities of any kind. The County will not consider replies that are not on the County's form. Bidders may submit additional information and brochures relative to the services for which they are offering pricing, but those submittals will only be considered in addition to, not in lieu of, any bid submitted on the County's form. In case of a discrepancy between the unit price and the extended price, the unit price shall prevail.
5. **SPECIFICATION DEVIATIONS BY THE BIDDER** - Any deviation from this specification MUST be noted in detail, and submitted in writing and attached to the Bid Form. Completed specifications should be attached for any substitutions offered, or when amplifications are desirable or necessary. The absence of the specification deviation statement and accompanying specifications will hold the Bidder strictly accountable to the specifications as written herein. Failure to submit this document of specification deviation, if applicable, shall be grounds for rejection of the item when offered for delivery. If specifications or descriptive papers are submitted with Bids, the Bidder's name should be clearly shown on each document.
6. **BIDDER REPRESENTATION** - Each Bidder must sign the Bid with his/her usual signature and shall give his/her full business address on the form provided in this Bid.
7. **COLLUSIVE BIDDING** - The Bidder certifies that the bid submitted by said Bidder is done so without any previous understanding, agreement or connection with any person, firm, or corporation making a bid for the same contract, without prior knowledge of competitive prices, and it is, in all respects, fair, without outside control, collusion, fraud or otherwise illegal action.
8. **BROCHURES** - Bids may include adequate brochures and advertising literature describing the service offered in such fashion as to permit ready comparison with our specifications where applicable.
9. **SPECIFICATION CHANGES, ADDITIONS AND DELETIONS** - All changes in Bid documents shall be through written addendum and furnished to all Bidders. Verbal information obtained otherwise will not be considered in awarding of Bids.

10. **BID CHANGES** – Bids, amendments thereto or withdrawal requests received after the time advertised for Bid Opening will be void regardless of when they were mailed.
11. **HOLD HARMLESS AGREEMENT** - The Bidder agrees to protect, defend, indemnify and hold harmless the County of Black Hawk, its officers, and its employees, the United States Government, FEMA, and the State of Iowa, their agencies and agents, from any and all claims and damages of every kind and nature made, rendered or incurred by or on behalf of every person or corporation whatsoever, including the parties hereto and their employees that may arise, occur, or grow out of any acts, actions, work or other activity done by the Bidder, its employees, subcontractors or any independent contractors working under the direction of either the Contractor or subcontractor in the performance of the contract.
12. **COMPLETION DATE** - The completion as stated in the Bid Form shall be the time required to complete project after the award of the Contract. Where multiple items appear on a Bid request, the Bidder shall, unless otherwise stated by the County, show the completion date for each item separately. If only a single completion date is shown, it will mean that all tasks of the project included in the Bid can and will be delivered on or before the specified date. The Bidder agrees that the project will be completed in the time stated, assuming that the time between the Bid Opening and the Notice to Proceed does not exceed the number of days so stipulated. The right is reserved to reject any Bid in which the completion time indicated is considered sufficient to delay the operational needs for which the service is intended.
13. **BID REJECTION OR PARTIAL ACCEPTANCE** - The County reserves the right to reject any or all Bids. The County further reserves the right to waive technicalities and formalities in Bids, as well as to accept in whole or in part such Bids where it is deemed advisable in protection of the best interests of the County.
14. **BID CURRENCY/LANGUAGE** - All Bid prices shall be shown in US Dollars (\$). All prices must remain firm for the duration of the contract regardless of the exchange rate. All bid responses must be submitted in English.
15. **PAYMENTS** - Payments will be made for all goods/services delivered, inspected and accepted within 30 days and upon receipt of an original invoice.
16. **MODIFICATION, ADDENDA AND INTERPRETATIONS** - Any apparent inconsistencies, or any matter requiring explanation or interpretation, must be inquired into by the Bidder in writing at least 72 hours (excluding weekends and holidays) prior to the time set for the Bid Opening. Any and all such interpretations or modifications will be in the form of written addenda. All addenda shall become part of the contract documents and shall be acknowledged and dated on the Signature Page.
17. **LAWS AND REGULATIONS** - All applicable State of Iowa and federal laws, ordinances, licenses and regulations of a governmental body having jurisdiction shall apply to the award throughout as the case may be, and are incorporated here by reference.
18. **TELEGRAPHIC/ELECTRONIC BID SUBMITTAL** - Telegraphic and/or bid offers sent by electronic devices (e.g. facsimile machines) are not acceptable and will be rejected upon receipt. Proposing firms will be expected to allow adequate time for delivery of their bid either by airfreight, postal service, or other means.
19. **MISCELLANEOUS** - The County reserves the right to reject any and all bids or parts thereof. The County reserves the right to inspect Contractor's facilities prior to the award of this bid. The County reserves the right to negotiate optional items with the successful Bidder.
20. **MODIFICATION OF AGREEMENT** - No modification of award shall be binding unless made in writing and signed by the County.

21. CANCELLATION - Either party may cancel the award in the event that a petition, either voluntary or involuntary, is filed to declare the other party bankrupt or insolvent or in the event that such party makes an assignment for the benefit of creditors.
22. TERMINATION OF AWARD FOR CAUSE - If, through any cause, the successful Bidder shall fail to fulfill in a timely and proper manner its obligations or if the successful Bidder shall violate any of the covenants, agreements or stipulations of the award, the County shall thereupon have the right to terminate the award by giving written notice to the successful Bidder of such termination and specifying the effective date of termination. In that event, and as of the time that notice is given by the County, all finished or unfinished services, reports or other materials prepared by the successful Bidder shall, at the option of the County, become its property, and the successful Bidder shall be entitled to receive compensation for any satisfactory work completed, prepared documents or materials as furnished. Notwithstanding the above, the successful Bidder shall not be relieved of liability to the County for damage sustained by the County by virtue of breach of the award by the successful Bidder. The County may withhold any payments to the successful Bidder for the purpose of set-off until such time as the exact amount of damages due the County from the successful Bidder is determined.
23. TERMINATION OF AWARD FOR CONVENIENCE - The County may terminate the award at any time by giving written notice to the successful Bidder of such termination and specifying the effective date thereof, at least sixty (60) working days before the effective date of such termination. In that event, all finished or unfinished services, reports or materials(s) prepared or furnished by the successful Bidder or under the award shall, at the option of the County, become its property. If the award is terminated due to the fault of the successful Bidder, termination of award for cause relative to termination shall apply. If the award is terminated by the County as provided herein, the successful Bidder will be paid an amount as of the time notice is given by the County which bears the same ratio to the total compensation as the services actually performed bear to the total services the successful Bidder covered by the award, less payments of compensation previously made.
24. FORCE MAJEURE - For the purpose hereof, force majeure shall be any of the following events: acts of God or the public enemy; compliance with any order, rule, regulation, decree, or request of any governmental authority or agency or person purporting to act therefore; acts of war, public disorder, rebellion, terrorism, or sabotage; floods, hurricanes, or other storms; strikes or labor disputes; or any other cause whether or not of the class or kind specifically named or referred to herein not within the reasonable control of the party affected.
 - a. A delay in or failure of performance of either party shall not constitute a default hereunder nor be the basis for, or give rise to, any claim for damages, if and to the extent such delay or failure is caused by force majeure.
 - b. The party who is prevented from performing by force majeure (i) shall be obligated, within a period not to exceed fourteen (14) days after the occurrence or detection of any such event to give notice to the other party setting forth in reasonable detail the nature thereof and the anticipated extent of the delay, and (ii) shall remedy such cause as soon as reasonably possible.
25. ASSIGNMENT - Bidder shall not assign this order or any monies to become due hereunder without the prior written consent of the County. Any assignment or attempt at assignment made without such consent of the County shall be void.
26. EQUAL OPPORTUNITY - The successful firm agrees not to refuse to hire, discharge, promote, demote, or to otherwise discriminate in matters of compensation against any person otherwise qualified solely because of race, creed, sex, national origin, ancestry or physical handicap. Any firm submitting a bid must be an 'Equal Opportunity Employer' as defined in the "Civil Rights Act of 1964" and in "Iowa Executive Order Number Thirty-Four."

27. TIME PERIOD - Prices are to be honored for the time period stated in your response on the Signature Page.
28. EXTENSION - Any or all of the awards made as a result of this Request for Bid may be extended for an additional period of time, up to one year, if mutually agreed between the parties.
29. FOB POINT - In terms of loss or damage, as well as where title to the goods is passed, please quote FOB - Destination.
30. METHOD OF AWARDING/QUOTING - The County reserves the right to make awards based on the entire bid or on an individual basis. However if you offer your bid based on an "all or none" condition, the County may consider your bid non-responsive and reject the entire bid.
31. TAXES - The County of Black Hawk is exempt from sales tax and certain other use taxes. Any charges for taxes from which the County is exempt will be deducted from invoices before payment is made.
32. BID INFORMATION IS PUBLIC – All documents submitted with any bid or proposal shall become public documents and subject to Iowa Code Chapter 22, which is otherwise known as the "Iowa Open Records Law." By submitting any document to the County of Black Hawk in connection with a bid or proposal, the submitting party recognizes this and waives any claim against the County of Black Hawk and any of its officers and employees relating to the release of any document or information submitted. Each submitting party shall hold the County of Black Hawk and its officers and employees harmless from any claims arising from the release of any document or information made available to the County of Black Hawk arising from any bid opportunity.
33. PURCHASE ORDER – Purchase Orders will not be issued from the County of Black Hawk.
34. NO GIFT STANDARD - The County of Black Hawk is committed to upholding the highest ethical standards in all of our business practices. This standard recognizes the need to avoid even the perception of improper gifts or favors to employees. Therefore, we ask all vendors to abide by our "No Gift" standard. The "No Gift" standard also applies to all offers of discounts or free items at any place of business targeted toward a County employee and not available to the general public, regardless of the value.
35. ACCURACY OF BID – It is the bidder's responsibility to determine the bid price based on the bidder's own evaluation of the space to be covered and the work to be done. Accuracy is the bidder's responsibility.

Attachment B

MINIMUM INSURANCE REQUIREMENTS

A. At all times during the contract/agreement the outside party will carry and maintain, at the outside party's expense, the following insurance:

B.

1. Commercial General Liability Insurance Policy, including but not limited to, insurance for premises construction operations (when applicable), contractual liability, completed operations with respect to liability arising out of the ownership, use, occupancy or maintenance of the premises and all areas appurtenant thereto, to afford protection with respect to bodily injury, personal injury, death or property damage of not less than One Million Dollars (\$1,000,000) per occurrence combined single limit/Two Million Dollars (\$2,000,000) general aggregate.

The County reserves the right to require increased liability limits, not to exceed Fifteen Million Dollars (\$15,000,000) from bidders, should the project represent an elevated hazard level to the County as determined by the Black Hawk County Board of Supervisors.

2. Comprehensive Automobile Liability Insurance Policy with limits for each occurrence of not less than One Million Dollars (\$1,000,000) Combined Single Limit with respect to bodily injury, property damage or death.

3. Workers Compensation Insurance Policy or similar insurance in form and amounts required by law.

C. Should the bid require design elements (i.e. architectural, engineering, or professional system designs), the outside party may be required to carry professional errors and omissions coverage with a limit for each claim of not less than One Million Dollars (\$1,000,000).

D. Coverage must be maintained by a financially stable carrier with a minimum AM Best rating of A-. It will be the outside party's responsibility to provide proof of its carrier's rating.

E. The outside party shall agree to the following:

1. Black Hawk County will be named as an additional insured with respect to all casualty insurance policies.

2. Certificate of insurance will be submitted to Board Office with the contract and shall include a thirty-day notice of cancellation provision. The contract will not be signed until the proof of insurance has been approved.

3. If the outside party fails to perform any of its obligations under the County's Insurance and Policy Requirements, Black Hawk County reserves the right to either purchase the required insurance coverage and assess the cost directly to the outside party, or to declare the outside party's bid invalid.

4. Hold Harmless Agreement – The outside party shall indemnify and hold harmless Black Hawk County, its agents and employees, from and against all claims, damages, losses and expenses including attorneys' fees arising out of or resulting from the performance of the work, provided that any such claim, damage, loss or expense:

- a. Is attributable to bodily injury, sickness, disease or death, or to the damage to or destruction of tangible property (other than the work itself) including the loss of use resulting therefrom.
- b. Is caused in whole or in part by any negligent act or omission of the outside party or its subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder.
- c. Each contract/agreement shall contain the following language (when applicable): Contractor/Permitee/Licensee agrees that for all work done in the county road right of ways, easements and county property, it shall be solely responsible for work zone safety and shall hold the County harmless and agree to indemnify the County for all claims that arise from its work in the right of way, and further, it agrees that it will adhere to the Manual on Uniform Traffic Control Devices during the project.

Attachment D

Black Hawk County Small and minority businesses, women's business enterprises, and labor surplus area firms PRE-BID CONTACT INFORMATION

Contractor Name _____

Project Name _____

(To be completed by ALL bidders and submitted with bid proposal documents)

In order for a bid to be considered responsive, bidders are required to provide information showing that small and minority businesses, women's business enterprises, and labor surplus area firm contacts were made if subcontractors will be used on the project.

NOTE: Every effort shall be made to solicit quotes or bids from small and minority businesses, women's business enterprises, and labor surplus area firms on as many subcontract items as possible. If small and minority businesses, women's business enterprises, or labor surplus area firm quotes are used in the submitted bid, it is assumed that the firm listed will be used as a subcontractor.

Subcontractor	Small, Minority, Women's, or Labor Surplus?	Date Contacted	Quote Received		Quote Used in Bid	
			Yes/No	Date Received	Yes/No	Dollar Amt.
Total dollar amount proposed to be subcontracted to small and minority businesses, women's business enterprises, or labor surplus area firms						\$

Make copies of this sheet if more space is needed.

Attachment E

CERTIFICATION REGARDING LOBBYING

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents of all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, United States Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Organization: _____

Street address: _____

City, State, Zip: _____

CERTIFIED BY:(type or print)

TITLE:

(Signature)

(Date)

PUBLIC HEARING

NOTICE OF PROPOSED PUBLIC IMPROVEMENTS

Notice is hereby given in accordance with the Code of Iowa, by the Board of Supervisors of Black Hawk County, State of Iowa that said Board proposes to consider bids for furnishing Black Hawk County Courthouse Renovations, 316 E 5th St, Waterloo, IA.

Proposed plans, specifications and bid documents are on file and available for inspection at the office of INVISION Architecture, 501 Sycamore Street, Suite 101, Waterloo, Iowa 50703; the Black Hawk County Courthouse, Building Maintenance Dept., Rm. B41 (basement), 316 E. 5th St., Waterloo, IA., 50703, and online at www.co.black-hawk.ia.us.

Each bidder shall accompany the bid with a bid security in the amount of 5% of the total value of the proposed contract in a form that meets the requirements of Section 331.341 of the Iowa Code as amended.

A public hearing/bid opening will be held at which time all interested persons may appear and file objections or comments to the proposed plans, specifications, and proposed cost of the project. The hearing/bid opening is set for Tuesday, January 30, 2024, at 9:05 a.m. in the Board of Supervisors meeting room, Rm. 201, in the Black Hawk County Courthouse, 316 E. 5th St., Waterloo, IA.

Published upon order of the Black Hawk County Board of Supervisors, Chris Schwartz, Chair, Waterloo, IA, and dated this 12th day of January, 2024.

BLACK HAWK COUNTY STATE OF IOWA

Grant Veeder, County Auditor

NOTICE TO BIDDERS

The Black Hawk County Board of Supervisors gives notice that sealed bids will be received for furnishing Black Hawk County Courthouse Renovations, 316 E 5th St, Waterloo, IA, 50703. The bidder must be familiar with the specifications and requirements of the bid proposal and the bidder offers to furnish those services to the County as required in its bid proposal.

Bid Documents may be ordered or downloaded by contacting Rapids Reproductions which is located at 6201 Chancellor Drive, Cedar Falls, IA 50613 by phone: 319-277-5538, or by website: <https://www.rapidsreproplanroom.com/>.

The bidding documents for this project are on file and available for examination upon request at INVISION Architecture, 501 Sycamore St., Suite 101, Waterloo, IA 50703, 319-233-8419; the Black Hawk County Courthouse, Building Maintenance Dept., 316 E. 5th St., Rm. B41 (basement), Waterloo, IA 50703, 319-833-3087; and online at www.co.black-hawk.ia.us.. This published notice is an abbreviation of the bid specifications.

A pre-bid meeting shall be held on Monday, January 15, 2024, at 2:00 p.m. at the Black Hawk County Courthouse, 316 E. 5th St., Room B37A, Waterloo, IA. It is the bidder's responsibility to determine the bid price based on the bidder's own evaluation.

The project and term of contract shall be completed on or before December 6, 2024.

Each bidder shall accompany the bid with a bid security by a bid bond, cash deposit, cashier's check or a certified check payable to Black Hawk County in the amount of not less than 5% of the total proposed project. Bid security shall be returned to bidders who were not awarded the contract, upon signing of the contract.

Sealed bid proposals must be received no later than 2:00 p.m. on Monday, January 29, 2024 at the Black Hawk County Courthouse, Building Maintenance Dept., 316 E. 5th St., Rm. B41 (basement), Waterloo, IA. Each bid is to be clearly marked on the "Form of Bid" and submitted in a sealed envelope clearly marked "Bid Proposal for Courthouse Renovations Project – Black Hawk County, IA.". Bid security shall accompany the bid proposal in a separate sealed envelope and shall be clearly marked "Bid security for Courthouse Renovations Project – Black Hawk County, IA." The name of the company must be clearly marked on both envelopes. All bids must be hand-delivered or mailed to the above address and it is the sole responsibility of the bidder to ensure that the bid is received by Black Hawk County at the specified date and time.

NO FAXED OR EMAILED BIDS WILL BE ACCEPTED UNDER ANY CIRCUMSTANCES.

Any bid submitted after the specified date and/or time shall be rejected.

Upon signing the contract, a Performance Bond in the amount equal to the proposed project contract shall be required and submitted before work commences. The Performance Bond shall remain in force for a period of not less than 12 months after completion and final acceptance of the project by the engineer and the owner. Performance bond shall cover the entire contract amount and shall escalate by all approved change orders. It is the contractor's responsibility to submit change orders to the bond company for approval prior to seeking Board approval for the change.

The public hearing/bid opening is set for Tuesday, January 30, 2024, at 9:05 a.m. during the regular meeting of the Board of Supervisors, Room 201 Board of Supervisors Meeting Room, Black Hawk County Courthouse, 316 E. 5th St., Waterloo, IA.

No bidder may withdraw his bid for at least thirty (30) calendar days after the scheduled opening of the bids.

The award of contract shall follow at a later date following an examination of the bids for accuracy. Upon signing of the contract, a Certificate of Insurance naming Black Hawk County as an additional insured shall be required and submitted before work commences and remain in effect until the project is complete and accepted.

Published upon order of the Black Hawk County Board of Supervisors, Chris Schwartz, Chair, Waterloo, IA and dated this 12th day of January, 2024.

BLACK HAWK COUNTY STATE OF IOWA

Grant Veeder, County Auditor

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**SECTION 00 41 00
BID FORM**

THE PROJECT AND THE PARTIES

1.01 TO:

- A. Black Hawk County (Owner)

1.02 FOR:

- A. Project: 23109 Black Hawk County Courthouse Renovations

1.03 DATE: _____ (BIDDER TO ENTER DATE)

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

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

1.05 OFFER

- A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Bid Documents prepared by the Design Professional for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:
- B. _____ dollars
(\$ _____), in lawful money of the United States of America.
- C. We have included the required security deposit as required by the Instruction to Bidders.
- D. All applicable federal taxes are excluded and State of project taxes are excluded from the Bid Sum.
- E. All Cash and Contingency Allowances described in Section 01 21 00 - Allowances are included in the Bid Sum.

1.06 ACCEPTANCE

- A. This offer shall be open to acceptance and is irrevocable for thirty days from the bid closing date.
- B. If this bid is accepted by Owner within the time period stated above, we will:
1. Execute the Agreement within seven days of receipt of Notice of Award.
 2. Furnish the required bonds within seven days of receipt of Notice of Award.
 3. Commence work within seven days after written Notice to Proceed of this bid.
- C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.
- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

1.07 CONTRACT TIME

- A. If this Bid is accepted, we will:
- B. Achieve Substantial Completion of the Work on or before December 6, 2024., under the conditions stated in paragraph 12 of the "General Terms and Conditions" in "Attachment A" of Section 00 20 00 Procurement and Contracting Requirements

1.08 ALLOWANCES

- A. Contingency Allowance: Include the stipulated sum/price of \$30,000 for use upon Owner's instructions.

1.09 ALTERNATES

Alternate 01: Add Restroom Scope.

ADD the Sum of:

_____ DOLLARS (\$_____)

Alternate 02: ADD Operable Partition Scope.

ADD the Sum of:

_____ DOLLARS (\$_____)

Alternate 03: Provide Category 6A Cabling.

ADD the Sum of:

_____ DOLLARS (\$_____)

Alternate 04: ADD Removal of Owner Furniture.

ADD the Sum of:

_____ DOLLARS (\$_____)

1.10 ADDENDA

- A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.

1. Addendum # _____ Dated _____.
2. Addendum # _____ Dated _____.
3. Addendum # _____ Dated _____.

1.11 BID FORM SIGNATURE(S)

The Corporate Seal of

(Bidder - print the full name of your firm)

was hereunto affixed in the presence of:

(Authorized signing officer, Title)

(Seal)

A. _____

B. (Authorized signing officer, Title)

END OF SECTION

SECTION 08 71 00
DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical door hardware.
 - 3. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section "Hollow Metal Doors and Frames".
 - 2. Division 08 Section "Flush Wood Doors".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
 - 1. ANSI/BHMA Certified Product Standards - A156 Series.
 - 2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
 - 3. ANSI/UL 294 - Access Control System Units.
 - 4. UL 305 - Panic Hardware.
 - 5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Shop Drawings: Details of electrified access control hardware indicating the following:
1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
 - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
 - b. Complete (risers, point-to-point) access control system block wiring diagrams.
 - c. Wiring instructions for each electronic component scheduled herein.
 2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- E. Informational Submittals:
1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
 - 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys, cylinder cores and software.
 - 5. Address and requirements for delivery of keys.
- H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
 - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
 - 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 - 3. Review sequence of operation narratives for each unique access controlled opening.
 - 4. Review and finalize construction schedule and verify availability of materials.
 - 5. Review the required inspecting, testing, commissioning, and demonstration procedures
- I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
- B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
 - 1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
- C. Please note that ASSA ABLOY is transitioning the Yale Commercial brand to ASSA ABLOY ACCENTRA. This affects only the brand name; the products and product numbers will remain unchanged. The brand transition is expected to be complete in or about May of 2024, and products shipping after that time will be branded ASSA ABLOY ACCENTRA.

- D. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
 4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.
 5. Manufacturers:
 - a. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.3 POWER TRANSFER DEVICES

- A. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
1. Manufacturers:
 - a. Pemko (PE) - EL-CEPT Series.
 - b. Securitron (SU) - EL-CEPT Series.

- B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.
 - 1. Provide one each of the following tools as part of the base bid contract:
 - a. McKinney (MK) - Electrical Connecting Kit: QC-R001.
 - b. McKinney (MK) - Connector Hand Tool: QC-R003.
 - 2. Manufacturers:
 - a. McKinney (MK) - QC-C Series.

2.4 DOOR OPERATING TRIM

- A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.
 - 1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
 - 2. Furnish dust proof strikes for bottom bolts.
 - 3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
 - 4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
 - 5. Manufacturers:
 - a. Rockwood (RO).
 - b. Trimco (TC).
- B. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
 - 1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
 - 2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
 - 3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
 - 4. Pulls, where applicable, shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
 - 5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.
 - 6. Manufacturers:
 - a. Rockwood (RO).
 - b. Trimco (TC).

2.5 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
 - 1. Manufacturers:
 - a. Match Existing, Field Verify.
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
 - 1. Threaded mortise cylinders with rings and cams to suit hardware application.
 - 2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 - 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
 - 4. Tubular deadlocks and other auxiliary locks.
 - 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 - 6. Keyway: Match Facility Standard.
- C. Keying System: Each type of lock and cylinders to be factory keyed.
 - 1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 - 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 - 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- D. Key Quantity: Provide the following minimum number of keys:
 - 1. Change Keys per Cylinder: Two (2)
 - 2. Master Keys (per Master Key Level/Group): Five (5).
 - 3. Construction Keys (where required): Ten (10).
- E. Construction Keying: Provide construction master keyed cylinders.
- F. Key Registration List (Bitting List):
 - 1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 - 2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 KEY CONTROL

- A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.
 - 1. Manufacturers:
 - a. Lund Equipment (LU).
 - b. MMF Industries (MM).
 - c. Telkee (TK).

2.7 MORTISE LOCKS AND LATCHING DEVICES

- A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.
 - 1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) - ML2000 Series.
 - b. Sargent Manufacturing (SA) - 8200 Series.

2.8 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
 - 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 - 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 - 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
 - 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
 - 1. Strikes for Mortise Locks and Latches: BHMA A156.13.
 - 2. Strikes for Bored Locks and Latches: BHMA A156.2.
 - 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
 - 4. Dustproof Strikes: BHMA A156.16.

2.9 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
 - 1. Exit devices shall have a five-year warranty.
 - 2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
 - 3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 - 4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
 - 5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
 - 6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
 8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
 9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
 10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
 11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.
1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series.
 - b. Sargent Manufacturing (SA) - 80 Series.

2.10 DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
 2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
 3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
 5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
 6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
- B. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.
1. Large body cast iron surface mounted door closers shall have a 30-year warranty.
 2. Manufacturers:
 - a. Corbin Russwin Hardware (RU) - DC8000 Series.
 - b. Norton Rixson (NO) - 9500 Series.
 - c. Sargent Manufacturing (SA) - 281 Series.

2.11 ARCHITECTURAL TRIM

- A. Door Protective Trim
1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.

2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, .050-inch thick.
5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:
 - a. Rockwood (RO).
 - b. Trimco (TC).

2.12 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
 1. Manufacturers:
 - a. Rockwood (RO).
 - b. Trimco (TC).
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
 1. Manufacturers:
 - a. Norton Rixson (RF).
 - b. Sargent Manufacturing (SA).

2.13 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 - 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 - 1. Pemko (PE).
 - 2. Reese Enterprises, Inc. (RE).

2.14 ELECTRONIC ACCESSORIES

- A. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.
 - 1. Manufacturers:
 - a. Sargent Manufacturing (SA) - 3280 Series.
 - b. Securitron (SU) - DPS Series.

2.15 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.16 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
1. Quantities listed are for each pair of doors, or for each single door.
 2. The supplier is responsible for handing and sizing all products.
 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Manufacturer's Abbreviations:
1. MK - McKinney
 2. PE - Pemko
 3. SU - Securitron
 4. RO - Rockwood
 5. SA - SARGENT
 6. RF - Rixson
 7. NO - Norton
 8. OT - Other

Hardware Sets

Set: 1.0

Doors: 102

6 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
2 Surface Vert Rod Exit, Classroom	NB8713 ETL	US32D	SA
2 Door Closer	281 CPS	EN	SA
2 Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D	RO
2 Silencer	608-RKW		RO

Set: 2.0

Doors: 080A, 080B

6 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
2 Flush Bolt	555	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Office Lock w/ Indicator	V21 EMB 8205 LNL	US26D	SA
1 Door Closer	281 P10	EN	SA
2 Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D	RO
2 Wall Stop	400	US26D	RO
2 Silencer	608-RKW		RO

Set: 3.0 (NOT USED)

Doors:

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Rim Exit Device, Storeroom	8804 ETL	US32D	SA
1 Door Closer	281 CPS	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
3 Silencer	608-RKW		RO

Set: 4.0

Doors: 104B

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	8204 LNL	US26D	SA
1 Door Closer	281 CPS	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
3 Silencer	608-RKW		RO

Set: 5.0

Doors: 101A

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	8204 LNL	US26D	SA
1 Door Closer	281 O	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400	US26D	RO
1 Gasketing	S88BL		PE

Set: 6.0

Doors: 031, 101, 110, 230A

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Electric Power Transfer	EL-CEPT	630	SU
1 Fail Secure Lock	LX RX 8271 LNL	US26D	SA
1 Door Closer	281 O	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400	US26D	RO
3 Silencer	608-RKW		RO
1 ElectroLynx Harness	QC-C1500P (Frame - EPT to Power/Controller)		MK
1 ElectroLynx Harness	QC-CxxxP (Door - EPT to Elec. Lock)		MK
1 Position Switch	DPS-M / W		SU
1 Card Reader	Provided by Security Contractor		OT
1 Power Supply	AQD1		SU

Notes: Door normally closed, latched and secured.
Entry by valid card read or key override.
Free egress at all times.

Set: 7.0

Doors: 021, 250

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Electric Power Transfer	EL-CEPT	630	SU
1 Fail Secure Lock	LX RX 8271 LNL	US26D	SA
1 Door Closer	281 P10	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400	US26D	RO
3 Silencer	608-RKW		RO
1 ElectroLynx Harness	QC-C1500P (Frame - EPT to Power/Controller)		MK
1 ElectroLynx Harness	QC-CxxxP (Door - EPT to Elec. Lock)		MK
1 Position Switch	DPS-M / W		SU
1 Card Reader	Provided by Security Contractor		OT
1 Power Supply	AQD1		SU

Notes: Door normally closed, latched and secured.
Entry by valid card read or key override.
Free egress at all times.

Set: 8.0

Doors: 011

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Electric Power Transfer	EL-CEPT	630	SU
1 Fail Secure Lock	LX RX 8271 LNL	US26D	SA
1 Door Closer	281 CPS	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
3 Silencer	608-RKW		RO
1 ElectroLynx Harness	QC-C1500P (Frame - EPT to Power/Controller)		MK
1 ElectroLynx Harness	QC-CxxxP (Door - EPT to Elec. Lock)		MK
1 Position Switch	DPS-M / W		SU
1 Card Reader	Provided by Security Contractor		OT
1 Power Supply	AQD1		SU

Notes: Door normally closed, latched and secured.
Entry by valid card read or key override.
Free egress at all times.

Set: 9.0

Doors: 010

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Electric Power Transfer	EL-CEPT	630	SU
1 Electrified Mortise Lock w/ Indicator	V21 EMB PHR NAC-82281 LNL	US26D	SA
1 Door Closer	281 CPS	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
3 Silencer	608-RKW		RO
1 ElectroLynx Harness	QC-C1500P (Frame - EPT to Power/Controller)		MK
1 ElectroLynx Harness	QC-CxxxP (Door - EPT to Elec. Lock)		MK
1 Position Switch	DPS-M / W		SU
1 Card Reader	Provided by Security Contractor		OT
1 Power Supply	AQD1		SU

Notes: Door normally closed, latched and secured.
Entry by valid card read or key override.
When deadbolt project by inside thumb turn it will shunt the outside card reader to allow for privacy.
Free egress at all times.

Set: 10.0

Doors: 103, 104, 252B, 252, 253

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Lock	8237 LNL	US26D	SA
1 Door Closer	281 O	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400	US26D	RO
3 Silencer	608-RKW		RO

Set: 11.0

Doors: 231

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Lock	8237 LNL	US26D	SA
1 Surf Overhead Stop	9-x36	630	RF
1 Door Closer	281 O	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
3 Silencer	608-RKW		RO

Set: 12.0

Doors: 108, 109, 237, 238, 238A

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	8204 LNL	US26D	SA
1 Door Closer	281 P10	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400	US26D	RO
3 Silencer	608-RKW		RO

Set: 13.0

Doors: 030, 100, 233

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	8204 LNL	US26D	SA
1 Door Closer	281 O	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400	US26D	RO
3 Silencer	608-RKW		RO

Set: 14.0

Doors: 254

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	8204 LNL	US26D	SA
1 Surf Overhead Stop	9-x36	630	RF
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
3 Silencer	608-RKW		RO

Set: 15.0

Doors: 022, 023, 032, 104A, 111, 112, 113, 234, 235, 236, 251

3 Hinge, Full Mortise	TA2714 FT 4-1/2" x 4-1/2"	US26D	MK
1 Office Lock	8205 LNL	US26D	SA
1 Wall Stop	400	US26D	RO
3 Silencer	608-RKW		RO

Set: 16.0

Doors: 252A

3 Hinge, Full Mortise	TA2714 FT 4-1/2" x 4-1/2"	US26D	MK
1 Passage Set	8215 LNL	US26D	SA
1 Wall Stop	400	US26D	RO
3 Silencer	608-RKW		RO

Set: 17.0

Doors: 253A

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Passage Set	8215 LNL	US26D	SA
1 Door Closer	281 O	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400	US26D	RO
3 Silencer	608-RKW		RO

Set: 18.0

Doors: 106, 107

3 Hinge (heavy weight)	T4A3786 FT 4-1/2" x 4-1/2"	US26D	MK
1 Keyed Privacy Lock w/ Indicator	V21 EMB 8257 LNL	US26D	SA
1 Door Closer	281 P10	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1 Wall Stop	400	US26D	RO
3 Silencer	608-RKW		RO

Set: 19.0

Doors: 201, 230

1 Hardware is existing to remain	00
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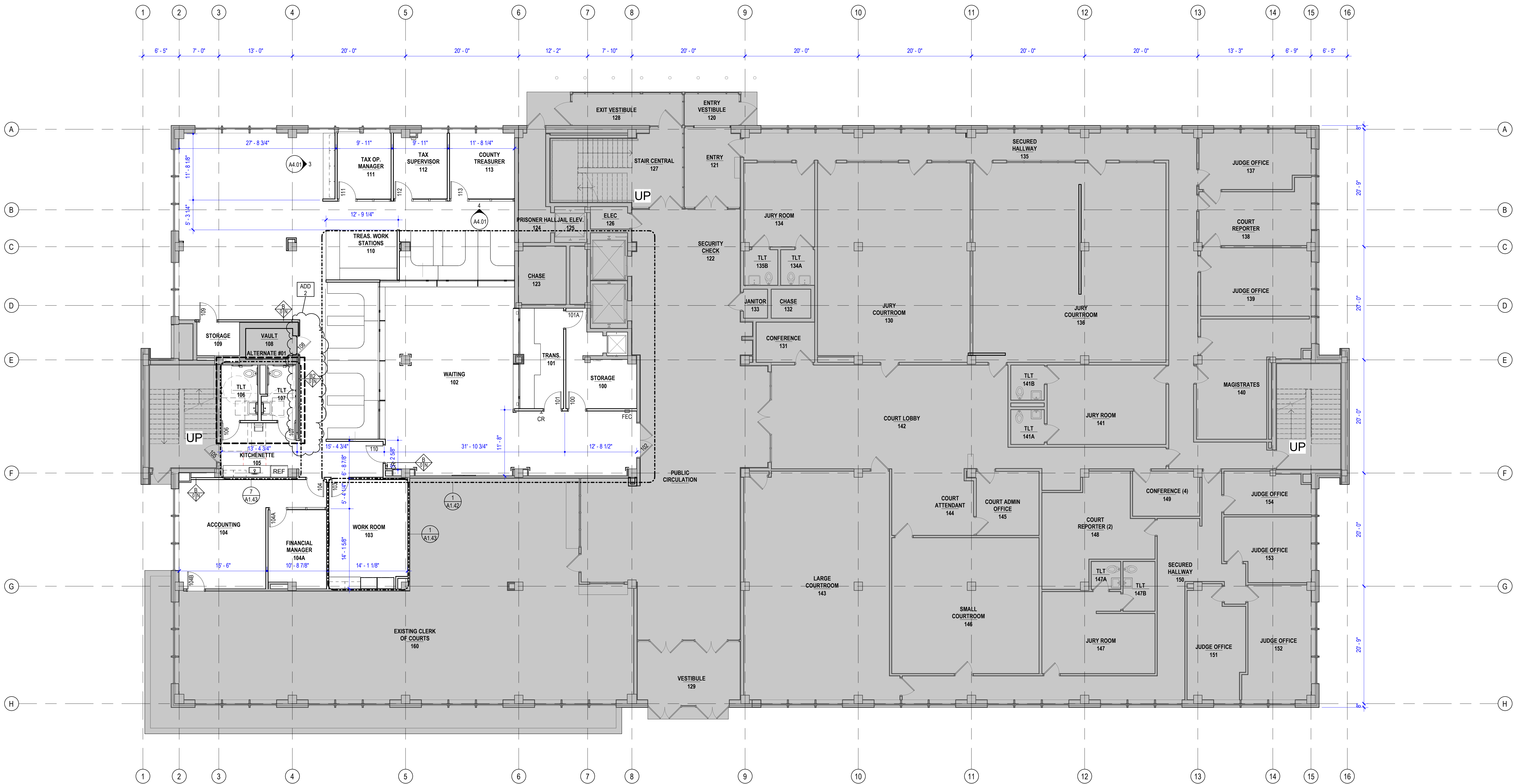
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080B	2.0
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101	6.0
101A	5.0
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103	10.0

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104B	4.0
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113	15.0
201	19.0
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233	13.0
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253A	17.0
254	14.0

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1 FIRST FLOOR PLAN
1/8" = 1'-0"

GENERAL EXISTING FLOOR PLAN NOTES:

1. SHADED AREAS ARE SHOWN FOR REFERENCE ONLY AND ARE GENERALLY OUTSIDE OF PROJECT SCOPE.
2. ALL WALLS WITH SOUND BATT ATTENUATION BLANKETS ARE TO HAVE ACOUSTICAL SEALANT AT TOP AND BOTTOM. SEE WALL TYPES FOR ADDITIONAL REQUIREMENTS.
3. FACE OF NEW WALLS TO ALIGN WITH FACE OF EXISTING ADJACENT WALL, UNLESS NOTED OTHERWISE.
4. WALL INFILL AT EXISTING WALLS SHALL BE SIZED TO MATCH EXISTING WALLS FACE OF NEW FINISH TO BE FLUSH WITH EXISTING FINISHED FACE ON EACH SIDE OF WALL.
5. SEE EXTERIOR AND INTERIOR ELEVATIONS FOR FURTHER CLARIFICATION OF MATERIALS / LOCATIONS / FINISHES.

GENERAL FLOOR PLAN NOTES:

1. REFER TO ADDITIONAL NOTES AND REQUIREMENTS ON ALL OTHER DOCUMENTS, OTHER DISCIPLINES AND SPECIFICATIONS.
2. ALL SITE INFO, FIXTURES AND EQUIPMENT SHOWN ON THIS SHEET IS PROVIDED FOR COORDINATION PURPOSES ONLY. THE LAYOUT IS CONSIDERED CONCEPTUAL. REFER TO CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, LIFE SAFETY, ETC. DOCUMENTS FOR SPECIFIC DESIGN INFORMATION.
3. ALL CONDUITS, PIPES, SPRINKLER MAINS SHOULD BE HELD AS TIGHT AS POSSIBLE TO THE ROOF OR FLOOR DECK ABOVE. NOTHING SHALL BE BELOW THE BOTTOM EDGE OF THE STRUCTURE UNLESS PRIOR APPROVAL IS GRANTED BY THE ARCHITECT OR OWNER. ABSOLUTELY NO OBSTRUCTIONS SHALL PREVENT A FINISHED CEILING HEIGHT NOTED ON THE DRAWINGS IN THOSE AREAS RECEIVING CEILING TREATMENT. PLACEMENT COORDINATION BETWEEN TRADES IS REQUIRED.
4. CAULK & SEAL ALL CONTROL-EXPANSION, SAWCUT JOINTS AT ALL INTERIOR & EXTERIOR MASONRY & CONCRETE. PROVIDE CONSTRUCTION AND CONTROL JOINTS IN CONCRETE SLABS ON GRADE AS SHOWN OR DETAILED ON STRUCTURAL DRAWINGS. IF NOT SHOWN, PROVIDE JOINTING PLAN.

WALL LEGEND:

- EXISTING WALL
- NEW WALL CONSTRUCTION
- DEMO WALL

INVISION
A COMMITMENT TO EXCELLENCE

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CONSULTANT:
MEPT+ENGINEER
MODUS

REVISIONS:	Description	Date	No.
ADD 2		01.25.2024	2

OWNER SIGN-OFF:
DATE _____ NAME _____

BLACK HAWK COUNTY
COURTHOUSE RENOVATIONS

316 E 5th Street, Waterloo, IA 50703

PROJECT NO:
23109
DATE:
JANUARY 4, 2024
SHEET SET:
BID DOCUMENTS

SHEET NAME:
FIRST FLOOR PLAN

SHEET:
A1.11
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TRUE NORTH PROJECT NORTH

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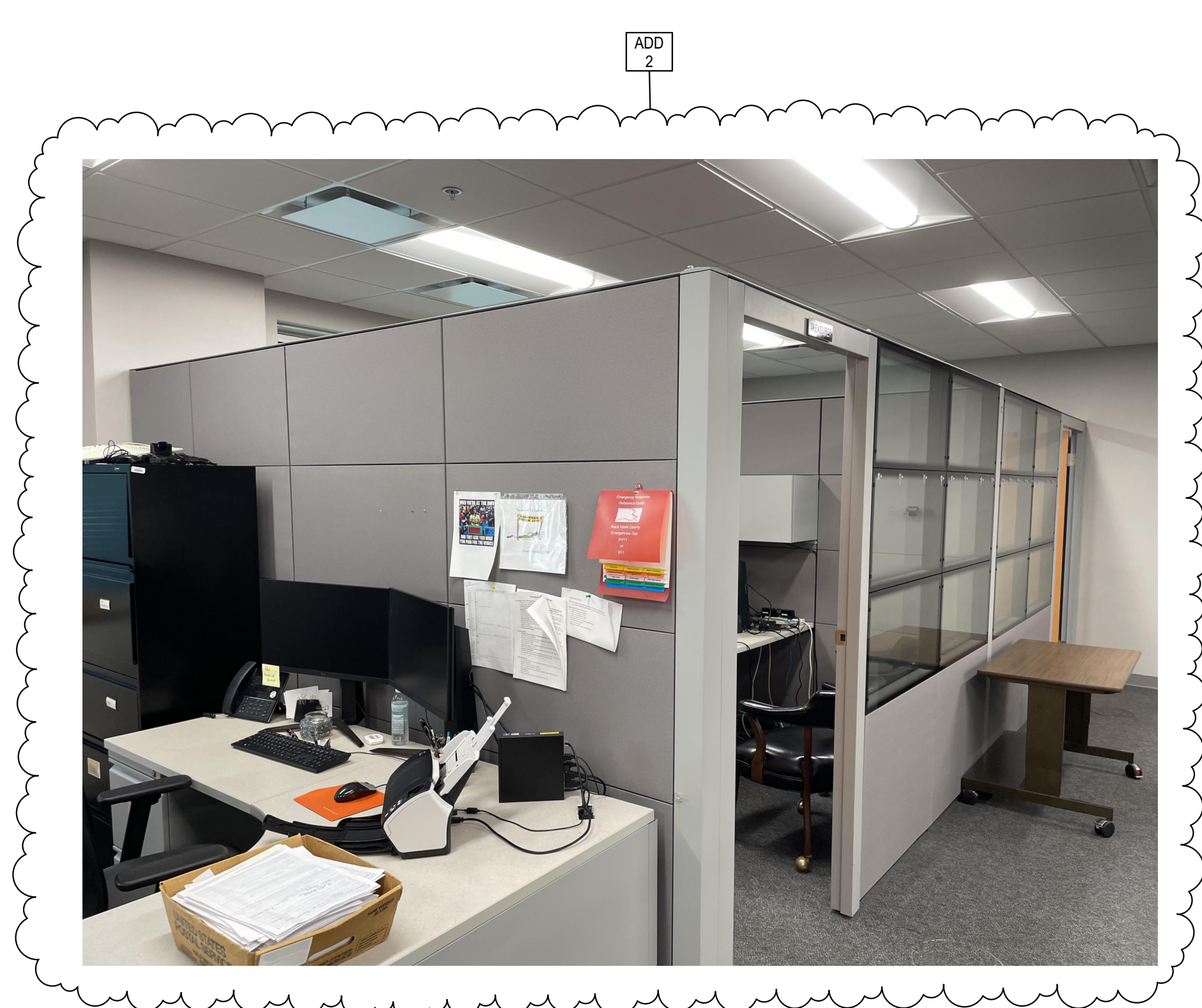
$$\overline{1/8'' = 1'-0''}$$

- THIS SHEET MUST BE PRINTED IN COLOR TO VIEW CONTENT PROPERLY**

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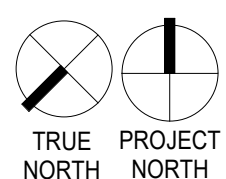
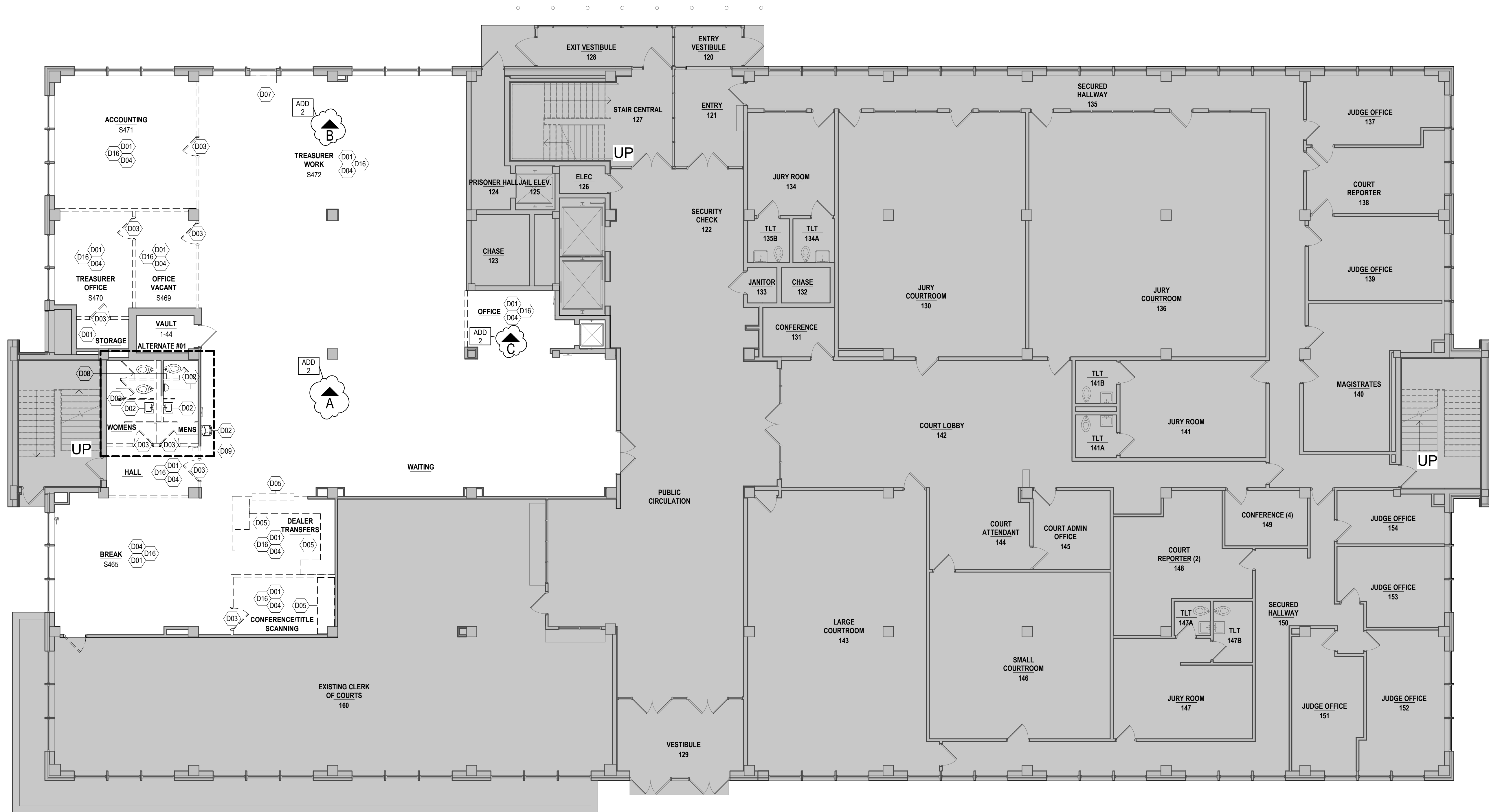
A. - ALT #4



B. - ALT #4



C. - ALT #4



1 DEMOLITION PLAN - FIRST FLOOR
1/8" = 1'-0"

GENERAL DEMOLITION PLAN NOTES:

- HATCHED AREAS ARE SHOWN FOR REFERENCE ONLY AND ARE GENERALLY OUTSIDE OF PROJECT SCOPE.
- EXISTING ROOM NUMBERS AND NAMES SHOWN ON DEMOLITION PLANS. SEE NEW WORK PLANS FOR NEW ROOM NUMBERS AND NAMES.
- DASHED LINES INDICATE ITEMS TO BE REMOVED. PATCH AND REPAIR ALL ADJACENT SURFACES TO MATCH EXISTING SURFACE.
- SEE ALL OTHER DISCIPLINES SHEETS FOR ADDITIONAL DEMOLITION.
- REFER TO DEMOLITION REFLECTED CEILING AND DEMOLITION REFLECTED STRUCTURAL PLANS FOR ADDITIONAL DEMOLITION ITEMS.
- REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR DIMENSIONS OF NEW OPENINGS NOT DIMENSIONS ON THE DEMOLITION SHEETS.
- PROTECT ALL ITEMS / SURFACES "TO REMAIN" DURING DEMOLITION / CONSTRUCTION. REPAIR / REPLACE ALL ITEMS DAMAGED DURING DEMOLITION / CONSTRUCTION.
- PATCH SURFACES TO MATCH ADJACENT SURFACES AT ALL REMOVED (ALL DISCIPLINES) DEVICES.
- SURFACE TEXTURE OF ALL WALL PATCHES / INFILL TO MATCH ADJACENT EXISTING SURFACES BLEND NEW WALL TEXTURE INTO EXISTING WALL TEXTURE FOR UNIFORM FINISH / APPEARANCE. REPAIR ENTIRE WALL.
- SEE DEMOLITION INTERIOR AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

CEILING DEMO NOTES:

- HATCHED AREAS ARE SHOWN FOR REFERENCE ONLY AND ARE GENERALLY OUTSIDE OF PROJECT SCOPE.
- EXISTING ROOM NUMBERS AND NAMES SHOWN ON DEMOLITION PLANS. SEE NEW WORK PLANS FOR NEW ROOM NUMBERS AND NAMES.
- DASHED LINES INDICATE ITEMS TO BE REMOVED. PATCH AND REPAIR ALL ADJACENT SURFACES TO MATCH EXISTING SURFACE.
- SEE ALL OTHER DISCIPLINES SHEETS FOR ADDITIONAL DEMOLITION.
- REFER TO DEMOLITION FLOOR PLANS FOR ADDITIONAL DEMOLITION ITEMS.
- REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR DIMENSIONS OF NEW OPENINGS NOT DIMENSIONS ON THE DEMOLITION SHEETS.
- PROTECT ALL ITEMS / SURFACES "TO REMAIN" DURING DEMOLITION / CONSTRUCTION. REPAIR / REPLACE ALL ITEMS DAMAGED DURING DEMOLITION / CONSTRUCTION.
- PATCH SURFACES TO MATCH ADJACENT SURFACES AT ALL REMOVED (ALL DISCIPLINES) EQUIPMENT, CHASES, DEVICES ETC.
- REMOVE ALL LOOSE FINISH FROM EXISTING SURFACES THAT ARE TO RECEIVE NEW FINISHES AND PREPARE FOR NEW FINISHES.
- PARTITION WALLS TO BE REMOVED (SHOWN DASHED) SHOWN FOR REFERENCE - SEE DEMOLITION FLOOR PLANS.
- ON DEMOLITION REFLECTED STRUCTURAL PLANS, WALLS SHOWN ARE THOSE THAT EXTEND TO BOTTOM OF STRUCTURE. WALLS THAT DO NOT EXTEND TO BOTTOM OF STRUCTURE ARE NOT SHOWN. SEE DEMOLITION FLOOR PLANS.

DEMOLITION LEGEND:

- EXISTING GYPSUM BOARD / PLASTER CEILING TO REMAIN
- REMOVE EXISTING GYPSUM BOARD / PLASTER CEILING
- REMOVE EXISTING ACOUSTICAL CEILING TILE SYSTEM COMPLETE

WALL LEGEND:

- EXISTING WALL
- NEW WALL CONSTRUCTION
- DEMO WALL

DEMOLITION KEYNOTES

	DESCRIPTION
D01	DEMO EXISTING AS INDICATED ON PLAN - REMOVED EXISTING WALLS, DOORS, WINDOWS, CASEWORK, AND WALL BASE. SEE OTHER TRADES FOR TERMINATION & CAPPING OF UTILITIES.
D02	REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED ACCESSORIES. SEE MEP FOR PREPPING OF UTILITIES TO INSTALL NEW PLUMBING FIXTURES.
D03	REMOVE EXISTING DOOR AND FRAME.
D04	DEMO FINISH FLOORING AND WALL BASE. REMOVE EXISTING FLOORING FINISH & FLOORING UNDERLAYMENT DOWN TO CONCRETE. DO NOT LEAVE ANY RESIDUE FROM EXISTING FLOORING. PREP FOR NEW FLOOR FINISH.
D05	REMOVE EXISTING CASEWORK.
D06	CUT NEW OPENING IN WALL. SEE FLOOR PLAN FOR DIMENSIONS.
D07	REMOVE EXISTING CASEWORK, ELECTRICAL & SILL. PREP FOR NEW WINDOW SILL.
D08	REMOVE EXISTING TOILET PARTITIONS.
D09	REMOVE EXISTING ELECTRICAL PANEL, ALTERNATE BY PATCH BACK TO MATCH EXISTING WALL FINISH.
D10	REMOVE EXISTING LEKTRIEVER AND ALL ASSOCIATED OPERATIONAL COMPONENTS.
D11	REMOVE EXISTING COUNTERTOP AND CABINERY AND PREP FOR NEW.
D12	MODIFY EXISTING MABLE PANEL ON FACE OF WALL TO MATCH NEW COUNTER TOP.
D13	REMOVE EXISTING WALL INCLUDING EXISTING TERRAZZO BASE AND MARBLE WALL PANELS. SALVAGE MARBLE PANELS FOR REUSE AS WALL PANELS AND WINDOW SILL REPLACEMENT TURN OVER REMAINING SLAB TO OWNER. SALVAGE TERRAZZO BASE FOR PATCH BACK AT MODIFIED CORRIDOR DOOR LOCATION ACROSS THE HALL.
D14	REMOVE EXISTING COILING DOOR UNITS AND ASSOCIATED FRAMING AND PLASTER/GWB AND PREP FOR NEW UNITS TO BE INSTALLED.
D15	REMOVE EXISTING PLYWOOD AND FINISH TO MATCH ADJACENT GWB WALL.
D16	DEMO EXISTING CEILING. SALVAGE LIGHTING AS INDICATED ON ELECTRICAL PLANS.
D17	PATCH AND REFINISH GWB BULKHEAD ABOVE ALCOVE.
D18	REMOVE AND MODIFY CEILING AS REQUIRED FOR NEW WORK.

INVISION

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CONSULTANT:
MEPT+ENGINEER
MODUS

REVISIONS:
Description Date No.
ADD 2 01.25.2024 2

OWNER SIGN-OFF:
DATE NAME

BLACK HAWK COUNTY
COURTHOUSE RENOVATIONS

316 E 5th Street, Waterloo, IA 50703

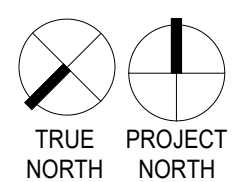
PROJECT NO:
23109

DATE:
JANUARY 4, 2024
SHEET SET:
BID DOCUMENTS

SHEET NAME:
DEMOLITION PLAN, FIRST
FLOOR

SHEET:
AD1.11

THIS SHEET MUST BE PRINTED IN COLOR TO VIEW CONTENT PROPERLY



1 DEMOLITION PLAN - SECOND FLOOR
1/8" = 1'-0"




GENERAL DEMOLITION PLAN NOTES:

1. HATCHED AREAS ARE SHOWN FOR REFERENCE ONLY AND ARE GENERALLY OUTSIDE OF PROJECT SCOPE.
2. EXISTING ROOM NUMBERS AND NAMES SHOWN ON DEMOLITION PLANS. SEE NEW WORK PLANS FOR NEW ROOM NUMBERS AND NAMES.
3. DASHED LINES INDICATE ITEMS TO BE REMOVED. PATCH AND REPAIR ALL ADJACENT SURFACES TO MATCH EXISTING SURFACE.
4. SEE ALL OTHER DISCIPLINES SHEETS FOR ADDITIONAL DEMOLITION.
5. REFER TO DEMOLITION REFLECTED CEILINGS AND DEMOLITION REFLECTED STRUCTURAL PLANS FOR ADDITIONAL DEMOLITION.
6. REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR DIMENSIONS OF NEW OPENINGS NOT DIMENSIONS ON THE DEMOLITION SHEETS.
7. PROTECT ALL SURFACES / SURFACES TO REMAIN DURING DEMOLITION / CONSTRUCTION / REPAIR. REPLACE ALL ITEMS DAMAGED DURING DEMOLITION / CONSTRUCTION.
8. PATCH SURFACES TO MATCH ADJACENT SURFACES AT ALL REMOVED (ALL DISCIPLINES) DEVICES.
9. SURFACE TEXTURE (ALL WALL / PATCHES / INFILL) TO MATCH ADJACENT EXISTING SURFACES BLEND NEW WALL. TEXTURE INTO EXISTING WALL TEXTURE FOR UNIFORM FINISH / APPEARANCE. REPAINT ENTIRE WALL.
10. SEE DEMOLITION INTERIOR AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.



CEILING DEMO NOTES:

1. HATCHED AREAS ARE SHOWN FOR REFERENCE ONLY AND ARE GENERALLY OUTSIDE OF PROJECT SCOPE.
2. EXISTING ROOM NUMBERS AND NAMES SHOWN ON DEMOLITION PLANS. SEE NEW WORK PLANS FOR NEW ROOM NUMBERS AND NAMES.
3. DASHED LINES INDICATE ITEMS TO BE REMOVED. PATCH AND REPAIR ALL ADJACENT SURFACES TO MATCH EXISTING SURFACE.
4. SEE ALL OTHER DISCIPLINES SHEETS FOR ADDITIONAL DEMOLITION.
5. REFER TO DEMOLITION FLOOR PLANS FOR ADDITIONAL DEMOLITION ITEMS.
6. REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR DIMENSIONS OF NEW OPENINGS NOT DIMENSIONS ON THE DEMOLITION SHEETS.
7. PROTECT ALL ITEMS / SURFACES "TO REMAIN" DURING DEMOLITION / CONSTRUCTION. REPAIR / REPLACE ALL ITEMS DAMAGED DURING DEMOLITION / CONSTRUCTION.
8. PATCH SURFACES TO MATCH ADJACENT SURFACES AT ALL REMOVED (ALL DISCIPLINES) EQUIPMENT, CHASES, DEVICES ETC.
9. REMOVE ALL LOOSE FINISH FROM EXISTING SURFACES THAT ARE TO RECEIVE NEW FINISHES AND PREPARE FOR NEW FINISHES.
10. PARTITION WALLS TO BE REMOVED (SHOWN DASHED) SHOWN FOR REFERENCE - SEE DEMOLITION FLOOR PLANS.
11. ON DEMOLITION REFLECTED STRUCTURAL WALLS, WALLS SHOWN ARE THOSE THAT EXTEND TO BOTTOM OF STRUCTURE. WALLS THAT DO NOT EXTEND TO BOTTOM OF STRUCTURE ARE NOT SHOWN. SEE DEMOLITION FLOOR PLANS.

DEMOLITION LEGEND:

- | | |
|---|---|
|  | EXISTING GYPSUM BOARD / PLASTER CEILING TO REMAIN |
|  | REMOVE EXISTING GYPSUM BOARD / PLASTER CEILING |
|  | REMOVE EXISTING ACOUSTICAL CEILING TILE SYSTEM COMPLETE |

WALL LEGEND:

- EXISTING WALL
 NEW WALL CONSTRUCTION
 DEMO WALL

DEMOLITION KEYNOTES	
DESCRIPTION	
D01	DEMO EXISTING AS INDICATED ON PLAN - REMOVE EXISTING WALLS, DOORS, WINDOWS, CASEWORK AND WALL BASE. SEE OTHER TRADES FOR TERMINATION & CAPPING OF UTILITIES.
D02	REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED ACCESSORIES. PREP FOR PREPPING OF UTILITIES TO INSTALL NEW PLUMBING FIXTURES.
D03	REMOVE EXISTING DOOR AND FRAME.
D04	DEMO FINISH FLOORING AND WALL BASE. REMOVE EXISTING FLOORING FINISH & FLOORING UNDERLAMENT CUP TO CONCRETE. DO NOT LEAK ANY RESIDUE FROM EXISTING FLOORING. PREP FOR NEW FLOOR FINISH.
D05	REMOVE EXISTING CASEWORK.
D06	CUT NEW OPENING IN WALL. SEE FLOOR PLAN FOR DIMENSIONS.
D07	REMOVE EXISTING CASEWORK, ELECTRICAL & SILL. PREP FOR NEW WINDOW SILL.
D08	REMOVE EXISTING TOILET PARTITIONS.
D09	REMOVE EXISTING ELECTRICAL PANEL, ALTERNATE IF PATCH BACK TO MATCH EXISTING WALL FINISH.
D10	REMOVE EXISTING KEYSWITCH AND ALL ASSOCIATED OPERATION COMPONENTS.
D11	REMOVE EXISTING COUNTERTOP AND CABINETRY AND PREP FOR NEW.
D12	MODIFY EXISTING MARBLE PANEL ON FACE OF WALL TO ACCOMMODATE NEW COUNTER HEIGHTS.
D13	REMOVE WALL INCLUDING EXISTING TERRAZZO BASE AND MARBLE WALL PANELS. SALVAGE MARBLE PANELS FOR REUSE IN WALLS AND WINDOW SILL REPLACEMENT TURN OVER TERRAZZO BASE TO OWNER. REMOVE EXISTING PREP FOR PA BACK. REMOVE CORRIDOR DOOR LOCATION ACROSS THE HALL.
D14	REMOVE EXISTING COILING DUCT DRUMS AND ASSOCIATED FLOORING PLASTER/GWB AND PREP FOR NEW UNITS TO BE INSTALLED.
D15	REMOVE EXISTING PLUMBING AND FINISH TO MATCH ADJACENT GWB WALL.
D16	DEMO EXISTING CELINGS, WALLS, SALVAGING AS MUCH AS POSSIBLE ON ELECTRICAL.
D17	PATCH AND REFINISH GWS BULKHEAD ABOVE ALCOVE.
D18	REMOVE AND MODIFY CELINGS AS REQUIRED FOR NEW WORK.

INVISION
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CONSULTANT:
MEPT+F ENGINEER
MODUS

REVISIONS:		
Description	Date	No
ADD 2	01.25.2024	2

OWNER SIGN-OFF: _____

BLACK HAWK COUNTY
COURTHOUSE RENOVATIONS

316 E 5th Street, Waterloo, IA 50703

PROJECT NO:
23109

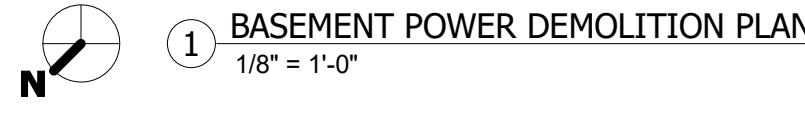
DATE:
JANUARY 4, 2024

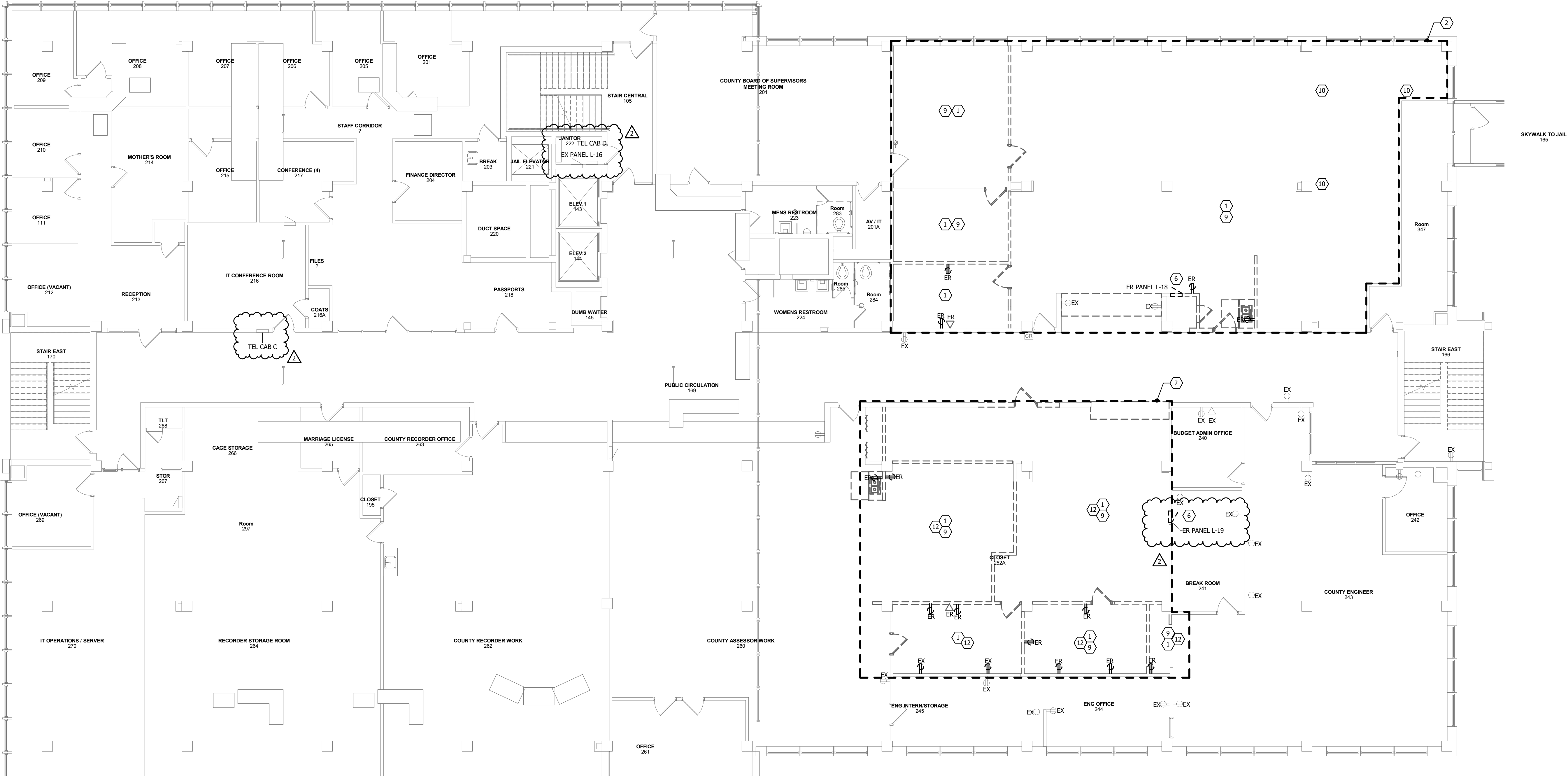
SHEET SET:
BID DOCUMENTS

SHEET NAME:
DEMOLITION PLAN,
SECOND FLOOR

SHEET:
AD1.21

THIS SHEET MUST BE PRINTED IN COLOR TO VIEW CONTENT PROPERLY





1 2ND FLOOR POWER DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION GENERAL NOTES:

- REFER TO G SERIES PLANS IN ARCHITECTURAL DRAWINGS SET REGARDING ALTERNATES ON THE PROJECT.
- REFER TO G SERIES PLANS IN ARCHITECTURAL DRAWING SET FOR SPECIFIC PHASING REQUIREMENTS.
- DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND CASUAL FIELD OBSERVATION. ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.
- ALL REQUIRED DEMOLITION IS NOT INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- REFER TO SPECIFICATIONS AND OTHER SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL MECHANICAL EQUIPMENT TO BE REMOVED.
- MAINTAIN FIRE RATINGS OF AFFECTED WALLS AND FLOORS.
- EXISTING ELECTRICAL SYSTEMS LOCATED IN WALLS AND CHASES NOT BEING REMOVED OR REUSED FOR NEW SYSTEMS MAY BE ABANDONED IN PLACE. CAP AT MAINS OR IN A CONCEALED LOCATION IF REQUIRED.
- REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.
- EXTERIOR FREE-STANDING ELECTRICAL AND MECHANICAL DEVICES NOT BEING REUSED SHALL BE REMOVED UNDER BASE BID UNLESS OTHERWISE NOTED. PATCH OPENING TO MATCH SURROUNDING SURFACES.
- ELECTRICAL CONTRACTOR SHALL RECESS ALL DEVICES/ EQUIPMENT FLUSH IN EXISTING WALLS AND CUT AND PATCH TO MATCH EXISTING. COORDINATE WITH GENERAL CONTRACTOR.

- ELECTRICAL CONTRACTOR SHALL REMOVE ALL UNUSED/ABANDONED DATA CABLES AND ASSOCIATED RACEWAY BACK TO THE LOCAL SWITCH. ELECTRICAL CONTRACTOR SHALL REMOVE ALL UNUSED AND ABANDONED PHONE CABLES BACK TO THE LOCAL TELEPHONE TERMINATION COORDINATE DEMOLITION WITH OWNER'S IT STAFF DURING CONSTRUCTION.
- CONTRACTOR SHALL SALVAGE ALL EXISTING NIGHT CONTROL DEVICES TO OWNER. DEVICES MEETING THE SEQUENCE OF OPERATIONS CAN BE REUSED WHERE APPROVED BY DESIGN TEAM.

DEMOLITION REFERENCED NOTES:

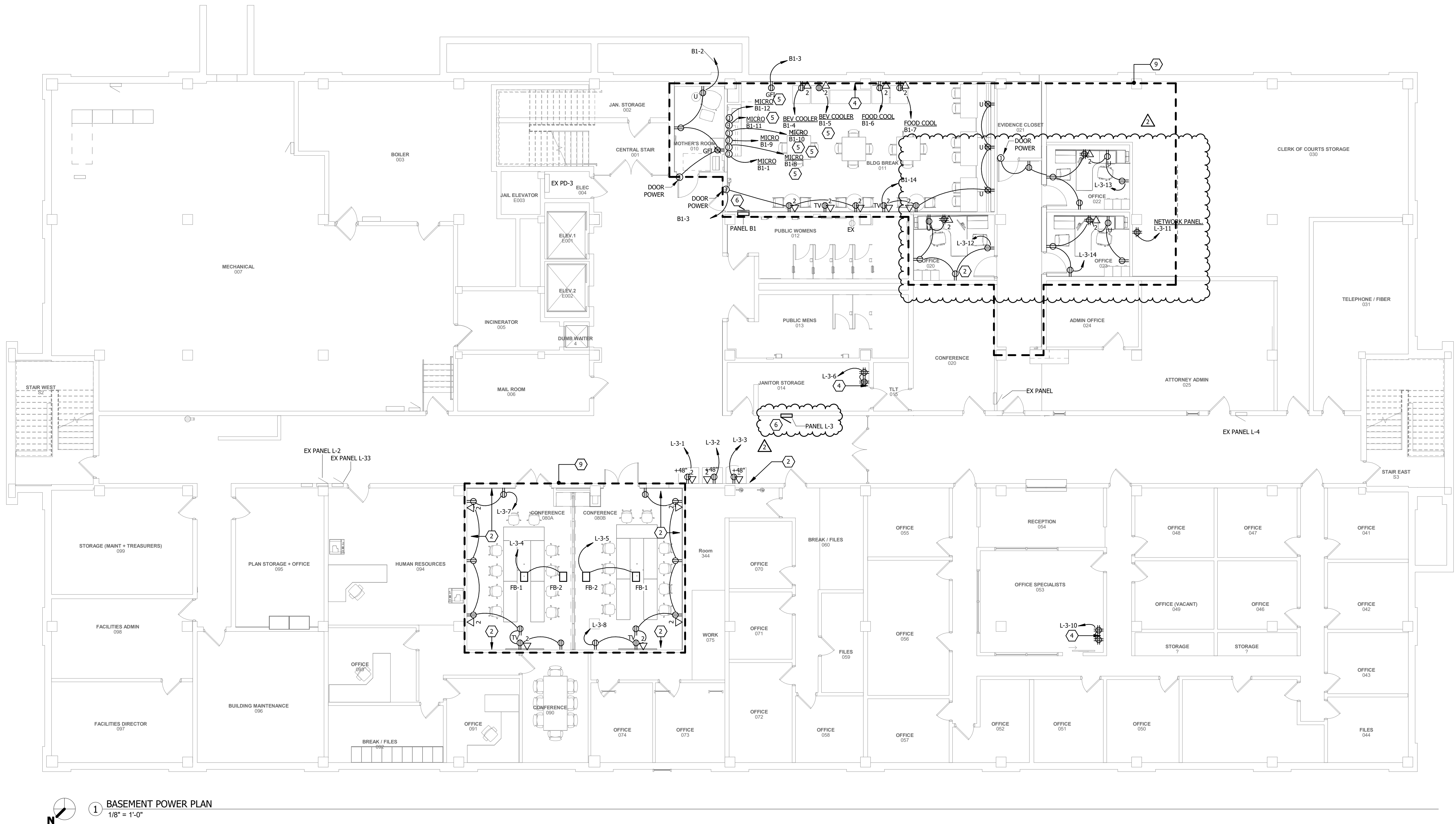
- (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)
- REMOVE ALL LIGHTING, RECEPTACLES AND OTHER ELECTRICAL DEVICES UNLESS NOTED OTHERWISE OR NECESSARY FOR THE OPERATION OF DEVICES OUTSIDE THE SCOPE OF REMODELING. REMOVE ASSOCIATED CONDUCTORS AND RACEWAY COMPLETELY.
 - DASHED LINES ARE INDICATING RENOVATION AREA. AREAS OUTSIDE OF DASH LINES ARE TO REMAIN EXISTING UNLESS OTHERWISE INDICATED OR REQUIRED TO SERVE DEVICES LOCATED IN RENOVATION AREA.
 - REMOVE ALL WALL DEVICES INCLUDING THOSE INDICATED AND ASSOCIATED CONDUCTORS AND RACEWAY.
 - LIGHTING AND CONTROLS IN THIS AREA TO REMAIN. REMOVE AND REINSTALL LIGHTING AS REQUIRED TO ACCOMMODATE ARCHITECTURAL AND MECHANICAL WORK.
 - REMOVE ALL LIGHTING AND CONTROLS IN THIS AREA. REFER TO LIGHTING PLAN FOR PLAN FOR NEW LIGHTING CONTROLS AND DEMO CONTROLS IF REQUIRED.
 - ELECTRICAL PANEL SHALL BE REMOVED AND CIRCUITS TO REMAIN SHALL BE INTERCEPTED, SPLICED AND REFEED TO NEW PANEL LOCATION. REFER TO ELECTRICAL PLANS FOR NEW LOCATION OF PANEL. CIRCUIT SPLICING SHALL BE AS FOLLOWS:
 - PANEL B1 CIRCUITS FED TO NEW PANEL B1 LOCATION
 - PANEL L5 AND L6 CIRCUITS SHALL BE FED TO NEW PANEL L5 LOCATION
 - PANEL L7 AND L8 CIRCUITS SHALL BE FED TO NEW PANEL L8 LOCATION
 - PANEL L18 CIRCUITS SHALL BE FED TO NEW PANEL L18
 - PANEL L19 CIRCUITS SHALL BE FED TO NEW PANEL L19
 - REMOVE EXISTING DEVICE AND ASSOCIATED CONDUCTORS COMPLETELY. EXISTING CONDUIT AND BACKBOX MAY BE REUSED WHERE IN GOOD CONDITION AND MEETS CURRENT CODES. PULL NEW WIRE AND REGROUP RECEPTACLES AS INDICATED.
 - REMOVE WALL DEVICE AND ASSOCIATED CONDUCTORS AND RACEWAY COMPLETELY. DEVICES REMOVED IN EXISTING BLOCK WALL SHALL BE PROVIDED WITH BLANK COVERPLATE.
 - ELECTRICAL CONTRACTOR SHALL REMOVE ALL CONDUCTORS SERVING IN-FLOOR RACEWAY/FLOORBOARDS AND EXISTING FLOOR BOXES COMPLETELY. IN-FLOOR RACEWAY AND ASSOCIATED CONDUIT MAY BE ABANDONED COMPLETELY WHERE IT DOES NOT CONFLICT WITH NEW CONSTRUCTION. FLOORBOARDS SHALL BE PATCHED COMPLETELY. COORDINATE WITH GENERAL CONTRACTOR.
 - ELECTRICAL CONTRACTOR SHALL REMOVE POWER POLE AND ALL ASSOCIATED CONDUCTORS AND RACEWAY COMPLETELY.
 - NO WORK IN RESTROOMS UNDER BASE BID. RESTROOMS WORK UNDER ALTERNATE BID #1 ONLY.
 - CONTRACTOR SHALL SALVAGE AND SAFELY STORE EXISTING 2" X 4" FIXTURES WHERE FIXTURES ARE DEMED IN GOOD CONDITION AND REINSTALL THEM IN NEW LOCATIONS SHOWN ON THE LIGHTING PLAN AND TAGGED FOR. COORDINATE QUANTITY OF FIXTURES TO SALVAGE PRIOR TO CONSTRUCTION. CLEAN FIXTURES PRIOR TO REINSTALLATION.
 - ELECTRICAL PANEL SHALL BE REMOVED AND CIRCUITS TO REMAIN SHALL BE INTERCEPTED, SPLICED AND REFEED TO NEW PANEL IN SAME LOCATION.



2 EXISTING PANEL L18 CIRCUITS
1/4" = 1'-0"



3 EXISTING PANEL L19 CIRCUITS
No Scale



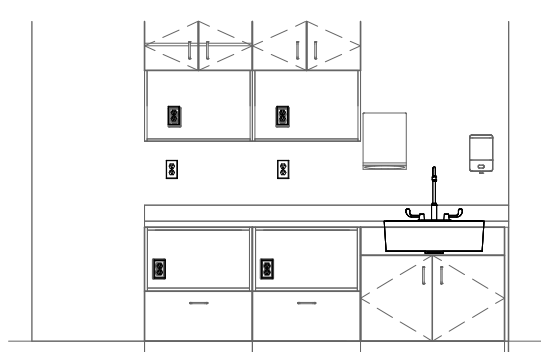
1 BASEMENT POWER PLAN
1/8" = 1'-0"

GENERAL NOTES:

- REFER TO G SERIES PLANS IN ARCHITECTURAL DRAWINGS SET REGARDING ALTERNATES ON THE PROJECT.
- REFER TO G SERIES PLANS IN ARCHITECTURAL DRAWING SET FOR SPECIFIC PHASING REQUIREMENTS.
- ALL DISCONNECTS ON MECHANICAL EQUIPMENT SHALL BE MOUNTED ON STRUCTURE TO ALLOW REMOVAL OF THE EQUIPMENT FOR MAINTENANCE WITH A MINIMUM OF WIRING WORK. VERIFY NEC CLEARANCE REQUIREMENTS ARE MET PRIOR TO ROUGH-IN.
- MAINTAIN SERVICE CLEARANCE AROUND ALL MECHANICAL & ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING OR CONDUIT IN CLEARANCE SPACE.
- SURFACE RACEWAY SHALL NOT BE USED IN ANY FINISHED AREAS WITHOUT PRIOR APPROVAL FROM THE ENGINEER. APPROVED SPACES FOR SURFACE MOUNT EMT CONDUIT IS INDICATED ON PLANS.
- ALL RECEPTACLE CIRCUITS SHALL HAVE DEDICATED NEUTRALS.
- INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE SIDES OF SAME WALL ARE WITHIN 6" OF EACH OTHER.
- PROVIDE CONDUIT SLEEVES WITH INSULATED BUSHINGS SERVING ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% FILL.
- PRIOR TO ROUGH-IN, COORDINATE ALL WALL DEVICES WITH FINAL CASEWORK ELEVATIONS AND OTHER TRADES. CONFLICTS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.
- ALL FLOOR BOXES SHALL HAVE THEIR EXACT ROUGH-IN LOCATION DETERMINED BY DESIGN TEAM THROUGH DIMENSIONED DRAWINGS SIGNED BY OWNER PRIOR TO ROUGH-IN. LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY.
- JUNCTION BOXES IN CONFERENCE ROOMS SHALL BE CONNECTED VIA 1-3/4" CONDUIT. JUNCTION BOX IN MIDDLE OF ROOM SHALL BE MOUNTED AT THE CEILING FOR A PROJECTOR. JUNCTION BOX AT WALL SHALL BE MOUNTED AT THE SAME HEIGHT AS RECEPTACLES.
- PROVIDE AN ADDITIONAL 20A-1P BREAKER IN LOCAL PANEL FOR CONNECTION TO FIRE SMOKE DAMPERS (FSD). SEE HVAC PLANS FOR EXACT LOCATIONS. CLEARLY INDICATE ON AS-BUILT DRAWINGS.
- REFER TO T-SHEETS FOR ADDITIONAL ROUGH-IN INFORMATION. ALL AUDIO INPUTS SHALL BE ROUGHED IN ADJACENT TO RECEPTACLES SHOWN ON THIS PLAN UNLESS NOTED OTHERWISE.
- PROVIDE ALL NEW ELECTRICAL DEVICES AND FACEPLATES FOR EXISTING (EX) DEVICES SHOWN.
- REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR SPECIFIC DEVICE ROUGH-IN AND PLACEMENT. ANY DEVIATIONS FROM THE ARCHITECTURAL ELEVATIONS AND RCP'S SHALL BE REVIEWED AND APPROVED BY THE DESIGN TEAM PRIOR TO ROUGH-IN. IF A DEVICE IS REQUIRED PER SPECIFICATION, REQUIRED FOR OPERATION, OR IS DIFFERENT IN CONFIGURATION THAN SHOWN ON ELEVATIONS AND RCP'S, CLARIFICATION AND DIRECTION MUST BE GIVEN BY THE DESIGN TEAM BEFORE ROUGH-IN. DEVIATIONS OR ADDITIONAL DEVICES NOT APPROVED PRIOR TO INSTALLATION SHALL BE CORRECTED AT CONTRACTORS EXPENSE. THIS INCLUDES BUT IS NOT LIMITED TO THERMOSTATS, CONTROL SYSTEM SENSORS, ELECTRICAL DEVICES, SWITCHES, DIMMERS, TECHNOLOGY DEVICES, A/V DEVICES, SPEAKERS, FIRE ALARM DEVICES, ETC.
- PRIOR TO ROUGH-IN, COORDINATE EXACT MONITOR ELECTRICAL DEVICE HEIGHTS AND LOCATION WITH THE OWNER'S DESIRED MOUNTING LOCATION HEIGHT AND THE OWNER PROVIDED MOUNTING BRACKET. DEVICES AND CABLES SHALL BE CONCEALED AND IN AN ORDERLY FASHION.
- ELECTRICAL CONTRACTOR SHALL CUT AND PATCH DEVICES/PANELS INSTALLED IN EXISTING WALLS UNLESS OTHERWISE NOTED. COORDINATE PATCHING WITH GENERAL CONTRACTOR.
- ELECTRICAL POWER OUTAGES, IF REQUIRED, SHOULD BE STRATEGICALLY MINIMIZED AND SCHEDULED CLOSELY WITH OWNER. CHANGEOVERS COULD BE REQUIRED TO OCCUR AT ANY HOUR. NOTE: AREAS AFFECTED OUTSIDE RENOVATION AREA SHALL BE CLEARLY INDICATED TO OWNER PRIOR TO ANY SHUTDOWN.
- ELECTRICAL CONTRACTOR SHALL SCHEDULE AN ONSITE COORDINATION MEETING OF DEVICES SERVING POWERED FURNITURE WITH DESIGN TEAM PRIOR TO ROUGH-IN.

REFERENCED NOTES:

- (NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)
- NOT USED.
 - ELECTRICAL CONTRACTOR SHALL CUT AND PATCH DEVICES INTO EXISTING WALL. COORDINATE WITH GENERAL CONTRACTOR.
 - FLOORBOX LOCATIONS SHALL BE COORDINATED WITH EXISTING FLOOR STRUCTURE PRIOR TO ROUGH-IN.
 - ALL DEVICES AND EQUIPMENT SERVING VENDING EQUIPMENT ON THIS WALL SHALL BE SURFACE MOUNTED AND FED WITH SURFACE MOUNTED EMT CONDUIT.
 - COORDINATE MICROWAVE RECEPTACLE LOCATION WITH ARCHITECTURAL ELEVATIONS AND FINAL CASEWORK PRIOR TO ROUGH-IN.
 - CUT AND PATCH WALL TO ACCOMMODATE LARGER NEW PANEL.
 - COILING DOOR MANUFACTURER SHALL FURNISH CONTROLS FOR OVERHEAD DOOR. ELECTRICAL CONTRACTOR SHALL INSTALL. COORDINATE ROUGH-IN LOCATION AND ANY ADDITIONAL REQUIREMENTS WITH COILING DOOR MANUFACTURER.
 - NO WORK IN RESTROOMS UNDER BASE BID. RESTROOMS WORK UNDER ALTERNATE BID #1 ONLY.
 - DASHED LINES ARE INDICATING RENOVATION AREA. AREAS OUTSIDE OF DASH LINES ARE TO REMAIN EXISTING UNLESS OTHERWISE INDICATED OR REQUIRED TO SERVE DEVICES LOCATED IN RENOVATION AREA.



2 BLDG BREAK 011 WEST ELEVATION
1/4" = 1'-0"



EXISTING PANEL L3 CIRCUITS TO BE REFEED FROM NEW PANEL L3 LOCATION.

4 EXISTING PANEL L3 CIRCUITS
No Scale



EXISTING PANEL B1 CIRCUITS TO BE REFEED FROM NEW PANEL B1 LOCATION. NOTE: PROVIDE TWO (2) SEPARATE BREAKERS IN LIEU OF TANDEM BREAKER.

3 EXISTING PANEL B1 CIRCUITS
No Scale

Revisions:	Description	Date	No.
ADD #1		1/19/2024	1
ADD #2		01/25/2024	2

OWNER SIGN-OFF:

DATE NAME





BRANCH PANEL B1

Location: BLDG BREAK 011

Volts: 120/208 Wye

S.C.C.R. Rating: 10,000 A

Supply From: MLO

Phases: 3

Main Type: MLO

Mounting: Recessed

Wires: 4

Mains Rating: 100A

MCB Rating: N/A

Enclosure: Type 1

SPD: NONE

Notes: CONTRACTOR SHALL FURNISH AND INSTALL BREAKERS FOR ALL NEW AND EXISTING LOADS BEING REPED IN ADDITION TO NEW BREAKERS INDICATED BELOW.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT		
B1-1	MICRO	G	20 A	1	0	540			1	20 A	N	MOTHERS RM RECEPS	B1-2	
B1-3	BLDG BREAK RECEPS	N	20 A	1			540	180		1	20 A	G	BEV COOLER	B1-4
B1-5	BEV COOLER	G	20 A	1				180	180	1	20 A	G	FOOD COOL	B1-6
B1-7	FOOD COOL	G	20 A	1	180	0				1	20 A	G	MICRO	B1-8
B1-9	MICRO	G	20 A	1			0	0		1	20 A	G	MICRO	B1-10
B1-11	MICRO	G	20 A	1				0	0	1	20 A	G	MICRO	B1-12
B1-13	Lighting	N	20 A	1	17	900				1	20 A	N	BLDG BREAK RECEPS	B1-14
B1-15	SPARE	N	20 A	1			0							B1-16
B1-17	SPARE	N	20 A	1				0						B1-18
B1-19	SPARE	N	20 A	1	0									B1-20
B1-21	SPARE	N	20 A	1			0							B1-22
B1-23														B1-24
B1-25	EXISTING	--	1	--	--					1	--	EXISTING		B1-26
B1-27	EXISTING	--	1			--	--			1	--	EXISTING		B1-28
B1-29	EXISTING	--	1				--	--		1	--	EXISTING		B1-30
B1-31	EXISTING	--	1	--	--					1	--	EXISTING		B1-32
B1-33	EXISTING	--	1			--	--			1	--	EXISTING		B1-34
B1-35	EXISTING	--	1				--	--		1	--	EXISTING		B1-36
B1-37	EXISTING	--	1	--	--					1	--	EXISTING		B1-38
B1-39	EXISTING	--	1			--	--			1	--	EXISTING		B1-40
B1-41	EXISTING	--	1				--	--		1	--	EXISTING		B1-42
B1-43	EXISTING	--	1	--	--					1	--	EXISTING		B1-44
B1-45	EXISTING	--	1			--	--			1	--	EXISTING		B1-46
B1-47	EXISTING	--	1				--	--		1	--	EXISTING		B1-48
B1-49	EXISTING	--	1	--	--					1	--	EXISTING		B1-50
B1-51	EXISTING	--	1			--	--			1	--	EXISTING		B1-52
B1-53	EXISTING	--	1				--	--		1	--	EXISTING		B1-54
Total Load:					1637 VA	720 VA	360 VA							
Total Amps:					14 A	6 A	3 A							

Type Legend:

N=NORMAL G=GFI M=MOTORIZED E=EXISTING ST=SHUNT TRIP A=ARC FAULT H=HANDLE LOCK

Load Classification

Connected Load

Demand Factor

Estimated Demand

Panel Totals

Power

2700 VA

100.00%

2700 VA

Total Conn. Load:

2.7 kVA

Lighting

17 VA

125.00%

21 VA

Total Est. Demand:

2.7 kVA

Total Conn. Current:

8 A

Total Est. Demand Current:

8 A

Notes:

BRANCH L-5

Location: TREAS. WORK STATIONS...

Volts: 120/208 Wye

S.C.C.R. Rating: 10,000A

Supply From: MLO

Phases: 3

Main Type: MLO

Mounting: Recessed

Wires: 4

Mains Rating: 100A

MCB Rating: N/A

Enclosure: Type 1

SPD: NONE

Notes: CONTRACTOR SHALL FURNISH AND INSTALL BREAKERS FOR ALL NEW AND EXISTING LOADS BEING REPED IN ADDITION TO NEW BREAKERS INDICATED BELOW.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT		
L-5-1	ACCOUNTING RECEPS	N	20 A	1	900	0			1	20 A	N	FLOORBOXES	L-5-2	
L-5-3	FLOORBOXES	N	20 A	1		0	0			1	20 A	N	FLOORBOXES	L-5-4
L-5-5									360	1	20 A	N	STORAGE/IT RECEPS	L-5-6
L-5-7	TREAS WORK STATION...	N	20 A	1	1080	720				1	20 A	N	WORK COUNTER RECEPS	L-5-8
L-5-9	MFP	N	20 A	1		180	720			1	20 A	N	COUNTY TREASURER...	L-5-10
L-5-11	TAX SUPERVISOR	N	20 A	1			720	720		1	20 A	N	TAX CP MANAGER...	L-5-12
L-5-13	TREAS WORK STATION...	N	20 A	1	1260	1080				1	20 A	N	TREAS WORK STATION...	L-5-14
L-5-15	WORK ROOM RECEPS	N	20 A	1		1080	900			1	20 A	N	FINANCIAL MANAGER...	L-5-16
L-5-17	KITCHENETTE RECEPS	N	20 A	1			540	180		1	20 A	G	REFRIG.	L-5-18
L-5-19	KITCHENETTE A.C RECEP	N	20 A	1	180	180				1	20 A	N	KITCHENETTE A.C RECEP	L-5-20
L-5-21	MICRO	G	20 A	1		180								L-5-22
L-5-23														L-5-24
L-5-25	TREAS WORK STATION...	N	20 A	1	720	1080				1	20 A	N	TREAS WORK STATION...	L-5-26
L-5-27								84		1	20 A	N	Lighting	L-5-28
L-5-29									1080	1	20 A	N	TREAS WORK STATION...	L-5-30
L-5-31	ACCOUNTING WORK...	N	20 A	1	900									L-5-32
L-5-33	SPARE	N	20 A	1		0								L-5-34
L-5-35	SPARE	N	20 A	1			0							L-5-36
L-5-37	SPARE	N	20 A	1	0									L-5-38
L-5-39	SPARE	N	20 A	1		0								L-5-40
L-5-41														L-5-42
L-5-43														L-5-44
L-5-45														L-5-46
L-5-47														L-5-48
L-5-49	EXISTING	--	1	--	--					1	--	EXISTING		L-5-50
L-5-51	EXISTING	--	1			--	--			1	--	EXISTING		L-5-52
L-5-53	EXISTING	--	1				--	--		1	--	EXISTING		L-5-54
L-5-55	EXISTING	--	1	--	--					1	--	EXISTING		L-5-56
L-5-57	EXISTING	--	1			--	--			1	--	EXISTING		L-5-58
L-5-59	EXISTING	--	1				--	--		1	--	EXISTING		L-5-60
L-5-61	EXISTING	--	1	--	--					1	--	EXISTING		L-5-62
L-5-63	EXISTING	--	1			--	--			1	--	EXISTING		L-5-64
L-5-65	EXISTING	--	1				--	--		1	--	EXISTING		L-5-66
L-5-67	EXISTING	--	1	--	--					1	--	EXISTING		L-5-68
L-5-69	EXISTING	--	1			--	--			1	--	EXISTING		L-5-70
L-5-71	EXISTING	--	1				--	--		1	--	EXISTING		L-5-72
Total Load:					8100 VA	3144 VA	3600 VA							
Total Amps:					66 A	26 A	31 A							

Type Legend:

N=NORMAL G=GFI M=MOTORIZED E=EXISTING ST=SHUNT TRIP A=ARC FAULT H=HANDLE LOCK

Load Classification

Connected Load

Demand Factor

Estimated Demand

Panel Totals

Other

0 VA

0.00%

0 VA

Total Conn. Load:

14.8 kVA

Power

14760 VA

100.00%

14760 VA

Total Est. Demand:

14.9 kVA

Lighting

84 VA

125.00%

105 VA

Total Conn. Current:

41 A

Total Est. Demand Current:

41 A

Notes:

BRANCH PANEL L-18

Location: ELECTIONS WORK 230

Volts: 120/208 Wye

S.C.C.R. Rating: 10,000 A

Supply From: MLO

Phases: 3

Main Type: MLO

Mounting: Recessed

Wires: 4

Mains Rating: 100A

MCB Rating: N/A

Enclosure: Type 1

SPD: INTERNAL

Notes: CONTRACTOR SHALL FURNISH AND INSTALL BREAKERS FOR ALL NEW AND EXISTING LOADS BEING REPED IN ADDITION TO NEW BREAKERS INDICATED BELOW.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT	
L-18-1	BALLOT/STORAGE...	N	20 A	1	900	0			1	20 A	N	Lighting	L-18-2
L-18-3	ELECTIONS WORK...	N	20 A	1		720	720		1	20 A	N	ELECTIONS WORK...	L-18-4
L-18-5	ELECTIONS WORK...	N	20 A	1			720	900	1	20 A	N	ELECTIONS WORK...	L-18-6
L-18-7	ELEC OFFICE RECEPS	N	20 A	1	900	900			1	20 A	N	AUD OFFICE RECEPS	L-18-8
L-18-9	TIM OFFICE RECEPS	N	20 A	1		900	360		1	20 A	N	ELEC KIT STORAGE...	L-18-10
L-18-11	REFRIG.	G	20 A	1			180	180	1	20 A	N	KITCHENETTE A.C RECEP	L-18-12
L-18-13	KITCHENETTE A.C RECEP	N	20 A	1	180	180			1	20 A	G	MICRO	L-18-14
L-18-15	PLAT ROOM RECEPS	N	20 A	1		1080	180		1	20 A	N	PLOTTER	L-18-16
L-18-17	PLAT ROOM RECEPS	N	20 A	1			360	0	1	20 A	N	COILING DOOR	L-18-18
L-18-19	SPARE	N	20 A	1	0	0			1	20 A	N	SPARE	L-18-20
L-18-21	SPARE	N	20 A	1		0	1800		1	15 A	N	CHARG CAB	L-18-22
L-18-23	SPARE	N	20 A	1			0	1800	1	20 A	N	CHARG CAB	L-18-24
L-18-25	EXISTING	--	1	--	--				1	--	EXISTING		L-18-26
L-18-27	EXISTING	--	1			--	--		1	--	EXISTING		L-18-28
L-18-29	EXISTING	--	1				--	--	1	--	EXISTING		L-18-30
L-18-31	EXISTING	--	1	--	--				1	--	EXISTING		L-18-32
L-18-33	EXISTING	--	1			--	--		1	--	EXISTING		L-18-34
L-18-35	EXISTING	--	1				--	--	1	--	EXISTING		L-18-36
L-18-37	EXISTING	--	1	--	--				1	--	EXISTING		L-18-38
L-18-39	EXISTING	--	1			--	--		1	--	EXISTING		L-18-40
L-18-41	EXISTING	--	1			--	--		1	--	EXISTING		L-18-42
L-18-43	EXISTING	--	1	--	--				1	--	EXISTING		L-18-44
L-18-45	EXISTING	--	1			--	--		1	--	EXISTING		L-18-46
L-18-47	EXISTING	--	1			--	--		1	--	EXISTING		L-18-48
L-18-49	EXISTING	--	1	--	--				1	--	EXISTING		L-18-50
L-18-51	EXISTING	--	1			--	--		1	--	EXISTING		L-18-52
L-18-53	EXISTING	--	1				--	--	1	--	EXISTING		L-18-54
L-18-55	CHARG CAB	N	20 A	1	1800	1800			1	20 A	N	CHARG CAB	L-18-56
L-18-57	CHARG CAB	N	20 A	1		1800	1800		1	20 A	N	CHARG CAB	L-18-58
L-18-59	CHARG CAB	N	20 A	1			1800	1800	1	20 A	N	CHARG CAB	L-18-60
L-18-61	CHARG CAB	N	20 A	1	1800	1800			1	20 A	N	CHARG CAB	L-18-62
L-18-63	CHARG CAB	N	20 A	1		1800	1800		1	20 A	N	CHARG CAB	L-18-64
L-18-65	CHARG CAB	N	20 A	1			1800	1800	1	20 A	N	CHARG CAB	L-18-66
L-18-67													L-18-68
L-18-69													L-18-70
L-18-71													L-18-72
Total Load:					10260 VA	12960 VA	11340 VA						
Total Amps:					86 A	109 A	96 A						

Type Legend:

N=NORMAL G=GFI M=MOTORIZED E=EXISTING ST=SHUNT TRIP A=ARC FAULT H=HANDLE LOCK

Load Classification

Connected Load

Demand Factor

Estimated Demand

Panel Totals

Power

34560 VA

100.00%

34560 VA

Total Conn. Load:

34.6 kVA

Lighting

0 VA

0.00%

0 VA

Total Est. Demand:

34.6 kVA

Total Conn. Current:

96 A

Total Est. Demand Current:

96 A

Notes:

BRANCH PANEL L-19

Location: BREAK ROOM 241

Volts: 120/208 Wye

S.C.C.R. Rating: 10,000A

Supply From: MLO

Phases: 3

Main Type: MLO

Mounting: Recessed

Wires: 4

Mains Rating: 100A

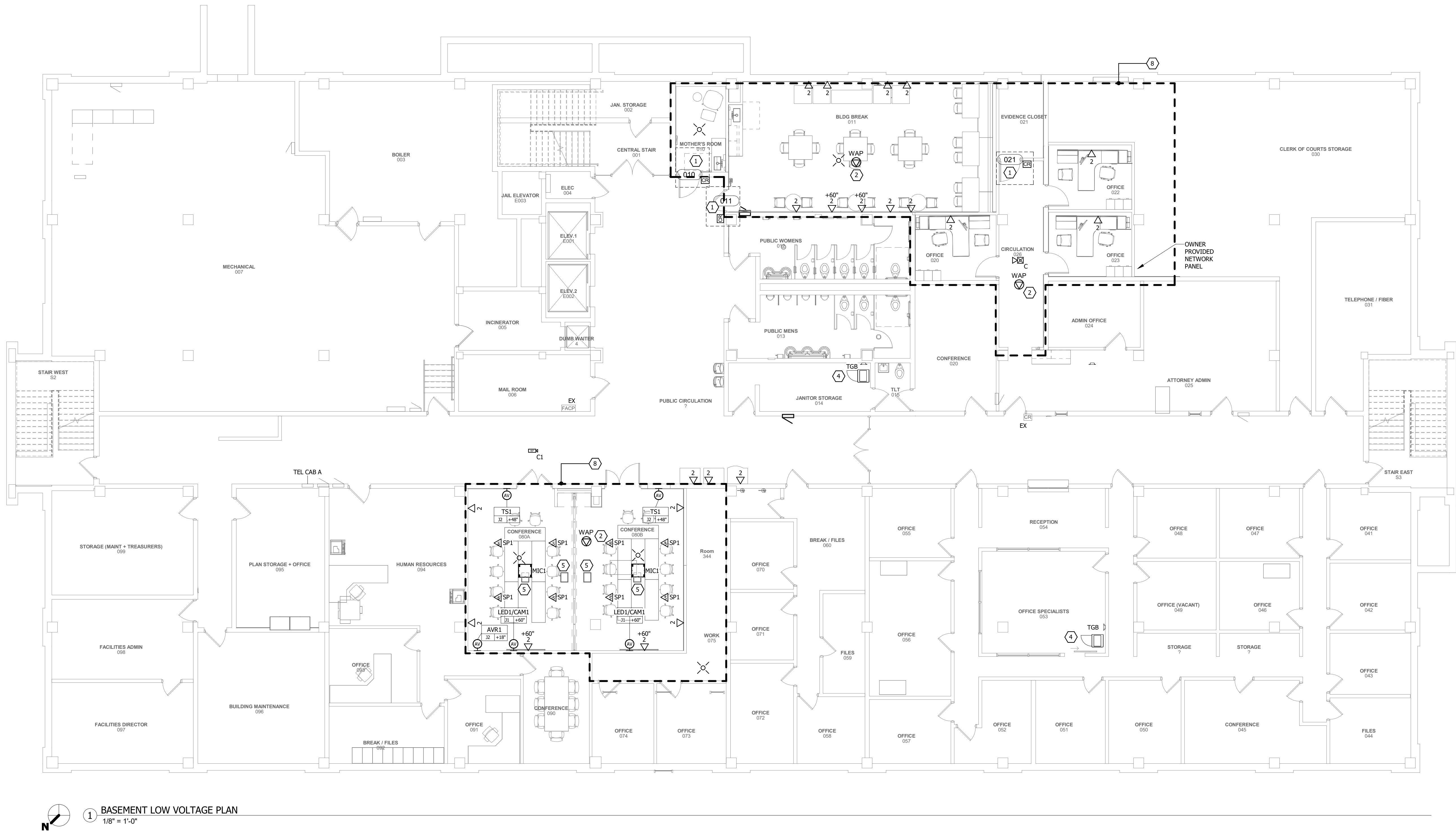
MCB Rating: N/A

Enclosure: Type 1

SPD: NONE

Notes: CONTRACTOR SHALL FURNISH AND INSTALL BREAKERS FOR ALL NEW AND EXISTING LOADS BEING REPED IN ADDITION TO NEW BREAKERS INDICATED BELOW.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT	
L-19-1	Lighting	N	20 A	1	360	540			1	20 A	N	CONF ROOM A.C RECEPS	L-19-2
L-19-3	CONF ROOM RECEPS	N	20 A	1		1440	180		1	20 A	N	FB-4	L-19-4
L-19-5	JENN OFFICE RECEPS	N	20 A	1			900	720	1	20 A	N	A/P -A/R WORK RECEPS	L-19-6</



1 BASEMENT LOW VOLTAGE PLAN
1/8" = 1'-0"

GENERAL NOTES:

- REFER TO G SERIES PLANS IN ARCHITECTURAL DRAWINGS SET REGARDING ALTERNATES ON THE PROJECT.
- REFER TO G SERIES PLANS IN ARCHITECTURAL DRAWING SET FOR SPECIFIC PHASING REQUIREMENTS.
- SURFACE RACEWAY IS NOT TO BE USED IN ANY FINISHED AREAS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.
- PROVIDE CONDUIT SLEEVES WITH INSULATED BUSHINGS SERVING ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% PIPE FILL.
- INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE SIDES OF SAME WALL ARE WITHIN 6" OF EACH OTHER.
- COORDINATE ELECTRICAL REQUIREMENTS WITH DOOR CONTRACTOR PRIOR TO INSTALLATION.
- COORDINATE ALL DEVICES WITH ARCHITECTURAL PLANS, CASEWORK SUBMITTALS, & OWNER PROVIDED EQUIPMENT.
- ALL DEVICES CALLED OUT TO BE INSTALLED AT NON-STANDARD HEIGHTS SHALL BE VERIFIED WITH DESIGN TEAM PRIOR TO ROUGH-IN.
- ALL NEW WORK INDICATED IN EXISTING WALLS SHALL BE INSTALLED WITH CONCEALED WIRING AND FLUSH-MOUNTED DEVICES. CUTTING AND PATCHING SHALL BE BY GENERAL CONTRACTOR.
- FIRE ALARM INITIATING DEVICES SHALL NOT BE INSTALLED WITHIN 36 INCHES HORIZONTALLY FROM FORCED AIR HVAC DIFFUSERS OR THE END OF CEILING FAN BLADES.
- PRIOR TO ROUGH-IN, COORDINATE EXACT MONITOR ELECTRICAL DEVICE HEIGHTS AND LOCATION WITH THE OWNER'S DESIRED MOUNTING LOCATION HEIGHT AND THE OWNER PROVIDED MOUNTING BRACKET. DEVICES AND CABLES SHALL BE CONCEALED AND IN AN ORDERLY MANNER.

FIELD VERIFY EXISTING BACKBONE COPPER/FIBER ROUTING TO SECOND FLOOR MAIN IT CLOSET LOCATED IN IT OPERATIONS SERVER 2/0 PER CAMPUS TECHNOLOGY RISES ON SHEET T301. FURNISH AND INSTALL TWO (2) 2" E-Z PATHS AT EACH FIRE RATED WALL/CEILING.

REFERENCED NOTES:

- ACCESS CONTROL LOCATION. REFER TO DETAILS SHEETS AND ARCHITECTURAL SPECIFICATIONS FOR FURTHER INFORMATION ON DOOR TYPE, CABLING, AND ROUGH-IN REQUIREMENTS.
- LOCATION OF OWNER FURNISHED, CONTRACTOR INSTALLED, WIRELESS ACCESS POINT (WAP). STRUCTURED CABLING CONTRACTOR SHALL PROVIDE TWO (2) CATEGORY 6/6A CABLES TERMINATED ABOVE CEILING TO A BISCUIT JACK. PROVIDE FINAL PATCH CABLES FOR OWNER TO PATCH TO FIELD DEVICE. ALLOW FOR A UPT SERVICE LOOP AT ACCESSIBLE CEILINGS. EXPOSED LOCATIONS SHALL BE CONCEALED AND SERVICE LOOP SHALL BE AT THE CLOSET LOCATIONS.
- PROVIDE AN EMERGENCY DURESS BUTTON EQUAL TO STTS UNIVERSAL BUTTON MODEL #UB-2 WITH UB-6LENS AND KIT-ET1047 BACKLIGHT. PROVIDE WITH STT-6518. COORDINATE INSTALLATION PRIOR TO ROUGH-IN WITH DESIGN TEAM. COORDINATE INTERFACE BETWEEN FIREALARM SYSTEM FOR MONITORING AND DIALING OF 911.
- OWNER FURNISHED CONTRACTOR INSTALLED WALL RACK.
- CONTRACTOR SHALL PROVIDE AC GRADE FIRE RETARDANT PLYWOOD PAINTED WHITE WITH FIRE RETARDANT PAINT.
- ALL CABLE SHALL HAVE A 15' SERVICE LOOP ABOVE RACK.
- CABLE SHALL BE NEATLY MANAGED DOWN THE WALL AND IN RACK FOR TERMINATION.
- STRUCTURED CABLING CONTRACTOR SHALL PROVIDE 6 STRAND SINGLE MODE FIBER BACK TO MDF.
- APPROXIMATE LOCATION OF FLOOR BOX. ARCHITECT SHALL PROVIDE A DIMENSIONED DRAWING ON EXACT LOCATION PRIOR TO ROUGH-IN. SEE FLOOR BOX SCHEDULE ON THE ELECTRICAL SHEETS FOR NETWORK AND AUDIO/VISUAL CONNECTIONS.
- SECURITY CONTRACTOR SHALL PROVIDE CHIEF CMS902 OR EQUIVALENT, 2" X 2" IN-CEILING ENCLOSURE, TO MOUNT MODULAR CAMERA MAIN UNITS. ENCLOSURE SHALL BE CENTRALLY LOCATED WITHIN 96" OF MODULAR CAMERAS. COORDINATE LOCATION WITH OTHER TRADES AND OWNER PRIOR TO ROUGH-IN.
- NO WORK IN RESTROOMS UNDER BASE BID. RESTROOMS WORK UNDER ALTERNATE BID #1 ONLY.
- DASHED LINES ARE INDICATING RENOVATION AREA. AREAS OUTSIDE OF DASH LINES ARE TO REMAIN EXISTING UNLESS OTHERWISE INDICATED OR REQUIRED TO SERVE DEVICES LOCATED IN RENOVATION AREA.

INVISION
ARCHITECTURAL

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CONSULTANT:
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WATERLOO, IOWA 50703
1000 WEST 1ST AVE. SUITE 100
IOWA CITY, IOWA 52242

REVISIONS:	Description	Date	No.
ADD #1		1/19/2024	1

OWNER SIGN-OFF:

DATE NAME

BLACK HAWK COUNTY
COURTHOUSE RENOVATIONS

316 E 5th Street, Waterloo, IA 50703

PROJECT NO:
23109

DATE:
JANUARY 4, 2024
SHEET SET:
BID DOCUMENTS

SHEET NAME:
BASEMENT LOW
VOLTAGE PLAN

SHEET:
T1.01

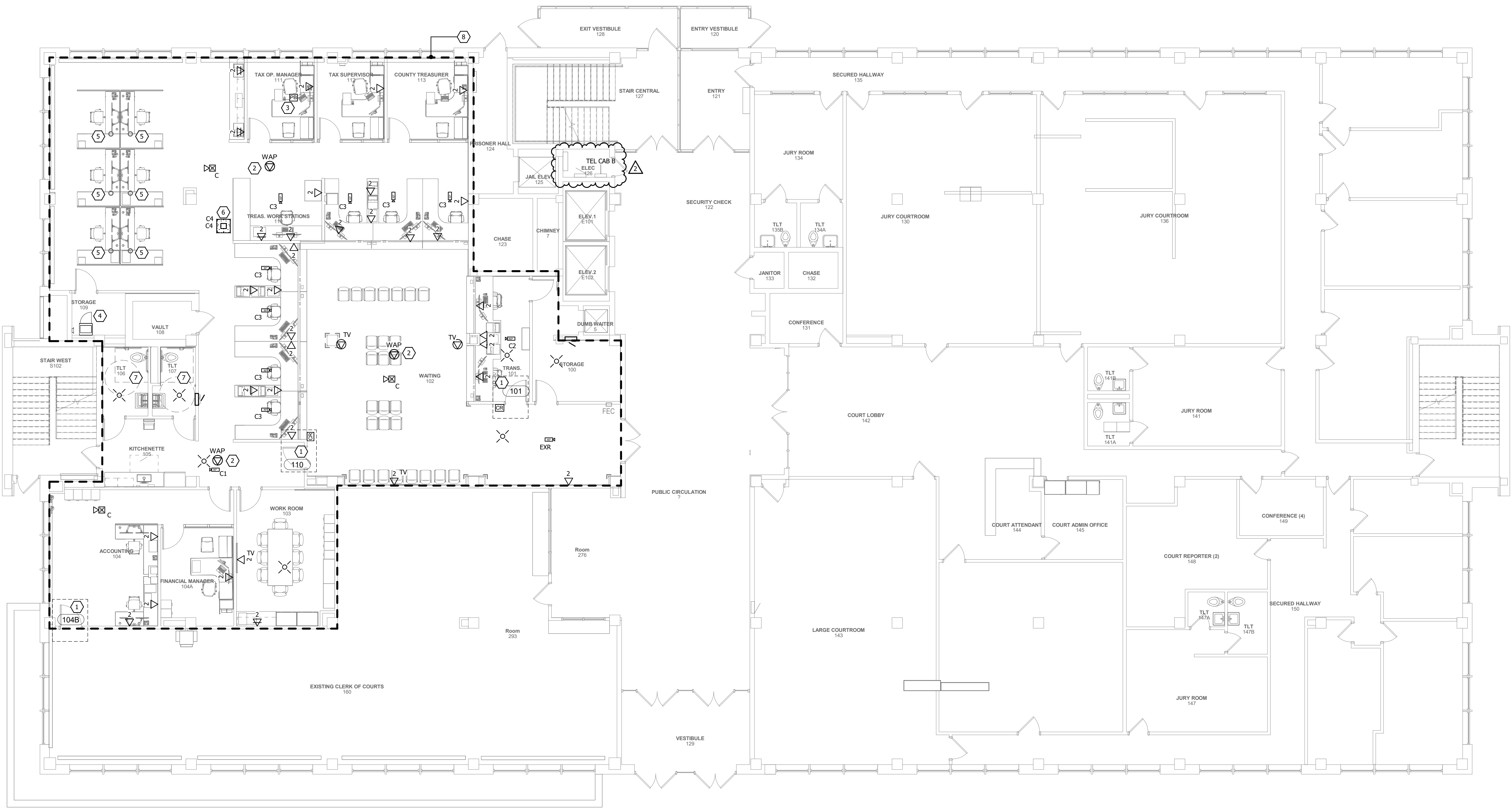
GENERAL NOTES:

- A. REFER TO G SERIES PLANS IN ARCHITECTURAL DRAWINGS SET REGARDING ALTERNATES ON THE PROJECT.
- B. REFER TO G SERIES PLANS IN ARCHITECTURAL DRAWING SET FOR SPECIFIC PHASING REQUIREMENTS.
- C. SURFACE RACEWAY IS NOT TO BE USED IN ANY FINISHED AREAS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.
- D. PROVIDE CONDUIT SLEEVES WITH INSULATED BUSHINGS SERVING ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% PIPE FILL.
- E. INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE SIDES OF SAME WALL ARE WITHIN 6" OF EACH OTHER.
- F. COORDINATE ELECTRICAL REQUIREMENTS WITH DOOR CONTRACTOR PRIOR TO INSTALLATION.
- G. COORDINATE ALL DEVICES WITH ARCHITECTURAL PLANS, CASEWORK SUBMITTALS, & OWNER PROVIDED EQUIPMENT.
- H. ALL DEVICES CALLED OUT TO BE INSTALLED AT NON-STANDARD HEIGHTS SHALL BE VERIFIED WITH DESIGN TEAM PRIOR TO ROUGH-IN.
- I. ALL NEW WORK INDICATED IN EXISTING WALLS SHALL BE INSTALLED WITH CONCEALED WIRING AND FLUSH-MOUNTED DEVICES. CUTTING AND PATCHING SHALL BE BY GENERAL CONTRACTOR.
- J. FIRE ALARM INITIATING DEVICES SHALL NOT BE INSTALLED WITHIN 36 INCHES HORIZONTALLY FROM FORCED AIR HVAC DIFFUSERS OR THE END OF CEILING FAN BLADES.
- K. PRIOR TO ROUGH-IN, COORDINATE EXACT MONITOR ELECTRICAL DEVICE HEIGHTS AND LOCATION WITH THE OWNER'S DESIRED MOUNTING BRACKET. DEVICES AND CABLES SHALL BE CONCEALED AND IN AN ORDERLY FASHION.

L. FIELD VERIFY EXISTING BACKBONE COPPER/FIBER ROUTING TO SECOND FLOOR MAIN IT CLOSET LOCATED IN IT OPERATIONS/SERVER 270 PER CAMPUS TECHNOLOGY RISER ON SHEET TSD1. FURNISH AND INSTALL TWO (2) 2" E-2 PATHS AT EACH FIRE RATED WALL/CEILING.

REFERENCED NOTES:

1. ACCESS CONTROL LOCATION. REFER TO DETAILS SHEETS AND ARCHITECTURAL SPECIFICATIONS FOR FURTHER INFORMATION ON DOOR TYPE, CABLING, AND ROUGH-IN REQUIREMENTS.
2. LOCATION OF OWNER FURNISHED. CONTRACTOR INSTALLED, WIRELESS ACCESS POINT (WAP). STRUCTURED CABLING CONTRACTOR SHALL PROVIDE TWO (2) CATEGORY 6/6A CABLES TERMINATED ABOVE CEILING TO A DISCUT JACK. PROVIDE FINAL PATCH CABLES FOR OWNER TO PATCH TO FIELD DEVICE. ALLOW FOR A 10FT SERVICE LOOP AT ACCESSIBLE CEILINGS. EXPOSED LOCATIONS SHALL BE CONCEALED AND SERVICE LOOP SHALL BE AT THE CLOSET LOCATIONS.
3. PROVIDE AN EMERGENCY DURESS BUTTON EQUAL TO STIS UNIVERSAL BUTTON MODEL #UB-2 WITH UP-2LENS AND KIT-E10-H7 BACKLIGHT. PROVIDE WITH STI-6518. COORDINATE INSTALLATION PRIOR TO ROUGH-IN WITH DESIGN TEAM. COORDINATE INTERFACE BETWEEN FIREALARM SYSTEM FOR MONITORING AND DIALING OF 911.
4. OWNER FURNISHED CONTRACTOR INSTALLED WALL RACK. CONTRACTOR SHALL PROVIDE AC GRADE FIRE RETARDENT PLYWOOD PAINTED WHITE WITH FIRE RETARDANT PAINT. ALL CABLE SHALL HAVE A 1' SERVICE LOOP ABOVE RACK. CABLE SHALL BE NEATLY MANAGED DOWN THE WALL AND IN RACK FOR TERMINATION. STRUCTURED CABLING CONTRACTOR SHALL PROVIDE 6 STRAND SINGLE MODE FIBER BACK TO MDF.
5. APPROXIMATE LOCATION OF FLOOR BOX. ARCHITECT SHALL PROVIDE A DIMENSIONED DRAWING ON EXACT LOCATION PRIOR TO ROUGH-IN. SEE FLOOR BOX SCHEDULE ON THE ELECTRICAL SHEETS FOR NETWORK AND AUDIOVISUAL CONNECTIONS.
6. SECURITY CONTRACTOR SHALL PROVIDE CHIEF CM492 OR EQUIVALENT. 2" X 2" IN-CEILING ENCLOSURE TO MOUNT MODULAR CAMERA MAIN UNITS. ENCLOSURE SHALL BE CENTRALLY LOCATED WITHIN 96" OF MODULAR CAMERAS. COORDINATE LOCATION WITH OTHER TRADES AND OWNER PRIOR TO ROUGH-IN.
7. NO WORK IN RESTROOMS UNDER BASE BID. RESTROOMS WORK UNDER ALTERNATE BID #1 ONLY.
8. DASHED LINES ARE INDICATING RENOVATION AREA. AREAS OUTSIDE OF DASH LINES ARE TO REMAIN EXISTING UNLESS OTHERWISE INDICATED OR REQUIRED TO SERVE DEVICES LOCATED IN RENOVATION AREA.



Description	Date	No
ADD #1	1/19/2024	1
ADD #2	01/25/2024	2

DATE	NAME
------	------

316 E 5th Street, Waterloo, IA 50703

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B. REFER TO G SERIES PLANS IN ARCHITECTURAL DRAWINGS SET REGARDING ALTERNATES ON THE PROJECT.

C. REFER TO G SERIES PLANS IN ARCHITECTURAL DRAWING SET FOR CRITICAL PATHS AND SCHEDULING.

D. SURFACE RACKWAY IS NOT TO BE USED IN ANY FINISHED AREAS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.

E. PROVIDE CONDUIT SLEEVES WITH INSULATED BUSINGS SERVING ALL LOW VOLTAGE CABLING. DO NOT EXCEED 40% PIPE FILL.

F. INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE SIDES OF WALL ARE NEARER THAN 18" TO EACH OTHER.

G. COORDINATE ELECTRICAL REQUIREMENTS WITH DOOR CONTRACTOR PRIOR TO INSTALLATION.

H. COORDINATE ALL DEVICES WITH ARCHITECTURAL PLANS, CASEWORK SUBMITTALS, & OWNER PROVIDED EQUIPMENT.

I. ALL DEVICES CALLED OUT TO BE INSTALLED AT NON-STANDARD HEIGHTS SHALL BE VERIFIED WITH DESIGN TEAM PRIOR TO ROUGH-IN.

J. ALL NEW WORK INDICATED IN EXISTING WALLS SHALL BE COORDINATED WITH CONCRETE CONTRACTOR AND REINFORCED CONCRETE. CUTTING AND PATCHING SHALL BE BY GENERAL CONTRACTOR.

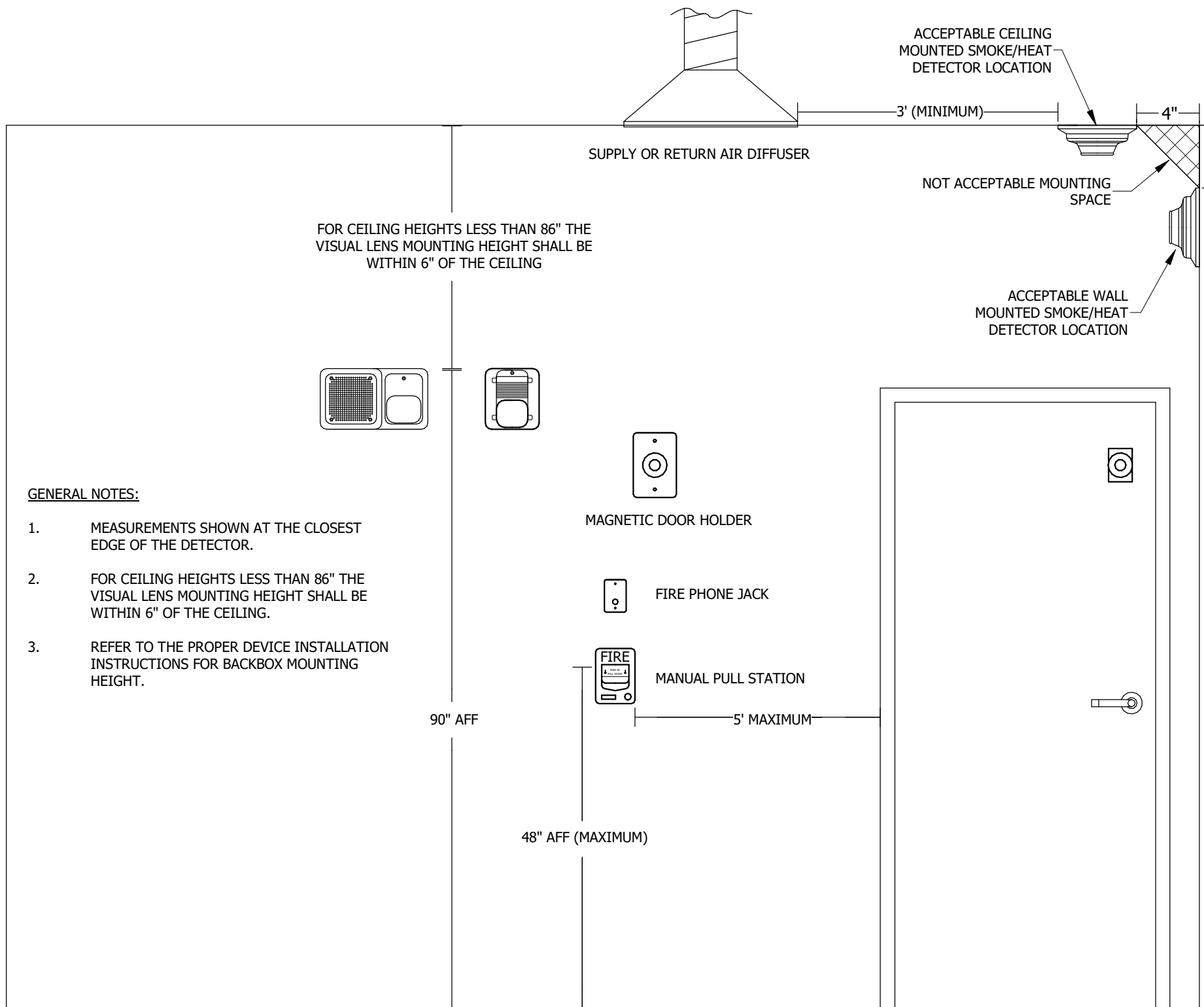
K. FIRE ALARM INITIATING DEVICES SHALL NOT BE INSTALLED MORE THAN 36" HORIZONTALLY FROM FORCED AIR HVAC DIFFUSERS OR THE END OF CEILING FAN COORDINATES.

L. PRIOR TO ROUGH-IN, COORDINATE EXIST MONITOR ELECTRICAL DEVICES WITH CONCRETE CONTRACTOR AND REINFORCED CONCRETE. DETERMINE LOCATION HEIGHT AND OWNER PROVIDED MONITORING DEVICES AND CABLES SHALL BE CONCEALED IN WALLS OR CEILING FAN COORDINATES.

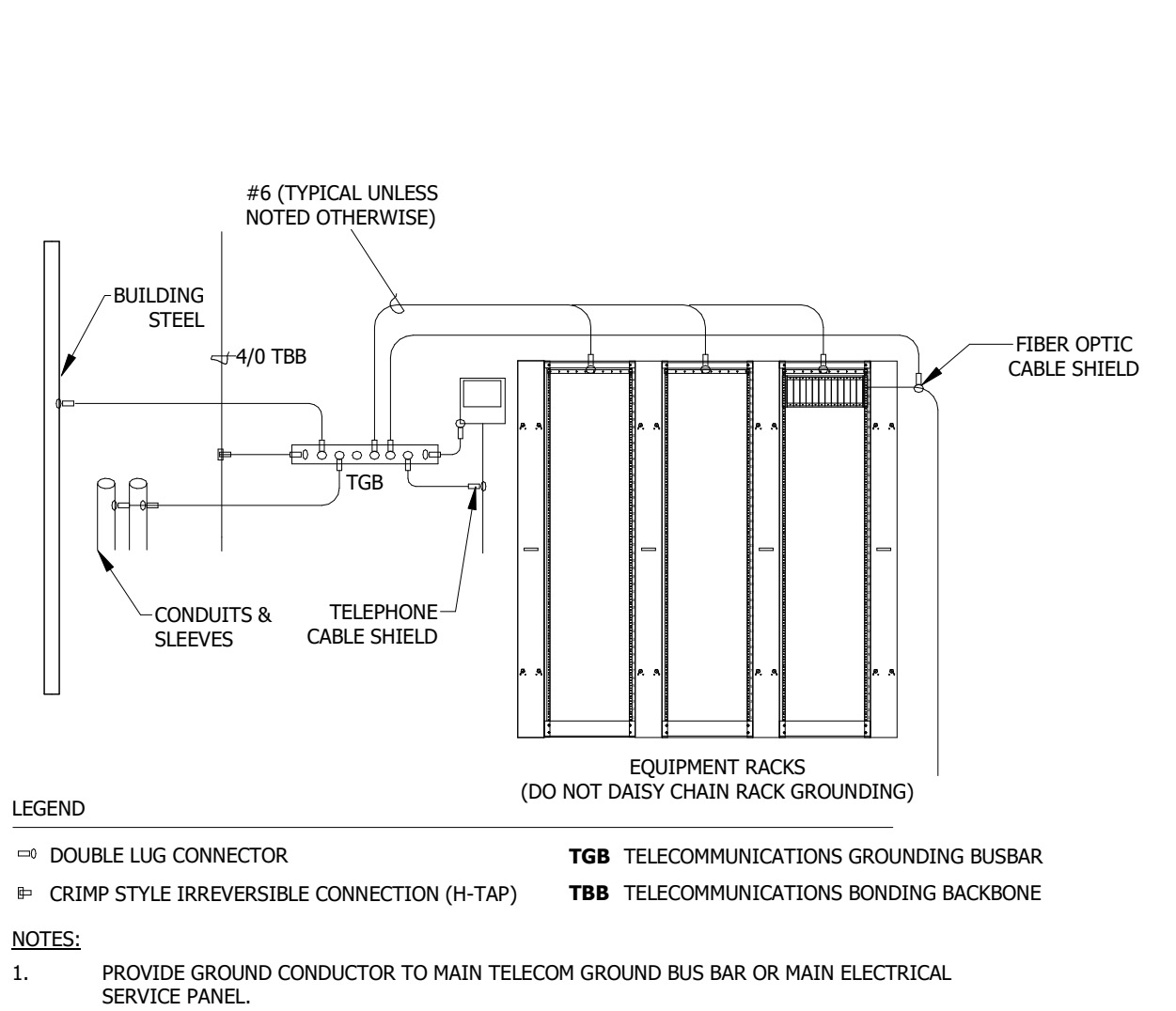
(NOT ALL NOTES MAY BE APPLICABLE TO THIS SHEET)

1. ACCESS CONTROL LOCATION. REFER TO DETAILS SHEETS AND ARCHITECTURAL SPECIFICATIONS FOR FURTHER INFORMATION ON ACCESS, RAILING, AND HANDRAILS.
2. LOCATION OF OWNER FURNISHED, CONTRACTOR INSTALLED, WIRELESS ACCESS POINT (WAP), STRUCTURED CABLED CONTRACTOR SHALL PROVIDE TWO (2) CATEGORY 6B4 CABLES TO EACH WIRELESS ACCESS POINT. CONTRACTOR SHALL PROVIDE FINAL PATCH CABLES FOR OWNER TO PATCH TO FIBER DEVICE. ALLOW FOR 10' MINIMUM BUCKING MARGIN. CONTRACTOR SHALL PROVIDE TWO LOCATIONS SHALL BE CONCEALED AND SERVICE LOOP SHALL BE AT THE CLOSEST LOCATIONS.
3. PROVIDE AN EMERGENCY DRESS BURET ROOM AND STY. PROVIDE 10' MINIMUM BUCKING MARGIN. 4"X8" WITH UB-25 AND CTS-10147 BACKLIGHT. PROVIDE WITH STY-6518. COORDINATE INSTALLATION PRIORITY TO ROUGH-IN WITH DESIGN TEAM. PROVIDE INTERFACED WITH FIRE ALARM SYSTEM FOR MONITORING AND DIALING IN 911.
4. OWNER FURNISHED CONTRACTOR INSTALLED WALL RACK. CONTRACTOR SHALL PROVIDE 10' MINIMUM BUCKING MARGIN. PLYWOOD PAINTED WHITE WITH FIBER REDAPTANT PAINT. -ALL CABLE SHALL HAVE A 15" SERVICE LOOP ABOVE RACK. CONTRACTOR SHALL PROVIDE 10' MINIMUM BUCKING MARGIN. RACK FOR TERMINATION.
5. CONTRACTOR CABLED CONTRACTOR SHALL PROVIDE 6 STRAND SINGLE MODE FIBER BACK TO MDF.
6. APPROXIMATE LOCATION OF FLOOR BOX. ARCHITECT SHALL PROVIDE A DIMENSIONED DRAWING ON EXACT LOCATION PRIOR TO INSTALL. SEE FLOOR BOX DETAIL SHEET FOR DIMENSIONS. SHEETS FOR NETWORKING AND AUDIOVISUAL CONNECTIONS.
7. SECURITY CONTRACTOR SHALL PROVIDE CHIEF CM592 OR EQUIVALENT, 2" X 2" IN-CELLING ENVELOPE, MODUL MODULAR CLOSURE. 10' MINIMUM BUCKING MARGIN. CONTRACTOR SHALL WITHIN 8" OF MODULAR CLOSURE. COORDINATE LOCATION WITH OTHER TRADES AND OWNER PRIORITY TO ROUGH-IN.
8. NO WORK IN RESTROOMS UNDER BASE BID. RESTROOMS WORK TO BE TERMINATE BID #1.
9. DASHED LINES ARE INDICATING RENOVATION AREA. AREAS OUTSIDE OF DASHED LINES ARE TO REMAIN EXISTING UNLESS OTHERWISE INDICATED OR REQUIRED TO SERVICE DEVICES.
10. WORK IN RENOVATION.

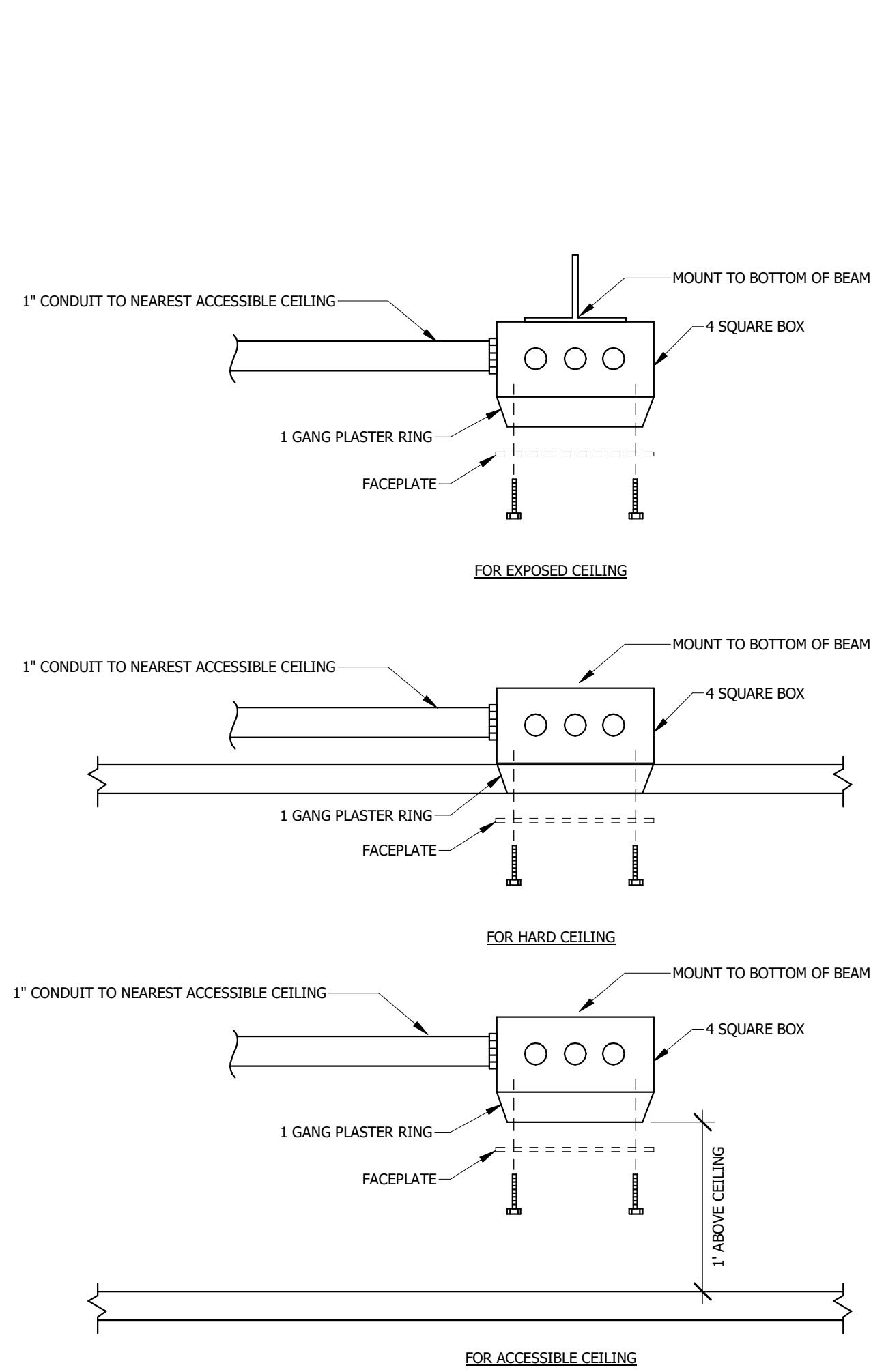




1 FIRE ALARM MOUNTING DETAILS
No Scale



3 LOW VOLTAGE GROUNDING DIAGRAM
No Scale



5 LOW VOLTAGE CEILING ROUGH-IN DETAIL
No Scale

BLACK HAWK COUNTY IT RACK SCHEDULE					
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	FIBER PANEL 24 PORT PATCH PANEL 48 PORT SWITCH 48 PORT PATCH PANEL 48 PORT SWITCH OPEN POS 24 PORT PANEL FUTURE UPS	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	FIBER PANEL 24 PORT PATCH PANEL 48 PORT SWITCH 48 PORT PATCH PANEL 48 PORT SWITCH OPEN POS 24 PORT PANEL FUTURE UPS	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	FIBER PANEL 24 PORT PATCH PANEL 48 PORT SWITCH 48 PORT PATCH PANEL 48 PORT SWITCH OPEN POS 24 PORT PANEL FUTURE UPS
MANUFACTURER	NAVEPOINT	MANUFACTURER	NAVEPOINT	MANUFACTURER	NAVEPOINT
MODEL	OWNER PROVIDED	MODEL	OWNER PROVIDED	MODEL	OWNER PROVIDED
HEIGHT (RU)	30" (18 RU)	HEIGHT (RU)	30" (18 RU)	HEIGHT (RU)	30" (18 RU)
WIDTH	24"	WIDTH	24"	WIDTH	24"
DEPTH	28"	DEPTH	28"	DEPTH	28"
TYPE	A/V ENCLOSURE	TYPE	A/V ENCLOSURE	TYPE	A/V ENCLOSURE
MOUNTING	FLOOR	MOUNTING	FLOOR	MOUNTING	FLOOR
DOOR STYLE	LOCKABLE/TEMPERED GLASS REVERSIBLE	DOOR STYLE	LOCKABLE/TEMPERED GLASS REVERSIBLE	DOOR STYLE	LOCKABLE/TEMPERED GLASS REVERSIBLE
CABLE MANAGEMENT	D-RINGS ON WALL	CABLE MANAGEMENT	D-RINGS ON WALL	CABLE MANAGEMENT	D-RINGS ON WALL
POWER CIRCUITS	ONE (1) 20 AMP	POWER CIRCUITS	ONE (1) 20 AMP	POWER CIRCUITS	ONE (1) 20 AMP
LOCATION	JANITOR STORAGE 014	LOCATION	STORAGE 109	LOCATION	COUNTY ENGINEER 243

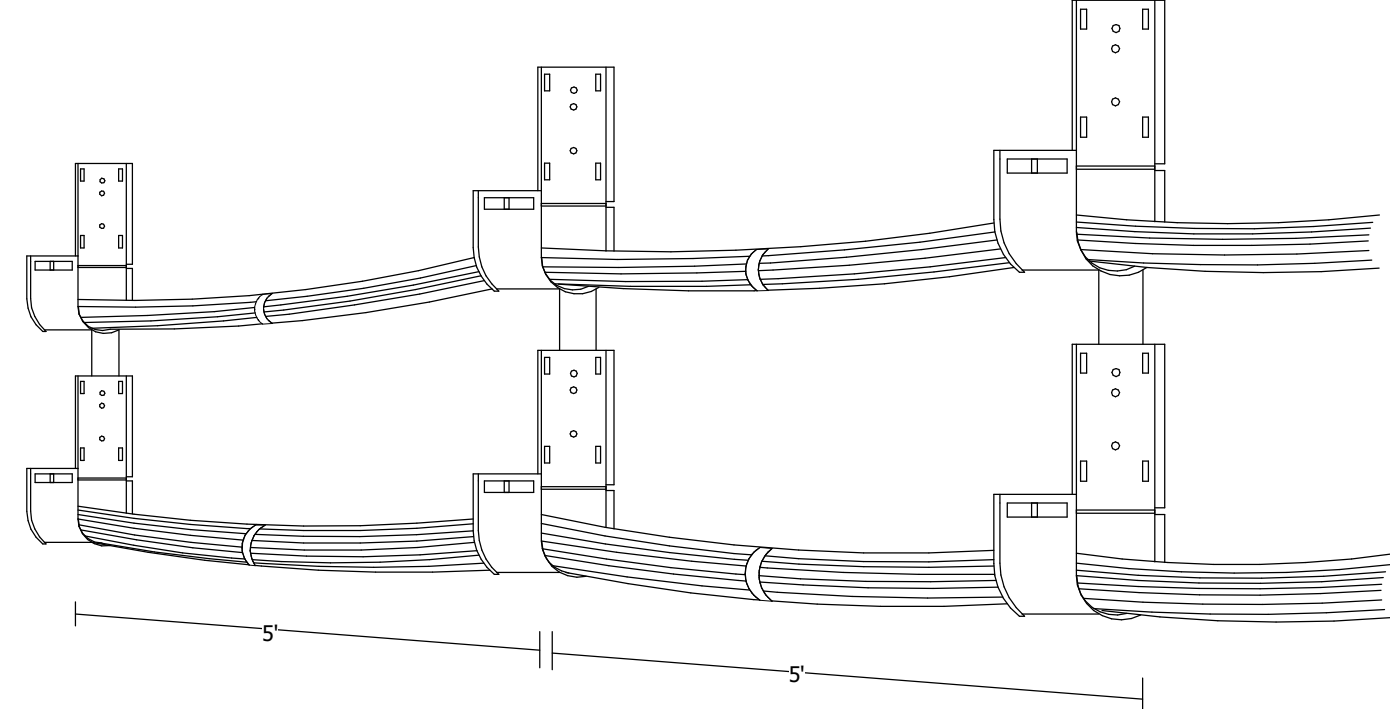
BLACK HAWK COUNTY CAMERA SCHEDULE									
LABEL	MANUFACTURER	MODEL	DESCRIPTION	ROUGH-IN	LENS	RESOLUTION	VIEW ANGLE	POWER	NOTES
C1	AXIS	P3265-LV	INDOOR PVE DOME CAMERA	SINGLE GANG BOX	VARIFOCAL	2MP	100°-36°	10.7W	1,2,3
C2	AXIS	P3719-PL	INDOOR/OUTDOOR PVE MULTI-SENSOR	SINGLE GANG BOX	VARIFOCAL (x4)	15MP	360°	25.5W	1,2,3
C3	AXIS	F4105-LRE	INDOOR/OUTDOOR DIVIDED MODULAR DOME CAMERA	SINGLE GANG BOX	2.8MM	1920/1200	110°	25.5W	2,3,4
C4	AXIS	F9114	4 CHANNEL MODULAR CAMERA MAIN UNIT						4

GENERAL NOTES:

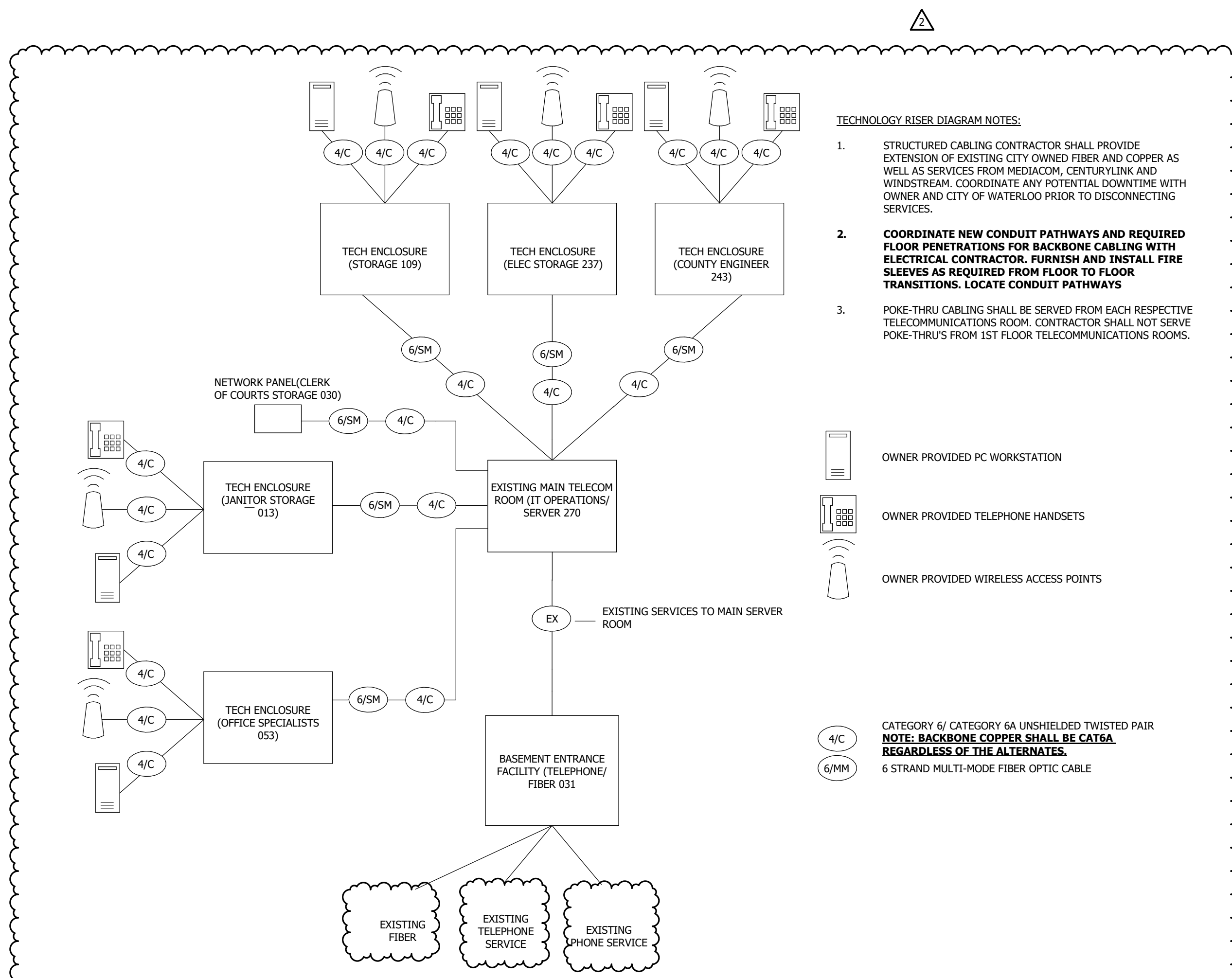
- COORDINATE WITH OWNER ON FINAL CAMERA VIEW.
- PROVIDE ALL ACCESSORIES AND HARDWARE FOR CORNER MOUNTED CAMERAS.
- THE MOUNTED CAMERA SHALL BE SUPPORTED BY BACKBOX CONNECTED TO SPANNING BAR.

FEATURE NOTES:

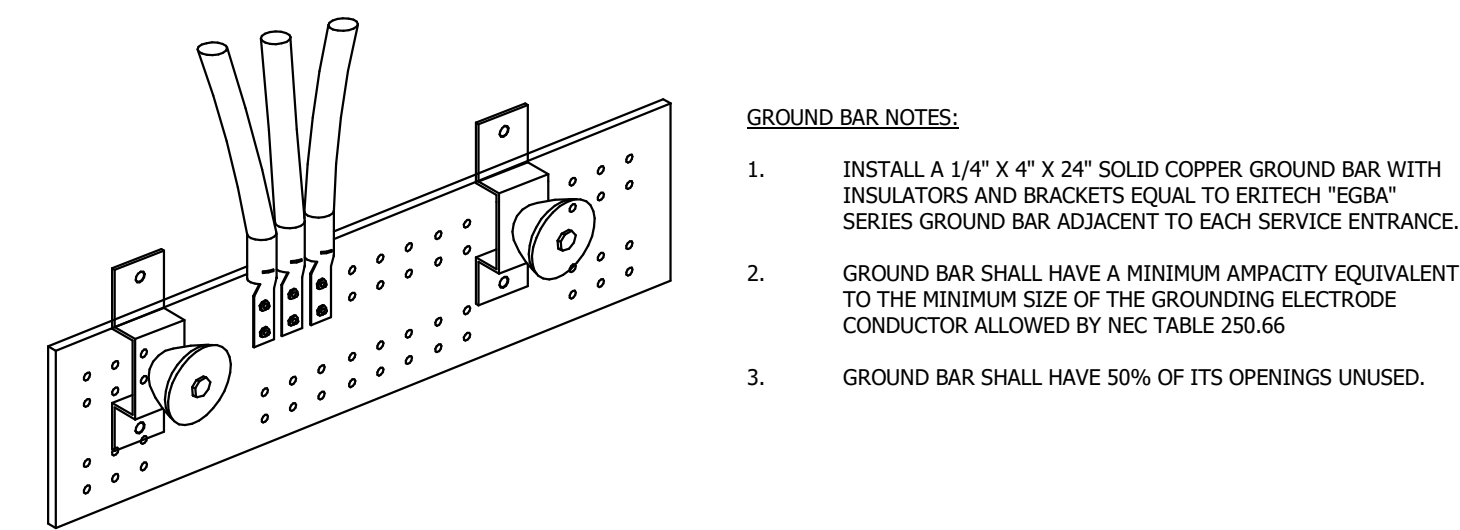
- REMOTE FOCUS
- LOW LIGHT FUNCTIONALITY
- BUILT IN IR
- MODULAR CAMERAS REQUIRE MAIN UNIT AND SENSOR.



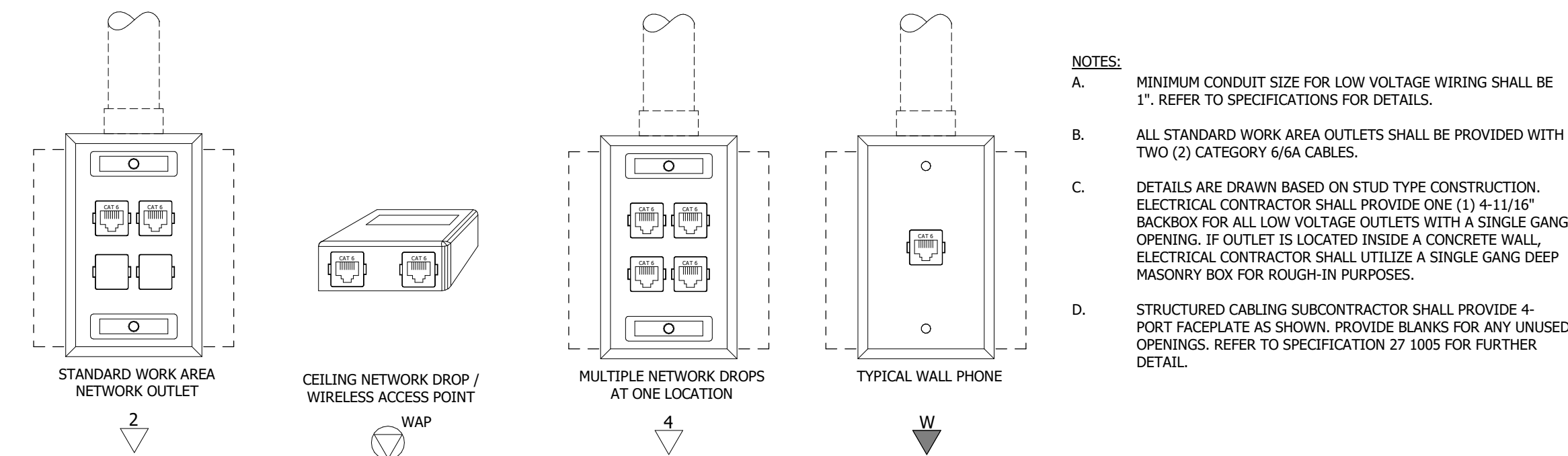
3-HOOK PATHWAY DETAIL
No Scale



4 CAMPUS TECHNOLOGY RISER DIAGRAM
No Scale



2 LOW VOLTAGE GROUND BAR DETAIL
No Scale



7 TELECOM DEVICE DETAIL
No Scale