

Small Procurement for Construction

Fairbanks Pioneer Home Server Room AC Project No. ANC 23-24C

You are invited to submit a quote to provide all labor, supervision, permits and materials to install a split DX cooling system to provide cooling for the server room at the Fairbanks Pioneer Home.

A pre-bid walk through is scheduled for Wednesday November 16, 2022 @ 2:00 P.M. Meet in the main entry lobby. The property is located at 2221 Eagan Ave, Fairbanks, AK 99701.

Bids must be received before 2:00 PM local time November 29, 2022, at the Email address listed in the bid documents.

The project completion date is February 28, 2023.

Please direct all project or site related inquiries to Mark Moon, Project Manager at (907) 269-7812 or mark.moon@alaska.gov

PLEASE NOTE: Emailing your bid does not mean it arrived by the designated bid opening time. It would be in your best interest to send your bid early and not wait until the last minute. You may also call Mark Moon at (907) 269-7812 to confirm he received your bid – The State cannot be held responsible for power and/or phone outages, network slowdowns or other problems that may cause your bid to arrive late.

Issued: November 9, 2022

Small Procurement for Construction

Fairbanks Pioneer Home Server Room AC Project No. ANC 23-24C

TABLE OF CONTENTS

1. Cover Page
2. Table of Contents
3. Invitation for Quotes
4. Quote Submittal
5. Notice of Award & General Conditions
6. Notice to Proceed
7. Alaska Bidder Preference Worksheet
8. Alaska Veterans Preference Affidavit
9. Alaska Products Preference Worksheet
10. Subcontractors List
11. Scope of Work
12. Drawings
13. Laborers & Mechanics Rates of Pay Pamphlet #600
State wage rates can be obtained at <http://www.labor.state.ak.us/lss/pamp600.htm>.

Issued: November 9, 2022



STATE OF ALASKA
DEPARTMENT OF FAMILY and COMMUNITY SERVICES
INVITATION FOR QUOTES FOR
A SMALL PROCUREMENT
(CONSTRUCTION RELATED)

[per AS 36.30.320(a)]

Project Name & No.: Fairbanks Pioneer Home – Server Room AC # ANC 23-24C Location: 2221 Egan Ave Fairbanks, AK 99701	Procurement Agency and Address: Dept. of Family and Community Services FMS Facilities 3601 C Street, Suite 578 Anchorage, AK 99503 Email: mark.moon@alaska.gov
Procurement Officer: Janelle Earls, FMS Contracting Officer	Date of Issuance: 11/9/2022
DESCRIPTION OF WORK, REQUIRED COMPLETION DATE, LISTING OF ATTACHMENTS: Provide all labor, supervision, permits, and materials to install a split DX cooling system for the server room at the Fairbanks Pioneer Home, per the plans and sheet note specifications	
The Project cost estimate is under <input type="checkbox"/> \$10,000 <input checked="" type="checkbox"/> \$10,000 - \$50,000 <input type="checkbox"/> \$50,001 - \$100,000 : <input type="checkbox"/> \$100,001 - \$200,000 ^{1,2} 1. Quotes in excess of \$200,000 will be deemed non-responsive. 2. Any project in excess of \$100,000 must be bonded.	
Davis-Bacon Wages (Title 36.05): are <input checked="" type="checkbox"/> are not <input type="checkbox"/> required on this project.	
The following insurance coverages are required: <input checked="" type="checkbox"/> Workers Comp <input checked="" type="checkbox"/> General Liability <input checked="" type="checkbox"/> Automobile	
<u>Bonding Requirement:</u> Bid Bond (25D-14), Payment Bond (SPC-005) Performance Bond (SPC-006) & are <input type="checkbox"/> are not <input checked="" type="checkbox"/> required on this project.	
Quotes for furnishing all labor, equipment and materials and performing all work for the above Project are invited. To be eligible for consideration, quotes must be received before 2:00 pm local time on 29th day of November 2022 . Late quotes cannot be accepted. Disadvantaged Business Enterprises (DBE's) may submit quotes and will not be discriminated against on the grounds of race, color, national origin or sex in consideration for an Award which results from this invitation. Any errors, omissions, or questions pertaining to solicitation procedures or Project requirements, requests for additional documents, or inquiries pertaining to site conditions or scheduled visits must be made to: Title: <u>Mark Moon, Facility Manager I</u> , at: <u>3601 C Street Suite 578 Anchorage, AK 99503</u> Email: mark.moon@alaska.gov , Telephone: (907) <u>269-7812</u> ; Fax: (907) _____ Applicable provisions of AS 36.30 and 2 AAC 12 govern this solicitation.	
SUBMITTAL OF QUOTES: Quotes for this Project must be submitted in the manner noted below. All Offerors must familiarize themselves with the <i>Instructions to Offerors</i> , page 2 of this form, prior to submitting their quote. <div style="margin-left: 20px;"><input type="checkbox"/> - VERBAL QUOTES SHALL BE GIVEN TO _____ AT THE ABOVE NOTED TELEPHONE NUMBER, PRIOR TO THE STATED DEADLINE. (See above Bonding Requirements.) <input checked="" type="checkbox"/> - WRITTEN QUOTES, INCLUDING AMENDMENTS OR WITHDRAWALS, MUST BE RECEIVED PRIOR TO THE ABOVE NOTED DEADLINE. QUOTES MUST BE SUBMITTED ON FORM SPC-002, QUOTE SUBMITTAL, ATTACHED. (See above Bonding Requirements.)</div> <p>Written quotes may be submitted by electronically, hand delivered, or mailed in a sealed envelope. Confidentiality is only assured for sealed quotes. Mailed quotes must allow time for delivery and the envelope must be marked as follows:</p> <div style="display: flex; justify-content: space-between;"><div><u>Quote for Project:</u> Name: Fairbanks Pioneer Home Server Room AC Number: ANC 23-24C Attn: Mark Moon</div><div><u>Procurement Agency Address:</u> 3601 C Street, Suite 578 Anchorage, AK 99503 Email: mark.moon@alaska.gov</div></div> <p>Quote amendments or withdrawals must be made in writing to the individual of the Procurement Agency receiving the quotes and must be received prior to the time for quote submittal.</p>	



**STATE OF ALASKA
DEPARTMENT OF FAMILY and COMMUNITY SERVICES
INVITATION FOR QUOTES FOR
A SMALL PROCUREMENT
(CONSTRUCTION RELATED)**

INSTRUCTIONS TO OFFERORS

The State of Alaska desires that all Offerors submitting quotes on construction contracts are given a fair and equal opportunity to compete. Offerors are required to follow these instructions:

REVIEW THE PROJECT DOCUMENTS: Most construction Projects in excess of \$1,000 will have some type of written documentation prepared expressly for the Work. If you are asked to submit a quote and no written information has been provided, you should ask the procurement Agency for written documentation. If the scope of services have been described to you verbally, and you are selected for Contract Award, you must ensure that the information of the services to be performed (scope of work) is put in writing prior to accepting the Contract. When providing a Quote, carefully review and consider all materials related to the solicitation and work of the contract. **By submitting a quote the Offeror warrants that they are familiar with the Project requirements, have visited or otherwise examined the site, and are aware of the conditions to be encountered.** Offeror's can verify the contents and completeness of their quote documents by contacting the procurement Agency individual named on the front of this form.

SUBMITTING THE QUOTE: The Quote must be submitted in one of the following formats as called for in the Invitation:

1. **ORALLY** - if a verbal quote is solicited, the Offeror must provide, in addition to their quote amount and mailing address -- (1) their valid Alaska Business License number, (2) if applicable, a valid Contractor's Registration number, (3) their status as an Alaskan Bidder (Offeror), (4) their intended use of Alaskan products, (5) the carrier's name and policy number for their Workers' Comp Insurance (or a statement of sole proprietorship, if applicable), and (6) the Employer (Tax) Identification Number or Social Security Number. The Procurement Agency will enter this information on the quote schedule.

2. **WRITTEN** - if a written quote is solicited, the Offeror must complete, in ink or typewritten, the *Small Procurement Quote Submittal*, Form SPC-002. Failure to acknowledge receipt of addenda or to execute the form correctly and completely may disqualify the quote.

NOTE: The Department of Labor requires an Offeror to be licensed and registered for the required type of work prior to submitting a quote. If the procurement Agency determines the Offeror is improperly registered or licensed, their quote may be deemed nonresponsive.

SUBCONTRACTOR LISTING: Subcontractors intended to be utilized on this contract must be listed in the response to the solicitation. Work shall not be awarded to any subcontractor without prior approval from the procurement Agency. Subcontractors may be added or removed only as approved by the procurement Agency.

DETERMINATION OF THE LOWEST RESPONSIBLE QUOTE AND CONTRACT AWARD: Following receipt and determination of all **responsive** oral, written or sealed quotes, the procurement Agency will compare the quotes and determine the lowest Offeror. If the procurement Agency discovers a discrepancy between the unit price amount and the extended amount; the unit price amount will prevail. Conditioned quotes, unless expressly requested, will not be considered. When the quote schedule is composed of a basic amount with alternates, the procurement Agency will base its determination of the low quote and the amount of the Contract Award solely upon those quotes, basic and alternates, that are priced within the extent of available construction funds. Alternates will be considered for Award in the order listed, except that if the order of Offerors is not affected, the Award may include any combination of funded alternates, or none, as may be in the best interest of the procurement Agency.

When determining the lowest quote, the procurement Agency will also give a 5% Alaska Offeror's preference and an appropriate Alaska Products preference to quotes designating the applicability of a preference. To qualify for the Offeror's preference (per AS 36.30.170) the Offeror **must** (1) hold a current Alaska Business License, (2) submit the quote under the name appearing on the license, (3) have staffed and maintained a place of business within Alaska for the previous six months and (4) be incorporated or qualified to do business under the laws of the State. In addition, if the Offeror is a partnership or joint venture, all parties must meet the criteria to be eligible for the preference. A booklet fully describing the Alaska Preferences (Bidder, Offeror, Product, Disabilities, Veteran) program is available at <http://doa.alaska.gov/dgs/pdf/pref2.pdf>. A detailed description of the Alaska Products Preference Program is available at <http://www.commerce.state.ak.us/ded/dev/prodpref/prodpref.htm>.

The procurement Agency will make a determination of **responsibility** as required by 2 AAC 12.500. If the lowest Offeror is declared responsible, the procurement Agency will execute the *Notice of Award / Notice to Proceed*, Form SPC-003, and send it to the Offeror for acknowledgement. If the lowest Offeror is found to be nonresponsive, this process will be repeated with the second lowest Offeror -- and so on until the lowest responsive and responsible Offeror is determined.

NOTICE OF AWARD AND PROTEST: A written notice will be provided on all Awards exceeding \$ 25,000 (2 AAC 12.400(h)). All protests must be filed with the Commissioner of the procurement Agency (or designee) and copied to the Procurement Officer. Protest procedures are described in AS 36.30.560 and 2 AAC 12.695. The extent of the protest remedy is limited to quote preparation costs (AS 36.30.585).

INDEMNITY AND INSURANCE – The following insurance is required for all construction contracts:

Article 1. Indemnification

The Contractor shall indemnify, hold harmless, and defend the contracting agency from and against any claim of, or liability for error, omission or negligent act of the Contractor under this agreement. The Contractor shall not be required to indemnify the contracting agency for a claim of, or liability for, the independent negligence of the contracting agency. If there is a claim of, or liability for, the joint negligent error or omission of the Contractor and the independent negligence of the Contracting agency, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Contractor" and "Contracting agency", as used within this and the following article, include the employees, agents and other contractors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the Contracting agency's selection, administration, monitoring, or controlling of the Contractor and in approving or accepting the Contractor's work.

Article 2. Insurance

Without limiting Contractor's indemnification, it is agreed that Contractor shall purchase at its own expense and maintain in force at all times during the performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the Contractor's policy contains higher limits, the state shall be entitled to coverage to the extent of such higher limits. Certificates of Insurance must be furnished to the Contracting Officer prior to beginning work and must provide for a notice of cancellation, nonrenewal, or material change of conditions in accordance with policy provisions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the Contractor's services. All insurance policies shall comply with, and be issued by insurers licensed to transact the business of insurance under AS 21.

2.1 Workers' Compensation Insurance: The Contractor shall provide and maintain, for all employees engaged in work under this contract, coverage as required by AS 23.30.045, and; where applicable, any other statutory obligations including but not limited to Federal U.S.L. & H. and Jones Act requirements. The policy must waive subrogation against the State.

2.2 Commercial General Liability Insurance: covering all business premises and operations used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per claim.

2.3 Commercial Automobile Liability Insurance: covering all vehicles used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per claim.



STATE OF ALASKA
DEPARTMENT OF FAMILY AND COMMUNITY SERVICES
FMS FACILITIES

SMALL PROCUREMENT QUOTE SUBMITTAL
(CONSTRUCTION RELATED)

[per AS 36.30.320(a)]

Project Name & No.: <u>Fairbanks Pioneer Home – Server Room AC, Project #ANC 23-24C</u>	Procurement Agency and Address: <u>State of Alaska, DFCS/FMS Facilities</u> <u>3601 C Street - Suite 578</u> <u>Anchorage, AK 99801</u> <u>(907) 269-7816</u> <u>mark.moon@alaska.gov</u>
Location: <u>2221 Egan Ave Fairbanks, AK 99701</u>	
Contracting _____ Officer's Signature: Janelle Earls, Contracting Officer	Date of Issuance: November 9, 2022 Bid is Due: November 28, 2022 at 2:00 p.m.
<p>QUOTE: Provide all labor, supervision, permits, and materials to install a split DX cooling system for the server room at the Fairbanks Pioneer Home.</p> <p>a. Lump Sum – Total Basic Bid: \$ _____</p> <p>b. Alaska Bidder's Preference: (5% of a.) \$ _____</p> <p>c. Alaska Veterans Preference: (5% of a.) \$ _____</p> <p>d. Alaska Products Preference: (Attach worksheet(s)) \$ _____</p> <p>e. Adjusted Basic Bid: (a – b – c – d) \$ _____</p> <p>I have reviewed the bid documents, with addenda _____, and understand the scope of services and conditions required for Project number <u>ANC 23-24C</u>. I agree to furnish all necessary labor, materials, and equipment for the above amount(s). The Work shall be accomplished in a professional manner acceptable to the Procurement Officer.</p> <p>Contractor _____ Contractor Reg. No. _____</p> <p>Authorized Signature _____ Title _____</p> <p>Address _____</p> <p>Business License # _____ EIN or SSN _____ Phone # _____</p> <p>Offeror is Claiming: <input type="checkbox"/> Alaska Bidder Preference <input type="checkbox"/> Alaska Products Pref. (worksheet) <input type="checkbox"/> Alaska Veteran Preference</p> <p>..... Procurement Officer: _____ Date of Receipt of Bid: _____</p>	

Offeror to Complete this Portion



STATE OF ALASKA
DEPARTMENT OF FAMILY and COMMUNITY SERVICES

NOTICE OF AWARD (NOA)
SMALL PROCUREMENT CONTRACT
(CONSTRUCTION RELATED)
[per AS 36.30.320]

Project Name & No.: <u>Fairbanks Pioneer Home</u> <u>Server Room AC - Project # ANC 22-24C</u> Location: <u>2221 Eagan Street Fairbanks. AK 99701</u>	Procurement Agency and Address: <u>Dept. of Family and Community Services</u> <u>FMS Facilities</u> <u>3601 C Street Suite 578</u> <u>Anchorage, AK 99503</u> Email: chris.capps@alaska.gov
Contracting _____ Officer's Signature: Janelle Earls, Contracting Officer	Date of Issuance:

TO: _____ _____ _____	FOR: Work related to Basic Bid of: <u>ANC 23-24C</u> , including the basic quote and alternate quote item(s): _____	The Contractor Must Submit: Insurance Bonding* Certified Wages** Subcontractor List***
<p>* <u>Bonding</u> - If contract bid amount exceeds \$100,000, Performance & Payment Bonds will be required for 100% of bid amount. ** <u>Certified Wages</u> – Contracts over \$25,000 require bi-weekly Certified Payroll be submitted to the Dept. of Labor (see Special Instructions to Bidders form) *** <u>Subcontractor List</u> – Contractor will be required to submit a Subcontractor list if they are utilized</p> <p>Your quote in the amount of \$ _____ submitted on _____, is accepted for performance of the Work described in the attached Invitation for Quotes (Form SPC-001), and the quote as submitted on the <i>Small Procurement Quote Submittal</i> (Form SPC-002), which are a part of this Contract.</p> <p>The Contractor must sign, date, and return this document to the procurement address shown above or email to: mark.moon@alaska.gov . The Procurement Officer will then sign and return a copy to the Contractor, and the Award will be deemed made.</p> <p><i>The Work of this contract may not commence until the Notice to Proceed (NTP) is issued.</i></p> <p>Contractor's Signature of Contract Award Acceptance: _____ Date : _____</p>		
NOTICE TO UNSELECTED OFFERORS ON PROJECTS OVER \$ 25,000		
In accordance with the protest rights afforded under 2 AAC 12.400(d)(2)(B) & (3), a <u>copy</u> of this Notice of Award is hereby provided to those individuals and businesses who submitted a response to the initial solicitation on which this award is made.		



STATE OF ALASKA
DEPARTMENT OF FAMILY & COMMUNITY SERVICES

NOTICE OF AWARD (NOA)
SMALL PROCUREMENT CONTRACT
(CONSTRUCTION RELATED)

GENERAL CONDITIONS

[Construction Procurement under AS 36.30.320]

These terms, conditions and requirements apply to the Contract Documents describing the Work for the Project. If any provision of these Contract Documents is declared by a court to be illegal or in conflict with any law, the validity of the remaining provisions and the ensuing rights and obligations of the Parties to the contract shall not be affected.

Whenever used in these Contract Documents, the following terms shall have the indicated meaning. Any term not so defined shall have its ordinary meaning.

- **Approved or Approval** - means written approval by the Procurement Officer or authorized representative.
- **Award** - means the written acceptance of the lowest responsive and responsible quote by the Procurement Agency.
- **Contract Documents** - includes the *Invitation for Quotes for a Small Procurement*, Form SPC-001 (with Instructions - if issued), the *Notice of Award / Notice to Proceed*, Form SPC-003, any addenda, written changes, or attachments as noted in the description of the Work.
- **Procurement Officer** - the person authorized to enter into and administer the contract on behalf of the Procurement Agency.
- **Parties to the Contract** - includes the Procurement Agency, the owner Agency representing the State of Alaska, and the Contractor, being the entity contracting with the owner Agency for performance of the Work.
- **Project** - The total construction, of which the Work performed under the Contract, is the whole or part.
- **Project Manager** - the Procurement Officer's authorized representative, responsible for Contract administration.
- **Work** - is the act of, and the result from, performing services, furnishing labor, furnishing and incorporating materials and equipment into the Project and performing other duties and obligations, all as required by the Contract Documents.

1. The Procurement Officer (or authorized representative) has the authority to make findings, determinations and decisions with respect to the contract; to Approve materials, Work and payment therefore; and to modify or terminate the contract on behalf of the Procurement Agency.
2. The Contractor shall have sole responsibility for the means, methods, sequences, or procedures of construction and safety precautions related to the Project. The Contractor shall conduct all Work in such a manner that protects the public and State resources.
3. The Contractor must comply with all applicable laws, regulations, codes, ordinances and written directives issued by the Procurement Officer. In addition, the Contractor must obtain applicable licenses and permits; provide supervision, labor, tools, and new materials (except as may otherwise be provided by the Procurement Agency); and utilize Alaska Products and Wood Products when applicable (see AS 36.05.010 & AS 36.30.322). **Hazardous Materials:** The CONTRACTOR is to be aware under 29 CFR 1926.1101(k)(2)(ii) Construction Industry Standards, any building or facility constructed prior to 1980 may contain suspected Hazardous Materials. All known or perceived known Hazardous Materials information will be provided by the DEPARTMENT's facility staff to the CONTRACTOR upon request. Any new suspected Hazardous Materials encountered by the CONTRACTOR shall be made known to the DEPARTMENT within 3 business days of discovery. Once notified the DEPARTMENT will have an Environmental Assessment completed to verify if hazardous materials exist.
4. The Contractor shall not award Work to any subcontractor without prior Approval from the Procurement Officer.
5. The Procurement Agency reserves the right to make written changes to the Contract Documents for modifications within the general scope of the Work.
6. Any act or occurrence be it a result of an emergency, differing site condition or change order, which may form the basis of a claim for a price or time adjustment must be reported immediately to the Procurement Officer.
7. **The Department of Labor and Workforce Development, Wage and Hour Administration, must be notified in accordance with AS 36.05.010 and AS 36.05.030 if the resulting contract for repairs or construction exceeds \$25,000.** The Contractor must comply with the requirements noted within the Department of Labor packet entitled, "Laborers' & Mechanics' Minimum Rates of Pay." To obtain a copy of the referenced packet, contact the Procurement Agency or the Department of Labor.
8. The primary contractor working on public construction projects with an amount of \$25,000 or more must file a Notice of Work and pay a one percent fee based on the estimated value of work performed by the prime contractor and one percent of the value of each subcontractor's price, to the Department of Labor and Workforce Development, Wage and Hour Administration (DOLWD) - The maximum fee is \$5,000.00. The notice and fees must be filed with the DOLWD before work commences on the project.

Upon completing the construction project, the primary contractor must file a Notice of Completion (NOC) and make payment of any additional fees due to increases in the contract amounts due the primary contractor. Contractor must file the Notice of Work and Notice of Completion online. Please call the Dept. of Labor for instructions and/or assistance in filing (<http://labor.alaska.gov/lss/whhome.htm>).

9. The Contractor shall indemnify, save harmless, and defend the Procurement Agency, its agents and its employees in accordance with Appendix B1. Furthermore, the Contractor shall, prior to the Award of the contract, provide proof of Workmen's Compensation, General Liability, and Automobile Insurance in amounts as applicable under Appendix B1. These coverages shall remain in force for the duration of the Contract.
10. The Contractor shall remedy all defects in materials or workmanship that develop within a period of one year from the date of final payment.
11. The Procurement Agency will make final payment to the Contractor following approval of completion of all Work and the Contractor's submittal of all releases, warranties, record documents, permits and invoices. Liens or other claims relating to the Project may be withheld from final payment if written notice is first given to the Contractor. Acceptance of the final payment will constitute the Contractor's waiver to future claims.
12. Any dispute arising out of this Contract, which cannot be satisfactorily remedied by the Parties to the Contract, shall be resolved under AS 36.30.620 - 699.

APPENDIX B¹
BONDS, INDEMNITY AND INSURANCE

Article 1. Bonds

If Required and Noted on Page one of the Notice of Award Form SPC-003, the CONTRACTOR shall furnish Performance and Payment Bonds, each in an amount as shown on the Contract as security for the faithful performance and payment of all CONTRACTOR'S obligations under the Contract Documents. These bonds shall remain in effect for one year after the date of Final Acceptance and until all obligations under this Contract, except special guarantees as per 12.7, have been met. All bonds shall be furnished on forms provided by the DEPARTMENT (or copies thereof) and shall be executed by such Sureties as are authorized to do business in the State of Alaska. The Contracting Officer may at his option copy the Surety with notice of any potential default or liability.

At the option of the CONTRACTOR, bonds may be provided by individual Surety the adequacy of which shall be determined by the Contracting Officer. Any costs incurred by the CONTRACTOR or individual Surety shall be borne by the CONTRACTOR. Where individual Sureties are used, two individual Sureties must each provide the State of Alaska with security equal to the amount of each bond by one, or a combination of, the following methods:

- a. Escrow account in the name of the DEPARTMENT for the duration of the Contract. Acceptable securities would include, but not necessarily be limited to: Cash; treasury notes; bearer instruments having a specific value, or; money market certificates.
- b. First *Deed of Trust* with the DEPARTMENT designated as beneficiary, against the unencumbered value of the real property located within the State of Alaska or an agreement by any second party, including deeds of trust, mortgage, lien or judgment interests to subrogate their interests to that of the State of Alaska in the real property which has been offered by the individual Surety.

A title insurance policy with the State of Alaska as a named beneficiary and a current (within 3 months) professional appraisal or assessed valuation will be required to ascertain the true value of the property offered as collateral. If buildings or other valued improvements are involved then fire and casualty insurance with the State of Alaska as a named insured and in limits and coverages acceptable to the Contracting Officer shall be required. The appraiser shall acknowledge in writing that the appraisal is prepared for the benefit of the DEPARTMENT and the DEPARTMENT has the right to rely on its contents. This *Deed* must be recorded in the recording office where the property is located.

With respect to clauses "a" and "b" above, the *Deed of Trust* or other accepted security shall not be released until 12 months after Final Acceptance of the Project and settlement of all outstanding claims.

Replacement of Bond and Surety:

If the Surety on any bond furnished in connection with this Contract is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located or it ceases to meet the requirements of paragraph 5.2, or otherwise becomes unacceptable to the DEPARTMENT, or if any such Surety fails to furnish reports as to his financial condition as requested by the DEPARTMENT, the CONTRACTOR shall within five days thereafter substitute another bond and Surety, both of which must be acceptable to DEPARTMENT.

An individual Surety may be replaced by a corporate Surety during the course of the Contract period. If the Surety desires to dispose of the collateral posted, the DEPARTMENT may, at its option, accept substitute collateral.

Article 2. Indemnification

The Contractor shall indemnify, hold harmless, and defend the contracting agency from and against any claim of, or liability for error, omission or negligent act of the Contractor under this agreement. The Contractor shall not be required to indemnify the contracting agency for a claim of, or liability for, the independent negligence of the contracting agency. If there is a claim of, or liability for, the joint negligent error or omission of the Contractor and the independent negligence of the Contracting agency, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Contractor" and "Contracting agency", as used within this and the following article, include the employees, agents and other contractors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the Contracting agency's selection, administration, monitoring, or controlling of the Contractor and in approving or accepting the Contractor's work.

Article 3. Insurance

Without limiting Contractor's indemnification, it is agreed that Contractor shall purchase at its own expense and maintain in force at all times during the performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the Contractor's policy contains higher limits, the state shall be entitled to coverage to the extent of such higher limits. Certificates of Insurance must be furnished to the Contracting Officer prior to beginning work and must provide for a 30-day prior notice of cancellation, non-renewal or material change of conditions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the Contractor's services. All insurance policies shall comply with, and be issued by insurers licensed to transact the business of insurance under AS 21.

3.1 Workers' Compensation Insurance: The Contractor shall provide and maintain, for all employees engaged in work under this contract, coverage as required by AS 23.30.045, and; where applicable, any other statutory obligations including but not limited to Federal U.S.L. & H. and Jones Act requirements.

- **The policy must waive subrogation against the State.**

3.2 Commercial General Liability Insurance: covering all business premises and operations used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000, combined single limit per occurrence.

- **The State of Alaska must be named as additional insured.**

3.3 Commercial Automobile Liability Insurance: covering all vehicles used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000, combined single limit per occurrence.



STATE OF ALASKA
DEPARTMENT OF FAMILY AND COMMUNITY SERVICES

NOTICE TO PROCEED (NTP)
SMALL PROCUREMENT CONTRACT
(CONSTRUCTION RELATED)

[per AS 36.30.320]

Project Name & No.: <u>Fairbanks Pioneer Home - Server Room AC, Project # ANC 23-24C</u>	Procurement Agency and Address: <u>Dept. of Family and Community Services</u> <u>FMS Facilities</u> <u>3601 C Street Suite 578</u> <u>Anchorage, AK 99503</u> Email: chris.capps@alaska.gov
Location: <u>2221 Eagan Ave Fairbanks, AK 99701</u>	
Project _____ Manager: <u>Mark Moon, Facilities Manager I</u>	Date of Issuance:

TO: _____ _____ _____	FOR: Work related to Basic Bid of: <u>ANC 23-24C</u> including the basic quote and alternate quote item(s): _____	The Contractor Must Submit: Insurance Bonding* Certified Wages** <u>Subcontractor List***</u>
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You have successfully met the requirements for submittal of all contract documents to the Procurement Agency and Dept. of Labor and Workforce Development related to the subject Project.

Upon receipt of this document, the Contractor may begin work on the subject project, in accordance with the terms of the contract. The Work of this contract must commence within 10 calendar days following the date of signature by the Procurement Officer, shown above (i.e., the effective date of the Contract) and all Work of the Contract must be complete on or before **February 28, 2023**

Send all invoices via email to: mark.moon@alaska.gov

Contractor's Signature of Acknowledgment: _____ Date : _____

* **Bonding** - If contract bid amount exceeds \$100,000, Performance & Payment Bonds will be required for 100% of bid amount.
** **Certified Wages** - Contracts over \$25,000 require biweekly Certified Payroll be submitted to the Dept. of Labor.
*** **Subcontractor List** - Contractor will be required to submit a Subcontractor list if they are utilized.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

ALASKA BIDDER PREFERENCE CERTIFICATION

In response to the advertised procurement for:

Project Name and Number: —Fairbanks Pioneer Home – Server Room AC, Project No.: ANC 23-24C

Bidder/Proposer (company name): _____

Operation of Alaska Bidder Preference

Procurement preferences under the Alaska Procurement Code are benefits that the State grants only to qualified bidders. Under AS 36.30.990(2), if a bidder is an eligible “Alaska Bidder”, the Department will apply a five percent preference to the price of the bidder’s proposal.

Instructions regarding Alaska Bidder Preference

A bidder that claims the Alaska Bidder Preference must review and then certify that each statement appearing under the heading “Alaska Bidder Certification” is true. The individual that signs the certification shall include his/her printed name and position within bidder’s organization, *e.g.*, sole proprietor, partner, etc. If a bidder fails to submit a signed certification, the Department will not apply the claimed preference.

Alaska Bidder Certification

The bidding entity for which I am the duly authorized representative:

- (A) Holds a current Alaska business license;
- (B) Is submitting a bid or proposal for goods, services, or construction under the name appearing on the bidder’s current Alaska business license;
- (C) Has maintained a place of business in the State staffed by the bidder or an employee of the bidder for a period of six months immediately preceding the date of the proposal;
- (D) Is incorporated or qualified to do business under the laws of the State, is a sole proprietorship and the proprietor is a resident of the State, is a limited liability company organized under AS 10.50 and all members are residents of the State, or is a partnership under former AS 32.05, AS 32.06, or AS 32.11 and all partners are residents of the State; and
- (E) If a joint venture, is composed entirely of ventures that qualify under the four preceding paragraphs of this Alaska Bidder Certification.

By applying my signature below, I certify under penalty of perjury that I am the duly appointed representative of this bidder, which has authorized and empowered me to legally bind it concerning its proposal, and that the foregoing statements are true and correct.

By (signature)

Date

Printed name

Alaska Business License Number

Title:



STATE OF ALASKA
DEPARTMENT OF FAMILY & COMMUNITY SERVICES

ALASKA VETERAN'S PREFERENCE AFFIDAVIT

In response to the Invitation to Bid for: **Fairbanks Pioneer Home**

Project Name and Number: **Server Room AC, Project # ANC 23-24C**

I certify under penalty of perjury that _____
(Name) qualifies for the Alaska Veteran's Preference under the following conditions:

(a) If a bidder qualifies under AS 36.30.170(b) as an Alaska bidder and is a qualifying entity, a five percent bid preference shall be applied to the bid price (preference may not exceed \$5,000). In this subsection, "qualifying entity" means a:

- (1) Sole proprietorship owned by an Alaska Veteran;
- (2) Partnership under AS 32.06 or AS 32.11 if a majority of the members are Alaska Veterans;
- (3) Limited Liability Company organized under AS 10.50 if a majority of the individuals are Alaska Veterans.

(b) To qualify for a preference under this section, a bidder must add value by the bidder itself actually performing, controlling, managing and supervising a significant part of the services provided, or the bidder must have sold supplies of the general nature solicited to other state agencies, governments, or the general public.

(c) In this section, "Alaska Veteran" means an individual who is a:

- (1) Resident of this state; and
- (2) Veteran; means an individual who:

(A) Served in the:

- (i) Armed Forces of the United States, including a reserve unit of the United States armed forces; or
- (ii) Alaska Territorial Guard, the Alaska Army National Guard, the Alaska Air National Guard, or the Alaska Naval Militia; and

(B) Was separated from the service under a condition that was not dishonorable.

Authorized Signature

Printed Name

Date

INSTRUCTIONS FOR ALASKA PRODUCTS PREFERENCE WORKSHEET

Special Note:

All procurements, except those funded from Federal sources, shall contain Contract provisions for the preference of Alaska products. The products listed by the Bidder on this worksheet have been selected for the referenced project from the "Alaska Product Preference List" which was in force 30 days prior to the advertisement date of this contract. Bidders may obtain a copy of the appropriate listing "Alaska Preference List" by contacting their local DCED office or by writing: Dept. of Commerce & Economic Development, Alaska Products Preference Listing, P.O. Box D, Juneau, AK 99811.

BIDDERS INSTRUCTIONS:

A. **General.** The Contracting Agency may request documentation to support entries made on this form. False presentations may be subject to AS 36.30.687. All Bidder's entries must conform to the requirements covering bid preparations in general. Discrepancies in price extensions shall be resolved by multiplying the declared total value times the preference percentage and adjusting any resulting computation accordingly.

B. **Form Completion - BASIC BIDS.**

(1) Enter project number and name, the words "Basic Bid" and the CONTRACTOR'S name in the heading of each page as provided.

(2) The Bidder shall compare those candidate products appearing on the preference listing (see Special Notice comments above) against the requirements of the technical specifications appearing in the contract documents. If the Bidder determines that a candidate product can suitably meet the contract requirements, then that product may be included in the worksheet as follows.

(3) For each suitable product submitted under the "Basic Bid" enter:

- ! the product name, generic description and its corresponding technical specification section number under the heading "PRODUCT",
- ! the company name of the Alaska producer under the heading "MANUFACTURER", and,
- ! the product class (I, II, or III) and preference percentage (3, 5, or 7%, respectively) under the "CLASS/%" heading.

(4) For each product appearing on the list and to be utilized by the CONTRACTOR enter:

- ! under the heading "TOTAL DECLARED VALUE" the manufacturer's quoted price of the product, (caution: this value is to be the manufacturer's quoted price at the place of origin and shall not include costs for freight, handling or miscellaneous charges of incorporating the product into the Work), and
- ! the resulting preference--ie.: the preference percentage times the total declared value amount -- under the heading "REDUCTION AMOUNT".

(5) Continue for all "suitable" basic bid products. If the listing exceeds one page enter the words "Page # ____ SUB" in front of the word "TOTAL" and on the first entry line of the following page enter "SUBTOTAL OF REDUCTION AMOUNT FROM PREVIOUS PAGE".

(6) On the final page of the listing enter "BASIC BID PREFERENCE GRAND" immediately before the word "TOTAL".

(7) Total the entries in the "REDUCTION AMOUNT" column for each page by commencing at the first entry for that page. If a continuation page exists, ensure that the subtotal from the previous page is computed into the running total. Number pages as appropriate.

(8) Compute a Grand Total for the Basic Bid Preference. Enter this amount on the final page of the worksheet and at line or column "C" on the Bid Schedule or Bid Schedule Summary Sheet as appropriate. Submit worksheet(s) with Bid Schedule Summary Sheet.

C. **Forms Completion - ALTERNATE BIDS.**

(1) Enter project number and name, the words "ALTERNATE BID # _____", and CONTRACTOR'S name in the heading of each page as provided.

(2) On the first entry line enter "ADDITIONAL ALASKA PRODUCTS FOR ALTERNATE BID

_____", and repeat procedures 2 through 5 under part B of these Bidder's instructions except that references to "Basic Bid" shall be replaced with the words "Alternate Bid # _____".

(3) Following the listing of all additional Alaska products enter the words "ADDITIONAL PRODUCTS PREFERENCE FOR ALTERNATE BID # _____--SUBTOTAL" and enter a subtotal amount for all additional products as listed. Subtotal amount to be determined by adding all additional product entries in the "REDUCTION AMOUNT" column.

(4) Skip three lines and enter "LESS THE FOLLOWING NON-APPLICABLE ALASKA PRODUCTS".

(5) Beginning on the next line enter the product name and manufacturer of each Alaska Product appearing on the "Basic Bid" listing which would be deleted or reduced from the Project should the "Alternate Bid" be selected. Details of entry need only be sufficient to clearly reference the subject product. (ie. "Prehung Doors by Alaska Door Co. in lieu of "Prehung Solid Core Wood Door, model "Super Door", Section 08210, by Alaska Door Co., Anchorage.) Products being reduced shall specify the amount of the reduction. Should no products require deletion enter "None". When a product is listed as a "NON-APPLICABLE ALASKA PRODUCT" for this alternate bid and if under the basic bid the Bidder received a preference on his basic bid as a result of that product, then the applicable entries under the headings "TOTAL DECLARED VALUE" and "REDUCTION AMOUNT" (for each product and from the basic bid listing) shall also be entered into the corresponding headings of this form. Where only a portion of the product has been deleted, the entry (which will differ from those on the basic bid listing) may be "pro-rated" or as otherwise substantiated.

(6) Following the listing of all non-applicable Alaska products enter the words "NON-APPLICABLE PRODUCTS PREFERENCE FORM BASIC BID --SUBTOTAL" and enter a subtotal amount for all non-applicable products as listed. Subtotal amount to be determined by adding all non-applicable entries in the "REDUCTION AMOUNT" column.

(7) At the bottom of the final page enter the words "ALTERNATE BID # _____ PREFERENCE GRAND" immediately before the word "TOTAL".

(8) Compute a Grand Total for the Alternate Bid Preference (for Alternate # _____) by subtracting the non-applicable product preference subtotal from the additional product preference subtotal. Enter on the final page as provided and at the corresponding line in column "C" on the Bid Schedule Summary Sheet. Submit worksheet(s) with the Bid Schedule Summary Sheet.

(9) A separate listing for each alternate bid is required.

**STATE OF ALASKA
DEPARTMENT OF FAMILY AND COMMUNITY SERVICES**

SUBCONTRACTOR LIST

Fairbanks Pioneer Home – Server Room AC – Project #ANC 23-24C

The apparent low bidder shall complete this form and submit it so as to be received by the Contracting Officer prior to the close of business on the fifth working day after receipt of written notice from the Department.

Failure to submit this form with all required information by the due date will result in the bidder being declared non-responsive and may result in the forfeiture of the Bid Security.

Scope of work must be clearly defined. If an item of work is to be performed by more than one firm, indicate the portion or percent of work to be done by each.

Check as applicable: ☐ All work on the below-referenced project will be accomplished without subcontracts greater than ½ of 1% of the contract amount.
OR
☐ Subcontractor List is as follows:

LIST FIRST TIER SUBCONTRACTORS ONLY

FIRM NAME, ADDRESS, & PHONE No.	AK BUSINESS LICENSE No. & CONTRACTOR'S REGISTRATION No.	SCOPE OF WORK TO BE PERFORMED

CONTINUE SUBCONTRACTOR INFORMATION ON REVERSE

For projects with federal-aid funding, I hereby certify Alaska Business Licenses and Contractor's registrations will be valid for all subcontractors prior to award of the subcontract. For projects without federal-aid funding (State funding only), I hereby certify the listed Alaska Business Licenses and Contractor's Registration were valid at the time bids were opened for this project.

Signature of Authorized Company Representative

Title

Company Name

Company Address (Street or PO Box, City, State, Zip)

Date

Phone Number

FIRM NAME, ADDRESS, & PHONE No.	AK BUSINESS LICENSE No. & CONTRACTOR'S REGISTRATION No.	SCOPE OF WORK TO BE PERFORMED

Scope of Work

**Fairbanks Pioneer Home
Server Room AC
Project No. ANC 23-24C**

PROJECT: Server Room AC

FACILITY NAME: Fairbanks Pioneer Home

PROJECT MANAGER: Mark Moon, DFCS Facility Manager
907 269-7812 mark.moon@alaska.gov

FACILITY CONTACT: Andrew Carie, Maintenance Foreman
907 458-2227 andrew.carie@alaska.gov

ADDRESS: 2221 Eagan Avenue Fairbanks, Alaska 99701

OBJECTIVE:

General objective of the proposed project is to improve and resolve the indoor environmental quality issues in particular overheating.

SCOPE OF WORK:

1.1. GENERAL

The Contractor is required to demolish, supply, deliver, install, test, commission and set to work the systems complete with all necessary permits, ancillary and items, whether expressly indicated on the drawings or specification or not.

1.2 DEMOLITION AND RESTORATION WORKS

The Contractor shall.

- Demolish and remove all existing ductworks, pipe works, conduits, cables, and other accessories not necessary for the project.
- Cut wall and floor openings for pipe/duct penetrations and embedment's.
- Fabricate and finish openings/penetration to acceptable state according to DFCS PM.

1.3 DESIGN

- The Contractor shall ensure that the system operates in accordance with the design intent.

1.4 INSTALLATION OF AIR CONDITIONING EQUIPMENT

- Check and verify equipment capacities, resistances in accordance to the design.
- Install AC equipment.
- Manage AC equipment installation and commissioning with supplier.

1.5 SUPPLY AND INSTALLATION OF AIR CON SYSTEM

The Contractor shall supply, deliver, and install the following:

- All equipment as necessary.
- Supply air fans including electrical, control, acoustic box, hanger and supports, accessories.
- Refrigerant pipe works including insulation, joints, trays/glands, hangers/supports and accessories necessary for a fully functional AC system.
- Ductworks, volume control dampers, fire dampers, insulation, hangers and supports and related accessories to be included.
- Condensate drainpipe works, insulation and accessories if required.
- Equipment electrical works including power supply, controls, and accessories.

- And other necessary items for a complete and fully functional system.

1.6. POWER SUPPLY AND CONTROLS

- The Contractor shall be responsible for verifying location, position, and sizing of power supply and Building Management System connections, if any.
- It is therefore the Contractor's responsibility to ensure sufficiency of power supply associated with the air conditioning system.
- The contractor shall install necessary cables, conduits, modules, DDC (if any) and other accessories to connect the AC system to the existing BMS system.
- Provision of manual override switch at Fire Services control room to switch off all fans of the new air conditioning system in the event of a fire alarm.

1.7 NOISE AND VIBRATION

The Contractor is responsible for ensuring noise and vibration criteria are met as defined in the Specifications, if any.

Noise and vibration control shall include but not limited to the following.

- Check and verify air distribution duct velocities applied.
- Internal duct insulation.
- Wall and floor penetration acoustic treatment.
- Plantrooms noise transmission thru gaps – seals or any other type of noise insulating materials.
- Check and identify if existing AHU or other equipment needs anti – vibration elements to meet the required noise level.

1.8 TESTING AND COMMISSIONING

The Contractor shall:

- Develop commissioning plan and procedure.
- Pre-commissioning test of the system.
- Performance and functional test of the system.

Training, 4 hours

1.9 OPERATION AND MAINTENANCE

- The Contractor shall prepare and submit operations and maintenance manual including as-built documents to the DFCS PM at final inspection, 4 copies.
- The Contractor shall include maintenance period of 6 months from hand-over date.
- The Defects and Liability Period shall be one year from substantial Inspection.

1.10 OTHERS

- Patch and painting and identification of ductwork, pipework, and equipment and the like to be included markings at least every ten feet and EVERY change of direction.
- Necessary Fire Stopping to be included.

PROJECT SCHEDULE

Tenderers must submit detailed working schedule clearly showing all items of works required to finish the scope of works mentioned in the Contract including clear sequence of the works, date of completion, time for preparation of shop drawings and submittals.



MECHANICAL ABBREVIATIONS

ABBREVIATION	FULL NAME	ABBREVIATION	FULL NAME
#	NUMBER	ID	INSIDE DIAMETER
&	AND	LAT	LEAVING AIR TEMPERATURE
(E)	EXISTING	MAX	MAXIMUM
@	AT	MCA	MINIMUM CIRCUIT AMPACITY
A	AIR	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
APPR	APPROVED	MTR	MOTOR
APPROX	APPROXIMATE	NC	NORMALLY CLOSED
ASSOC	ASSOCIATED	NC	NOISE CRITERIA
AUTO	AUTOMATIC	NPSH	NET PUMP SUCTION HEAD
C	COMMON	NTS	NOT TO SCALE
CI	CAST IRON	OAT	OUTSIDE AIR TEMPERATURE
CLG	COOLING	OC	ON CENTER
DB	DECIBEL	OD	OUTSIDE DIAMETER
DB	DRYBULB	OSA	OUTSIDE AIR
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PH	PHASE
EA	EXHAUST AIR	RPM	REVOLUTIONS PER MINUTE
EAT	ENTERING AIR TEMPERATURE	SIM	SIMILAR
EF	EXHAUST FAN	SP	STATIC PRESSURE
ELEC	ELECTRICAL	SPEC	SPECIFICATIONS
EXIST	EXISTING	SS	STAINLESS STEEL
FD	FLOOR DRAIN	TYP	TYPICAL
FLA	FULL LOAD AMPERAGE	VERT	VERTICAL
FLEX	FLEXIBLE	VOL	VOLUME
GA	GAUGE	W/	WITH
GALV	GALVANIZED	W/O	WITHOUT
GI	GALVANIZED IRON	WB	WETBULB

MECHANICAL LINETYPES

ABBREVIATION	FULL NAME	LINETYPE
LR	LIQUID REFRIGERANT	---
VR	VAPOR REFRIGERANT	- - -
	EXISTING	---

MECHANICAL SYMBOLS

- CONNECTION TO EXISTING
- DUCT FLOW ARROW
- THERMOSTAT
- SENSOR
- MOTORIZED DAMPER

DUCT ACCESSORY LEGEND

- MOTORIZED CONTROL DAMPER

FAN SCHEDULE

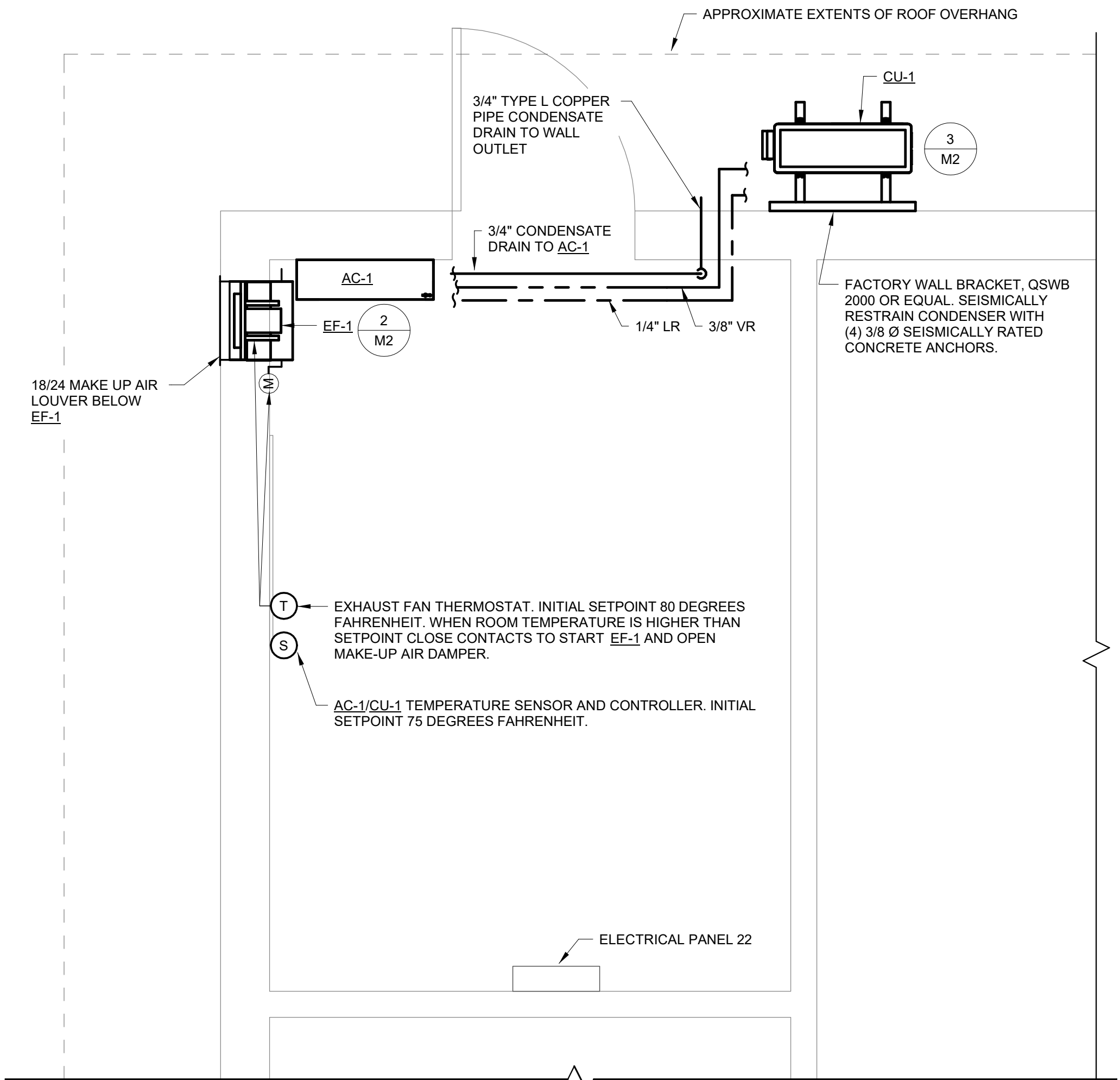
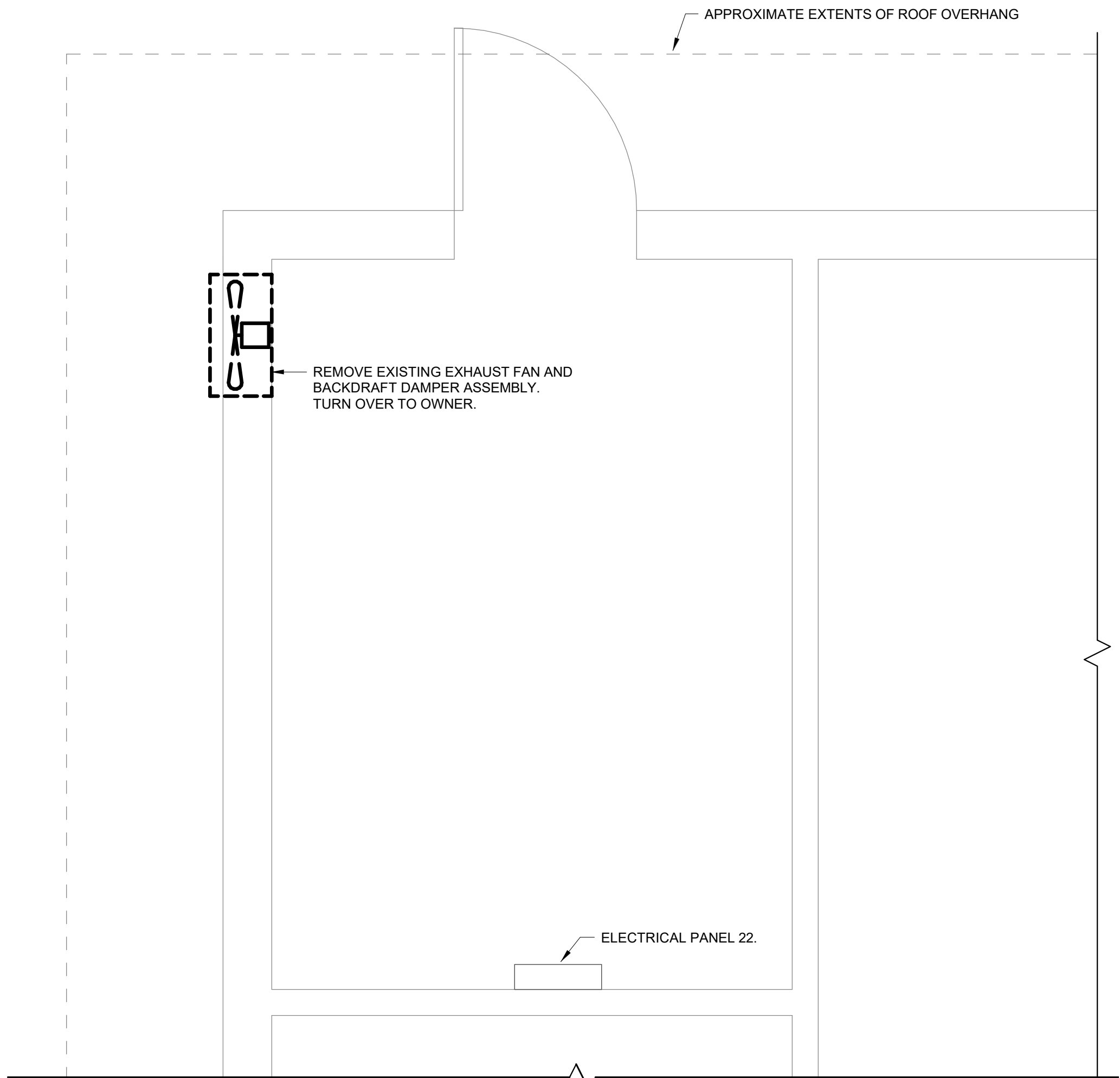
SYMBOL	AREA SERVED	SERVICE	TYPE	CFM	ESP {1} (IN H2O)	TSP {2} (IN H2O)	WHEEL TYPE	MOTOR DATA	BASIS OF DESIGN	OPERATING WEIGHT {4} (LB)	FAN RPM	MAX BHP	MIN FILTER AREA (SQ FT)	MAX SPL (db)	REMARKS
EF-1	COMM ROOM	EXHAUST	SIDEWALL	800	0.22	0.22	PROP	1/12 HP 115V/1Ø/60	GREENHECK SE1-12-432-G	30	1350	-----	-----	61 {4}	

{1} EXTERNAL STATIC PRESSURE. NOTE EXTERNAL STATIC PRESSURE INCLUDES DUCTWORK AND COMPONENTS EXTERNAL TO THE FAN CABINET.
{2} TOTAL STATIC PRESSURE. NOTE THAT COILS, FILTERS, MIXING BOXES, DAMPERS, ESP AND OTHER ACCESSORIES ARE INCLUDED IN THE TOTAL STATIC PRESSURE DETERMINATION.
{3} OPERATING WEIGHT INDICATED. PLUS 10% IS MAXIMUM ALLOWED WEIGHT IF USING A SEISMIC DETAIL PROVIDED AS PART OF CONTRACT DOCUMENTS.
{4} MAXIMUM THIRD OCTAVE BAND INLET SOUND POWER LEVEL.

MISCELLANEOUS EQUIPMENT SCHEDULE

SYMBOL	ITEM	CAPACITY / SIZE	ELECTRICAL DATA	OPERATING WEIGHT {1} (LB)	BASIS OF DESIGN	REMARKS
AC-1	ROOM EVAPORATOR	1 TON	MCA: 1.4A FLA: 1.07A 115V/1Ø/60	25	MITSUBISHI M SERIES MSZ-JP12WA	1. PROVIDE WITH WIRED CONTROLLER AND SYSTEM CONTROL INTERFACE AS REQUIRED FOR PROPER OPERATION.
CU-1	CONDENSER UNIT	1 TON	MCA: 14A MOCP: 15A 115V/1Ø/60	75	MITSUBISHI M SERIES MUZ-JP12WA	1. PROVIDE WITH FACTORY WALL MOUNT, QSWB 2000 OR EQUAL.

{1} OPERATING WEIGHT INDICATED. PLUS 10% IS MAXIMUM ALLOWED WEIGHT IF USING A SEISMIC DETAIL PROVIDED AS PART OF CONTRACT DOCUMENTS.



1 PARTIAL1ST FLOOR MECHANICAL DEMOLITION PLAN
1/2" = 1'-0"

2 PARTIAL1ST FLOOR MECHANICAL PLAN
1/2" = 1'-0"

PIONEER HOME
COMPUTER ROOM
COOLING

ISSUE DATE 02 NOV 2022
COMM. NUMBER 382202
DESIGNED BY RJR
DRAWN BY LMO
SCALE 0" 1"

MECHANICAL
PLANS,
ABBREVIATIONS,
LEGENDS, AND
SCHEDULES

M1

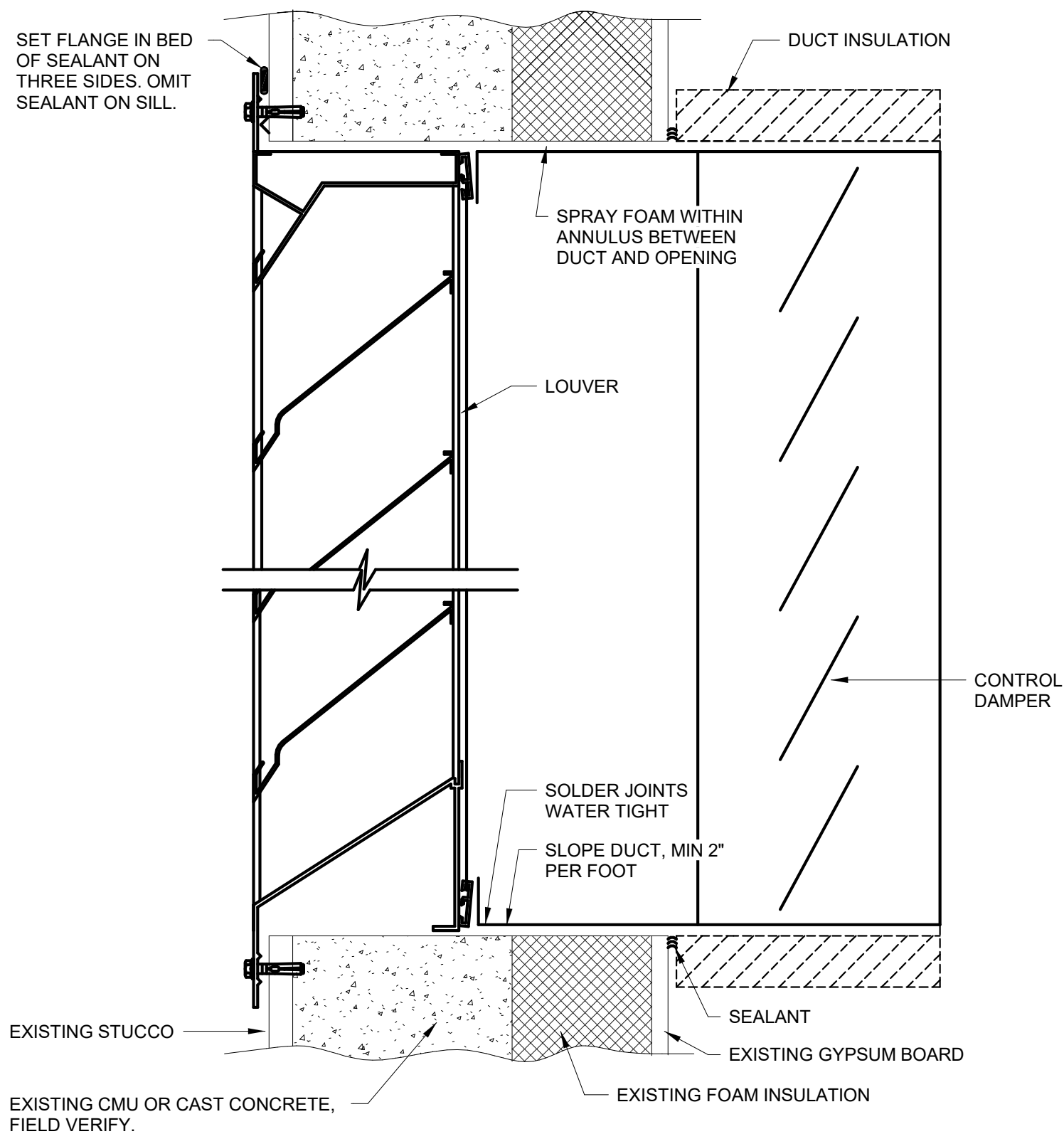


PIONEER HOME COMPUTER ROOM COOLING

ISSUE DATE 02 NOV 2022
COMM. NUMBER 382202
DESIGNED BY RJR
DRAWN BY LMO
SCALE 0" 1"

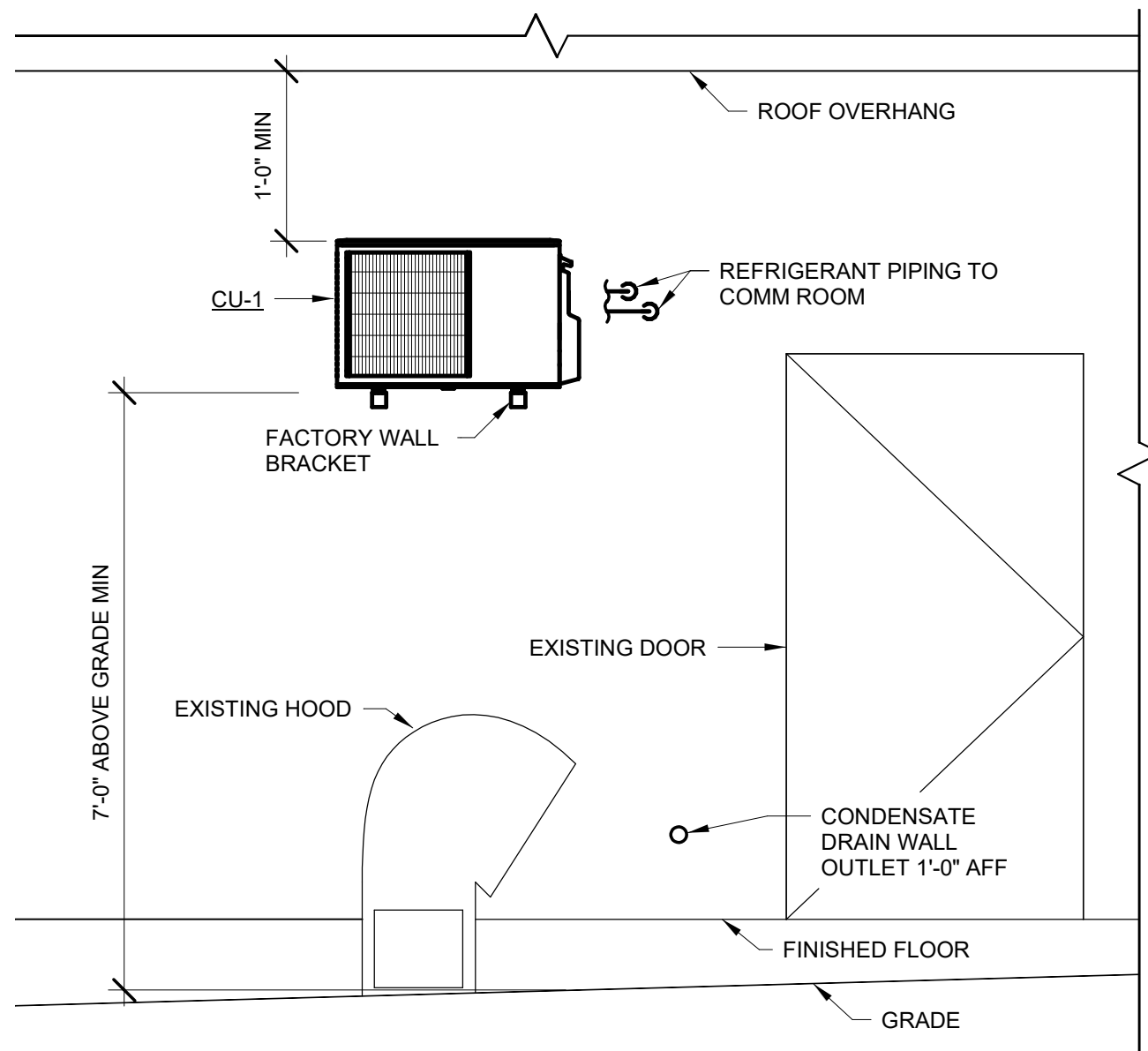
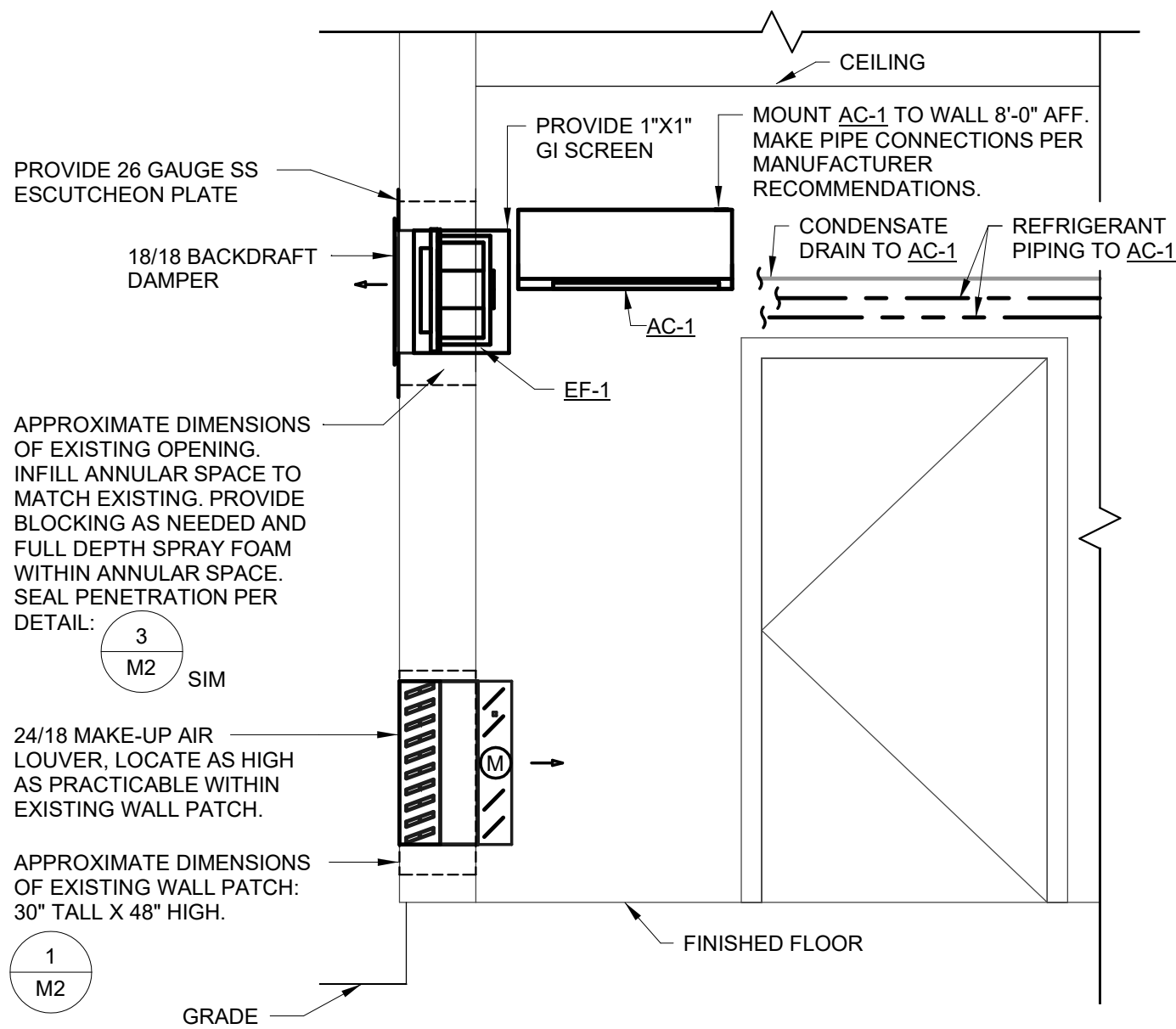
MECHANICAL DETAILS

M2



GENERAL NOTES

1. FIELD VERIFY LOCATION OF MAKEUP LOUVER. COORDINATE LOUVER LOCATION WITH EXISTING TELECOM BACKBOARD, EQUIPMENT, AND CONDUITS. VERIFY EXISTING INFILL ASSEMBLY.
2. MODIFY STUCCO AS REQUIRED FOR FLUSH INSTALLATION OF FLANGED LOUVER. SEAL LOUVER PERIMETER AT EXTERIOR FACE, OMIT EXTERIOR SEALANT AT LOUVER SILL.
3. PROVIDE SPRAY FOAM BETWEEN DUCT & INTERIOR INSULATION.
4. LAP & SEAL WEATHER BARRIER & VAPOR RETARDER TO MAINTAIN CONTINUITY IF PRESENT AFTER ASSEMBLY IS VERIFIED.



1
M2 LOUVER DETAIL
NO SCALE

2
M2 COMPUTER ROOM MECHANICAL ELEVATION
NO SCALE

3
M2 CU-1 ELEVATION
NO SCALE

ELECTRICAL SYMBOL LEGEND

POWER SYMBOLS	
	RECEPTACLE; DUPLEX, QUADPLEX +2'-0" AFF UON
	GFCI RECEPTACLE; DUPLEX, QUADPLEX +4'-0" AFF UON
	SPECIAL RECEPTACLE (NEMA TYPE NOTED ON DRAWING) +4'-0" AFF UON
	JUNCTION BOX
	EQUIPMENT CONNECTION
	MOTOR CONNECTION
	COMBINATION MOTOR STARTER / DISCONNECT
	MOTOR STARTER
	NON-FUSIBLE DISCONNECT
	FUSIBLE DISCONNECT
	MANUAL MOTOR RATED SWITCH
	MANUAL MOTOR RATED SWITCH WITH THERMAL OVERLOADS ("TT-SWITCH")
	PANELBOARD
ANNOTATION SYMBOLS	
L1-24	'L1' DENOTES PANEL NAME, '24' DENOTES CIRCUIT NUMBER
	SPECIFIC NOTE KEY (REFERENCE # UNDER 'SPECIFIC NOTES' ON EACH SHEET)
AHU-1	EQUIPMENT IDENTIFIER, SEE ELECTRIC MOTOR & EQUIPMENT SCHEDULE
(E)	EXISTING TO REMAIN
(R)	RELOCATE/RELOCATED
WP	WEATHERPROOF

LOAD CALCULATIONS

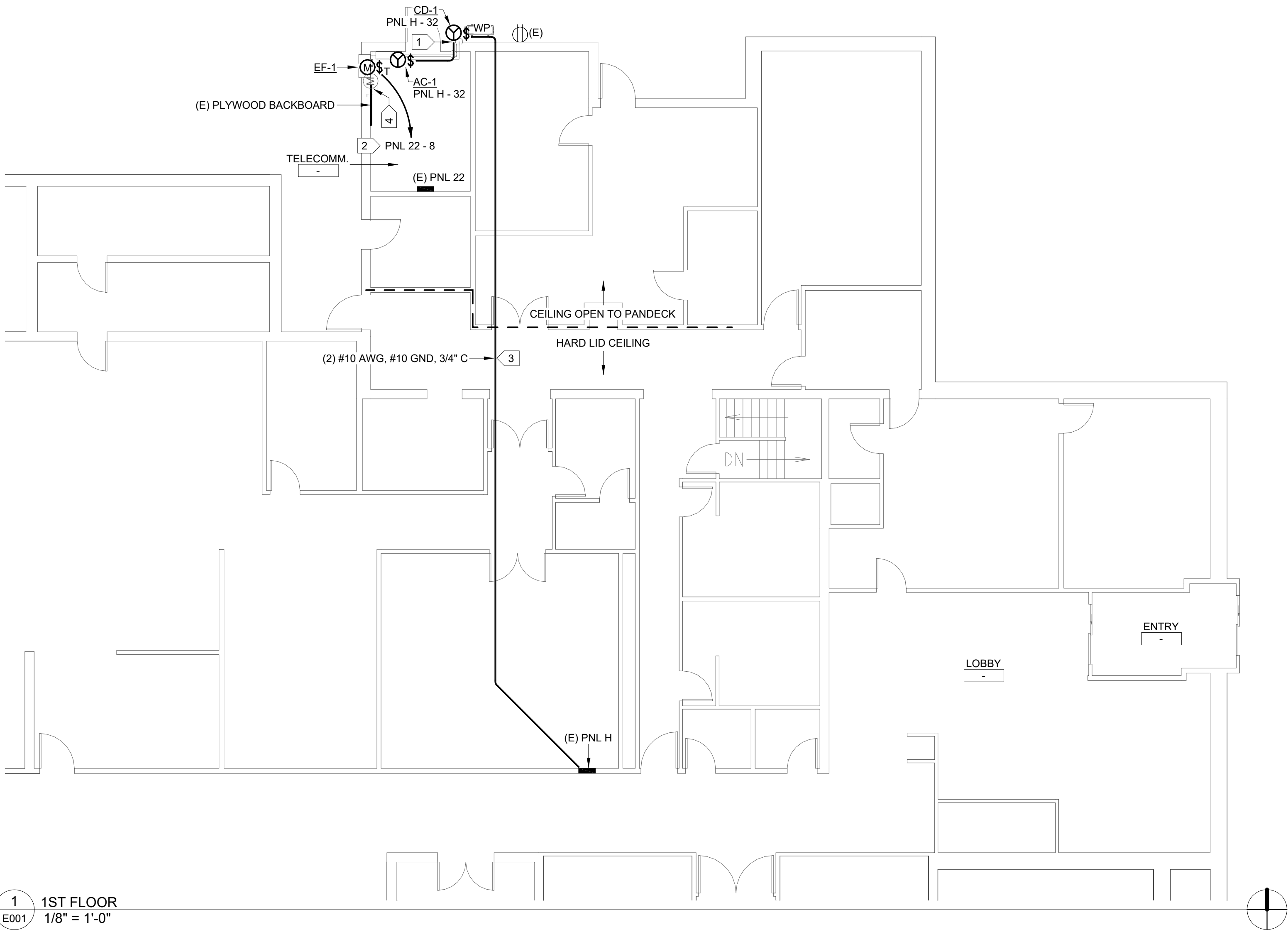
PANELBOARD NAME: 22	
DISTRIBUTION SYSTEM:	208Y/120-VOLTS, 3-PHASE, 4-WIRE
BUSSING RATING:	100-AMPS
OVERCURRENT PROTECTION RATING:	30-AMPS
OVERCURRENT PROTECTION TYPE:	FUSES
MEASURED LOAD DATA:	
DURATION:	3-DAYS
DATE STARTED:	05-OCT-2022
DATE ENDED:	08-OCT-2022
DATA MEASURE INTERVAL:	1-MIN
AVERAGE POWER:	~3.85-kW
MAXIMUM POWER SPIKE:	~5.38-kW
PHASE A:	~1.55-kW (28.8%)
PHASE B:	~0.38-kW (7.1%)
PHASE C:	~2.37-kW (44.1%)
MAXIMUM POWER SPIKE DURATION:	~15-MIN
ASSUMED POWER FACTOR:	0.9
MAXIMUM POWER @ 125%, 0.9-PF:	~7.47-kVA
MAXIMUM CURRENT @ 125%, 0.9-PF:	~20.7-AMPS
NEW LOAD(S) ADDED:	
EF-1, 1/12-HP, 120-VOLTS, 1-PHASE:	4.4 FULL LOAD AMPS (NEC)
TOTAL NEW LOAD:	0.53-kVA
TOTAL NEW LOAD @ 125%:	0.66-kVA
ADJUSTED TOTALS:	
ADJUSTED TOTAL POWER:	~8.13-kVA
ADJUSTED TOTAL AMPS:	~22.6-AMPS
PANELBOARD NAME: H	
DISTRIBUTION SYSTEM:	208Y/120-VOLTS, 3-PHASE, 4-WIRE
BUSSING RATING:	225-AMPS
OVERCURRENT PROTECTION RATING:	175-AMPS
OVERCURRENT PROTECTION TYPE:	FUSES
MEASURED LOAD DATA:	
DURATION:	LIVE LOAD MEASUREMENTS ONLY
PHASE A MEASURED CURRENT:	8.8-AMPS
PHASE B MEASURED CURRENT:	13.3-AMPS
PHASE C MEASURED CURRENT:	10.9-AMPS
APPROXIMATE TOTAL LOAD:	~11.89-kW
ASSUMED POWER FACTOR:	0.9
MAXIMUM POWER @ 125%, 0.9-PF:	~16.51-kVA
MAXIMUM CURRENT @ 125%, 0.9-PF:	~45.8-AMPS
NEW LOAD(S) ADDED:	
AC-1, 0.12-kVA, 120-VOLTS, 1-PHASE:	0.13-kVA
CD-1, 1.20-kVA, 120-VOLTS, 1-PHASE:	1.34-kVA
TOTAL NEW LOAD:	1.48-kVA
TOTAL NEW LOAD @ 125%:	1.85-kVA
ADJUSTED TOTALS:	
ADJUSTED TOTAL POWER:	~18.34-kVA
ADJUSTED TOTAL AMPS:	~51.0-AMPS

ELECTRICAL NOTES

- A. ELECTRICAL CONNECTION POINTS OF MECHANICAL EQUIPMENT SHOWN IN THE ELECTRICAL DRAWINGS IS DIAGRAMMATIC ONLY. SEE MECHANICAL SHEETS FOR ACTUAL LOCATIONS, CONFIGURATIONS, AND CONNECTION POINTS OF EQUIPMENT.
- B. IN GENERAL, THE CIRCUIT(S) IN WHICH OUTLETS SHALL BE CONNECTED ARE LABELED. THE CONTRACTOR SHALL FIELD ROUTE AND LOCATE BRANCH CIRCUITS AND HOMERUNS.
- C. PHASE, NEUTRAL, AND EQUIPMENT GROUNDING CONDUCTORS FOR ALL 15 & 20-AMP CIRCUITS SHALL BE AS FOLLOWS:
- a. CIRCUITS <75FT SHALL UTILIZE #12 AWG CONDUCTORS (MINIMUM).
 - b. CIRCUITS >75FT SHALL UTILIZE #10 AWG CONDUCTORS (MINIMUM).
- D. SHARED NEUTRAL CONDUCTORS ARE NOT PERMITTED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL CIRCUITS REQUIRING A NEUTRAL.
- E. UTILIZING THE RACEWAY OR CONDUIT AS THE ONLY EQUIPMENT GROUNDING CONDUCTOR IS NOT PERMITTED. PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR FOR EACH CIRCUIT.
- F. ALL ELECTRICAL PENETRATIONS IN FIRE RATED WALLS SHALL BE SEALED AROUND THE CONDUITS. PROVIDE 'STI' - 'SIL SILICONE FIRE STOP SEALANT' OR EQUAL.
- G. CONDUITS ROUTED WITHIN FINISHED SPACES SHALL BE CONCEALED. CONDUITS ROUTED WITHIN THE TELECOMM. ROOM OR EXTERIOR LOCATIONS MAY BE SURFACE MOUNTED.
- H. BRANCH CIRCUITS SHALL BE:
- a. CONDUCTORS:
 - INTERIOR LOCATIONS: COPPER CONDUCTORS WITH THHN (MINIMUM) INSULATION.
 - EXTERIOR LOCATIONS: COPPER CONDOCOTRS WITH XHHW-2 INSULATION.
 - b. CONDUIT:
 - INTERIOR LOCATIONS: ELECTRICAL METALLIC TUBING (EMT), UNLESS OTHERWISE NOTED. WITHIN 18" OF VIBRATING MOTOR CONNECTIONS, FLEXIBLE METAL CONDUIT (FMC) SHALL BE USED.
 - EXTEIOR LOCATIONS: RIGID METAL CONDUIT (RMC), UNLESS OTHERWISE NOTED
 - c. CABLES:
 - METAL-CLAD (MC) CABLE MAY BE USED ONLY WITHIN THE ABOVE CEILING SPACE IN LIEU OF CONDUCTORS + CONDUIT.
- I. PROVIDE LAMINATED LABELS NEATLY AFFIXED NEAR THE TOP OF EACH OUTLET BOX FACEPLATE INDICATING THE ASSOCIATED BRANCH CIRCUIT PANELBOARD NAME AND CIRCUIT NUMBER (IE "H-32").
- J. WHERE REQUIRED, CIRCUIT BREAKERS FOR NEW BRANCH CIRCUITS SHALL BE COMPATIBLE WITH THE EXISTING WESTINGHOUSE PANELBOARDS. THE OWNER HAS A COLLECTION OF SPARE CIRCUIT BREAKERS AND MAY SUPPLY THEM FOR USE UPON CONTRACTOR REQUEST. OTHERWISE, THE CONTRACTOR SHALL PROVIDE BREAKERS.
- K. PROVIDE UPDATED, TYPED, AND LAMINATED PANEL SCHEDULES FOR ALL PANELBOARDS MODIFIED BY THIS PROJECT.

ELECTRIC MOTOR & EQUIPMENT SCHEDULE

TAG	DESCRIPTION	RATING	PHASE	FLA	MOPD	CONTROLS	DISCONNECT	MINIMUM CONDUCTOR & RACEWAY	PANEL - CIRCUIT	COMMENTS
120 V										
AC-1	INDOOR AC UNIT	1 TON	1	1.1 A	--	CD-1	MOTOR RATED SWITCH	(2) #12 AWG, #12 GND, 1/2" C	PNL H - 32	MCA = 1.4 AMPS AC-1 POWERED FROM CD-1
CD-1	OUTDOOR AC UNIT	1 TON	1	11.2 A	15 A	INTEGRAL	WP MOTOR RATED SWITCH	(2) #10 AWG, #10 GND, 3/4" C	PNL H - 32	MCA = 14 AMPS CD-1 POWERS AC-1
EF-1	EXHAUST FAN	1/12 HP	1	4.4 A	15 A	CONTROL / POWER RELAY	TT-SWITCH	(2) #12 AWG, #12 GND, 1/2" C	PNL 22 - 8	

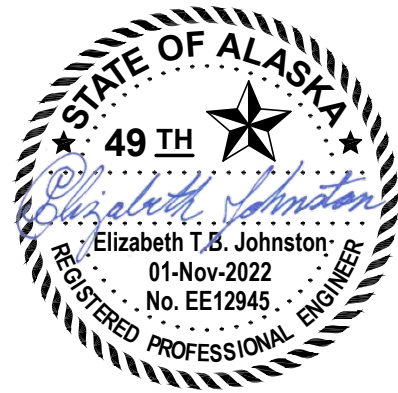


SPECIFIC SHEET NOTES

- WIRE AND CONNECT AC-1 TO TERMINAL BLOCK ON CD-1 PER MANUFACTURER'S INSTRUCTIONS.
- REMOVE 20-AMP "SPARE" CIRCUIT BREAKER IN POLE SPACE '8' AND REPLACE WITH 15-AMP CIRCUIT BREAKER FOR POWERING EXHAUST FAN.
- COORDINATE ROUTING OF BRANCH CIRCUIT ABOVE HARD LID CEILING WITH IN FIELD CONDITIONS. COORDINATE WITH OWNER FOR ACCESS TO SPACE ABOVE HARD-LID CEILING.
- NEW MECHANICAL AIR VENT IN CORNER OF ROOM NEAR FLOOR. SEE 1/M001. REMOVE PORTION OF THE PLYWOOD BACKBOARD AS NECESSARY TO INSTALL VENT. RE-SECURE PLYWOOD BACKBOARD AFTER MODIFICATIONS. PROTECT ALL COMMUNICATIONS EQUIPMENT, CABLING, AND CONDUITS MOUNTED ON OR ASSOCIATED WITH THE BACKBOARD. RELOCATE EQUIPMENT OR CABLES ON BACKBOARD AS NECESSARY TO ACCOMMODATE MODIFICATIONS. NOTIFY OWNER PRIOR TO MAKING ANY MODIFICATIONS.

Design
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PIONEER HOME
COMPUTER ROOM
COOLING

ISSUE DATE 02 NOV 2022
COMM. NUMBER 382202
DESIGNED BY MWK
DRAWN BY MWK
SCALE 0" 1"

ELECTRICAL
PLANS

E001