

REQUEST FOR PROPOSALS (RFP)

RFP No. 2023-014

Assessment and Design Services for HVAC Systems at Airbus Engineering

Date Posted: September 11, 2023 Proposal Due: October 04, 2023

> Rita L. Barren, Procurement Officer rbarren@mobairport.com 09/11/2023

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REQUEST FOR PROPOSALS RFP No. 2023-014 Assessment and Design Services for HVAC Systems at Airbus Engineering

The Mobile Airport Authority (hereinafter referred to as the "MAA") is requesting proposals from a qualified public entity or private firm, to establish a contract for Assessment and Design Services for HVAC Systems at Airbus Engineering.

It shall be the responsibility of the proposer to deliver his proposal to MAA's office by the announced time. Delivery Location: Mobile Airport Authority ("MAA"), 1891 9th Street, Mobile, Alabama 36615.

The Proposals shall be to the attention of Rita Barren, Procurement Officer in a sealed envelope identified on the outside with the Proposer's Business Name, License #, Proposer Identity - Request for Proposals for Assessment and Design Services for HVAC Systems at Airbus Engineering and the due date. Proposals will be publicly opened. The Request for Proposals (RFP No. 2023-014) may be downloaded from MAA's website at https://www.mobileairportauthority.com/downtown/rfp/.

I. <u>GENERAL INFORMATION:</u>

Sealed proposals shall be received by the MAA to wit: Mobile Airport Authority ("MAA"), 1891 9th Street, Mobile, Alabama 36615, on or before the hour of 2:00 p.m. on **October 04, 2023**. Any RFP received after this closing time will be returned unopened.

A **Pre-Proposal Meeting will be held on September 21, 2023** @ **2:00 p.m.** at 1891 9th Street, Mobile, Alabama 36615 to discuss the Description of Work. Site walkthrough will immediately follow. Attendance of the pre-proposal meeting is non mandatory.

Any oral response given at the Pre-Proposal Conference that is not confirmed in the written summary, or by a subsequent addendum shall not be official or binding on the MAA. Only written responses shall be official and all other forms of communication with any officer, employee, or agent of the MAA shall not be binding on the MAA. RFP Proposers, their consultants, sub-consultants, or other parties representing the proposed team for this solicitation may not contact any Mobile Airport Authority Employee, Selection Committee member, or Architect, with the exception of the Procurement Officer, as identified in this RFP, concerning this Project from the date of this advertisement until after the date of selection.

II. CONTACT FOR QUESTIONS

In order to ensure a fair and objective RFP evaluation, all questions for clarification related to this RFP shall be made in writing. All questions must be submitted in writing via E-mail prior to **5:00 pm** on **September 26, 2023.**

Emailed to: <u>russell@mobairport.com</u>

Such clarification will be submitted to all known responding firms simultaneously. Answers to questions will also be posted on MAA's website, as well as any Addenda at <u>www.mobileairportauthority.com</u>. Vendors are responsible for checking Mobile Airport Authority website for any addendum.

III. PROPOSAL SUBMITTALS

All proposal submittals should be in a **<u>sealed</u>** envelope and the sealed envelope shall be marked as follows:

Mobile Airport Authority ATTN: Rita L. Barren, Procurement Officer (SEALED BID) - Deadline: October 04, 2023 @ 2:00 pm Project Name: Assessment and Design Services for HVAC Systems at Airbus Engineering RFP No. 2023-014 / Proposer's Name & License #

Further details are included in the MAA's Request for Qualifications package. MAA reserves the right to reject all submissions and to waive any informalities.

IV. PROJECT DESCRIPTION & OVERVIEW:

The project consists of the complete assessment and recommendation for the existing HVAC system at Airbus Engineering located at 1801 S. Broad Street Mobile, AL 36615.

V. <u>PURPOSE OF RFP</u>

The purpose for this Request for Qualifications ("RFP") is to solicit statements of qualifications and proposals from interested and qualified Consultants to establish a contract for the assessment, reporting, and recommendations regarding the existing HVAC systems at Airbus Engineering for the Mobile Airport Authority (MAA).

Selection of the Consultant will be a Best Value selection based on the Criteria Evaluation and Scoring addressed in Section XII of this RFP. Best Value means the responsible offeror whose proposal is the most advantageous to MAA.

VI. <u>SCHEDULE OF EVENTS</u>

This request for proposal will be governed by the following schedule:

September 11, 2023
September 21, 2023, at 2:00 p.m.
September 26, 2023, by 5:00 p.m.
September 28, 2023, by 5:00 p.m.
October 04, 2023, at 2:00 p.m.
The Week of October 9, 2023
October 25, 2023 (Tentative)

*All dates are subject to change at the discretion of MAA

VII. SCOPE OF SERVICES

The Mobile Airport Authority is soliciting proposals from qualified professional mechanical engineering firms to provide: (1) an assessment of the existing Heating, Ventilation and Air Conditioning (HVAC) system in the Airbus Engineering building and provide HVAC improvement recommendations; (2) HVAC improvement recommendations and preparation of plans, specifications and estimates for improvements to the HVAC system. The existing MEP set of as-builts drawings for the Airbus Engineering building are attached as **Attachment A**.

The scope of services is meant to provide the proposers with an outline of the anticipated services required for this project. The detailed scope of services will be contained in the executed Contract Agreement. The work to be performed by the Consultant will include all services required for the completion of this project. The scope of work will be in a single, not to exceed, contract.

Proposals should address the ability of the bidder to comply with the requirements contained in the scope of work. The Consultant shall identify a detailed scope in the proposal as part of their understanding and approach to the project.

A. Existing HVAC System Assessment

The Consultant shall conduct a thorough assessment of the existing HVAC system for the purpose of identifying system deficiencies and recommending solutions. Existing As-builts, equipment manuals, specifications etc. will be utilized and provided by MAA staff. The assessment should determine whether or not the existing HVAC system provides adequate cooling, heating, air movement and temperature control, and thermal comfort in accordance with Alabama state building ventilation requirements, Title 24, ASHRAE, ADA and all other applicable codes and regulations. Troubleshooting the system

for deficiencies will be arranged with MAA staff to minimize disruption to the Airbus Engineering staff.

The identification of HVAC system deficiencies shall be comprehensive in nature and should consider, at a minimum: current system performance, maintenance requirements (including a review of records of past attempts to improve the system), operations efficiency (including costs of operation), remaining system operational life, inadequate design, and any other deficiencies observed.

The Assessment findings will be written in a draft report and submitted to Mobile Airport Authority at a meeting for discussion and comments. **Five (5) copies** will be provided to the Procurement Officer, and it will also be made available in electronic form (Microsoft Word). Comments will be incorporated, and the final Assessment findings will be presented to the President, as five (5) final copies and in Word electronic format as well. Upon acceptance by President, approval will be given to begin the following task:

B. <u>Proposed HVAC System Improvements Recommendations</u>

The consultant shall prepare a report outlining recommendations for HVAC system improvements, including modifying the existing equipment as an option. Two (2) additional alternatives (assumed for Fee proposal purposes) shall be proposed in the report, including a schematic drawing of each, listing the proposed system and cost estimates (design, installation and Operation and Maintenance costs). The proposed solutions shall be based on the consultant's professional expertise and experience and shall take into consideration numerous factors including existing HVAC performance, installation cost, operational and maintenance costs, efficiency, system operational life, and input from MAA staff. A cost benefit analysis of keeping the existing HVAC system and installing a new one shall also be prepared.

The Recommendations Report findings will be written in a draft report and submitted to the MAA at a meeting for discussion and comment. Three (3) copies will be provided to the Procurement Office, and it will also be made available in electronic form (Microsoft Word). Comments will be incorporated, and the final Recommendation Report will be presented to the MAA, as three (3) final copies and in Word electronic format as well. The final report will be wet stamped and signed by a professional Mechanical Engineer licensed in the State of Alabama.

C. Plans, Specifications and Estimates

This task is applicable to improvements only:

Upon review of the recommendations report as described in the previous task ("Proposed HVAC System Improvements Recommendations"), the MAA shall provide approval to proceed with this task. This task shall include comprehensive engineering/HVAC design services for the development all necessary bidding documents including plans, specifications and estimates (PS&E) to be used for the construction of the improvements and should therefore be complete in detail and contain all necessary information. Drawings shall conform to standard professional practice and applicable rules, codes and regulations (local, state and federal).

MAA intends to bid this part of the scope out for construction; therefore, the proposal must include services related to the bidding phase (i.e., response to RFIs) and shall also include at minimum 4 site visits during construction.

Three (3) sets of the PS&E set shall be submitted for review. After final approval, eight (8) complete sets of bidding documents shall be provided and one final approved set in an electronic format.

D. <u>Project Administration</u>

- **1. Kick-off Meeting:** Upon receipt of a written Notice to Proceed/Purchase Order from MAA, consultant shall conduct a kick-off meeting with MAA to review the scope of the project, develop a project schedule, and confirm deliverables. The project schedule shall include each task and subtasks, milestones, critical path designation and a schedule for progress meetings.
- **2. Project Milestone:** Consultant shall prepare a project execution schedule with major milestones to MAA for approval. Consultant shall prepare regular progress reports and meeting Agendas and Minutes for MAA staff each month. Assume that monthly meetings will occur during the project (maximum of 3 months) of the project and include this in the Schedule and Fee Schedule:
 - A. Schedule and conduct a Pre-Construction Meeting with the successful bidder.
 - B. Schedule and conduct bi-weekly jobsite construction progress meetings to enhance communication and reduce likelihood of problems.

C. Conduct Project Close-Out Meeting to review warranty limitations and responsibilities of interested parties with Mobile Airport Authority staff.

E. Additional Services

Consultant is encouraged to identify any additional work that is not specified in this Scope of Work that would be, in its opinion, necessary to complete the project as defined herein. Consultant may propose additional services that in its opinion will improve the efficiency and quality of the project. If identified, the additional work or services must be included in the proposal but separated out as an additional task in the Consultant's Fee Schedule.

VIII. PROPOSAL FORMAT GUIDELINES

Interested entities or contractors are to provide MAA with a thorough proposal using the following guidelines:

Proposal should be typed and should contain no more than **20 typed pages** using a **12-point font size**, including **transmittal letter** and **resumes of key people**, but excluding Index/Table of Contents, tables, charts, and graphic exhibits. Each proposal will adhere to the following order and content of sections. Proposal should be straightforward, concise and provide "layman" explanations of technical terms that are used. Emphasis should be concentrated on conforming to the RFP instructions, responding to the RFP requirements, and on providing a complete and clear description of the offer. Proposals which appear unrealistic in terms of technical commitments, lack of technical competence or are indicative of failure to comprehend the complexity and risk of this contract may be rejected. The following proposal sections are to be included in the Proposer's response:

A. <u>Vendor Data Form and Cover Letter</u>

Complete **Attachment C**, "Vendor Data Form" and attach this form to the cover letter. A cover letter, not to exceed three pages in length, should summarize key elements of the proposal. An individual authorized to bind the consultant must sign the letter. The letter must stipulate that the proposal price will be valid for a period of at least **180 days**. Indicate the address and telephone number of the contractor's office located nearest to Mobile, Alabama and the office from which the project will be managed.

B. Background and Project Summary Section

The Background and Project Summary Section should describe your understanding of MAA, the work to be done, and the objectives to be accomplished. Refer to Scope of Work of this RFP.

C. <u>Methodology Section</u>

Provide a detailed description of the approach and methodology to be used to accomplish the Scope of Work of this RFP. The Methodology Section should include:

- 1. An implementation plan that describes in detail (i) the methods, including controls by which your firm or entity manages projects of the type sought by this RFP; (ii) methodology for soliciting and documenting views of internal and external stakeholders; (iii) and any other project management or implementation strategies or techniques that the respondent intends to employ in carrying out the work.
- 2. Detailed description of efforts your firm or entity will undertake to achieve client satisfaction and to satisfy the requirements of the "Scope of Work" section.
- 3. Detailed project schedule, identifying all tasks and deliverables to be performed, durations for each task, and overall time of completion, including a complete transition plan. Include your plan to deal with fluctuation in service needs and any associated price adjustments.
- 4. Detailed description of specific tasks you will require from MAA staff. Explain what the respective roles of MAA staff and your staff would be to complete the tasks specified in the Scope of Work.
- 5. Proposers are encouraged to provide additional innovative and/or creative approaches for providing the service that will maximize efficient, cost-effective operations or increased performance capabilities. In addition, MAA will consider proposals that offer alternative service delivery means and methods for the services desired.

D. <u>Staffing</u>

Provide a list of individuals who will be working on this project and indicate the functions that each will perform and anticipated hours of service of each individual. Include a resume for each designated individual. Upon award and during the contract period, if the contractor chooses to assign different personnel to the project, the Contractor must submit their names and qualifications including information listed above to MAA for approval before they begin work.

E. <u>Qualifications</u>

The information requested in this section should describe the qualifications of the firm or entity, key staff and sub-contractors performing projects within the past five years that are similar in size and scope to demonstrate competence to perform these services. Information shall include: Names of key staff that participated in named projects and their specific responsibilities with respect to this scope of work.

A summary of your firm's or entity's demonstrated capability, including the length of time that your firm has provided the services being requested in this Request for Proposal.

For private Proposers, provide at least three references that received similar services from your firm. MAA reserves the right to contact any of the organizations or individuals listed. Information provided shall include:

- o Client Name
- o Project Description
- o Project start and end dates
- o Client project manager name, telephone number, and e-mail address.

Any public entity which submits a proposal should describe in detail how it currently performs services like those identified in the scope of work within its or other jurisdictions, including photographs, written policies of services provided. If you have performed these services under contract for another public entity, please provide references for those entities as set forth above for private Proposers.

F. Financial Capacity

Provide the Proposer's latest audited financial statement or other pertinent information such as internal unaudited financial statements and financial references to allow MAA to reasonably formulate a determination about the financial capacity of the Proposer. Describe any administrative proceedings, claims, lawsuits, or other exposures pending against the Proposer.

G. Fee Proposal

All Proposers are required to use the form in **Attachment B** to be submitted with their proposal. Pricing instructions should be clearly defined to ensure fees proposed can be compared and evaluated. Proposals shall be valid for a minimum of 180 days following submission.

H. <u>Disclosure</u>

Please disclose any and all past or current business and personal relationships with any current MAA staff, official, or family member of any current MAA staff, official, or family member. Any past or current business relationship may not disqualify the firm from consideration.

I. <u>Sample Agreement</u>

The firm selected by MAA will be required to execute an Agreement for Services (Agreement) with MAA. The form of the Agreement is enclosed as **Attachment G** but may be modified to suit the specific services and needs of MAA. If a Proposer has any exceptions or conditions to the Agreement, these must be submitted for consideration with the proposal. Otherwise, the Proposer will be deemed to have accepted the form of Agreement.

J. <u>Checklist of Forms to Accompany Proposal</u>

As a convenience to Proposers, following is a list of the forms, included as attachments to this RFP, which should be included with proposals:

Attachment B - Pricing Proposal Form Attachment C - Vendor Data Form Attachment D - Signature & Acknowledgement Affidavit Form Attachment E - Non-Collusion Affidavit

IX. PROCESS FOR SUBMITTING PROPOSALS

A. <u>Content of Proposal</u>

The proposal must be submitted using the format as indicated in the proposal format guidelines.

B. <u>Preparation of Proposal</u>

Each proposal shall be prepared simply and economically, avoiding the use of elaborate promotional material beyond those sufficient to provide a complete, accurate and reliable presentation.

C. <u>Number of Proposals</u>

Submit one original, five (**5**) hard copies plus **one disk copy** of flash drive of your proposal in sufficient detail to allow for thorough evaluation and comparative analysis. In the event of a conflict between the original and any hard copy or disk copy, the original shall control.

D. <u>Submission of Proposals</u>

Complete written proposals must be submitted in sealed envelopes marked and received no later than 2:00 p.m. (local time) on October 04, 2023, to the address below. Proposals will not be accepted after this deadline. Faxed or e-mailed proposals will not be accepted.

Mobile Airport Authority ATTN: Rita L. Barren, Procurement Officer (SEALED BID) - Deadline: October 04, 2023 @ 2:00 pm Project Name: Assessment and Design Services for HVAC Systems at Airbus Engineering RFP No. 2023-014 / Proposer's Name & License

E. <u>Inquiries</u>

Questions about this RFP must be directed in writing, via e-mail to: Russell Stallings, Project Manager at <u>russell@mobairport.com</u>. MAA reserves the right to amend or supplement this RFP prior to the proposal due date. All amendments, responses to questions received, and additional information will be posted to MAA's Web Site; Proposers should check this web page daily for new information. MAA will endeavor to answer all written questions timely received no later than September 26, 2023. MAA reserves the right not to answer all questions.

From the date that this RFP is issued until a firm or entity is selected and the selection is announced, firms or public entities are not allowed to communicate outside the process set forth in this RFP with any MAA employee other than the contracting officer listed above regarding this RFP. MAA reserves the right to reject any proposal for violation of this provision. No questions other than written will be accepted, and no response other than written will be binding upon MAA.

F. <u>Conditions for Proposal Acceptance</u>

This RFP does not commit MAA to award a contract or to pay any costs incurred for any services. MAA, at its sole discretion, reserves the right to accept or reject any or all proposals received as a result of this RFP, to negotiate with any qualified source(s), or to cancel this RFP in part or in its entirety. MAA may waive any irregularity in any proposal. All proposals will become the property of MAA. If any proprietary information is contained in the proposal, it should be clearly identified.

X. EVALUATION CRITERIA

MAA's evaluation and selection process will be conducted in accordance with its procedures. In accordance with the procedures, the lowest responsible bidder will be determined based on evaluation of qualitative factors in addition to price. At all times during the evaluation process, the following criteria will be used.

	Criteria Description	Max Point
Qualifications of Entity & Key Personnel	Includes ability to provide the requested scope of services, the Proposer's financial capacity, recent experience conducting work of similar scope, complexity, and magnitude for other public agencies of similar size, references.	15
Approach to Providing the Requested Scope of ServicesIncludes an understanding of the RFP and of the project's scope of services, knowledge of applicable laws and regulations related to the scope of services.		10
Price Proposal	Proposals will be evaluated on the basis of the Total Estimated Annual Price submitted in Appendix D.	50
Innovative and/or Creative Approaches	Innovative and/or creative approaches to providing the services that provide additional efficiencies or increased performance capabilities.	10
Relevant Experience	Relevant Experience with Comparable Projects of Similar Size.	10
References		5
	Total Points:	100

The final contract for these Services shall be awarded only after negotiations with the selected firm to establish a fair and reasonable price. MAA actively encourages submission of proposals from disadvantaged business enterprises and companies owned by Native Americans, minorities, women, immigrants, and veterans. MAA does not discriminate on the basis of race, color, religion, creed, sex, sexual orientation, gender identity, age, ancestry, national origin, disability, or veteran status in consideration of this award. Equal Opportunity Employer.

RFP submissions that have not been received in the required format and quantity by the aforementioned deadline date and time will be rejected. Additionally, failure to submit all of the information stipulated per Section V – Format of Responses, shall result in the submission being considered non-responsive and may result in the RFP submission being rejected. Unless otherwise stated or required by the instructions, all attachments and/or embellishments other than those required in the RFP shall be excluded.

The MAA President or their designees shall make the final selection. The selection of any professional services will be subject to negotiation of fair and reasonable compensation.

XI. EVALUATION OF PROPOSALS AND SELECTION PROCESS

In accordance with its Policy, MAA's will adhere to the following procedures in evaluating proposals. An Evaluation/Selection Committee (Committee), which will include members of MAA's staff and possibly one or more outside experts, will screen and review all proposals according to the weighted criteria set forth above. While price is one basic factor for an award, it is not the sole consideration.

A. <u>Responsiveness Screening</u>

Proposals will first be screened to ensure responsiveness to the RFP. MAA may reject as non-responsive any proposal that does not include the documents required to be submitted by this RFP. At any time during the evaluation process, MAA reserves the right to request clarifications or additional information from any or all Proposers regarding their proposals.

B. <u>Initial Proposal</u>

Review The Committee will initially review and score all responsive written proposals based upon the Evaluation Criteria set forth above. The Committee may also contact the Proposer's references. Proposals that receive the highest evaluation scores may be invited to the next stage of the evaluation process. MAA may reject any proposal in which a Proposer's approach, qualifications, or price is not considered acceptable by MAA. An unacceptable proposal is one that would have to be substantially rewritten to make it acceptable. MAA may conclude the evaluation process at this point and recommend an award to the lowest responsible bidder. Alternatively, MAA may elect to negotiate directly with one or more Proposers to obtain the best result for MAA prior to making a recommendation or selection.

C. Interviews, Reference Checks, Revised Proposals, Discussions

Following the initial screening and review of proposals, the Proposers included in this stage of the evaluation process may be invited to participate in an oral interview. Interviews, if held, are tentatively scheduled for the week of October 9, 2023, and will be conducted at Mobile Airport Authority's Administrative Bldg., 1891 9th St., Mobile, AL 36615. This date is subject to change. The individual(s) from Proposer's firm or entity that will be directly responsible for carrying out the contract, if awarded, should be present at the oral interview. The oral interview may, but is not required to, use a written question/answer format for the purpose of clarifying the intent of any portions of the proposal.

In addition to conducting an oral interview, MAA may during this stage of the evaluation process also contact and evaluate the Proposer's references,

contact any Proposer to clarify any response or request revised or additional information, contact any current users of a Proposer's services, solicit information from any available source concerning any aspect of a proposal, and seek and review any other information deemed pertinent to the evaluation process.

Following conclusion of this stage of the evaluation process, the Committee will again rank all Proposers according to the evaluation criteria set forth above. The Committee may conclude the evaluation process at this point, and make a recommendation for an award, or it may request Best and Final Offers from Proposers. MAA may accept the proposal or negotiate the terms and conditions of the agreement with the highest ranked firm, which shall be determined to be the lowest responsible bidder. MAA may recommend an award without Best and Final Offers, so Proposers should include their best proposal with their initial submission.

Recommendation for the award is contingent upon the successful negotiation of final contract terms. Negotiations shall be confidential and not subject to disclosure to competing Proposers unless an agreement is reached. If contract negotiations cannot be concluded successfully within a time period determined by MAA, MAA may terminate negotiations and commence negotiations with the next highest scoring Proposer or withdraw the RFP.

XII. TERMS AND CONDITIONS

The following terms and conditions apply to all proposals:

- 1. MAA reserves the right to reject any and all proposals submitted; to select one or more responding parties; to void this RFP and the review process and/or terminate negotiations at any time; to select separate responding parties for various components of the scope of services; and to select a final party/parties from among the proposals received in response to this RFP. Additionally, any and all RFP project elements, requirements and schedules are subject to change and modification. MAA also reserves the unqualified right to modify, suspend, or terminate at its sole discretion any and all aspects of this RFP process, to obtain further information from any and all responding parties, and to waive any defects as to form or content of the RFP or any responses by any party.
- This RFP does not commit MAA to award a contract, defray any costs incurred in the preparation of a response to this RFP, or contract for any services. All submitted responses to this RFP become the property of MAA as public records. All proposals may be subject to public review, on

request, unless exempted as discussed elsewhere in this RFP.

- 3. By accepting this RFP and/or submitting a proposal in response thereto, each responding party agrees for itself, its successors and assigns, to hold MAA and its agents, directors, consultants, attorneys, officers, and employees harmless from and against any and all claims and demands of whatever nature or type, which any such responding company, its representatives, agents, consultants, successors or assigns may have against any of them as a result of issuing this RFP, revising this RFP, conducting the selection process and subsequent negotiations, making a final recommendation, selecting a responding party/parties or negotiating or executing an agreement incorporating the commitments of the selected responding party.
- 4. By submitting responses, each responding party acknowledges having read this RFP in its entirety and agrees to all terms and conditions set out in this RFP.
- 5. Responses shall be open and valid for a period of ninety (90) days from the due date of this RFP.

XIII. OTHER REQUIREMENTS

The Consultant shall not unlawfully discriminate against any employee, applicant for employment, or subconsultant because of race, color, age, religion, ancestry, sex, national origin, local custom, or sexual orientation. Furthermore, the Consultant shall be able to produce at any time its documented policy on ensuring that each employee has the right to work in a professional atmosphere that promotes equal employment opportunities and prohibits unlawful discriminatory practices, including harassment and prejudice.

All contracts involving the Owner and Consultant and/or third persons shall incorporate by reference and shall be in accordance with all applicable federal, state, and local laws, ordinances, rules, regulations, and orders. The proposer shall be responsible for compliance with all federal, state, and local laws, ordinances, rules, regulations and orders in the management and construction of the Project.

For a time period of at least five (5) years preceding the date of this RFP and continuing for a period of at least one (1) year after final completion and final acceptance of the Project, Proposer shall be duly licensed and registered as a General Consultant in the Building Construction classification as required by the State of Alabama or another U.S. State. In the event that Proposer consists of more than one entity with the intent to combine to form a joint venture, the years of licensing and registration of the constituent entities of such joint venture may be combined to arrive at the five-year (5) requirement. In the case of acquired or merged companies, the acquired company's prior years of licensing can be counted by the newer acquiring company/Proposer towards fulfillment of this five (5) year requirement. Copies of all professional licenses, current and valid in accordance with all applicable Alabama laws, shall be submitted by the Proposer with its RFP.

All consultants and subconsultants identified as part of Consultant's team must, as of the date of this RFP, and continuing through final completion and final acceptance of the Project, be duly licensed and registered by the Alabama State Professional Licensing Board. Copies of all professional licenses, current and valid in accordance with all applicable Alabama laws, shall be submitted by the Proposer in its RFP.

To avoid any conflict of interest or the appearance of any conflict of interest in connection with this RFP, Proposer must disclose in its RFP any relationship Proposer, its parent or subsidiary, its current or former owners, officers, directors, employees, members of Proposer's team and/or others affiliated with Proposer have or in the past have had with:

- (1) current or former board members or employees of Mobile Airport Authority (MAA); or
- (2) anyone who has a contract or other relationship with a current or former MAA board member or employee or relative of said board member or employee who is or was significantly involved in the organization, preparation, or administration of this RFP or otherwise was in a position to significantly affect the RFP either through a decision-making capacity or through a review process.

If Proposer is a joint venture or intends to form a joint venture for purposes of this Project, it is not necessary for the joint venture to be registered with the Alabama Secretary of State at the time of submission of Proposer's RFP. However, if such Proposer is awarded a contract to provide construction management services for the Project, the joint venture shall be registered at the time of execution of the Contract.

Proposer shall provide evidence within its RFP showing that Proposer has the legal ability to enter into and perform a contract with the Owner to provide construction and/or construction management services for the Project.

XIV. INSURANCE REQUIREMENTS

MAA requires that licensees, lessees, and vendors have an approved Certificate of Insurance (not a declaration or policy) or proof of legal self-insurance on file with MAA for the issuance of a permit or contract. Within ten (10) consecutive calendar days of award of contract, successful Proposer must furnish MAA with the Certificates of Insurance proving coverage as specified within Attachment F.

In the event that the Consultant is authorized to subcontract any portion of the work or services provided pursuant to this Agreement, the contract between the

Consultant and such subconsultant shall require the subconsultant to maintain the same policies of insurance that the Consultant is required to maintain.

XV. <u>DISCLOSURES</u>

MAA shall have no financial interest in the business of and shall not be liable for any debts or obligations incurred by the Consultant nor shall MAA be deemed or construed to be a partner, joint venture or otherwise interested in the assets of the Proposer, or in the sums earned or derived by Proposer, nor shall the Consultant at any time or times use the name or credit of MAA in purchasing or attempting to purchase any car, equipment, supplies or other thing or things whatsoever.

Proposer, in the performance of its operations and obligations hereunder, shall not be deemed to be an agent of MAA, but shall be deemed to be an Independent Consultant in every respect and shall take all steps at its own expense, as MAA may from time-to-time request, to indicate that it is an Independent Consultant. MAA does not and will not assume any responsibility for the means by which or the manner in which the services by Consultant are performed; but on the contrary, Consultant shall be wholly responsible, therefore.

Consultant shall acknowledge that its identity and peculiar capacity to provide the services described hereinabove shall constitute a material consideration for the MAA's execution of a contract with Consultant. Therefore, Consultant shall not transfer or assign an awarded contract or any of the rights or privileges granted therein without the prior written consent of MAA; such consent shall be granted or denied solely at MAA's discretion.

If selected, Consultant shall agree to comply strictly with all ordinances of MAA of Mobile, Alabama, and the laws of the State of Alabama and of the United States while performing its obligations.

Consultant agrees that, if selected, it will comply with Title 6 of the Civil Rights Act of 1964, which provides that no person will be excluded from participation in, or be denied benefits of, or otherwise be subjected to discrimination on the grounds of race, sex, color, national origin or disability, in connection with federally funded programs.

MAA may take all necessary and affirmative steps to assure that minority firms and women's business enterprises compete.

Consultant shall not collude in any manner or engage in any practices with any other Consultant which may restrict or eliminate competition or otherwise restrain trade. Violation of this instruction will cause MAA to reject the proposer's submittal.

XVI. <u>CONE OF SILENCE</u>

To ensure a proper and fair evaluation, the MAA has established a Cone of Silence applicable to the Competitive Solicitation, including RFIs, RFPs, RFQs, and ITBs. The cone of silence is designed to protect the integrity of the procurement process by shielding it from undue influences. The cone of silence will be imposed on the Competitive Solicitation beginning on the date of the solicitation posting on MAA's website and ending with an award or decision prescribed in the MAA's Procurement Policy.

The cone of silence prohibits any communications regarding a specific RFI, RFP, RFQ, or ITB between:

- 1. A potential respondent, including its representative(s) (which includes vendors, service providers, Proposers, lobbyists, and consultants), and MAA staff or MAA consultants engaged to assist the MAA on a specific RFP, RFQ, or ITB, except for communications with the MAA's procurement agent or other supporting procurement staff responsible for administering the procurement, provided the communication is strictly limited to procedural matters of the Competitive Solicitation.
- 2. A potential respondent including its representative(s) (which includes vendors, service providers, Proposers, lobbyists, and consultants), and a Board member.
- 3. A potential respondent including its representative(s) (which includes vendors, service providers, Proposers, lobbyists, and consultants), and any member of the evaluation committee or negotiation team.
- 4. A Board member and any member of the evaluation committee or negotiation team.
- 5. Unless specifically provided otherwise in the applicable solicitation document, in addition to the exceptions set forth above, the cone of silence does not apply to:
- 6. Oral communications at the pre-proposal or pre-bid conference.
- 7. Oral communications during publicly noticed evaluation committee meetings that are specifically for presentations, demonstrations, or interviews.
- 8. Oral communications during publicly noticed negotiation meetings.
- 9. Oral communication during any duly noticed Board meeting.
- 10. Communications relating to protests made in accordance with this Procurement Policy.

Notice of the cone of silence requirements will be included in all Competitive Solicitation documents. The notice will include the name and email of the MAA's procurement agent to whom communications regarding procedural matters of the Competitive Solicitation can be made. The notice will also include a statement that

any violation of the Cone of Silence by a respondent and their representative(s) may void its response as well as any resulting contract awarded to them. Please contact: Rita Barren, Procurement Officer at <u>*RBarren@MOBAirport.com*</u> regarding procedural and proposal format matters.

XVII. ATTACHMENTS

Attachment A - MEP As-Builts Attachment B - Pricing Proposal Form Attachment C - Vendor Data Form Attachment D - Signature & Acknowledgement Affidavit Form Attachment E - Non-Collusion Affidavit Attachment F - Insurance Requirements Attachment G - Sample Contract

- END -

Attachment B

PRICING PROPOSAL FORM

Bid Opening, October 04, 2023 @ 2:00 p.m. RFP No. 2023-014

Assessment and Design Services for HVAC Systems

at Airbus Engineering

THIS PAGE MUST BE COMPLETED AND SUBMITTED WITH YOUR PROPOSAL RESPONSE

Provide hourly rates, along with pricing in accordance with MAA's current requirements, as set forth in Section 3 Scope of Work. [Also provide your firm's proposed Staffing Plan (subtasks, employee classification, hourly rate, hours assigned and total cost) on a separate sheet of paper.] Proposer should use a separate form to state pricing for any added value.

	Task	Total Cost
1	Airbus Engineering Building HVAC Assessment	\$
2	Airbus Engineering Building HVAC Improvements Recommendation Report	\$
3	Airbus Engineering Building HVAC PS&E (Plans, Specification and Estimates)	\$
4	Airbus Engineering Building HVAC Bidding/Construction Services	\$
	TOTAL:	\$

Total proposal amount in written form: _____

Optional Tasks: _____

Pricing shall remain firm for a minimum of two (2) years. Any and all requests for pricing adjustments for follow-up contract renewal periods shall be provided no later than sixty (60) days prior to the end of the contract period.

The consultant shall provide a separate rate schedule identifying staff members' hourly rates, reimbursable expenses and/or rates, mileage and/or travel cost, etc.

Employee	Hourly Rate	Hours Worked	Total Cost
	\$		\$
	\$		\$
	\$		\$
	\$		\$

Attachment C

VENDOR DATA FORM RFP No. 2023-014 Assessment and Design Services for HVAC Systems at Airbus Engineering

THIS PAGE MUST BE COMPLETED AND SUBMITTED WITH YOUR PROPOSAL RESPONSE

TYPE OF APPLICANT:						
egal Contractual Name of Corporation:						
Contact Person for Agreement:	Contact Person for Agreement:					
Corporate Mailing Address:						
City, State and Zip Code:						
Phone Number:						
Contact Person for Proposals:						
Title:		_ Email Address:				
Business Phone:						
Is your business: (Check one)						
□ DBE/ACDBE Certified □ N	on-DBE/ACDB	E Certified				
Signature of Authorized Represen	itative:					
-		Title:				

Attachment D

SIGNATURE & ACKNOWLEDGEMENT AFFIDAVIT FORM

RFP No. 2023-014

Assessment and Design Services for HVAC Systems at Airbus Engineering

THIS PAGE MUST BE COMPLETED AND SUBMITTED WITH YOUR PROPOSAL RESPONSE

I, the undersigned duly authorized representative of the Bidder, understand that the Proposal must be signed by the Bidder or an authorized representative of the Bidder. Further, I acknowledge that I have read and understand all the proposal instructions, specifications, terms and conditions, and agree, on behalf of myself and the Bidder to be bound by them.

Receipts of the following Addenda are hereby acknowledged: (List all / any Addenda)

ADDENDUM NO._____

ADDENDUM NO._____

ADDENDUM NO._____

ILLEGAL IMMIGRANT CONFIRMATION

By signing and submitting a response to this solicitation, a Prospective Bidder agrees and certifies that they do not employ or contract with illegal immigrants. If selected, the Prospective Bidder certifies that they will not employ or contract with illegal immigrants during the aggregate term of a contract.

SUBMITTAL ACKNOWLEDGEMENT

 \Box Prospective Bidder acknowledges proposal includes one (1) complete original and three (3) copies.

Name

Title

Signature

Company Name

<u>(____)</u> Telephone

Address

Attachment E

NON-COLLUSION AFFIDAVIT

The undersigned proposal or agent, being duly sworn on oath, declares that he / she has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him / her, entered into any combination, collusion, or agreement with any person relative to the price to be bid by anyone at such letting, nor to prevent any person from bidding, nor to include anyone to refrain from proposing, and that this proposal is made without reference to any other proposals and without any agreement, understanding or combination with any other person in reference to such proposals/bidding.

He / She further states that no person or persons, firms, or corporations, has, have or will receive directly or indirectly, any rebate, fee gift, commission or item of value on account, or in return for such sale.

OATH AND AFFIRMATION

I HEREBY AFFIRM UNDER THE PENALTIES FOR PERJURY THAT THE FACTS AND INFORMATION CONTAINED IN THE FOREGOING BID/PROPOSAL FOR PUBLIC WORKS ARE TRUE AND CORRECT.

Dated th	is day of	, 20 <u></u>
Ī	Name of Organization	
-	Signature	
- r	Title of Person Signing	
THE STATE (DF	
	COUNTY	
I,		, a Notary Public, hereby certify
that		whose name is signed to the foregoing
instrument or c	onveyance, and who is know	own to me, acknowledged before me on this day that,
being informed	of the contents of the conv	veyance, he/she/they executed the same voluntarily on
the day the sam	e bears date.	
Given under my	hand this day o	f, A. D. 20
Notary Public		
Print Name		My commission expires:

Attachment F

INSURANCE REQUIREMENTS

The company **MUST** agree to insurance requirements as outlined below, as well a complete vendor agreement. Evidence of all required coverage to be furnished in the form of a Certificate of Insurance stating that policy shall not be canceled, changed, allowed to lapse, or allowed to expire without 30 days written notice. The policies shall be endorsed to stipulate that the insurance afforded by the additional insureds shall apply as primary insurance and that any other insurance or self-insurance maintained by MAA shall be excess only. The company shall ensure that its subcontractors of any tier shall procure and maintain insurance that complies with the requirements set forth.

A copy of each endorsement shall be attached to the Certificate of Insurance. The Certificate shall indicate the Certificate Holder as:

Mobile Airport Authority 1891 9th Street Mobile, AL 36615

Where appropriate, copies of endorsements should be attached to the Certificate of Insurance (COI).

- ** Waiver of Subrogation must be indicated "YES"
- ** "Mobile Airport Authority" must be listed on the bottom left of the COI form
- ** Must specify Mobile Airport Authority as insured
- ** MAA must always keep a current policy on file

The following is a list of the minimum requirements for the Mobile Airport Authority. Please note that each project is different and the minimum insurance requirements may change without notice.

<u> </u>	Commercial General Liability	General Aggregate	Auto Liability	Umbrella	Worker's Compensation
Non-Airside <\$100,000	\$1,000,000	\$2,000,000	\$500,000	\$0	State Law
Non-Airside \$100,001-\$500,000	\$1,000,000	\$2,000,000	\$1,000,000	\$0	State Law
Non-Airside \$500,001-\$2,000,000	\$1,000,000	\$2,000,000	\$1,000,000	\$2,000,000	\$1,000,000
Non-Airside >\$2,000,000	\$1,000,000	\$2,000,000	\$1,000,000	\$5,000,000	\$1,000,000
Service Vendor	\$1,000,000	\$2,000,000	Exposure Dependent	\$0	State Law
Terminal/Non-Airside	\$1,000,000	\$2,000,000	\$1,000,000	\$5,000,000	\$1,000,000
FAA Projects/Airside	\$1,000,000	\$2,000,000	\$1,000,000	\$9,000,000	\$1,000,000

The company shall indemnify, defend, and hold harmless Mobile Airport Authority and its affiliates, and all their employees, officers, directors, shareholders, etc. (collectively

"Indemnitees") from and against any and all claims, demands, losses, damages, liabilities, expenses, obligations, judgments, recoveries and deficiencies, <u>arising</u> out of or resulting from the performance of the services provided.

Mobile Airport Authority has the right to terminate the contract for non-compliance with insurance requirements.

Waiver of Subrogation

The contractor shall waive its right to subrogation on each of the policies herein. If any of the policies do not permit the insured to enter a pre-loss waiver, or voids coverage because of same, there this Waiver of Subrogation requirement shall not apply and Subcontractor shall obtain a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent.

Insurance required by this Agreement shall be as broad as necessary to support the indemnification requirement in said contract or as broad as the indemnitor's insurance coverage, whichever is broader.

Attachment G

Sample Contract Cover Page RFP No. 2023-014 Assessment and Design Services for HVAC Systems at Airbus Engineering

DO NOT FILL OUT OR SIGN THE ATTACHED SAMPLE CONTRACT TEMPLATE.

The attached document is a sample only. The selected bidder will receive a draft copy of the final contract and will be expected to sign it. Therefore, you should review the attached sample contract template in its entirety and make sure that you are able to comply with all terms and conditions.

STATE OF ALABAMA)

)

MOBILE COUNTY

<u>CONTRACT FOR PROFESSIONAL SERVICES</u> <u>BETWEEN</u> <u>OWNER AND CONSULTANT</u>

This Contract for Professional Services Between Owner and Consultant (the "Agreement") is made and entered into this the _____ day of _____, 2023 by and between Mobile Airport Authority, a public corporation organized under the laws of the State of Alabama, hereafter referred to as the "Owner" and [CONSULTANT], a [DESCRIBE BUSINESS ORGANIZATION] firm, hereafter referred to as the "Consultant."

WITNESSETH:

WHEREAS the Owner desires [insert the desired objective or purpose of this engagement]; and

WHEREAS the Consultant is (i) qualified to order to conduct such ______ in accordance with any and all applicable laws, rules, and regulations, (ii) qualified to conduct business in the State of Alabama, and (iii) desirous of providing certain professional services to the Owner, as provided hereinbelow.

NOW, THEREFORE, for and in consideration of the premises, and other good and valuable consideration, including the inspection fees to be paid to Consultant hereunder, the parties hereto agree as follows:

1. The Consultant shall furnish, perform and provide to Owner [describe the services to be rendered]. All such Services shall be rendered in compliance with the General Provisions attached hereto.

2. In consideration of Consultant's satisfactory performance of the Services, the Owner shall pay the Consultant a fee in an amount not to exceed \$XXXXX.XX (the "Service Fee"). The Service Fee shall include any and all expenses, including, but not limited to, salaries, payroll costs, additives, overhead and profit of Consultant. All payments by the Owner to the Consultant shall be in accordance with Section 5 of the General Provisions. The fees for Services required by Owner after said one (1) year period will be subject to renegotiation by the parties.

hereunder shall be primary to any insurance obtained by Owner, if any. Consultant shall provide Owner with certificates evidencing the required coverage which list Owner as an additional named insured and provides such coverage cannot be canceled or altered without providing to Owner at least thirty (30) days prior written notice.

IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement as of the day and year first written above.

Witness:	
	OWNER: Mobile Airport Authority
Attest:	By: Title:

CONSULTANT:

GENERAL PROVISIONS

These General Provisions are attached to and made a part of the Agreement for Professional Services between Owner and Consultant (the "Agreement") dated _____, 2022, by and between the Mobile Airport Authority, a public corporation organized under the laws of the State of Alabama ("Owner"), and ______, a [describe business organization] "Consultant").

1. **DESCRIPTION OF SERVICES.** The Consultant shall furnish, perform, and provide the Services described in the Agreement in conformity with acceptable industry and professional service practices in the State of Alabama and those standards set forth in the [name the applicable professional association/authority/regulator] and the rules and regulations promulgated in association therewith. The purpose of the Services is to determine whether the [insert]

2. **RESPONSIBILITIES OF THE OWNER**. The Owner shall:

- (a) Provide the Consultant with a list of the Dwellings to be inspected and such other information as Consultant may reasonably request of Owner.
- (b) Designate, at a minimum, one person to act on the Owner's behalf and respond in a timely manner to submissions by Consultant for approvals and authorizations as appropriate so that work may continue at a normal pace.

3. DUTIES, RESPONSIBILITIES AND LIMITATIONS OF AUTHORITY OF THE CONSULTANT. The Consultant shall:

- (a) Duties and Responsibilities:
 - (i) As requested by the Owner, assist the Owner in obtaining additional details or information, when required at the job site for proper execution of the Services.
 - (ii) If required by the Owner, attend conferences to advise the Owner of findings.
- (b) Review of Work, Rejection of Defective Work, and Inspection of Work:
 - (i) After the initial inspections are made by Consultant hereunder and in the event defects or inadequacies are discovered and corrected, conduct re-inspections of the corrections thereof shall be made by Consultant, if required by the Owner.
 - (ii) Maintain files of the inspections performed to allow Owner to comply with federal auditing requirements.

(iii) The Consultant shall indemnify and hold the Owner harmless from and against any and all claims or demands for injury to persons, including death, and damage to property, arising out of, related to, connected with or caused by the Consultant's negligent performance acts or omissions in respect to any of the Services furnished under this Agreement, except for errors, omissions or other deficiencies to the extent solely attributable to the Owner. The Consultant shall not be responsible for any time delays in the project caused by circumstances beyond the Consultant's reasonable control.

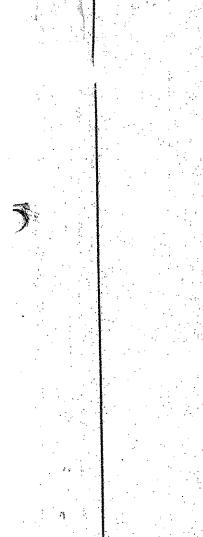
4. SCOPE AND LIMITATIONS OF INSPECTION SERVICES PROVIDED BY CONSULTANT.

(a) The Services to be provided consist [scope of services to be rendered]

5. **METHOD OF PAYMENT**. Payments for the satisfactory completion of the Services rendered in connection with the work accomplished herein shall be made within thirty (30) days after presentation by Consultant of an original invoice to the Owner.

6. TERMINATION. This Agreement may be terminated in whole or in part in writing by either party in the event of a material failure by either party to fulfill its obligations under this Agreement through no fault of the terminating party; provided, however, that no such termination may be effected unless the other party is given not less than ten (10) days written notice of intent to terminate and an opportunity for cure of such failure by the defaulting party or consultation within three (3) days with the terminating party prior to termination. Consultant shall have the right to terminate this Agreement in whole or in part on ten (10) days written notice to Owner in the event Consultant ceases operating a home inspection business.

7. PERSONAL SERVICES CONTRACT. This Agreement is a services contract between the Consultant and the Owner. The Consultant acknowledges and agrees that the Owner is relying on Consultant to perform the Services described herein, and the Consultant agrees that no other person, employee, or agent shall perform any of the Services hereunder without the prior written consent of the Owner. The rights and obligations of the Consultant under this Agreement cannot be assigned to any other person or entity and any attempted assignment shall be null and void and of no effect. The Consultant acknowledges and agrees that the Consultant will not employ any agents or employees to perform any part of the Services hereunder unless and until the Owner consents to the same in writing and Consultant obtains and provides the Owner with evidence of worker's compensation insurance as required by law.



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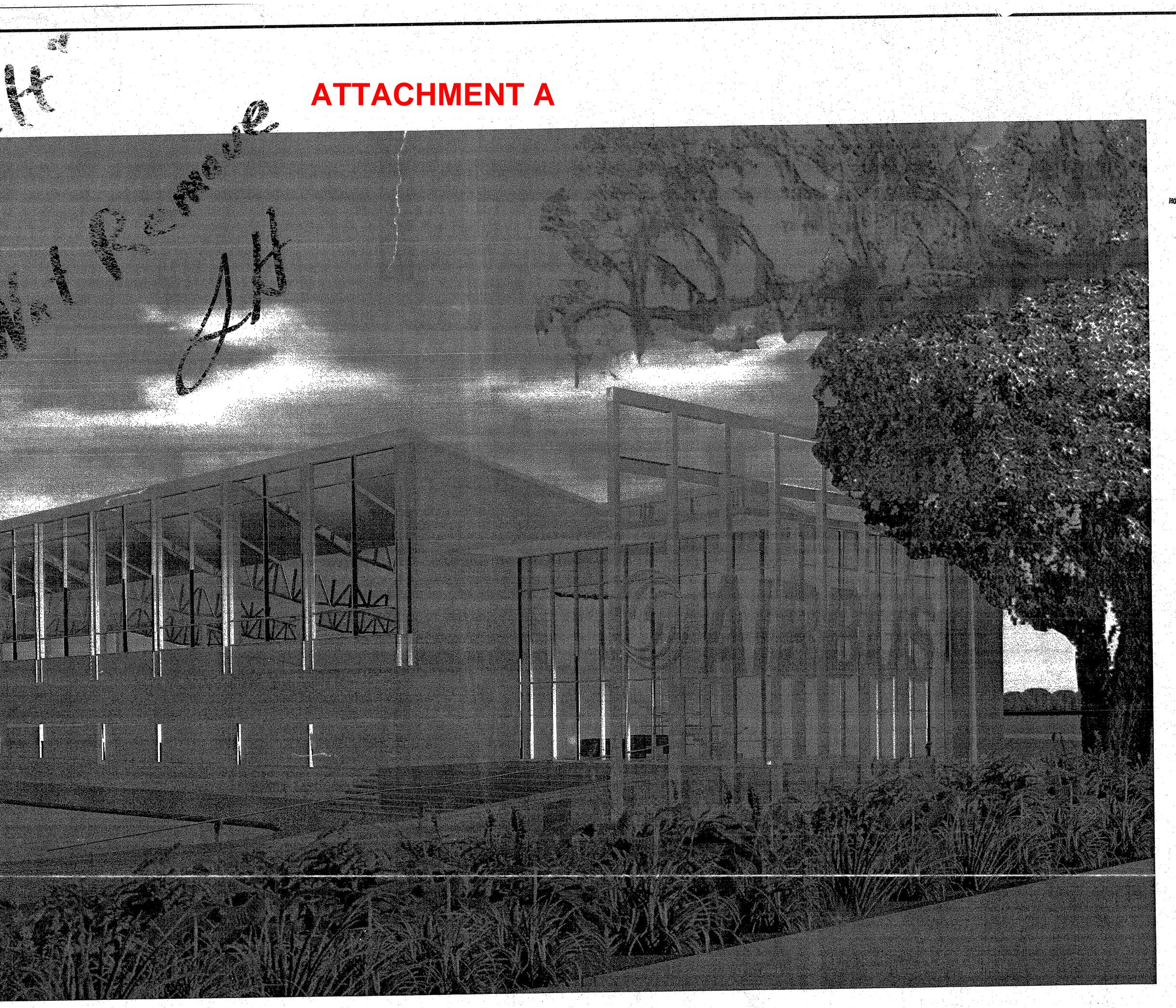
CLIENT:

MOBILE AIRPORT AUTHORITY 1891 NINTH STREET BROOKLEY AIRPORT COMPLEX MOBILE, ALABAMA 36615 PHONE: (251) 436-7334



TENANT:

AIRBUS NORTH AMERICA HOLDINGS, INC. 198 VAN BUREN STREET HERNDON, VIRGINIA 20170-5335 PHONE: (703) 834-3486



AIRBUS ENGINEERING CENTER 1801 SOUTH BROAD STREET, MOBILE, ALABAMA 36615

ARCHITECT:

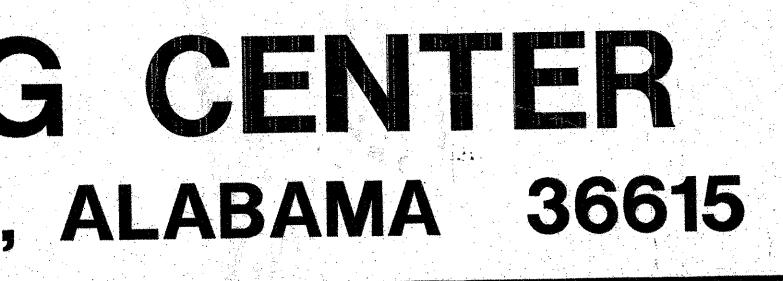
PERKINS + WILL 2100 M STREET, NW SUITE 800 WASHINGTON, DC PHONE: (202) 737-1020 FAX: (202) 223-1570

CIVIL/STRUCTURAL:

THOMPSON ENGINEERING 3707 COTTAGE HILL ROAD MOBILE, AL 36609 PHONE: (251) 666-2443 FAX: (251) 666-6422

MEP&F:

AI ENGINEERING 11520 NUCKOLS ROAD SUITE 110 GLEN ALLEN, VA PHONE: (804) 474-7800 FAX: (804) 474–6822



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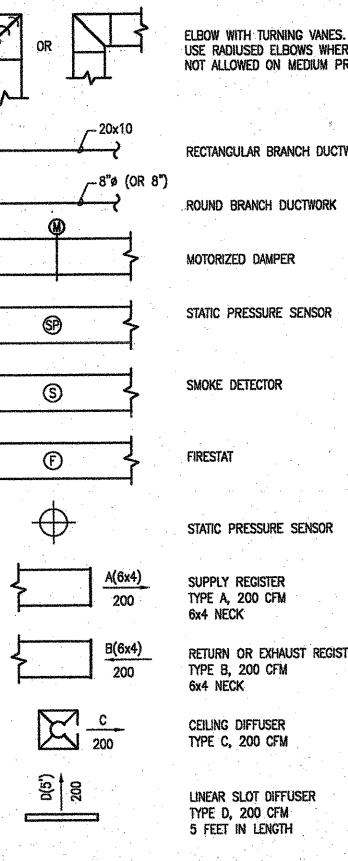
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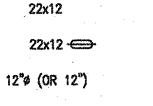
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M001	DRAWING INDEX, ABBREVIATIONS AND SYMBOLS, MECHANICAL NOTES
M-201	LOWER LEVEL MECHANICAL PLAN
M-202	UPPER LEVEL MECHANICAL PLAN
M-203	ROOF PLAN MECHANICAL
M-701	DETAILS - MECHANICAL
M-901	SCHEDULE SHEET





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## ROUND BRANCH DUCTWORK

MOTORIZED DAMPER

## STATIC PRESSURE SENSOR

SMOKE DETECTOR

STATIC PRESSURE SENSOR

# SUPPLY REGISTER

TYPE A, 200 CFM 6x4 NECK RETURN OR EXHAUST REGISTER

# TYPE B, 200 CFM

6x4 NECK CEILING DIFFUSER TYPE C, 200 CFM

LINEAR SLOT DIFFUSER TYPE D, 200 CFM 5 FEET IN LENGTH

# RECTANGULAR DUCT

FLAT-OVAL DUCT

# PIPING IDENTIFICATION

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U.C.

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(FP#)

CONDENSATE DRAIN LINE REFRIGERANT LIQUID

# HOT GAS LINE

HVAC SYMBOLS LOUVERED DOOR (BY ARCHITECT) UNDERCUT DOOR (BY ARCHITECT) CARBON MONOXIDE SENSOR (MOUNT @ 60" AFF UNLESS OTHERWISE NOTED) CARBON DIOXIDE CO SENSOR (MOUNT @ 60" AFF UNLESS OTHERWISE NOTED) THERMOSTAT/TEMPERATURE SENSOR (MOUNT @ 60" AFF UNLESS OTHERWISE NOTED) HUMIDISTAT

(MOUNT @ 60" AFF UNLESS OTHERWISE NOTED)

L# - (L-LOWER LEVEL-SEQUENCE#)

SINGLE DUCT TERMIANL BOX SERIES FAN POWERED TERMINAL BOX  $U^{\#}_{\#} - (U - UPPER LEVEL - SEQUENCE^{\#})$ 

REFRIGERANT SUCTION HG -----

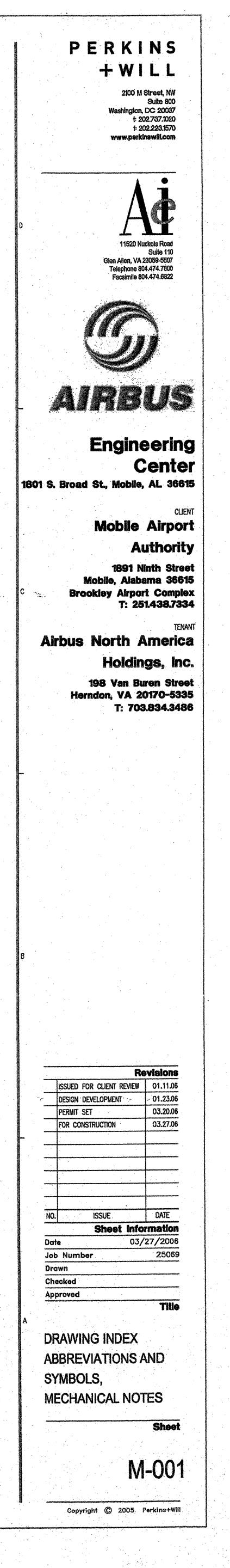
HVAC NOTES 20) SUBMITTALS c) SHOP DRAWINGS FOR EQUIPMENT d) AIR BALANCE REPORT PARTITIONS. 26) SUPPLY AND INSTALL TEMPORARY FILTERS IN ALL AC UNITS. REPLACE TEMPORARY FILTERS WITH FINAL FILTERS UPON COMPLETION OF CONSTRUCTION AND BEFORE COMMISSIONING. PROVIDE RIGID METAL DUCT IN LIEU OF FLEX 12" ON EITHER SIDE OF WALL OR SLAB. 28) SUPPLY AND INSTALL FIRE/SMOKE DAMPERS WITH ACCESS DOOR IN ACCORDANCE WITH NFPA, AND IN ACCORDANCE SPECIFICATIONS. 30) COORDINATE WEIGHTS OF EQUIPMENT ADDED WITH STRUCTURAL ENGINEER FOR ADEQUATE STRUCTURAL SUPPORT. 31) ALL DUCT BRANCH LINES AND BRANCH TAKEOFFS SHALL BE THE SAME SIZE AS THE INLET OF THE DIFFUSER TO WHICH THEY CONNECT UNLESS OTHERWISE SHOWN. THE MAXIMUM LENGTH OF FLEXIBLE DUCTWORK BETWEEN BRANCH 33) CONTRACTOR IS PROHIBITED FROM RELEASING ANY REFRIGERANT INTO THE ATMOSPHERE DURING INSTALLATION, STARTUP 34) INSULATE ALL MEDIUM PRESSURE DUCTWORK EXCEPT WHEN DUCT IS INSTALLED WITH SOUND LINING. 35) ALL THERMOSTAT AND TEMPERATURE SENSORS SHALL BE INSTALLED 60" A.F.F. UNLESS OTHERWISE NOTED. SUB-BASES. 36) CONTRACTOR SHALL FURNISH AND INSTALL TEMPERATURE SENSORS IN LOCATIONS INDICATED ON THE DRAWINGS. SWITCH (ES). 37) CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL AIR TERMINAL BOXES TO ENSURE THAT ALL REQUIRED SERVICE AREAS BELOW AND AROUND AIR TERMINAL BOXES BETWEEN CEILING AND UNDERSIDE OF SLAB ARE FREE FROM PARTITION FRAMING, PIPING, CONDUIT, OR OTHER IMPEDIMENTS. WHERE PARTITION FRAMING MUST BE LOCATED WITHIN AIR TERMINAL BOX CONTROLLER ACCESS AREA, CONTRACTOR SHALL FRAME A FULL SIZED OPENING IN THE PARTITION FRAMING FROM TOP OF CEILING TO UNDERSIDE OF BUILDING STRUCTURE. 38) COORDINATE LOCATIONS OF AIR TERMINAL BOXES WITH SPRINKLER PIPING, TENANT PARTITIONS, AND OTHER AND 39) WHERE INSULATED DUCTS PENETRATE WALLS, CONTINUE THE INSULATION UNINTERRUPTED THROUGH THE WALL PENETRATIONS. EXCEPT IN CASES OF RATED WALLS. 40) ALL FIRE DAMPERS TO BEAR THE U.L. LABEL. INSTALL DAMPERS SO THEY ARE ACCESIBLE FOR SERVICE. 41) WHERE VOLUME DAMPERS, SPLITTER DAMPERS, ETC., ARE LOCATED ABOVE OR BEHIND DRYWALL CEILING ENCLOSURES COORDINATE WITH ARCHTECT ACCESS DOORS IN THE CEILING OR REMOTELY LOCATE DAMPER IN AN ACCESSABLE CEILING. 42) MOTORIZED DAMPERS THAT ARE INTERLOCKED VIA DAMPER END SWITCHES WITH FANS OR OTHER EQUIPMENT ARE TO OPEN PRIOR TO START-UP OF ASSOCIATED FANS OR EQUIPMENT. 43) BLANK OFF ALL INACTIVE SECTIONS OF SLOT LINEAR DIFFUSERS AND LINEAR BAR GRILLES.

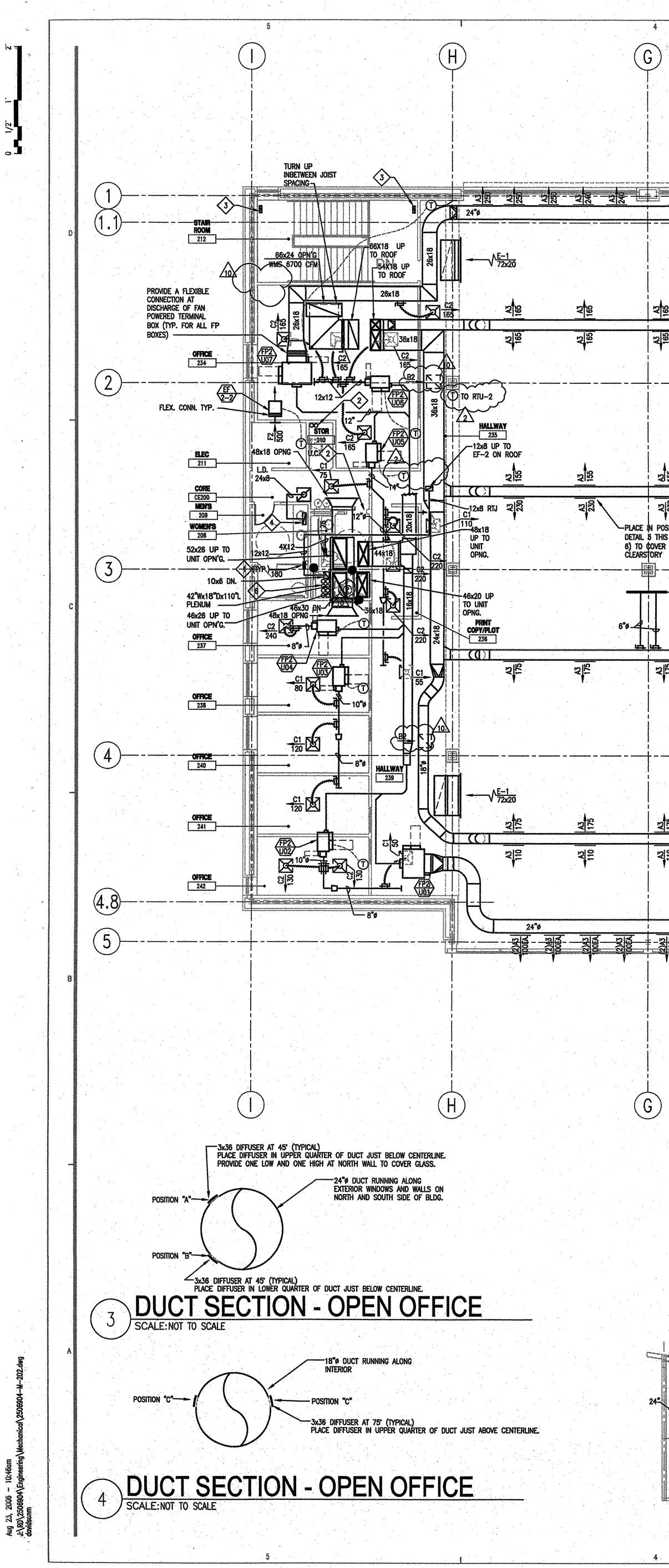
1) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO: 2000 INTERNATIONAL BUILDING CODE 2000 INTERNATIONAL MECHANICAL CODE LATEST SMACNA STANDARDS 2) CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED. 3) THE FOLLOWING NOTES ARE GENERAL IN NATURE AND PERTAIN TO THE ENTIRE PROJECT. WHERE THERE ARE EXCEPTIONS, ADDITIONS, OR REVISIONS TO THESE NOTES, SUCH EXCEPTIONS, ADDITIONS OR REVISIONS ARE SO NOTED ON THE PARTICULAR DRAWING WHERE THEY OCCUR. 4) ABBREVIATIONS & SYMBOLS ON THIS SHEET ARE COMPREHENSIVE LISTS AND ARE NOT NECESSARILY ALL UTILIZED FOR THIS PROJECT. 5) THE DRAWINGS ARE DIAGRAMMATIC AND SHOULD NOT BE SCALED TO ESTABLISH LOCATION OF WORK. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS NECESSARY TO COMPLETE THE WORK. VERIFY EXISTING CONDITIONS BEFORE FABRICATION OF DUCTWORK OR OTHER NEW WORK. 6) THE CONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH OTHER TRADES TO ASSURE ALL WORK CAN BE PROPERLY INSTALLED WITHOUT INTERFERENCE OR DELAY. 7) REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED DIFFUSERS. 8) PROVIDE 1", 1 1/2" LB DENSITY ACOUSTICAL SOUND LINING DOWNSTREAM OF NEW FAN POWERED TERMINAL BOXES, MINIMUM 8' IN LENGTH. PROVIDE 1", 1 1/2" LB DENSITY ACOUSTICAL SOUND LINING ON ALL RETURN TRANSFER DUCTS. 9) PROVIDE A FLANGED AND GASKETED "AIR-TIGHT" FITTING WITH VOLUME DAMPER AT EACH CONNECTION BETWEEN MAIN DUCT AND BRANCH DUCT. SECURE FITTING TO MAIN DUCTWORK USING SELF-ADHESIVE GASKET AND SHEET METAL SCREWS. WHERE THE DEPTH OF THE TAPPED DUCTWORK IS LESS THAN TAP DIAMETER USE A FACTORY-FABRICATED OVAL FITTING OF EQUIVALENT FREE AREA SHALL BE USED. 10) NOTE NOT USED. 11) DUCT SIZES SHOWN ON DRAWINGS ARE IN INCHES AND REPRESENT THE FREE OR UNOBSTRUCTED AREA REQUIRED ON THE INSIDE OF THE DUCT. 12) ALL DUCT RUN-OUTS TO TERMINAL BOX INLETS SHALL BE THE SAME SIZE AS THE BOX INLET UNLESS OTHERWISE NOTED. 13) ALL DUCT RUN-OUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS OTHERWISE NOTED. 14) ALL DUCTWORK AND PIPING SHALL RUN AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED. 15) PROVIDE ACCESS PANELS FOR ALL VALVES AND MECHANICAL EQUIPMENT IN THE CEILING. 16) ALL EQUIPMENT INSTALLED IN THE CEILING PLENUM SHALL HAVE MAXIMUM FLAME SPREAD INDEX OF 25 AND A SMOKE DEVELOPED INDEX NOT EXCEEDING 50 IN ACCORDANCE WITH ASTM E84. 17) THE CONTRACTOR SHALL NOT CORE DRILL CONCRETE SLABS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE BUILDING OWNER. 18) CONTRACTOR TO RADIOGRAPH PROBABLE CORE DRILL LOCATIONS TO PREVENT CUTTING CONCEALED RE-BARS AND/OR CONDUIT IN CONCRETE MASS. 19) ALL SPECIFIED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. a) 1/4" SCALE COORDINATED SHEET METAL FABRICATION SHOP DRAWINGS (COORDINATED WITH STRUCTURAL/ARCHITECTURAL CEILING HEIGHTS/ LIGHTING AND PIPING. b) 1/4" COORDINATION CHANGES SUPERIMPOSING MECHANICAL, PLUMBING, ELECTRICAL AND OTHER TRADES. e) AS BUILT DRAWINGS f) O & M MANUALS IN 3-RING HARD COVER BINDERS. 21) COORDINATE DIFFUSER LOCATIONS WITH REFLECTED CEILING AND LIGHTING PLAN. 22) ALL DUCTWORK AND PIPING SHALL CONNECT TO EQUIPMENT WITH FLEXIBLE CONNECTIONS. 23) COORDINATE FRAMING OF SLAB TO SLAB PARTITIONS WITH EXISTING DUCTWORK. FRAMING SHALL NOT BE ATTACHED TO DUCTWORK. 24) PROVIDE RETURN AIR TRANSFER OPENINGS (AT AIR VELOCITY NOT EXCEEDING 400 FEET PER MINUTE) IN SLAB TO SLAB 25) SEAL AROUND ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS WITH UL LISTED FIRESTOP ASSEMBLIES. 27) AT ALL POINTS WHERE FLEXIBLE BRANCH DUCTS WOULD PENETRATE SLAB-TO-SLAB PARTITIONS OR FLOOR SLABS, WITH MANUFACTURERS RECOMMENDATIONS AND CONSISTENT WITH THEIR LISTING. DAMPERS SHALL BE LISTED UNDER UL 555 29) SUPPLY AND INSTALL VIBRATION ISOLATION HANGERS FOR ALL EQUIPMENT SUSPENDED FROM STRUCTURE AS PER DUCTS AND DIFFUSERS SHALL BE 10'-0" UNLESS OTHERWISE SPECIFIED. FLEXIBLE DUCTWORK SHALL BE RUN WITH SMOOTH BENDS AND NO SAGGING SO AS TO NOT RESTRICT AIRFLOW. 32) AIR IS RETURNED TO THE PLENUM THROUGH RETURN GRILLES AND/OR THROUGH RETURN SLOTS IN LIGHT FIXTURES. OR SERVICING OF NEW HVAC EQUIPMENT, EITHER DIRECTLY OR INDIRECTLY, CONTRACTOR SHALL BE EPA CERTIFIED AND SHALL UTILIZE AN APPROPRIATE REFRIGERANT PURIFICATION/RECLAMATION SYSTEM THAT IS CAPABLE OF SEPARATION AND REMOVAL OF OIL AND RESIDUAL MOISTURE, AND DOT-APPROVED CONTAINMENT OF RECOVERED REFRIGERANT. THERMOSTATS AND TEMPERATURE SENSORS LOCATED ON PERIMETER WALLS/COLUMNS SHALL BE PROVIDED WITH INSULATED TEMPERATURE SENSORS SHALL NOT BE LOCATED ABOVE DIMMER SWITCHES OR OTHER HEAT-PRODUCING ELECTRICAL DEVICES. THERMOSTATS AND TEMPERATURE SENSORS/TRANSMITTERS SHALL BE ALIGNED WITH TOP EDGE OF ADJACENT LIGHT EQUIPMENT TO ENSURE ADEQUATE SERVICE AND MANUFACTURER REQUIRED CLEARANCES AROUND AIR TERMINALS.

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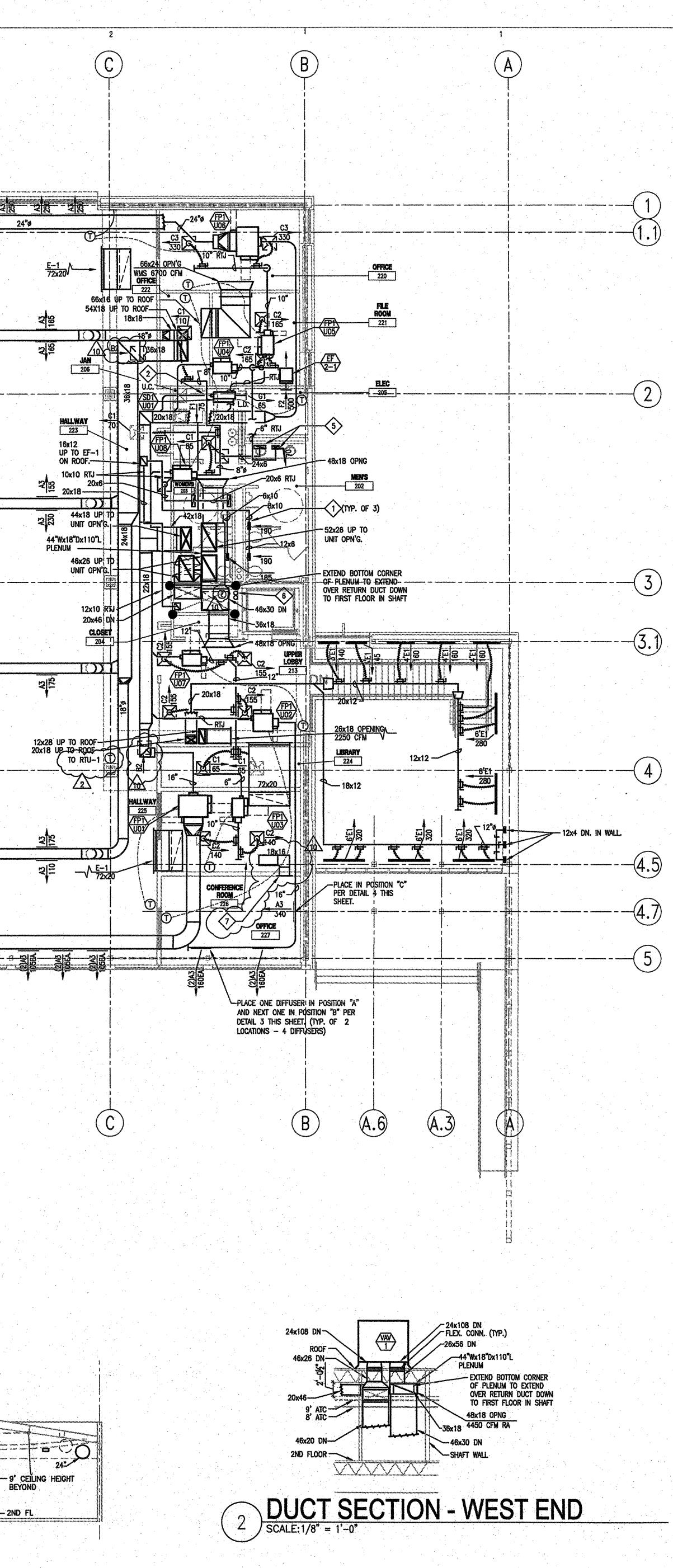


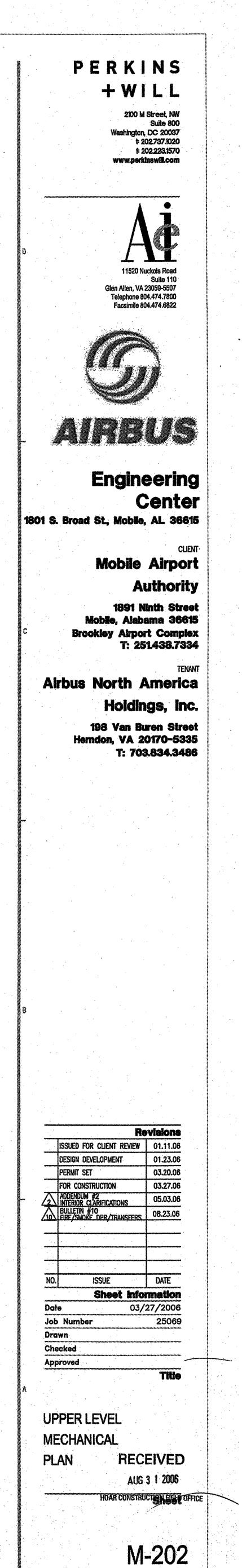




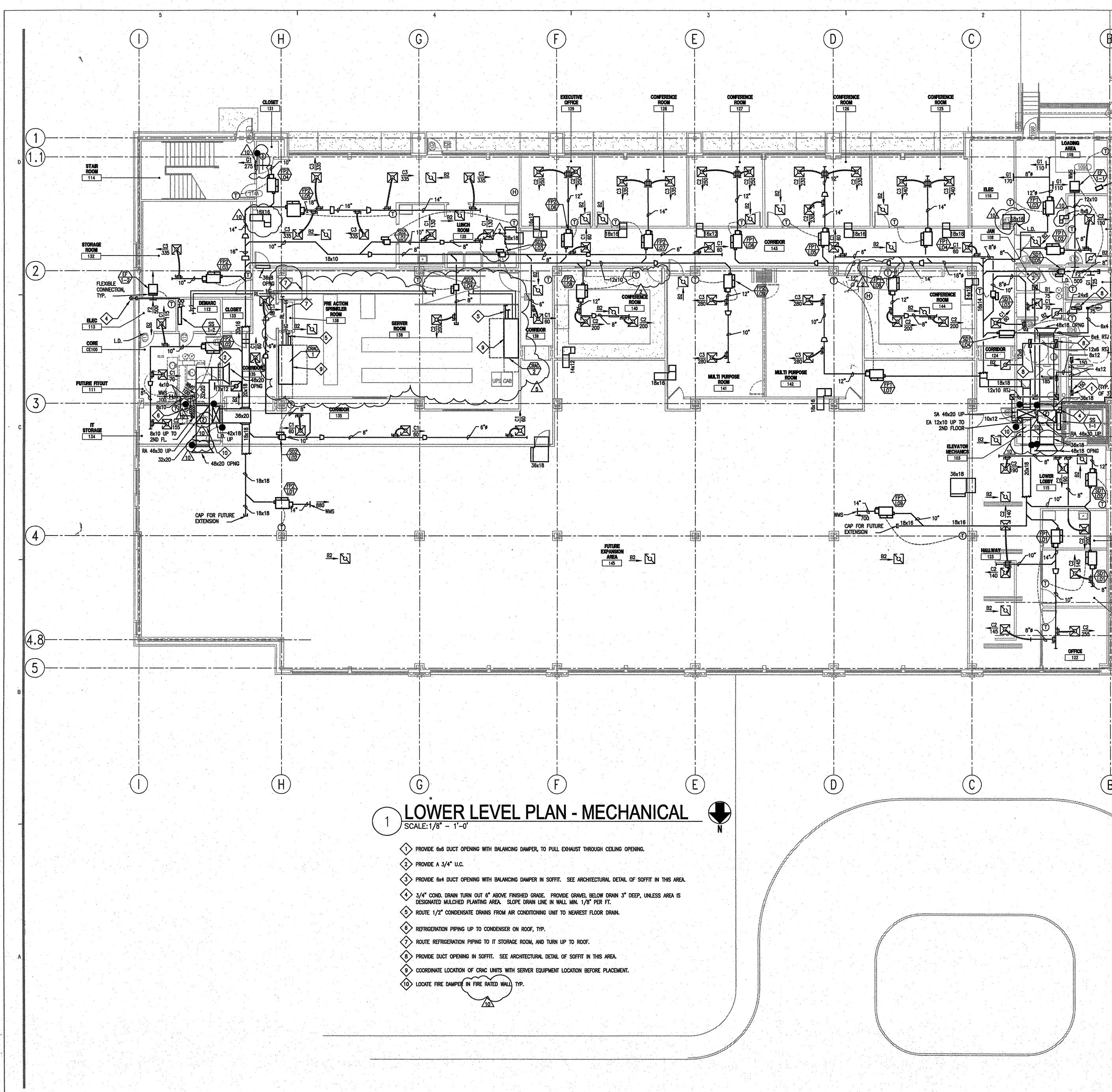
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AF	AT CEILING REA INTO PEN AREA	OPEN AREA AT BOW TRUSSES							

# 5 SECTION-A- OPEN OFFICE

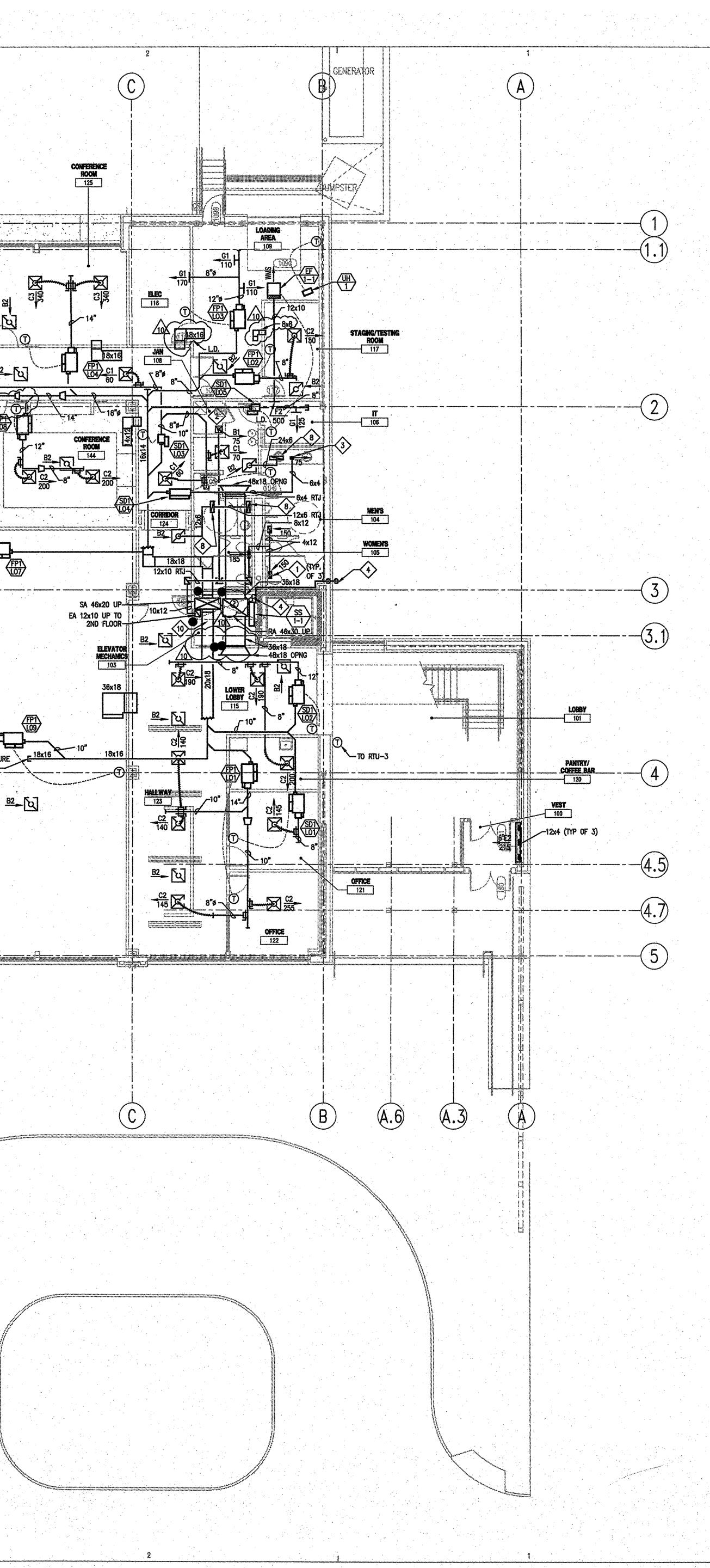


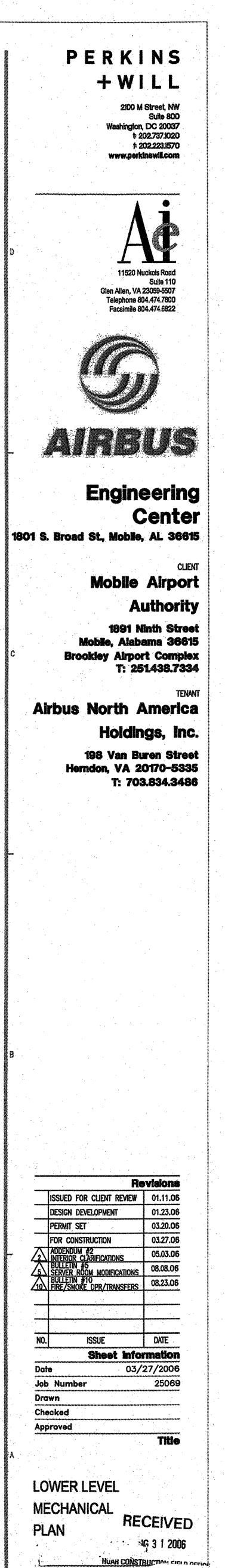


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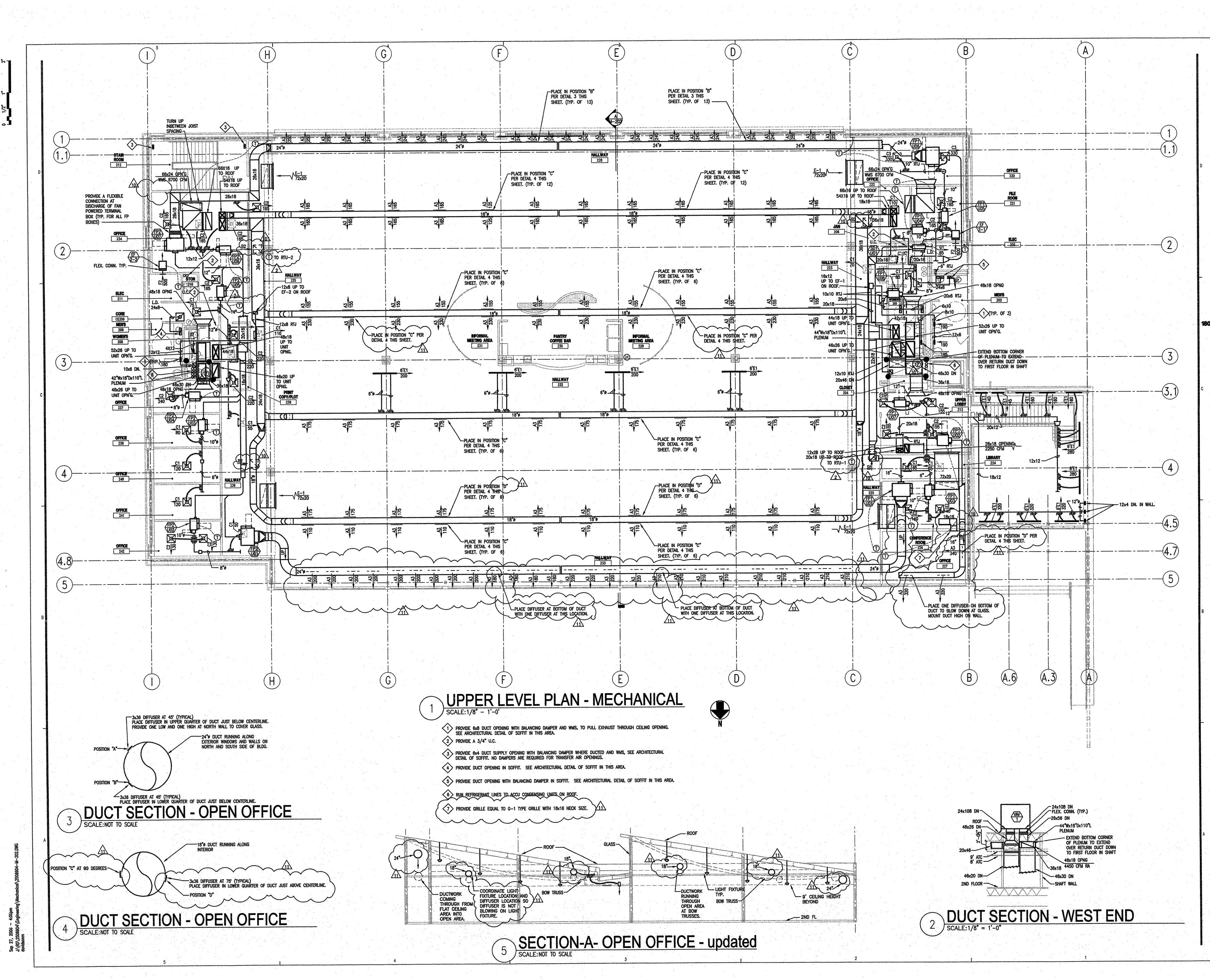


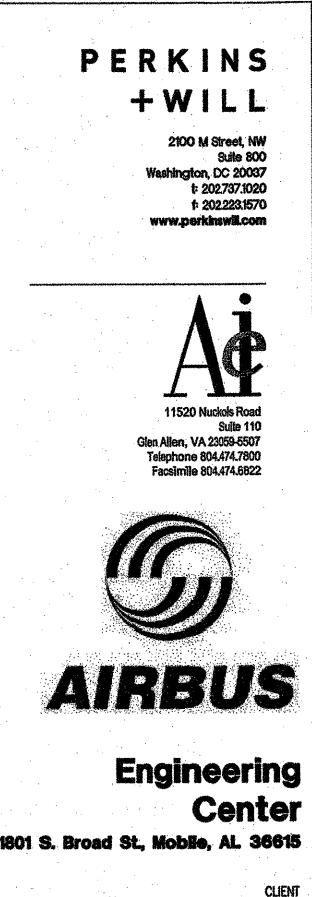
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Mobile Airport Authority

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Mobile, Alabama 36615 Brookley Airport Complex T: 251438.7334

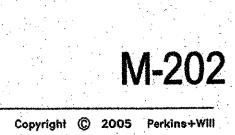
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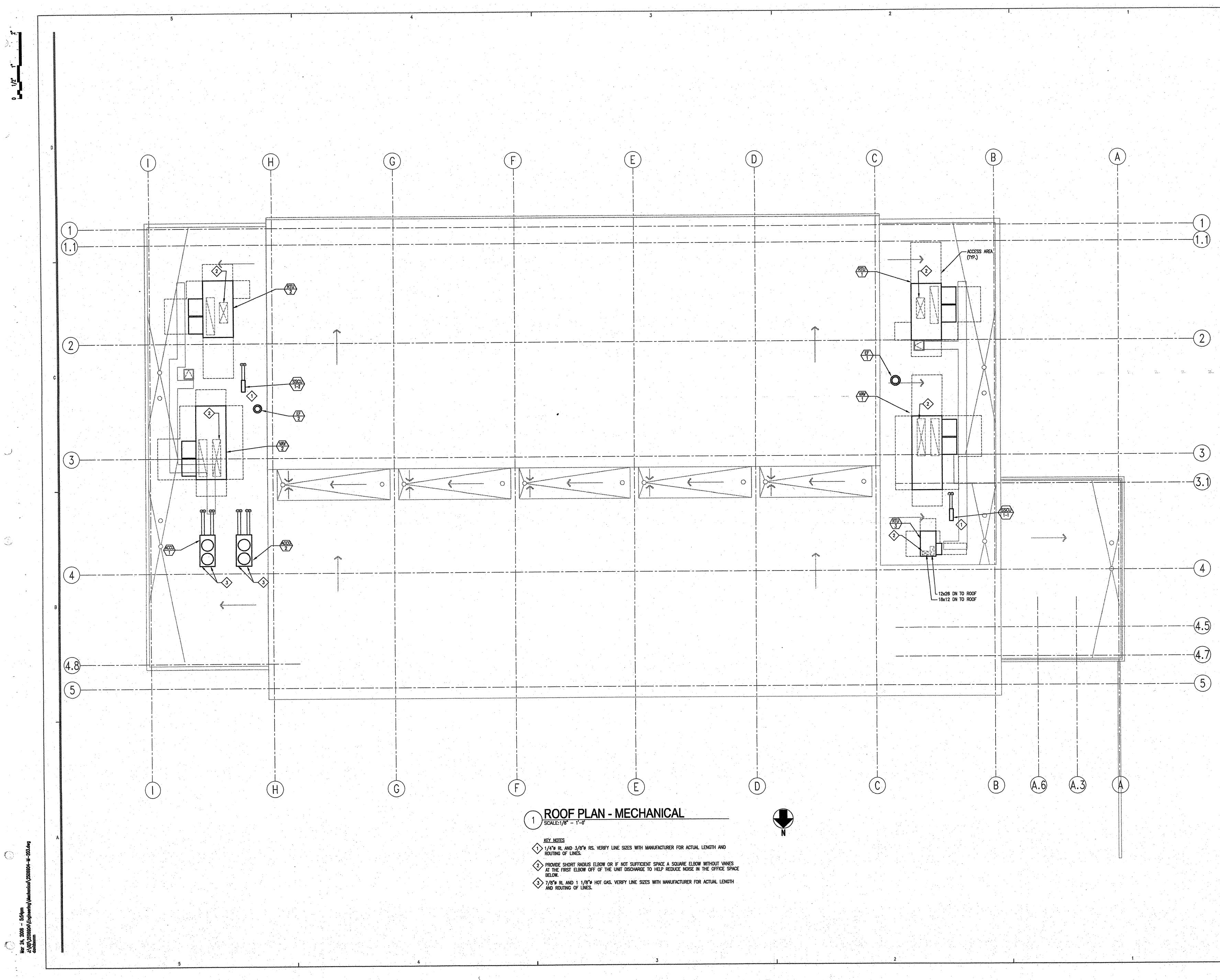
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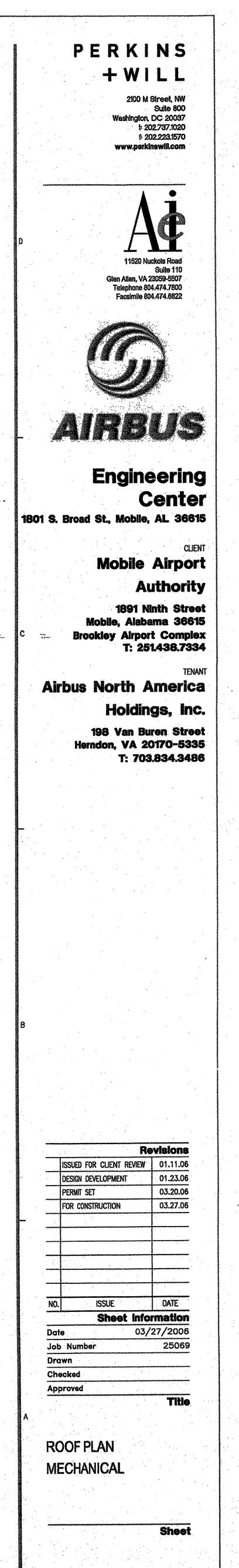
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	FOR CONSTRUCTION	03.27.06
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	BULLETIN #10 FIRE/SMOKE DPR/TRANSFERS	08.23.06
Ä	BULLETIN #11 FIRE/SMOKE_DPR/TRANSFERS_	09.25.06
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UPPER LEVEL MECHANICAL PLAN



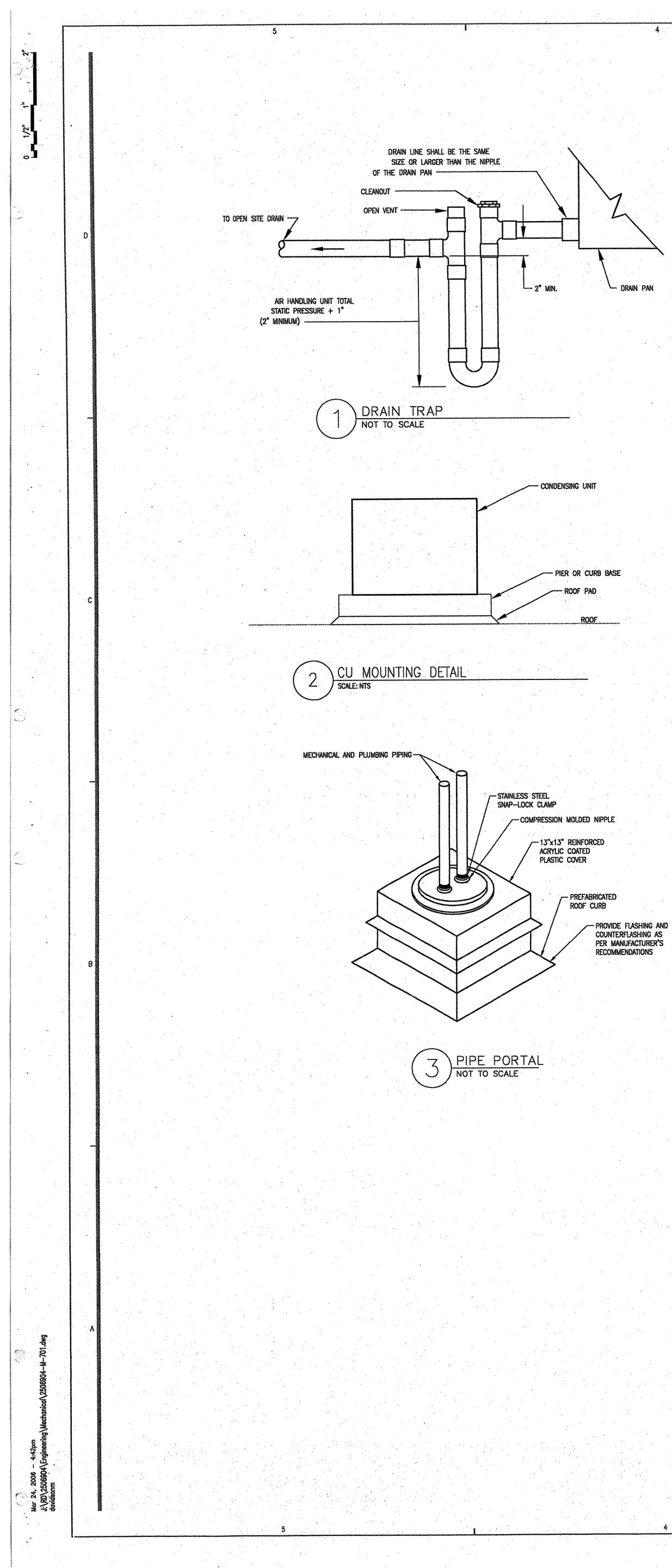
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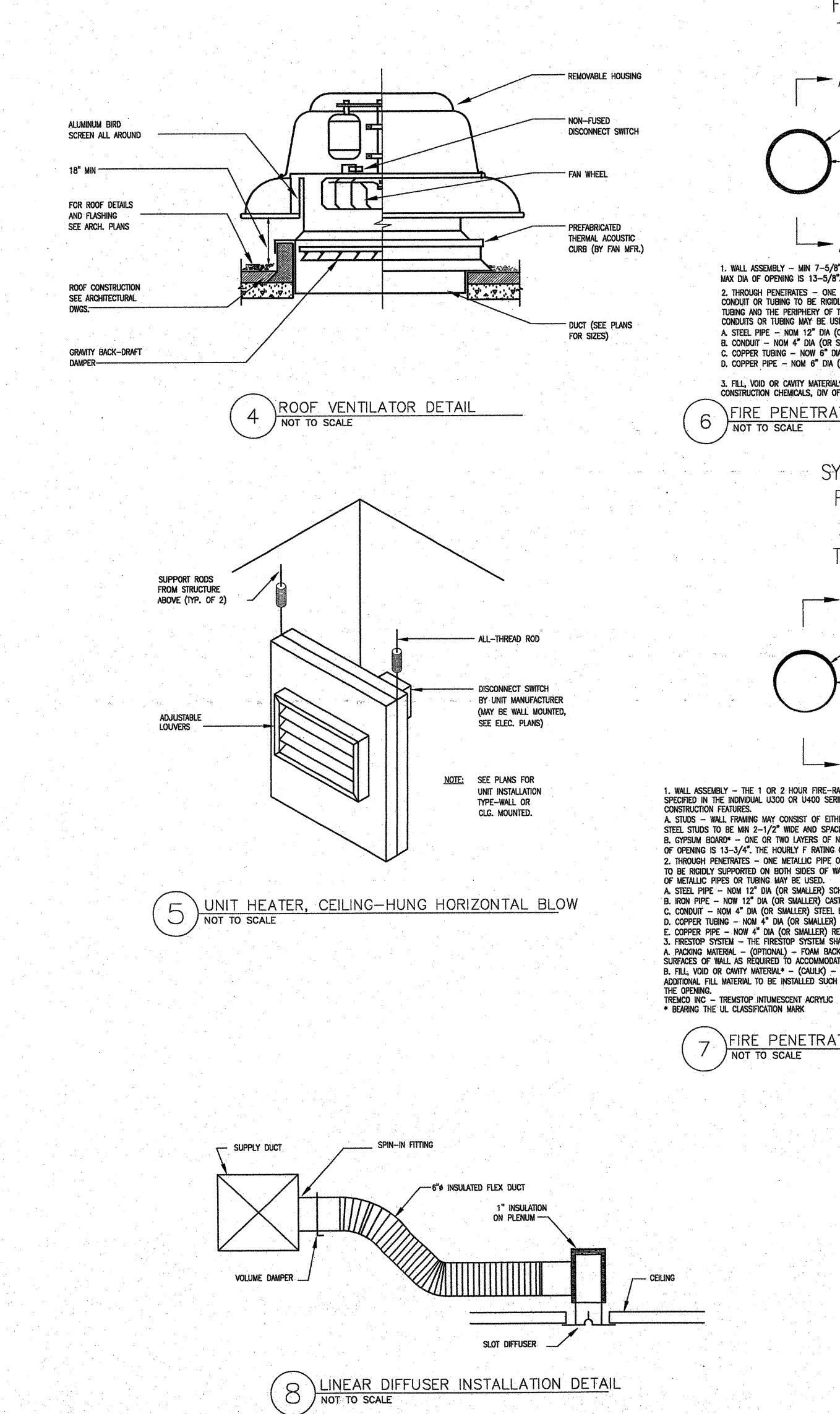




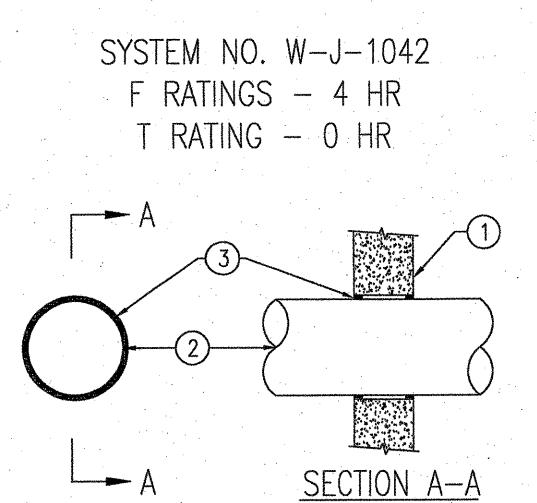
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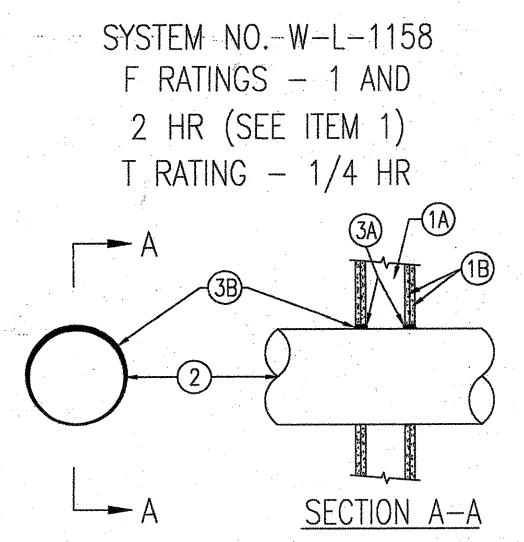
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1. WALL ASSEMBLY - MIN 7-5/8" THICK WALL ASSEMBLY CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MIN 4 HR RATED WALL. MAX DIA OF OPENING IS 13-5/8°. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE DIRECTORY FOR NAMES OF MANUFACTURERS. 2. THROUGH PENETRATES - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED CONCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND THE PERIPHERY OF THE OPENING SHALL BE MIN 3/8" TO 1/2" MAX. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED: A. STEEL PIPE - NOM 12" DIA (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE B. CONDUIT - NOM 4" DIA (OR SMALLER) STEEL ELECTRIC METALLIC TUBING OR 6" DIA STEEL CONDUIT

C. COPPER TUBING - NOW 6" DIA OR SMALLER TYPE L(OR HEAVIER) COPPER TUBING. D. COPPER PIPE - NOM 6" DIA (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE 3. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 2" THICKNESS APPLIED WITHIN ANNULUS FLUSH WITH BOTH SURFACES OF WALL. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE SEALANT *BEARING THE UL CLASSIFICATION MARK

FIRE PENETRATION DETAIL - VERIFY & INSTALL PER MANUFACTURES RECOMMANDATIONS NOT TO SCALE



1. WALL ASSEMBLY - THE 1 OR 2 HOUR FIRE-RATED GYPSUM WALLBOARD STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2" X 4" LUMBER SPACED 16" OC.

STEEL STUDS TO BE MIN  $2-1/2^*$  WIDE AND SPACED 24" OC. B. GYPSUM BOARD* - ONE OR TWO LAYERS OF NOM 1/2" OR 5/8" THICK GYPSUM WALLBOARD AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIA OF OPENING IS 13-3/4". THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. 2. THROUGH PENETRATES - ONE METALLIC PIPE OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MIN O" (POINT CONTACT) TO MAX 1". THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED.

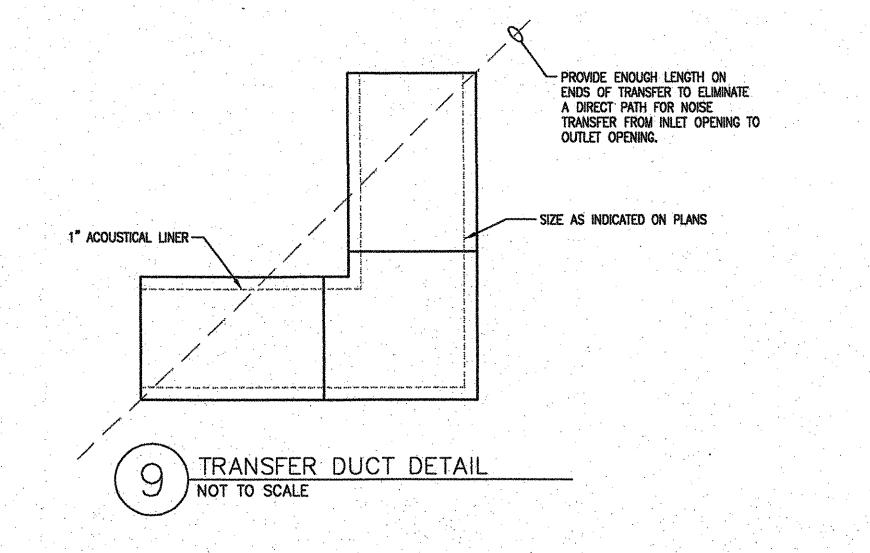
A. STEEL PIPE - NOM 12" DIA (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. B. IRON PIPE - NOW 12" DIA (OR SMALLER) CAST OR DUCTILE IRON PIPE.

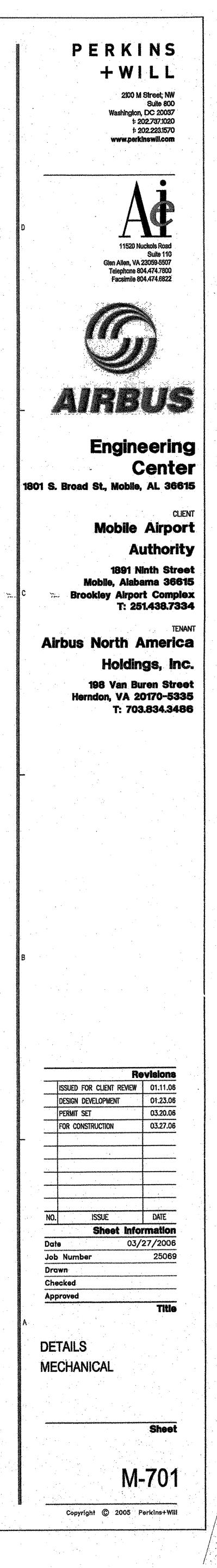
C. CONDUIT - NOM 4" DIA (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOM 6" DIA (OR SMALLER) STEEL CONDUIT. D. COPPER TUBING - NOM 4" DIA (OR SMALLER) TYPE L (OR HEAVER) COPPER TUBING.

E. COPPER PIPE - NOW 4" DIA (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. 3. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. PACKING MATERIAL - (OPTIONAL) - FOAM BACKER ROD FIRMLY PACKED INTO THE OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. B. FILL, VOID OR CAVITY MATERIAL* - (CAULK) - MIN 1/2" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. ADDITIONAL FILL MATERIAL TO BE INSTALLED SUCH THAT A MIN 3/8" CROWN IS FORMED AROUND THE PENETRATING ITEM AND LAPPING 1/2" BEYOND THE PERIPHERY OF

FIRE PENETRATION DETAIL - VERIFY & INSTALL PER MANUFACTURES RECOMMANDATIONS NOT TO SCALE





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	PRIMAR	YAIR				FAN		1				, , ,			EAT CO				DISCI				NER -	DB	RADIA		SOUN			DB	CHOIC	MANUFACTURER	REMARKS
UNIT NO.	CFM MAX	CFM MIN	INLET SIZE	MOTOR	HP	V	ELECT	RICAL HZ	AMP	ESP P.D.	design MBH	KW	STEP	EAT	LAT F	V E	LECTRICA	HZ	MAX		ctave 1" difi		ESSURI		MAX.		xtave I [•] Dif			8E	SMOKE DETECTOR	& MODEL NO.	KENAKAS
	<u> </u>	<u> </u>		NO.						· · · ·								·	2	3	4	5	6	7	2	3	4	5	6	7			
										-			,			:												<u>.</u>			84 J. J.		
1L01	680	170	8	. 1	1/4	277	1	60	1.5	0.43	17	5	3	55.0	87	277	11	60	68 .	69	69	67	64	63	70	70	65	61	54	52	NO	CARRIER SERIES NO. 45J UNIT SIZE 3	· .
P1-L02	150	90	6.	1	1/10	277	1	60	0.7	.0,5	7	2	3	55.0	101	277	. 1	60	55	558	59	54	49	45	62	63	58	49	45	41	NO	CARRIER SERIES NO. 45J	
P1-L03	390	90	6		1/4	277	1	60	07	0.5	10	3	3	55.0	87	277		60	65	66	66	62	58	56	68	69	63	55	50	47	NO	UNIT SIZE 2 CARRIER SERIES NO. 45J	
1-200	380	. 30	0		• •	:	•							ļ																	110	UNIT SIZE 3	
P1-L04	680	170	8	1	1/4	277	1	60	1.5	0.5	17	5	3	55.0	85.7	277		`60 ·	67	66	67	64	62	60	69	69	63	58	52	49	NO	CARRIER SERIES NO. 45J UNIT SIZE 3	
P1-L05	690	170	8	1	1/4	277	1	60	1.5	0.5	17	5	3	55.0	85.4	277	1	60	67	66	67	64	62	60	69	69	63	58	52	49	NO	CARRIER SERIES NO. 45J UNIT SIZE 3	
P1-L06	500	90	6	1.	1/10	277	<u>.</u> 1.	60	1.5	0.6	14	· 4	3	55	88.4	277	1	60	63	59 ·	61	56	53	51	65	64	59	52	47	43	NO	CARRIER SERIES NO. 45J	
- 		170	0		1/4	277		60	1.5	0.6	6	5	3	55	00.1	277	1	60	65	64	64	61	58	56	67	67	61	56	50	47	NO	UNIT SIZE 2 CARRIER SERIES NO. 45J	
P1-L07	560	170	8		1/4	2//	1.	ο <u>ν</u>	1.0	0.0					<u> </u>		*	L														UNIT SIZE 3	
P1-L08	400	90	6	1	1/10	277	1	60	0.7	0.45	3	3	3	55	86.4	277	1	: 60	65	66	66	62	58	56	68	69	63	55	50	47	NO	CARRIER SERIES NO. 45J UNIT SIZE 2	· · · ·
P1-L09	700	.170	8	1	1/4	277	1	60	1.5	0.5	6	5	3	55	85.1	277	. 1	60	67	66	67	64	62	60	69	69	63	58	52	49	NO	CARRIER SERIES NO. 45J	
		· · · · · · · · · · · · · · · · · · ·													<u> </u>		<u> </u>	<u> </u>												· · · · · · · · · · · · · · · · · · ·		UNIT SIZE 3	***
P1	2770	650	- 16	2	3/4	277	1	-60	9.9	0.6	21	20	3	55	85.4	480	3	60	74	72	71	70	68	66	77	74	70	65	61	58	YES	CARRIER SERIES NO. 45J UNIT SIZE 7	
P1-U02	980	170	8	1	1/4	277	1	60	2.1	0.6	6	7	3	55	85.8	277	1	60	66	67	68	69	66	59	66	65	61	55	48	45	NO	CARRIER SERIES NO. 45J	
	200	00	6		1/10	277		60	0.7	0,3		3	3	55	95.6	277	<u> </u>	60	59	61	61	57	53	49	65	65	60	51	47	44	NO.	UNIT SIZE 4 CARRIER SERIES NO. 45J	
P1-U03	280	90	6		1/10	211							·																			UNIT SIZE 2	
P1-U04	400	90	6	1	1/10	277	1	60	0.7	0.45	3	3	3	55	86.4	277	1	60	65	66	66	62	58	56	68	69	63	55	50	47	NO	CARRIER SERIES NO. 45J UNIT SIZE 2	
P1	660	170	8.	1	1/4	277	1	: 60	1.5	0.58	6	5	3	55	87.5	277	1	60	67	66	67	64	62	60	69	69	63	58	52	49 ·	NO	CARRIER SERIES NO. 45J UNIT SIZE 3	
P1-U06	3250	650	16	2	3/4	277	1	60	9.9	0.6	22	23	3	55	85.6	480	3	60	77	76	75	75	72	71	79	77	72	68	64	61	YES	CARRIER SERIES NO. 45J	
						077	<u> </u>	60	4 5	0.47		6	3	55	89	277		60	67	66	67	64	62	60	70	70	65	61	54	52	NO	UNIT SIZE 7 CARRIER SERIES NO. 45J	
P1007	750	170	8		1/4	277		00	1.5	0.47	0							00	<u> </u>			•										UNIT SIZE 3	unguputané menterané dan salahan salahan salahan salahan salahan salahan salahan salah salah salah salah salah
P1-U08	265	90	6	1	1/10	277	1	60	0.7	0.6	3	2	3	55	85.4	277	1	60	59	61	61	57	53	49	65	65	60	51	. 47	44	NO	CARRIER SERIES NO. 45J UNIT SIZE 2	· •
					<u> </u>												1				-			~~~	70	70	00	20	50	EA	NA	CARRIER SERIES NO. 45J	
P2L01	880	170	8	1	1/4	277	1	60	1.5	0.6	5	5	3	55	. 81	277		60	69	71	71	69 -	67	66	72	72	66	62	56	54	NO	UNIT SIZE 3	
FP2-L02	340	90	6	1	1/10	277	1	60	0.7	0.6	4	3	3	55	91	277	1	60	62	63	64	59	56	53	67	67	61	53	49	45	NO	CARRIER SERIES NO. 45J UNIT SIZE 2	
FP2-L03	335	90	6	1	1/10	277	1	60	0.7	0.6	3	3	3	55	90.6	277	1	60	62	63	64	59	56	53	67	67	61	53	49	45	NO	CARRIER SERIES NO. 45J	
FP2-L04	275	90	6	4	1/10	277	1	80	0.7	0.6		3	3	55	96.2	277	$\frac{1}{1}$	60	59	61	61	57	53	49	65	65	60	51	47	44	NO	UNIT SIZE 2 CARRIER SERIES NO. 45J	/
rr2-lu4	2/3	80	0						<b>_</b>				<u></u>				l.													ļ		UNIT SIZE 2	
FP2-L05	1675	360	12	1	3/4	277	1	60	3.5	0.6	12	12	3	-55	85.4	480	3	60	74	73	72	/1	70	69		13	66	59	55	52	NO	CARRIER SERIES NO. 45J UNIT SIZE 6	
FP2-L06	500	90	8	. 1	1/4	277	1	60	1.5	.0.6	3	4	3	55	88.4	277	1	60	63	59	61	56	53	51	65	64	59	52	47	43	NO	CARRIER SERIES NO. 45J UNIT SIZE 3	
FP2-L07	670	170	8	1	1/4	277	1	60	1.5	0.6	6	5	3	55	87.2	277	1	60	67	66	67	64	62	60	69	69	63	58	52	49	NO	CARRIER SERIES NO. 45J	
المعاسم المحملين المحمولين المحمولين والمحم	400	90	6	4	1/10	277	-	60	0.7	0.6	3	3	3	55	86.4	277	1	60	65	66	66	62	58	56	69	69	63	58	52	49	NO	UNIT SIZE 3 CARRIER SERIES NO. 45J	
FP2-L08							<u> </u>	ļ.			ļ.,	-																				UNIT SIZE 2	· .
FP2-L09	560	170	8	. 1.	1/4	277	1	60	1.5	0.6	6	4	3	55	85.9	277	1	60	65	64	64	61	58	56	67	67	61	56	50	47	NO	CARRIER SERIES NO. 45J UNIT SIZE 3	
										~~	1	+			OF P	480			75	72	71	70	68	66	76		69	64	60	57	YES	CARRIER SERIES NO. 45J	
P2U01	2520	500	16	2	3/4	277	1	60	9.9	0.6	17	18	3.	55	85.5	480	3	60	/5								09	ļ		57		UNIT SIZE 7	
FP2	310	90	6	1	1/10	277	1	60	0.7	0.6	4	3	3	55	92.6	277	1	60	59	61	61	57	53	49	65	65	60	51	47	44	NO	CARRIER SERIES NO. 45J UNIT SIZE 2	
FP2	320	90	6	1	1/10	277	1	60	0.7	0.6	4	3	3	55	91.8	277	1	60	59	61	61	57	53	49	67	67	61	53	49	45	NO	CARRIER SERIES NO. 45J	
FP2	240	90	6	1	1/10	277	1	60	0.7	0.6	3	2	3	55	87.5	277	- 1	60	55	.58	59	54	49	45	62	63	58	49	45	41	NO	UNIT SIZE 2 CARRIER SERIES NO. 45J	
									<u> </u>			<u> </u>		<u> </u>														62	56	<u> </u>	NO	UNIT SIZE 2 CARRIER SERIES NO. 45J	4==
FP2U05	900	170	10	1	1/4	277	1.	60	1.5	0.6	6	6	3	55	86.1	277		60	69	71		0A	67	<b>66</b>	72	<b>72</b>	66			34		UNIT SIZE 4	- 
FP2-U06	660	170	8	1	1/4	277	1	60	1.5	0.6	6	5	3	55	87.5	277	1	60	67	66	67	64	62	60	69	69	63	58	52	49	NO	CARRIER SERIES NO. 45J UNIT SIZE 3	
FP2	3250	650	16	2	3/4	277	1	60	9.9	0.6	22	23	3	55	85.5	480	3	60	77.	76	75	75	72	71	79	77	72	68	64	61	YES	CARRIER SERIES NO. 45J	
747949999999	1	<u> </u>		-	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u>  </u>		<u> </u>			. 	<u> </u>	<u></u>		<b> </b>	ļ	<b> </b>	ļ					<u> </u>	<u> </u>			UNIT SIZE 7	

NOTES:

			010160	**				÷													<b>S</b> .	<i>.</i>	. ·								d					``
			•		÷											· ·	RO	OFTO	P UN	IT SC	HEDU	E	· .		, .		- <u>-</u>							· · ·	- -	
٧IT	NOMINAL	Long and the second sec	UPPLY	the second s	mainte	OA			NG COI			UMP HTG		LECTRICAL H	1 ^{12.12.12}		RELIEF	COND	. FAN	Surger and the second s	COMPRESSO	مريار ومكون والموالي والأخا	Ì						DE SOL				SMOKE	MANUFACTURER		OFLADIC
10.	TONS	CFN	M ESI	P HP	<b>)</b>	CFM	eat f DB	EAT F WB	1	MBH		INTEG MBH	EAT	CAPACITY MBH	KW	STEPS	TYPE FLA	NÖ	HP	NO	RLA (EA)	HP	MCA I	NCOP	V	PH		2	CTAVE	CENTER 5		<u>}.</u> 7	DETECTOR	& MODEL NO. BASED ON	WEIGHT LBS	REMARKS
TU	20	745	50 1.5	5 10	) 1	1175	-	2		218.9			62.7	90.7	36	1	EXH FAN 23.6	2	.1	1	17.8 17.8		126.2	150	460	3	60 9	96	94 9	3 93	5 91	86	Ŷ	CARRIER 50EJQ024	4600	SEE NOTES
U	20	745	50 1.5	5 10		1175	78.1	64.4	179.7	224.2	123.1	123.1	62.9	95.2	36	1	EXH FAN 23.6	2	· 1		17.8 17.8		126.2	150	460	3	60 9	96	94 9	3 93	5 91	86	Y	CARRIER 50EJQ024	4600	SEE NOTES
J	5	250	0 0.7	5 3		250	73.6	61.5	50.8	58.2	41.1	37.7	66.1	39.7	12.9	1	GRAVITY DAMPER	1	0.25	1	9.6		37	40	460	3	60 7	70	67 7	2 75	5 72	68	Y	CARRIER 50HJQ007H	800	SEE NOTE
1	40	1480	00 2.8	6 20	)	3350	78.4	64	357	457	-	-	-				EXH FAN 12.6	4	1	2	13.5 16		118.8	125	460	3	60 <	97	96 9	6 94	89	89	Y	CARRIER 50AK040	6000	SEE NOTE
V	40	1459	902.62	25 20	<b>)</b>	3210	78.9	64.1	360	456			-	-			EXH FAN 12.6	4	1	2	13.5	*****	118.6	125	460	3	60 9	97	96 9	6 94	1 89	89	Y	CARRIER 50AK040	6000	SEE NOTES

1. PROVIDE INTEGRATED MICROPROCESSOR CONTROLS, ECONOMIZER CYCLE WITH COMPARATIVE ENTHALPY'S AND 0-100% MODULATION. 2. PROVIDE WITH HINGED ACCESS DOORS, DISCONNECT SWITCH, CORROSION RESISTANT DRAIN PAN, CLOGGED FILTER AND FAN FAILURE, HIGH PRESSURE CUTOUT, COMPRESSOR CYCLE DELAY, 3. CO2 CONTROL, SMOKE DETECTOR IN RETURN AHEAD OF FILTERS-OA AND RELIEF INTAKES, HOT GAS BYPASS, ROOF CURB.

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	*****	949-1497-1497-1497-1497-1497-1497-1497-1			COMF	UTER	ROOM	I AIR	COOL	ED AI	R COI	NDITIO	ONING	UN	T S(	CHED	ULE							:		-	AIR	CO	OLED	CON	NDEN	SER SC	HEDULE	
UNIT	NOMINAL	AREA	T	SUPPI	Y FAN		C	DOLING CO	)IL	AMBIENT	HEATER	HUMI	DIFIER			ELECTR	RICAL		I						FAN			ELECTR	ICAL DATA	١				
NO	TONS	SERVED	CFM	HP	NO.	ESP	EAT F	BTUH	BTUH	TEMP	KW	KW	LBS/HR	FLA	MCA	MCOP	V	PH	HZ	SMOKE	UNIT	MANUFACTURER	UNIT	i Hi	NO NO	. FLA	MCA	MCOP	V	PH	HZ	UNIT	MANUFACTURER	REMARKS
					QTY.	WG	OB/WB	SENS.	1	DEF F										DETECTOR	WEIGHT	& MODEL NO.	NO.				<u> </u>					WEIGHTS	& MODEL NO.	
CRAC	15	SERVER	8400	3	2	0.4	. <u>An an an</u>		184500		25	7.2	22	51.6	63.3	60	460	3	60	YES	1840	LIEBERT	ACCU	) 3/	4 2	4.2	4.8	. 15	460	3	60	495	LIEBERT	1,2,4,5,6
1	DN. FLOW	ROOM										1 A.			· ·				l			DH199	1					<u> </u>					DCDF205	
CRAC	15	SERVER	8400	3	2	0.4	75/61	184500	184500	95	25	7.2	22	51.6	63.3	60	460	3	60	YES	1840	LIEBERT	ACCU	1 3/	4 2	4.2	4.8	15	460	3	60.	495	LIEBERT	1,2,4,5,6
201010	DN. FLOW	ROOM	0100																			DH199	2					1. A.		· . ·		-	DCDF205	

1. PROVIDE THE FOLLOWING EQUIPMENT WITH EACH UNIT: CONDENSATE PUMP WITH CHECK VALVE, COORDINATE CONNECTION OF ALL SMOKE DETECTORS WITH FIRE ALARM SYSTEM. 2, PROVIDE UNIT WITH STANDARD FILTERS, 4 STEP DX, ADVANCED MICROPROCESSOR, ELECTRIC REHEAT, STEAM GENERATING HUMIDIFIER AND SMOKE DETECTOR. 3. PROVIDE UNIT WITH RAISED FLOOR STAND. VERIFY RAISED FLOOR HIEGHT.

4. PROVIDE INDOOR AND OUTDOOR UNIT WITH FACTORY MOUNTED DISCONNECT SWITCH.

<u></u>	myggygirydrau ywraenint eniwrdd dafan		SPLIT	SYST	EM	AIR C	OND	ITIO	VING	UN	IT S	CHE	DULE	•	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	nternet af light and a strategy more supported to the				AIF	R CO	OLEI	D CO	NDENSE	R SCHEDULE	
UNIT	NOMINAL	AREA	SUPPLY			AMBIENT	· [ · · · ·			E	LECTRIC	AL				1	ιματροποτικα δια έ το το ποι το πορογία το το ποι διαστορικό το δρατικό το Στοπό της τη πορογίας στη διαθού τη π Το ποι το ποι	UNIT			ELECTRIC					
NO.	TONS	SERVED	CFM	BTUH SENS	1		HTR.	FLA	FAN HP	FLA	MCOP	V	PH	HZ	SMOKE DETECTOR	UNIT	MANUFACTURER & MODEL NO.	NO.	MCA	MCOP		PH	HZ	UNIT WEIGHTS	MANUFACTURER & MODEL NO.	REMARKS
SS	1.5	1ST FL DEMARC ROOM	315	11950	16500		-	-		0.46	15	115	1	60	NO	30	SANYO KS1852	SSCU 1-1	8.4	15	208	- 1	60	105	SANYO CL1852	1,2
SS 1-2	1.5	1ST FL. ELEV. EQUIP ROOM	315	11950	16500	95	-	-		0.46	15	115	1	60	NO	30	SANYO KS1852	SSCU 1-2	8.4	15	208	. 1	60	105	SANYO CL1852	1,2
. PROVIDE AL		PAN BELOW EACH WALL MOUNTED MOUNTED CONTROLLER, ALARM BU		MATION S	ystem if	SPACE TE	MPERAT	URE IS	ABOVE	ADJUST	ABLE SE	ETPOINT		- <b>J</b>	<b>S</b> amuran ya kata ya kata mana maya ya kata		<u>Gan gan mang dalam kang kang dalam kang dalam</u>									· · · · · · · · · · · · · · · · · · ·

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UNIT	CFM		INLET	SP		R	EHEAT (	coil.					: Sou 1.5" D		•					id poi		1	SMOKE	MANUFACTURER	REMARKS
NO.	MIN	MAX	SIZE	PD	KW	EAT	LAT	۷	PH	Hz	2.	3	4	5	6	7	2	3	4	5	6	7	DETECTOR	& MODEL NO.	
							· ·	·	:						·									· · ·	
SD1-L01	75	145	5	0.15							61	61	55	51	49	-45	59	50	43	39	37	34	NO	CARRIER 35E UNIT SIZE 05	
SD1-L02	290	580	10	0.15			-				67	69	59	55	52	49	60	57	50	41	37	32	NO	CARRIER 35E UNIT SIZE 10	
SD1-L03	140	250	7	0.11		-	-	-			67	63	58	52	50	47	63	52	45	40	36	33	NO	CARRIER 35E UNIT SIZE 07	
SD1-L04	55	75	4	0.13	1	55	100	277	. 1	60									-				· NO	CARRIER 35E UNIT SIZE 04	1
SD1-L05	75	125	5	0.15		-	-	-				· · · · · · · · · · · · · · · · · · ·		-	. in		<b></b>		-	-			NO	CARRIER 35E UNIT SIZE 05	
SD1U01	50	65 .	4.	0.08		-		-	. —		-		-	-			· · ·						NO	CARRIER 35E UNIT SIZE 04	
SD2-L01	140	260	7	0.11	-						67	63	58	52	50	47	63	52	45	40	36	33	NO	CARRIER 35E UNIT SIZE 07	
SD2-L02	185	300	8	0.13		-	-	-	·	-	65	68	61	54	50	48	62	58	50	44	42	38	NO	CARRIER 35E UNIT SIZE 08	
SD2-L03	110	180	6	0.11	· · · ·		-	_		-	61	61	55	51	49	45	59	50	43	39	37	34	NO	CARRIER 35E UNIT SIZE 06	
SD2-L04	140	200	7	0.08	-	-	-		-		67	63	58	52	50	47	63	52	45	40	36	33	NO	CARRIER 35E UNIT SIZE 07	

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1. PROVIDE WITH DISCONNECT.

			FFUSER, RE	UDILN Q		SUILDUL			
NO.	ТҮРЕ	FACE SIZE	NECK SIZE	CFM RANGE	MAX SP	NC LEVEL	MATERIAL	MANUFACTURER	REMARKS
					IN. WG	DB		& MODEL NO.	
A1	DIRECT SPIRAL DUCT MOUNTED SUPPLY	18" X 6"	17.75° X 5.75"	50-380	0.125	24	STEEL	TITUS S300FS	3,4
A2	DIRECT SPIRAL DUCT MOUNTED SUPPLY	24" X 6"	23.75" X 5.75"	380-530	0.125	26	STEEL	TITUS S300FS	3,4
A3 _	DIRECT SPIRAL DUCT MOUNTED SUPPLY	36" X 3"	35.75" X 2.75"	50-300	0.125	19	STEEL	TITUS S300FS	3,4,5,6 PROVIDE SAMPLE
B1	CEILING RETURN AIR GRILLE PERFORATED FACE	12" X 12"	10" X 10"	0-420	0.1	14	ALUMINUM	TITUS PAR-AA	1,2
B2	CEILING RETURN AIR GRILLE PERFORATED FACE	24" X 24"	22" X 22"	0-2000	0,1	19	ALUMINUM	TITUS PAR-AA	1,2
C1	CEILING SUPPLY AIR DIFFUSER	24" x 24" 4 - WAY	6" DIAM.	0 - 125	0.04	12	ALUMINUM	TITUS. TMS-AA	1,2
C2	CEILING SUPPLY AIR DIFFUSER	$24^{\circ} \times 24^{\circ}$ 4 - WAY	8" DIAM.	126-250	0.05	16	ALUMINUM	TITUS TMS-AA	1,2
C3	CEILING SUPPLY AIR DIFFUSER	24" x 24" 4 - WAY	10" DIAM.	251-410	0.06	20	ALUMINUM	TITUS TMS-AA	1,2
C4	CEILING SUPPLY AIR DIFFUSER	$\frac{4}{24^{\circ}} \times 24^{\circ}$ 4 - WAY	12" DIAM.	411-675	0.05	26	ALUMINUM	TITUS TMS-AA	1,2
C5	CEILING SUPPLY AIR DIFFUSER			676-950	0.09	- 29 -	- ALUMINUM	TITUS TMS-AA	1,2
D1	CEILING RETURN AIR GRILLE	12" x 12"	10" x 10"	0-420	0.1	14	ALÚMINUM	TITUS TMS-AA	1,2
D2	LOUVERED FACE CEILING RETURN AIR GRILLE	24" x 24"	22" x 22"	0-2000	0.13	20	ALUMINUM	TITUS TMS-AA	1,2
E1	LOUVERED FACE SLOT DIFFUSER	AS NOTED	3" WIDE	32-60 CFM/SF	0.05	17	ALUMINUM	TITUS CT480	1,2
É2	0 DEG. DEFLECTION SLOT DIFFUSER	AS NOTED	6" WIDE	36–150 CFM/SF	0.05	28	ALUMINUM	TITUS CT541	1,2
F1	15 DEG. DEFLECTION EGGCRATE - TRANSFER 1/2*x1/2*x1* CORE	38x22	36x20	50-2400	0.05	19	ALUMINUM	TITUS 50F	1,2
F2	EGGCRATE - EXH/RETURN 1/2"x1/2"x1" CORE	14x12	12x10	575	0.1	26	ALUMINUM	TITUS 50F	1,2
G1	SIDEWALL SUPPLY	14x8	12x6	50-500	0.03	23	ALUMINUM	TITUS 301FS	1,2,5
DESIGN ORMATION	AIR RETURN THRU LIGHT 2' X 2'	ų (, quurų aryvaitais paraitaių tais vietais dirink		100	0.06				
DESIGN ORMATION	AIR RETURN THRU LIGHT 4' X 2'		: : : : : : : : : : : : : : : : : : : :	180	0.06				(1. s. s. s.

3. ANGLE OF DEFLECTION: 22.5°

ea sijsstker

4. FOR DUCT VELOCITIES GREATER THAN 600 FPM, PROVIDE A DAMPER/EXTRACTOR. 5. COORDINATE DIFFUSER FINISH WITH ARCHITECT TO MATCH EXPOSED DUCTWORK WHEN DUCTWORK IS EXPOSED.

6. PROVIDE SAMPLE OF DIFFUSER TO ARCHITECT/ENGINEER FOR APPROVAL BEFORE ORDERING DIFFUSER TO VERIFY APPEARANCE AND ADJUSTMENT CAPABILITIES

UNIT	FAN TYPE	SERVICE	CFM	EXT.	RPM	DRIVE		ELEC	<b>TRICA</b>	L		MANUFACTURER	REMARKS
NO.				S.P.		· .	HP	WATTS	۰V	PH	Hz	& MODEL NO.	
EF-1	CENTRIFUGAL	TOILET AND JANITOR	1050	0.75	1537	BELT	0.25		115	1	60	GREENHECK GB-101	NOTES - 1,3 8.7 SONES, 64LBS
EF-2	CENTRIFUGAL	TOILET	515	0.5	1247	BELT	0.25	·	115	1	60	GREENHECK GB-091	NOTES - 1,3 7.8 SONES, 64LBS
EF1-1	CENTRIFUGAL	IT CLOSET	500	0.125	1300	DIRECT	1/25		115	1	20	GREENHECK SQ90	NOTES - 2,3,4,5 5.4 SONES, 40LBS
EF1-2	CENTRIFUGAL	ELECTR. CLOSET	500	0.125	1300	DIRECT	1/25		115	1	20	GREENHECK SQ90	NOTES - 2,3,4,5 5.4 SONES, 40LBS
EF2-1	CENTRIFUGAL	ELECTR. CLOSET	500	0.125	1300	DIRECT	1/25		115	- <b>1</b> -	20	GREENHECK SQ90	NOTES - 2,3,4,5 5.4 SONES, 40LBS
F2-2	CENTRIFUGAL	ELECTR. CLOSET	500	0.125	1300	DIRECT	1/25	-	115	1	20	GREENHECK SQ90	NOTES - 2,3,4,5 5.4 SONES, 40LBS

1. PROVIDE 12" ROOF CURB, DISCONNECT SWITCH, INSECT SCREEN, AND BACKDRAFT DAMPER.

2. PROVIDE WITH SPEED CONTROLLER MOUNTED ON FAN.

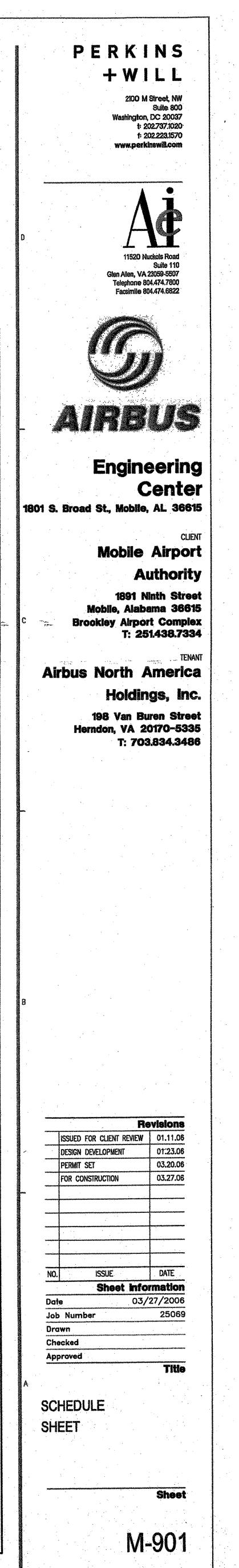
3. WEIGHT IS FOR FANS ONLY, DOES NOT INCLUDE WEIGHT OF CURBS.

4. DISCHARGE INTO RA PLENUM - TIE INTO DDC TO RUN WHEN BUILDING IS IN IT'S OCCUPIED MODE, OR IN UNOCCUPIED MODE WHEN T'STAT CALLS FOR HEATING OR COOLING. 5. PROVIDE WITH NEMA DISCONNECT SWITCH, WMS ON DISCHARGE OPENING ABOVE CEILING.

1

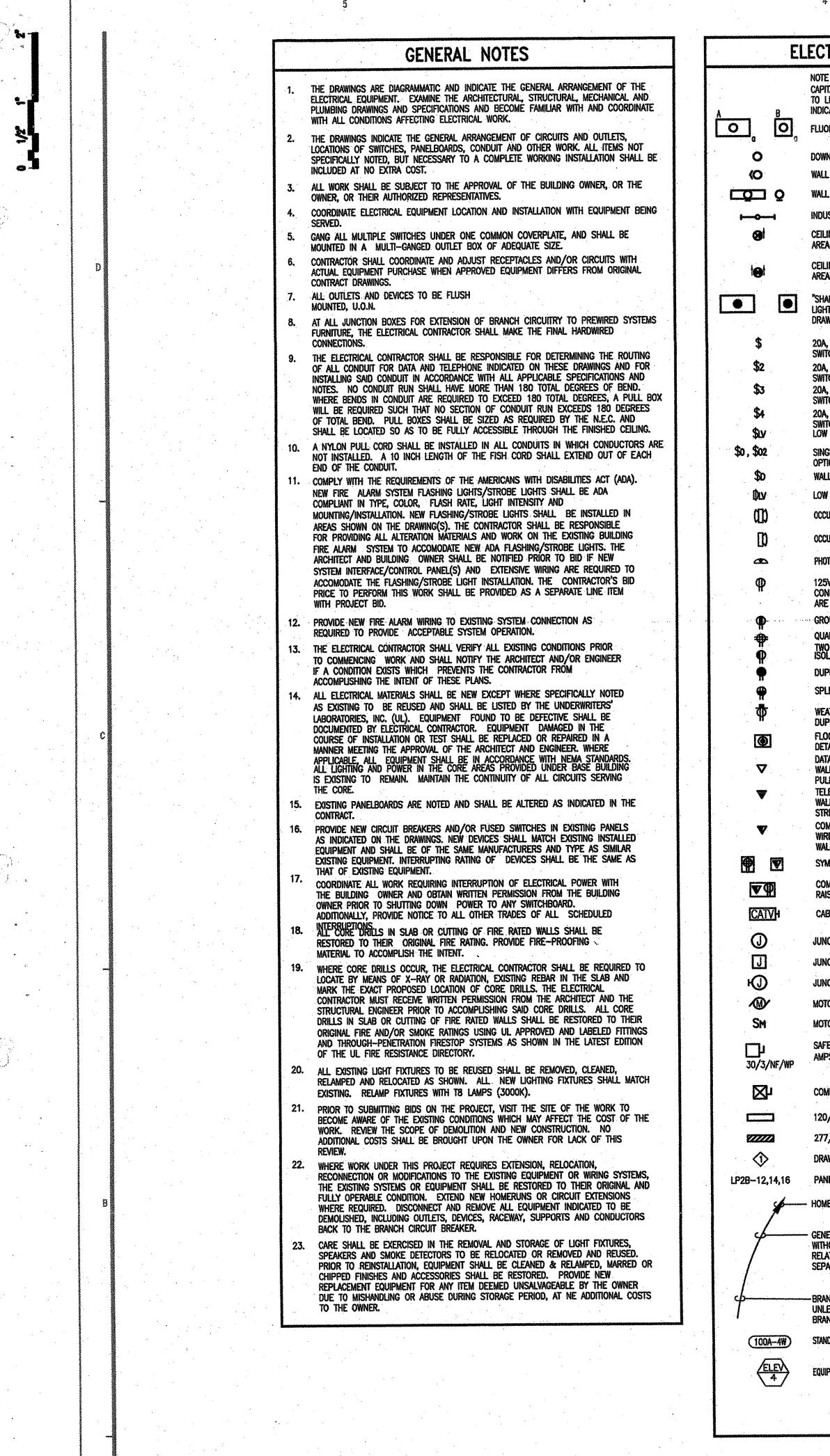
					ELE	ECTRIC	UNIT	HE	ATE	R S(	CHED	DULE	· ·	
UNIT	a ta plana se a s		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					ELE	CTRICAL			MANUFACTURER		
NO.	LOCATION	TYPE	CFM	EAT	LAT	CAPACITY	CAPACITY	V	PH	HZ	MCA	& MODEL NO.		REMARKS
				F	F	MBH	KW			,		·		
UH-1	LOADING	ELECTRIC	400	45	85	17.1	5	460	3	60	<b>6.1</b>	MARKEL MODEL	.	NOTE-1
	DOCK							· .				P3P5105		
-	- 		T			[·								
		•					с. н. н.							· · ·

NOTE-1 - SUMMER FAN SWITCH, WALL MOUNTED THERMOSTAT, POWER DISCONNECT SWITCH.



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1. Same 1.

EL	ECTRICAL SYMBOL LEGEND	FIRE PROTECTION SYMBOLS		
pistring	NOTE FOR ALL LIGHT FIXTURE AND SWITCH SYMBOLS: CAPITAL LETTER(S) NEAR FIXTURE SYMBOL INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTER BESIDE SYMBOL INDICATES SWITCHING.	FIRE ALARM [FCP] CONTROL PANEL DUCT SMOKE	TYPE	DOWNLIGHT
	FLUORESCENT LIGHT FIXTURES	O SMOKE DETECTOR OD DETECTOR	B	WALL BRACKET
0	DOWN LIGHT FIXTURE	► FIRE DAMPER CONNECTION	<b>F1</b>	RECESSED 2X2
	WALL WASH LIGHT FIXTURE	SE FIRE/SMOKE DAMPER CONNECTION DETECTOR	F2 F3	RECESSED 2X2 SURFACE MOUNTED S
	WALL MOUNTED LIGHT		F4	SURFACE
	INDUSTRIAL TYPE FLUORESCENT FIXTURE.		<u>F5</u> F6	RECESSED 2X2 RECESSED 2X2
•.	CEILING MOUNTED SINGLE FACE EXIT SIGN. FIXTURE TYPE X1. SHADED AREA DENOTES LIGHTED FACE. PROVIDE ARROWS AS INDICATED ON PLAN.	ALARM SIGNALLING UNIT	F7	RECESSED TROFFER
	CEILING MOUNTED DOUBLE FACE EXIT SIGN. FIXTURE TYPE X2. SHADED AREA DENOTES LIGHTED FACE. PROVIDE ARROWS AS INDICATED ON PLAN.	STROBE	F8 F9 F10	PENDANT FLUORESCE PENDANT FLUORESCE RECESSED WALL WAS
]	"SHADING" INDICATES EMERGENCY LIGHT FIXTURE ON EMERGENCY LIGHTING CIRCUIT or WITH SELF-CONTAINED BATTERY AS INDICATED ON DRAWING.	VALVE TAMPER SWITCH SINGLE-STATION OR MULTI-STATION SMOKE DETECTOR PRESSURE SWITCH		RECESSED CAN PENDANT FLUORESCE RECESSED WET LABE
	20A, 1 POLE, 120/277V LIGHT SWITCH. LOWER CASE LETTER INDICATES	PS PRESSURE SWITCH	- Income in the second	RECESSED WET LABE
	SWITCHING. 20A, 2 POLE, 120/277V LIGHT SWITCH. LOWER CASE LETTER INDICATES	SYMBOLS - SECURITY	F16	RECESSED CAN
	SWITCHING. 20A, 120/277V 3-WAY LIGHT SWITCH. LOWER CASE LETTER INDICATES			RECESSED_CAN RECESSED_FLUORESC
	SWITCHING. 20A, 120/277V 4-WAY LIGHT SWITCH. LOWER CASE LETTER INDICATES	CCTV CAMERA PTZ CCTV CAMERA WITH		WALL MOUNTED FLUO EXTERIOR WALL BRAC
	SWITCHING. LOW VOLTAGE LIGHT SWITCH	SECURITY SYSTEM		RECESS
	SINGLE/DUAL WALL SWITCH OCCUPANCY SENSOR WITH PHOTOCELL OPTION			GROUND MOUNTED
	WALL-BOX DIMMER SWITCH.	PUSH BUTTON     GLASS BREAK	H2	GROUND MOUNTED
	LOW VOLTAGE DIMMER SWITCH	ML MAGNETIC LOCK ES ELECTRIC STRIKE	<u>S1</u>	SITE LIGHTING FIXTUR
	occupancy sensor for lighting control - ceiling mounted	CRI CARD READER G BALANCED MAGNETIC DOOR CONTACTS	<u>S2</u> S3	BOLLARD LIGHT SITE LIGHTING FIXTUR
	OCCUPANCY SENSOR FOR LIGHTING CONTROL - WALL MOUNTED		55 54	SITE LIGHTING FIXTUR
	PHOTOCELL	DUAL TECH MOTION SENSOR	X1	SINGLE FACE EXIT SI
•	125V, 2P, 3W, GROUNDING TYPE, DUPLEX RECEPTACLE. NEMA CONFIGURATION 5-20R. ALL SPECIALTY DUPLEX RECEPTACLES BELOW ARE SIMILAR NEMA CONFIGURATION U.O.N.	ED ELECTRIC DEADBOLT REQUEST-TO-EXIT	X2	DOUBLE FACE EXIT S
· ····	GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE. QUAD RECEPTACLE (TWO STANDARD DUPLEX RECEPTACLES WITH A TWO-GANG PLATE). ISOLATED GROUND DUPLEX RECEPTACLE, ORANGE COLOR).	EXIT BUTTON SPEAKER	NOTE	S: 1. PROVIDE TRIM AN 2. PROVIDE POLE B/
	DUPLEX RECEPTACLE. WIRED TO UPS/GENERATOR POWER.		1	3. PROVIDE WITH AR
	SPLIT-WIRED OR TOP-HALF-SWITCHED GROUNDING DUPLEX RECEPTACLE.	ABBREVIATIONS		4. PROVIDE EMERGE
	WEATHERPROOF-WHILE-IN-USE, GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE.	A AMPERE MCB MAIN CIRCUIT BREAKER		
	FLOOR BOX REFER TO FLOOR PLANS FOR TYPE DESIGNATION AND DETAILS DWG E-601.	AT     AMPERE TRIP     MH     MOUNTING HEIGHT       AF     AMPERE FRAME     MLO     MAIN LUGS ONLY		
	DATA OUTLET. PROVIDE 3/4" EC AND PULL WIRE IN INSULATED WALLS STUBBED UP TO CEILING. IN ALL OTHER WALLS PROVIDE PULL STRING.	AFF ABOVE FINISHED FLOOR MOCP MAXIMUM OVERCURRENT PROTECTION AWG AMERICAN WIRE GAGE MTG MOUNTING		
x	TELEPHONE OUTLET. PROVIDE 3/4" EC AND PULL WIRE IN INSULATED WALLS STUBBED UP TO CEILING. IN ALL OTHER WALLS PROVIDE PULL	C CONDUIT N NEUTRAL CB CIRCUIT BREAKER NFSS NON-FUSED SAFETY SWITCH CKT CIRCUIT # NUMBER		
· .	STRING. COMBINATION TELEPHONE/DATA OUTLET. PROVIDE 3/4" EC AND PULL	CKT CIRCUIT # NUMBER EC EMPTY CONDUIT P POLE OR PHASE ESB ENERGY SAVING BALLAST PNL PANELBOARD		
	WIRE IN INSULATED WALLS STUBBED UP TO CEILING. IN ALL OTHER WALLS PROVIDE PULL STRING. REFER TO DETAIL E-601	(E) EXISTING QTY QUANTITY		•
	SYMBOLS WITHIN A RECTANGLE DENOTE ITEMS FLUSH IN FLOOR.	FSS FUSED SAFETY SWITCH UON UNLESS OTHERWISE NOTED		
	COMBINATION POWER/TELEPHONE/DATA OUTLET, FLUSH TYPE, FOR RAISED ACCESS FLOOR.	GFI, GFCI GROUND FAULT INTERRUPTER V VOLTAGE/VOLTS GND GROUND W WIRE OR WATTS		• • •
	CABLE TV OUTLET, WALL MOUNT.	HP HORSEPOWER WP WEATHERPROOF HPF HIGH POWER FACTOR XFMR TRANSFORMER		
	JUNCTION BOX - CEILING MOUNTED	IG ISOLATED GROUND (D) DEMOLITION K KELVIN (ER) EXISTING TO REMAIN		E
	JUNCTION BOX - FLOOR MOUNTED	KW KILOWATT		
	JUNCTION BOX - WALL MOUNTED			E-001 E-101
	MOTOR CONNECTION			E-201 E-202
	MOTOR RATED SWITCH	EXISTING WORK SYMBOLS		E-203 E-301
,	SAFETY DISCONNECT SWITCH. NOTE INDICATES AMPS/POLES/FUSE/TYPE. NF=NON-FUSED WP=NEMA -3R	EXISTING WORK TO BE REMOVED		E-302 E-601 E-801
	COMBINATION STARTER - SEE FLOOR PLANS FOR SPECIFICATIONS	EXISTING WORK TO REMAIN		E-901 E-902
	120/208V PANELBOARD			E-903
	277/480V PANELBOARD			
	DRAWING NOTES	NEW OR RELOCATED WORK		
	PANEL DESIGNATION AND CIRCUIT BREAKER DESIGNATION			
	HOMERUN TO PANELBOARD	NEW WORK BURIED OR IN CONCRETE		
	GENERAL POWER BRANCH CIRCUIT HOMERUN TO PANELBOARD. WITHOUT EXCEPTION, ALL BRANCH CIRCUIT WIRING AND HOMERUNS RELATED TO GENERAL POWER AND LIGHTING CIRCUITS SHALL INCLDE A SEPARATE GREEN EQUIPMENT GROUND CONDUCTOR.	FUTURE WORK OR WORK SHOWN ON OTHER DOCUMENTS		
	-BRANCH CIRCUIT CONCEALED IN CEILING AND/OR WALL. #12 AWG UNLESS NOTED OTHERWISE ON THE PLANS. DASHED LINE INDICATES		·	· · · · · · · · · · · · · · · · · · ·
	BRANCH CIRCUIT RUN IN CEILING SPACE OF FLOOR BELOW.			
	STANDARD FEEDER TAG - KEYED TO STANDARD FEEDER SCHEDULE			•
	EQUIPMENT CONNECTION - KEYED TO EQUIPMENT CONNECTION SCHEDULE			

	LIGHTING FIXTUR	E SCHEDULE		,			•	· ·
			EQUIVALENT				LAMPS	
DESCRIPTION	MANUFACTURER	CATALOG No.	MANUFACTURERS	MOUNTING	VOLTAGE	QTY	TYPE	NOTES
				· · · · · · · · · · · · · · · · · · ·				
	DELRAY	4700.1.2		RECESS	277	1	32WTT	
	SCHMITZ	15859.25		WALL	277	1	T16T-40W	
	1992 - 2019 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -							
	METALUX	2RDIS224T5-RP277VETB		RECESS	277	2	24T5H0	1
	METALUX	RDIASY228T5-RP277ETB	-	RECESS	277	2	28T5H0	1
IRIP	LITHONIA	UNS232-277GEBWGCUN	•	SURFACE	277	2	3218	1
8 8 9 9 9 	LITHONIA	M232FNA12125277GEB		SURFACE	277	2	3218	1
<u>n ya 1945 ya 1949 ya 19</u> '	LITHONIA	2PM3GA 2U31 9LD GEB		RECESS	277	3	31WT8	1
	LITHONIA	2PM3GA 3 17 9LD 277GEB	·	RECESS	277	3	1718	1
	LITHONIA	2SPGA332-RMA12125277GEB		RECESS	. 277	3	32WT8	1
ÍT.	BETA CALCO INC	772901		PENDANT	277	3	39W PL-L	
	NEORAY	701IPSP2T81C2PPXJB8		PENDANT	277	2	32 WATT T8	<u> </u>
	KIRLIN	FRR-06027-39-43		RECESS	277	. 1	26WTT	5
	KIRLIN	FRR-06027-39	***************************************	RECESS	277	1	32WTT	5
Π	NEORAY	701IPSP3T81C2PPXJB8		PENDANT	277	3	32 WATT T8	
¥ 3 	KIRLIN	FRR06033-75-CE-13-45		RECESS	277	1	26WTT-AMALGAM	5
	KIRLIN	FRR06033-CE-13-45	9	RECESS	277	1	26WTT-AMALGAM	5
TRIP	LITHONIA	UNS232-277GEBWGCUN-		SURFACE	277	2	3218	1
INF	KIRLIN	FRR-06013-43		RECESS	277	1	18WTT	[~] 5
	KIRLIN	ERR-08038-		RECESS	227	LI	70.WT	5
	LITECONTROL	856-12S/BWGELB277		RECESS	277	6	3218	- 1
	KENALL	S711DCMW26-1-277SA	Λ	WALL	277	1	26WQ	·
KET	VISIONAIRE LIGHTING	SIL-1T232CF4DLBZ		WALL	277	1	32WCF	1
NEI	Con-Tech	NHTEK		RECESS	277	1	· ·	1
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		the second second				$\overline{\mathbf{v}}$		
	KIM	(LTV22100MH277TR10)/2		RECESS	277	1	100W MH	ſ
	KIM	LT52WW50277		RECESS	277	1	50WMH	
	NIM .							1
	ARCHITECTURAL AREA LTG	SP10 250MH/PR5-5R19		POLE	277	1	250W METAL HALIDE	2,5
	ARCHITECTURAL AREA LTG	SPB-70MH		BOLLARD	277	1	70W METAL HALIDE	2,5
	ARCHITECTURAL AREA LTG	SP1ANGGLA70/PR410125		POLE	277	1.1	70W METAL HALIDE	2,5
		SP10 250MHHSS/PR5-5R19		POLE	277		250W METAL HALIDE	2,5
E	ARCHITECTURAL AREA LTG							1
		LES1R277		CEIL	277		LED	3
GN	LITHONIA LITHONIA	LESIR277		CEIL	277	1	LED	3

1

PROVIDE TRIM AND ACCESSORIES SUITABLE FOR MOUNTING FIXTURES IN EACH LOCATION INDICATED ON PLANS. COORDINATE WITH FINISH SCHEDULE AND REFLECTED CEILING PLANS. ROVIDE POLE BASE PER DETAIL ON DRAWING E-601

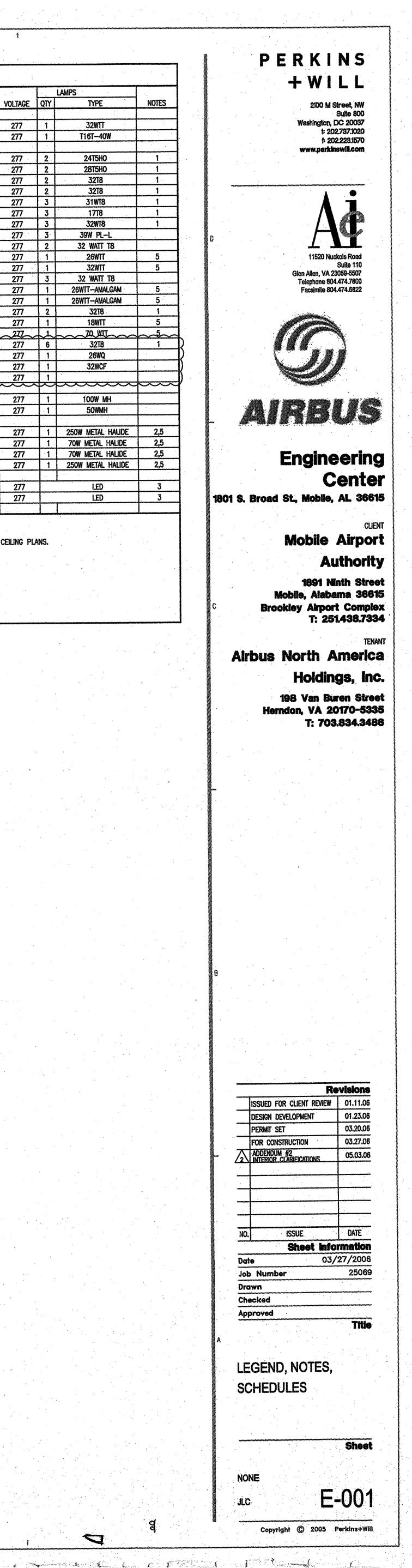
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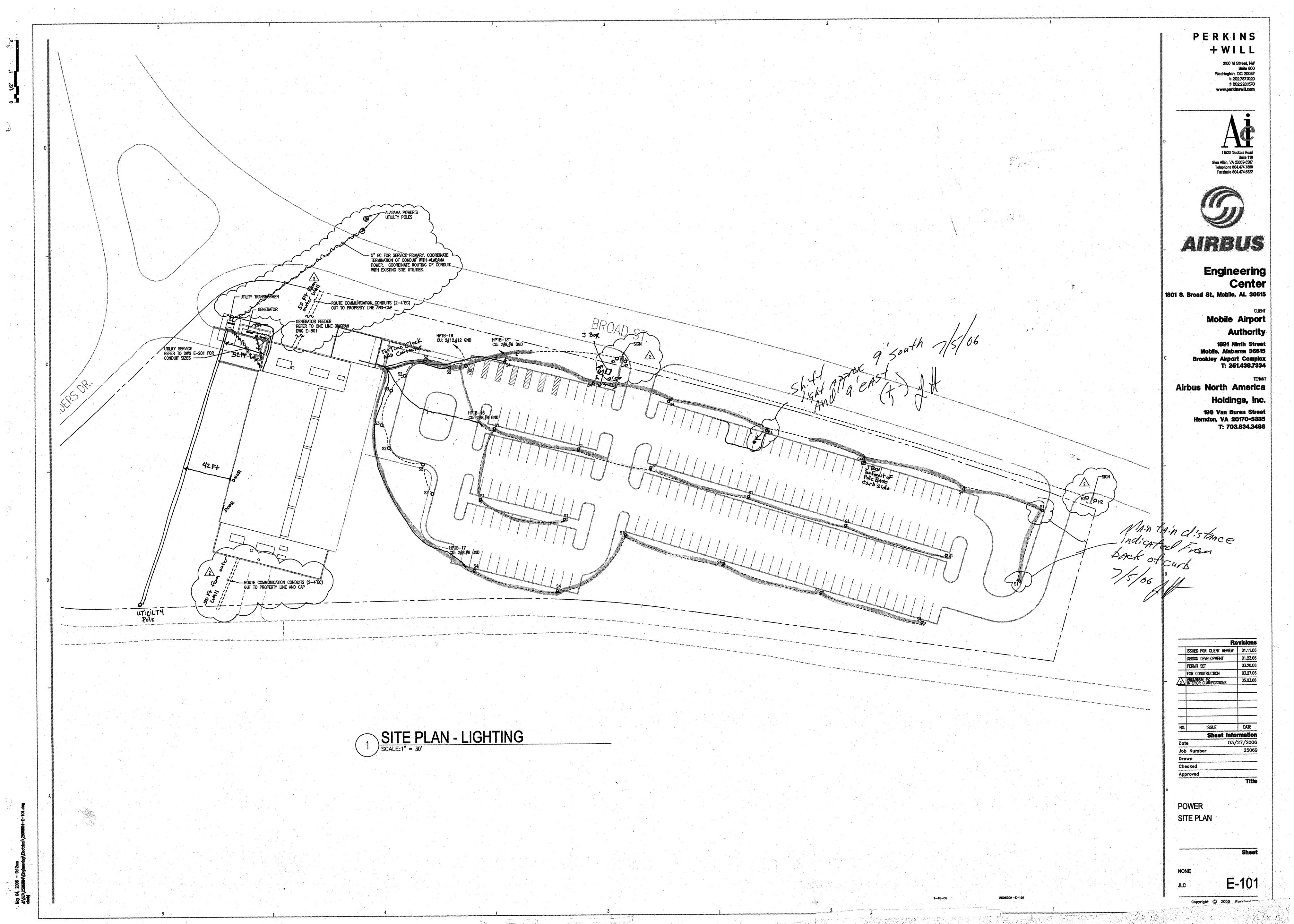
ROVIDE WITH ARROWS IF/AS INDICATED ON FLOOR PLANS FOR EACH LOCATION. ROVIDE EMERGENCY BATTERY WITH MINIMUN OUTPUT OF 1100 LAMP LUMENS

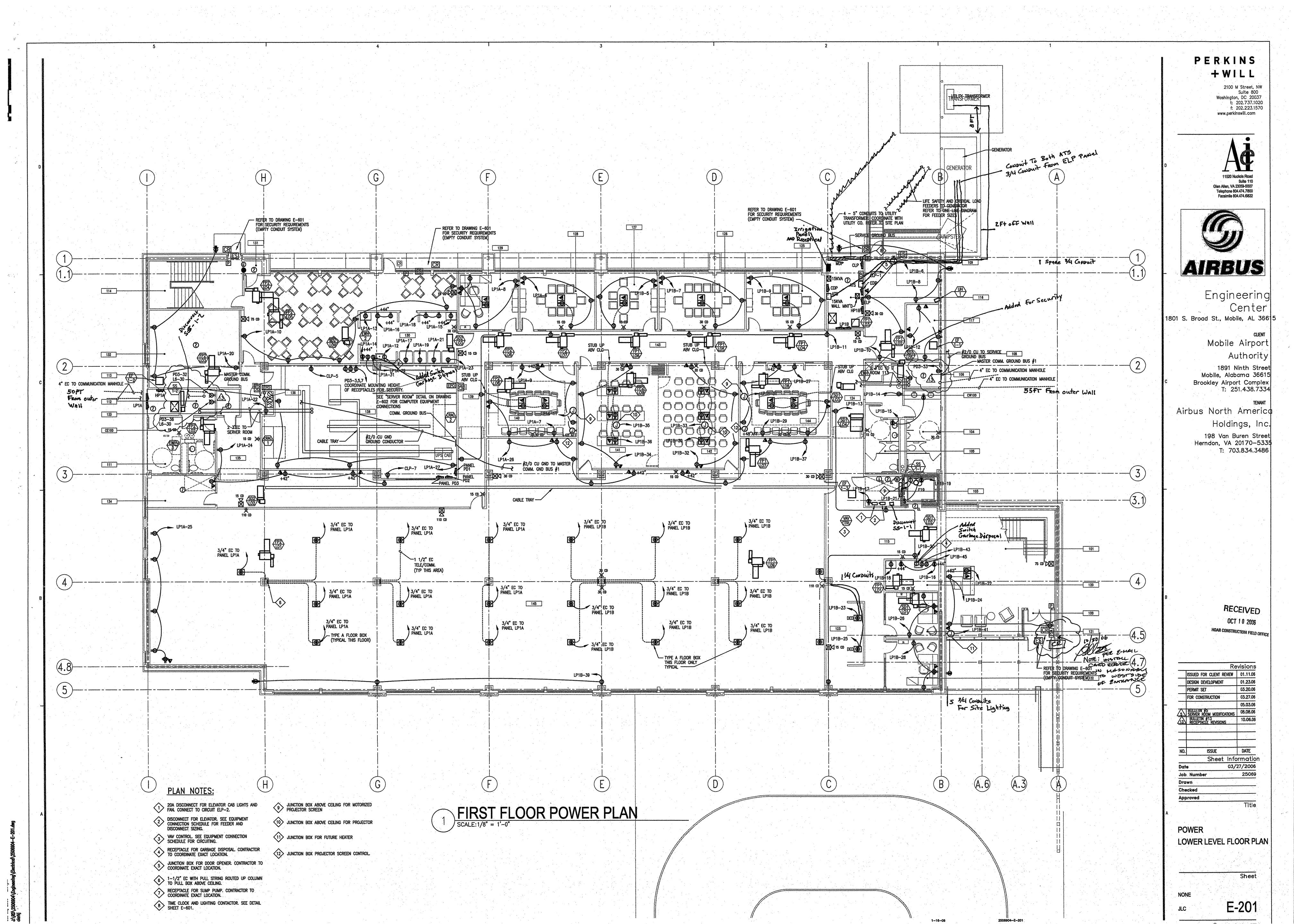
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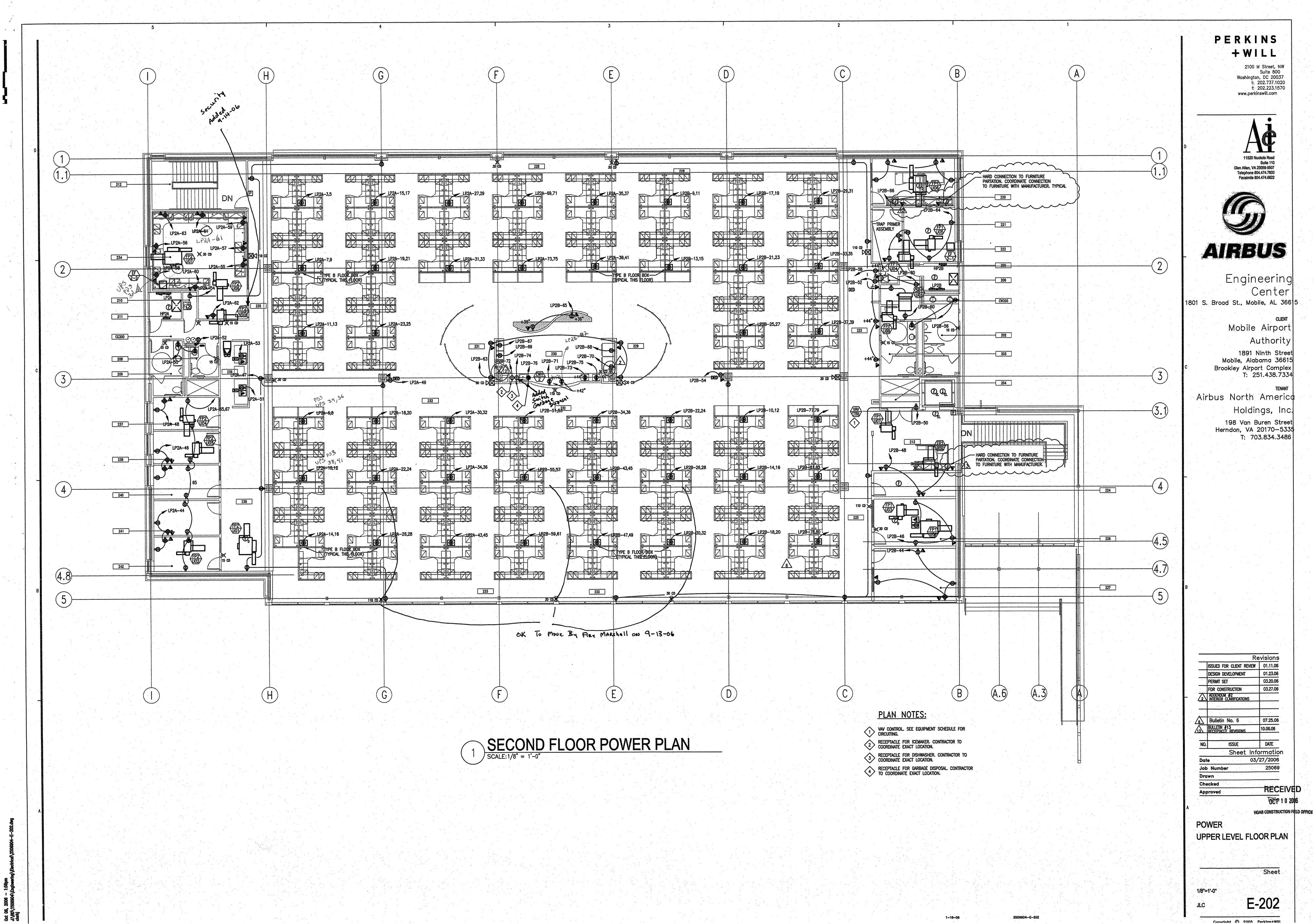
OLOR OF FIXTURE OR TRIM SHALL BE SELECTED BY ARCHITECT.

			• •
SYMBOLS, ABBREVIATION		CHEDULES	
ELECTRICAL SITE PLANS POWER - LOWER LEVE			
POWER - LOWER LEVE POWER - UPPER LEVE		· ·	· · · ·
POWER - OFFER LEVE POWER - ROOF PLAN	L FLOOR FUN		
LIGHTING - LOWER LE	VEL FLOOR PLA	N	
LIGHTING - UPPER LE			
DETAILS			
RISERS			
SCHEDULES			-
SCHEDULES			•
SCHEDULES			



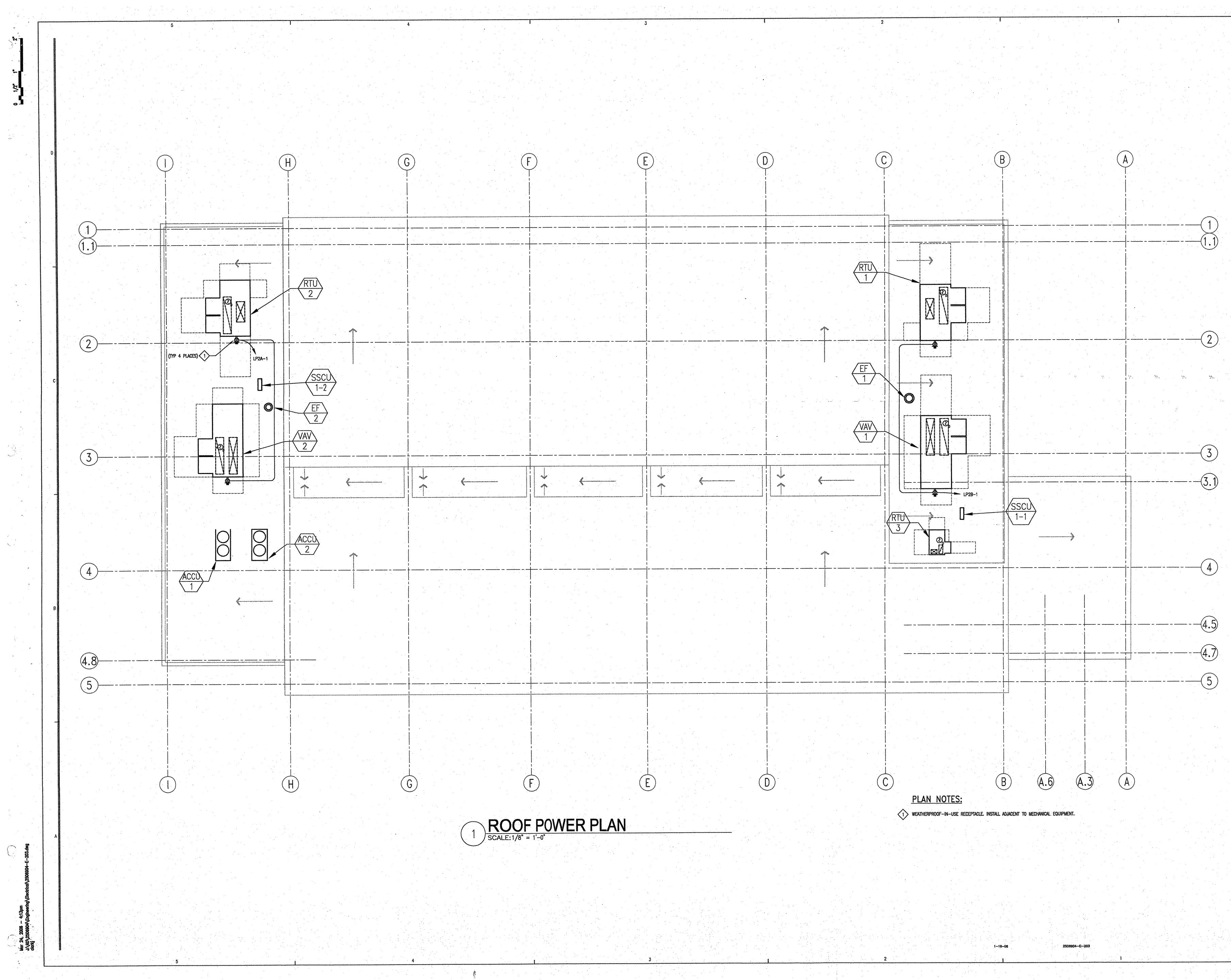


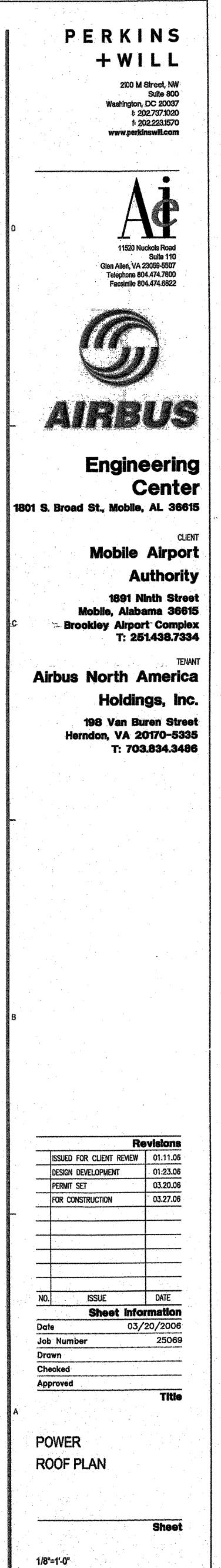




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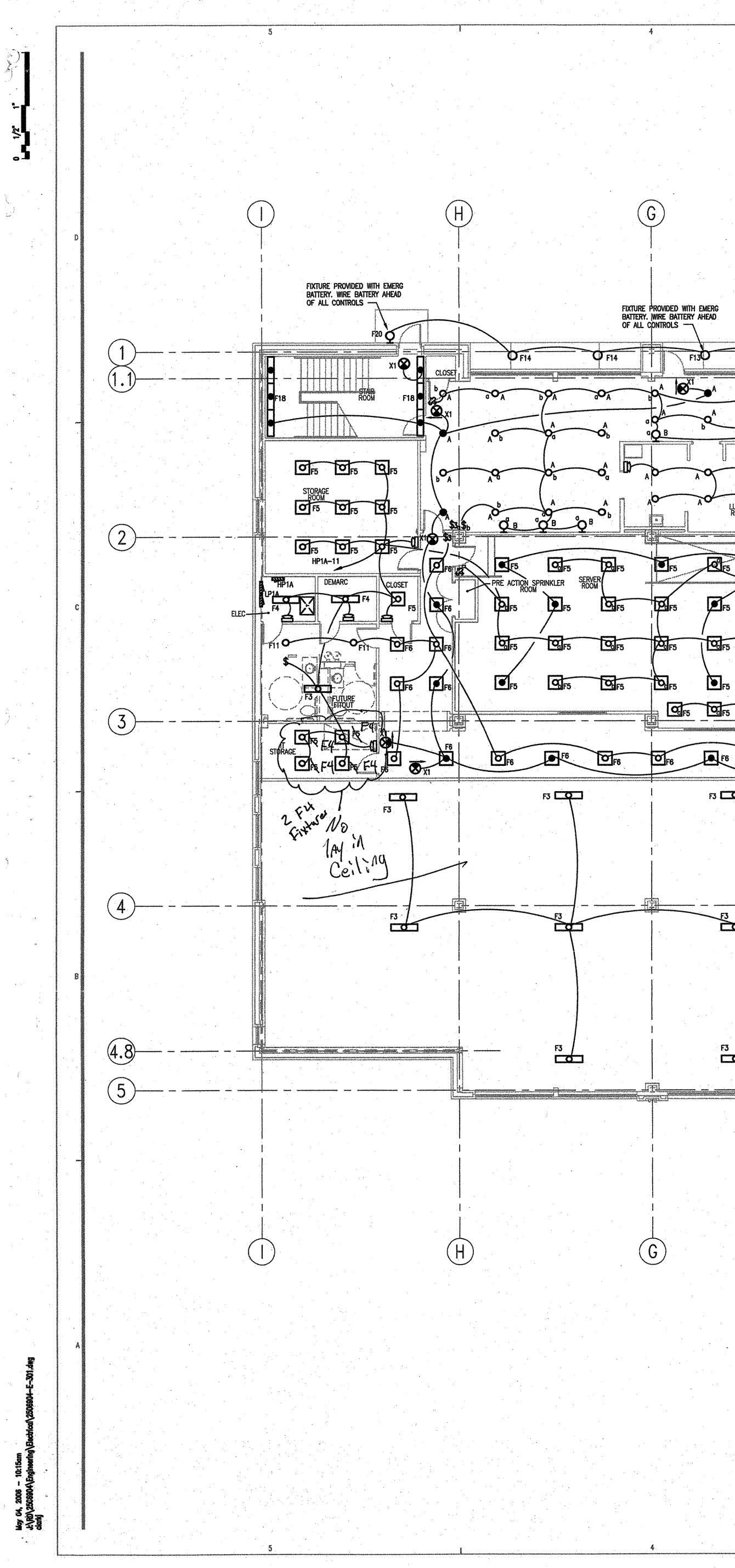
Convright (C) 2005 Parkins+Will



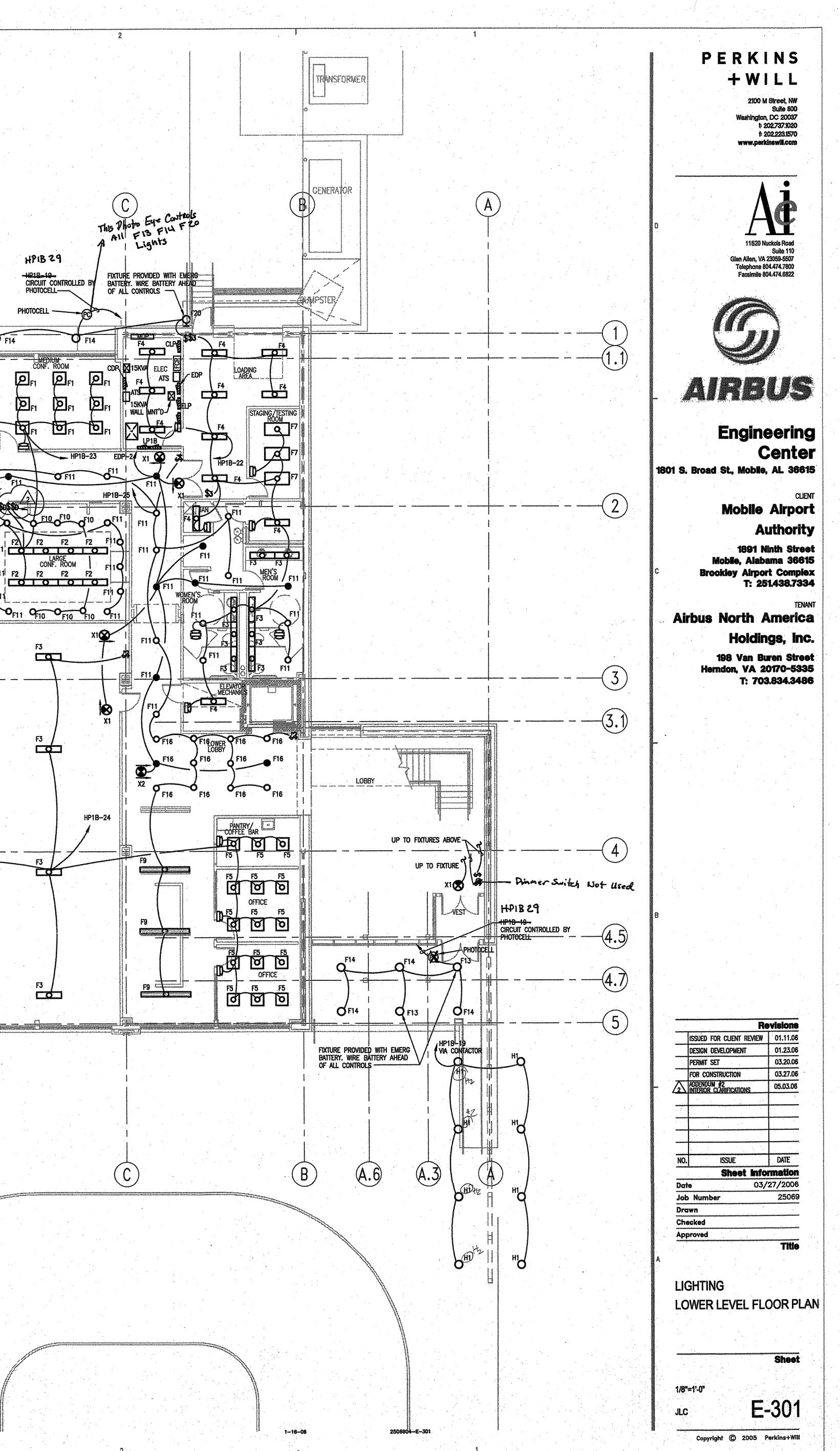


JLC

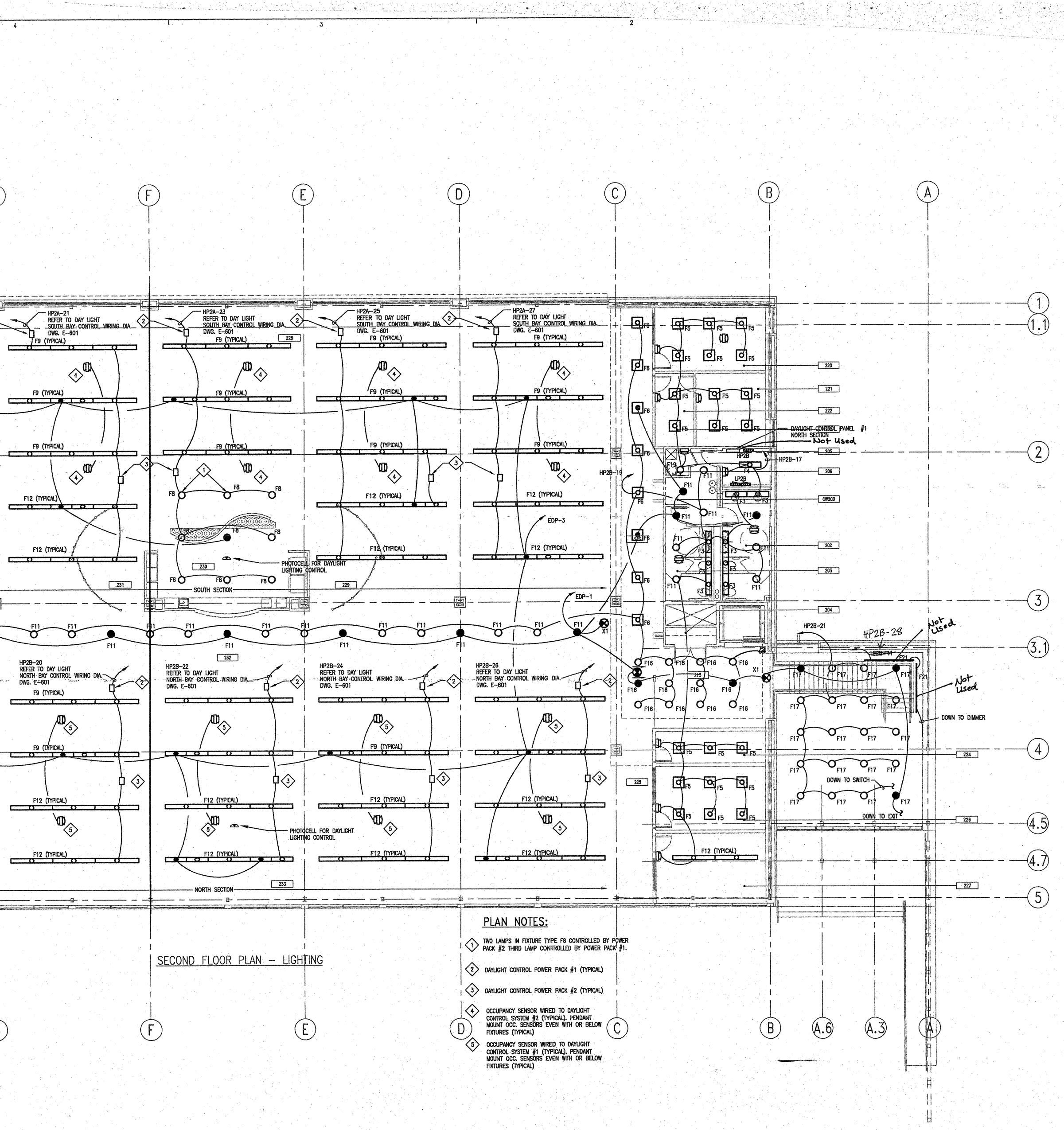
E-203 Copyright © 2005 Parkins+Will



FIXTURE PROVIDED WITH EMERG BATTERY. WIRE BATTERY AHEAD OF ALL CONTROLS MEDIUM CONF. ROOM ØF P **P** Ø 0 EXECUTIVI OFFICE **D**_{F1} 0 Ø Q OF - তি OFI OF 0F10 0F10 M. D, F2 PB_{F5} **A**_{F1} ۲<mark>۵</mark> F1 E FI A FI A F1 F5 F11 F2 F2 F2 F2 F2 7F11 F2 **è**F11 LARGE CONF. ROOM वि. **A** പ്പ 6 6 b 0F11 0F10 0F10 0F11 _____IF5 уся D_{F6} **A**_{F1} **D**_{F1} - B_F AF5 • F5 F3 0 F5 0 F5 **ठि**, _{F5} b F6 OF6 F3 🖯 F3 F3 CQ F3 F3 F3 <u>FIRST FLOOR PLAN - LIGHTING</u> E (D)

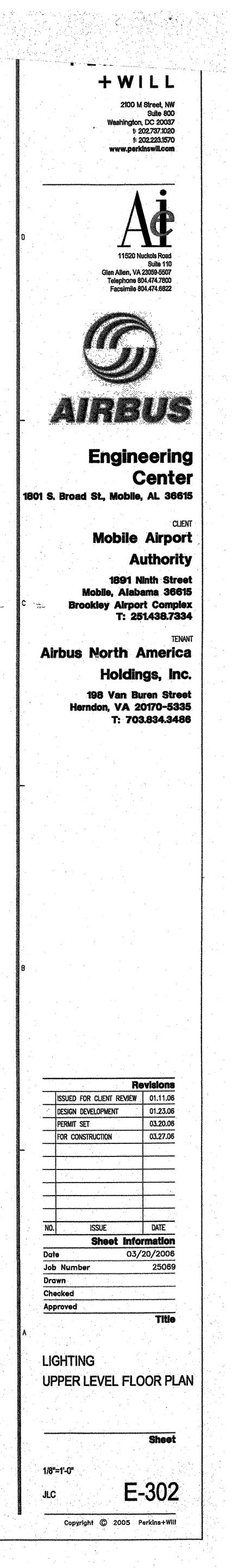


- 5 1/2" REFER TO DAY LIGHT SOUTH BAY CONTROL WIRING DIA Q 212 F9 (TYPICAL) 234) (TYPICAL) Not Used DAYLIGHT CONTROL PANEL F12 (TYPICAL) 211 0111 F11 F6 CE200 F12 (TYPICAL) 208 -- দুতি 209 F5 वि 237 F6 9 HP2B-18 REFER TO DAY LIGHT NORTH BAY CONTROL WIRING DIA. -DWG. E-601 (Artver) F5 9 F5 0 F5 F6 F6 [9] 238 VLV 5 F5 9 F5 0 H FO Q FO D d/ 239 F5 9] F5 LOL F6 F6 F6 F12 (TYPICAL) 241 D 5 -5 **वि** F6 F6 O F12 (TYPICAL) 242 -----Mor 24, 1-/10/21 check)



1-16-06

2506904-E-302



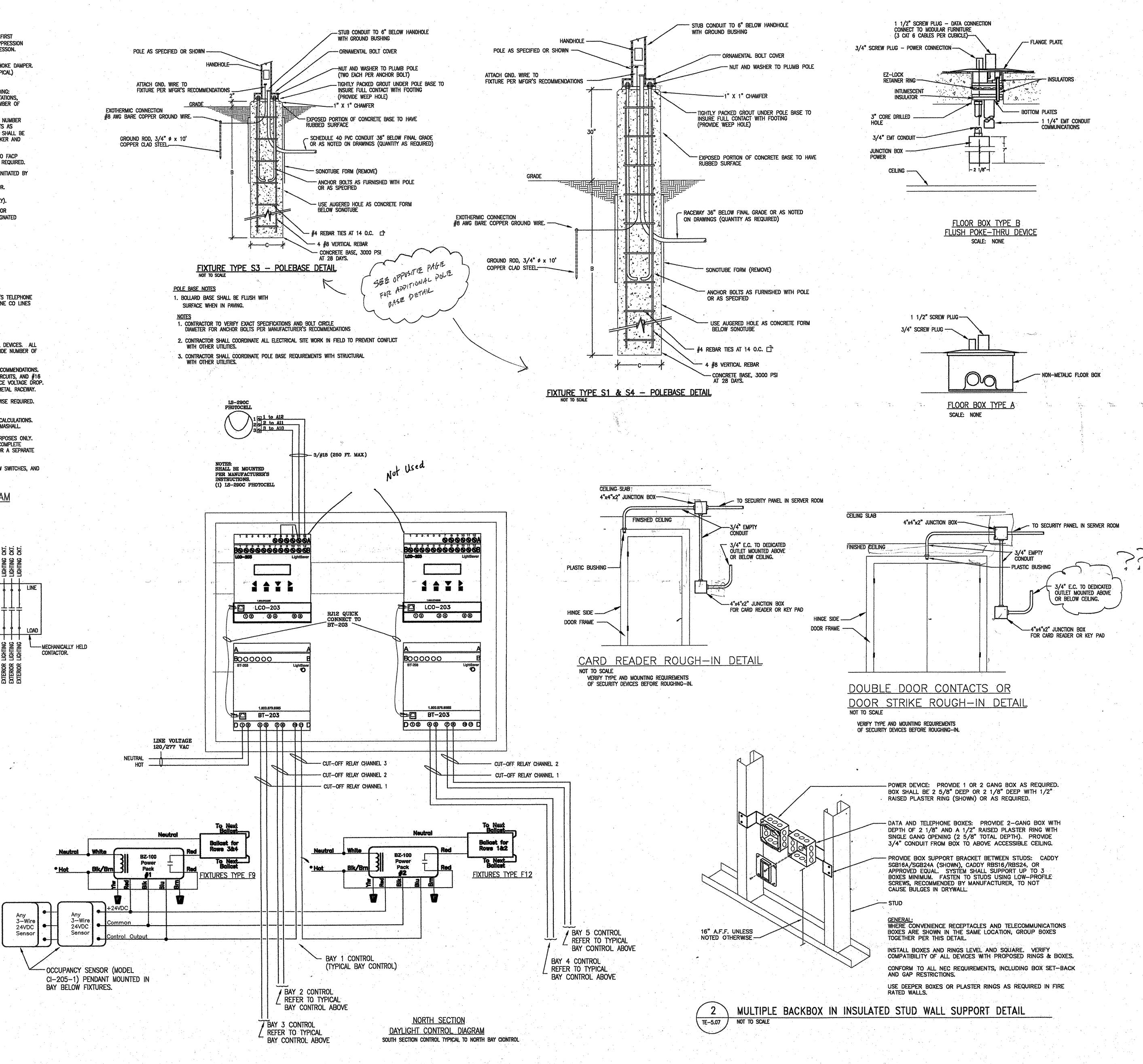
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					• • •				• .
	(-R-interloc	signal to fire supi k in preaction and, facp shall be ul	/OR INERT GAS FIRE	SUPPRESSION	· · · · · · · · · · · · · · · · · · ·		<i>,</i>	P
	24VDC	INITIATED	TO SMOKE DAMPER BY ADJACENT SMOKE	DETECTOR(S) ONLY		•	х	•	•
· · · · ·	120V C		T-DOWN CONNECTION ALL INITIATING DEVIC ETECTORS, HEAT DETI INKLER WATER FLOW	ES TO THE FACP, IN ECTORS, MANUAL PU	LL STATIONS,				
· • · · · ·	,	CIRCUITS	AS REQUIRED. ALL SIGNALLING DEV JITS AS REQUIRED AN	ices to facp. Pro	DVIDE NUMBER				ERMIC (G BARE
		IN CONDA	D. [HOMERUNS FROM JIT. PROVIDE INDIVID CIRCUITS FOR EACH I	UALLY CONTROLLED TRE ALARM ZONE].	SPEAKER AND	· · ·	•	· ·	GROUNI COPPER
· .	24VDC	FOR SUP	ALL SPRINKLER TAM ERVISION. PROVIDE R SHAFT SMOKE DAMF	NUMBER OF CIRCUIT	S AS REQUIRED.				
	24VDC	R ^{24VDC} PROVIDE	T SMOKE DETECTOR (SIGNAL TO SHUNT-TR ONE RELAY PER EAC ED HEAT DETECTORS	NP C.B. FEEDING ELI H S.T.C.B. (INTITIATE	D BY			•	
	(PROVIDE RRR CONTROL	THREE ADDRESSABLE LER FOR PHASE 1 R DETECTORS FOR THAT	RELAYS AT EACH E	LEVATOR				1. T
	ADDRESSABLE FIRE ALARM		-FIRE ALARM ANNUN	ciator(s)	•••	、 · ·			
	CONTROL PANEL WITH DIGITAL COMMUNICATOR				• • •				
		DEMARCAT	-FIRE ALARM PRINTEI TWO 4-PAIR CATAGOR TON POINT. CIRCUIT	Y 5E CABLES TO ON TWO DEDICATED TEL					
	L.	(AS DESIG -120 VOLT CIRCUIT	SNATED BY OWNER) T	o facp.				-	·
.	<u>s:</u> This Diagram is int Devices shown on Circuits as require	THE FLOOR PLAN AR	AMMATIC IN NATURE A RE TO BE CONNECTED	ND DOES NOT SHOW TO THE SYSTEM.	V ALL DEVICES. A PROVIDE NUMBER (LL DF			•
2.	ALL FIRE ALARM CAB MINIMUM WIRE GUAGE FOR FUTURE MINI-HO	iles shall be per 5 shall be #18 foi	R INITIATING CIRCUITS,	#14 FOR SIGNALLIN	NG CIRCUITS, AND	#16		: * :	
	Non-Power limited Cables shall be in		· · ·					•	
	FIRE ALARM SUBCON ARCHITECT/ENGINEER COORDINATE FIRE AL	. SHOP DRAWINGS	SHALL INCLUDE BATTE	ERY AND VOLTAGE DI	ROP CALCULATIONS.			· .	
	THESE FIRE ALARM D THE AWARDED FIRE A ENGINEERED PLANS F	LARM SUBCONTRACTO	OR SHALL BE RESPON	NSIBLE FOR SUBMITT	ING COMPLETE		•	• . •	
6.	REVIEW AND PERMIT. CONTRACTOR SHALL OTHER RELATED WOR	Coordinate quantiti K, with the sprink	ies and locations_c Ler contractor.	F all tamper and	FLOW SWITCHES, A	ND		• • •	
· · ·			RE ALARM	RISER DIA	GRAM				-
		SCALE: NONE	- 11 M Six				-	•	
			, ,		CKT CK				
		LINE	NEU	TRAC	LIGHTING C LIGHTING C LIGHTING C		•		
• •	H O A		120V CKT	N A		VE			
(·
м н. Н				AUXILIARY	DI TECHTING CHING CHING CHING CHING CHING	AD MECHANICALL	r held	· · ·	•
•			at Photocell Time: Clock	CONTACTS	Exterior Ligh Exterior Ligh Exterior Ligh Exterior Ligh	CONTACTOR.			
•	ан сайна. Ал б		CONTROL RELAY			,			
	PROVIDE 27 PROVIDE AS PROVIDE 27	7V COIL & AUXILIARY SEMBLY IN NEMA 1 7V COIL IN CONTROL	Y STATUS CONTACTS ENCLOSURE. MODULE.	IN CONTACTOR				· ·	•
		CONTACTO	DR WIRING	DIAGRAM					
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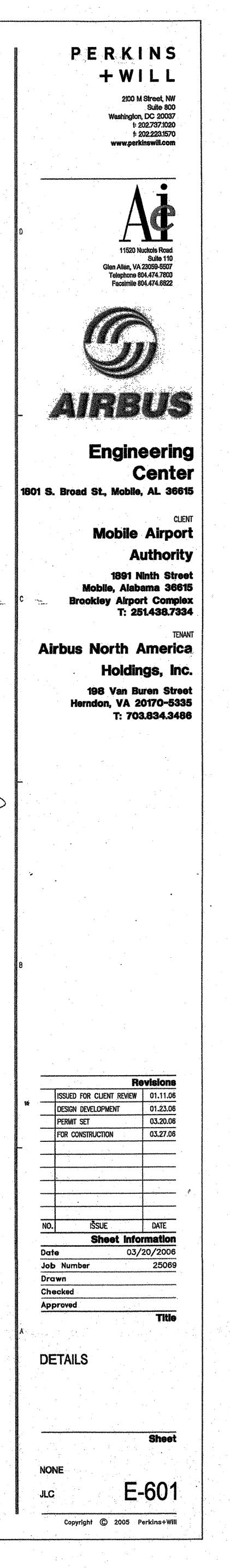
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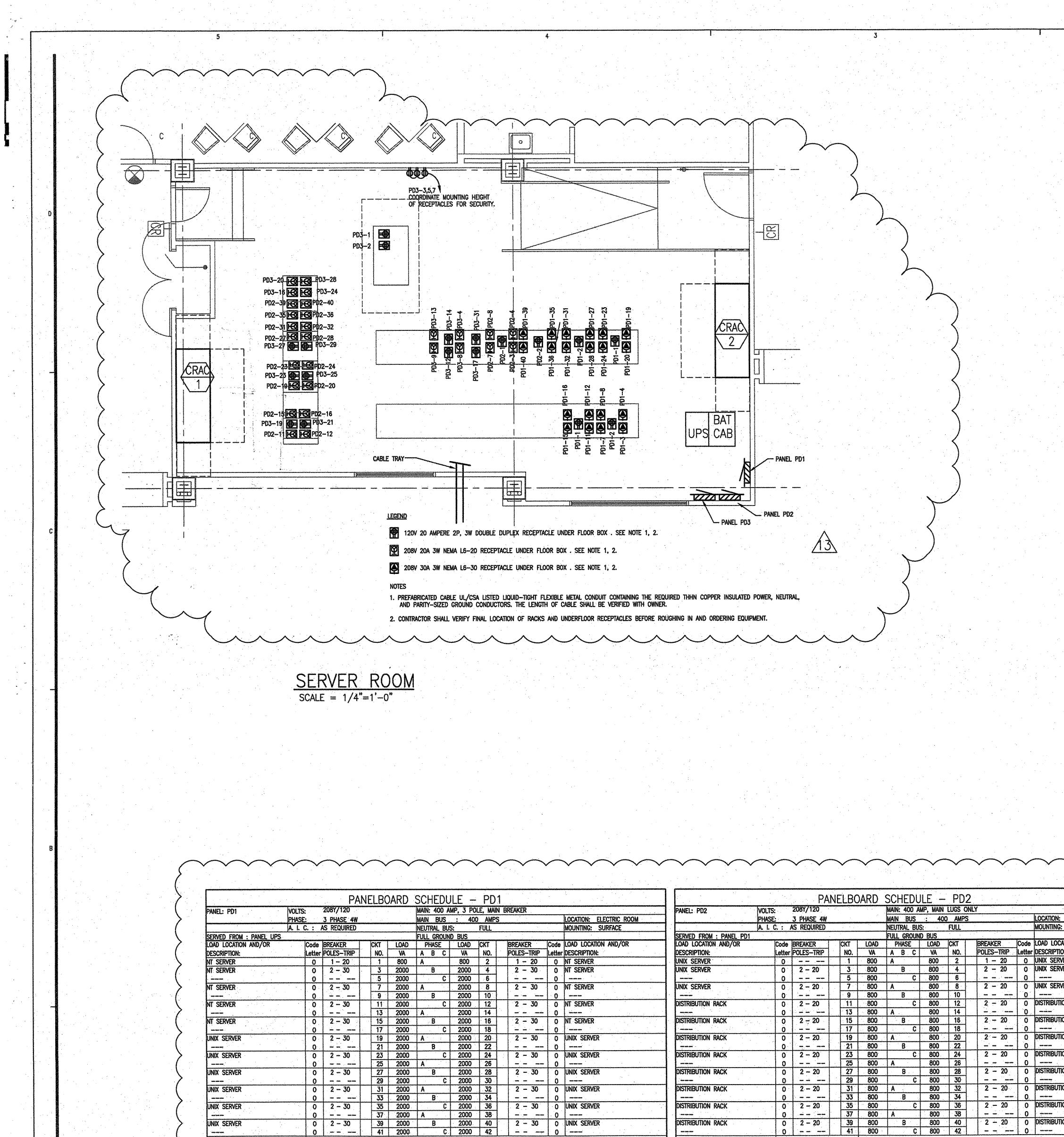
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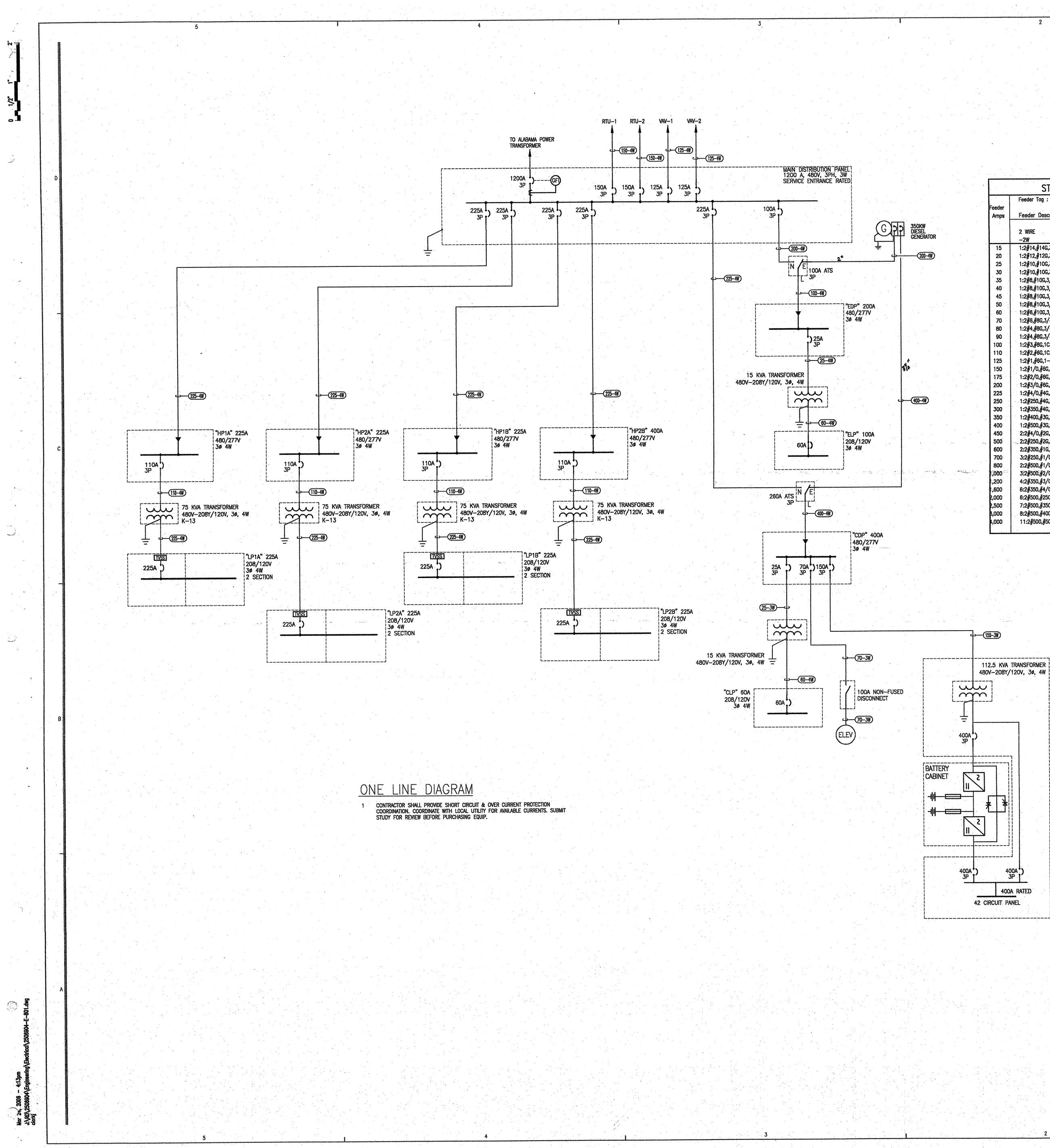
UNIX SERVER DAD KVA CONNECTED A B C SUMMARY LIGHTING (L) RECEPTACLE (I 1 1 4. MECH. HEAT (H MECH. MOTOR (M) COOKING (C) WATER HTR (W) APPLIANCE (A) OTHER (O) 45 46 46 47 47 TOTALS : TOTAL CONN. KVA 140.0 = 391 AMPS

PROVIDE ITEMS MARKED WITH "X" BELOW: PROVIDE GFCI BREAKER WHERE MARKED "GF" ABOVE. PROVIDE ARC-FAULT BREAKER WHERE MARKED "AF" PROVIDE TVSS DEVICE FOR THIS PANEL. PROVIDE SEPARATE ISOLATED GROUND BUS. × PROVIDE FEED THROUGH LUGS PROVIDE UL SERVICE ENTRANCE LABEL. PROVIDE SHUNT-TRIP ON MAIN BREAKER. PROVIDE DOOR-IN-DOOR CONSTRUCTION EST.DEMAND KVA = 99.6 = 276 AMPS

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	2						
PD1-32 PD1-28 PD1-28 PD1-20							
4							
	UPS CAB						
-104 -104 -104 -104	PANEL PD1						
	AST -						
	- WARDA						
	PANEL PD2						
UNDER FLOOR BOX . SEE NOTE 1, 2. BOX . SEE NOTE 1, 2.		$\overline{\mathbf{A}}$					
BOX . SEE NOTE 1, 2.							
HE METAL CONDUCT CONTAINING THE DEG	UIRED THHN COPPER INSULATED POWER, NEUTRAL,						
CABLE SHALL BE VERIFIED WITH OWNER	•						
$\sim \sim \sim$					$\sim \sim \sim \sim$	\sim	
						<u>/13</u>	
	PANEL: PD2 VOLTS: 208Y/120	ANELBOARD SCHEDULE - PD2 MAIN: 400 AMP, MAIN LUGS ONLY		PANEL: PD3 VOLTS:	PANELBOARD SCHEDULE - 2089/120 MAIN: 400 AMP, MAIN		
LOCATION: ELECTRIC ROOM MOUNTING: SURFACE	PHASE: 3 PHASE 4 A. I. C. : AS REQUIRED	W MAIN BUS : 400 AMPS D NEUTRAL BUS: FULL	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE	PHASE: A. I. C. : /	3 PHASE 4W MAIN BUS : 4 AS REQUIRED NEUTRAL BUS:	DO AMPS LOCATION: ELEC FULL MOUNTING: SUF	
le LOAD LOCATION AND/OR ter DESCRIPTION:	SERVED FROM : PANEL PD1 LOAD LOCATION AND/OR Code BREAKER DESCRIPTION: Letter POLES-TRIP	FULL GROUND BUS CKT LOAD PHASE LOAD CKT BREAD NO, VA A B C VA NO. POLES	CER Code LOAD LOCATION AND/OR		FULL GROUND BUS BREAKER CKT LOAD PHASE LOAD POLES-TRIP NO. VA A B C VA	CKT BREAKER Code LOAD LOCATION NO. POLES-TRIP Letter DESCRIPTION:	AND/OR
) NT SERVER) NT SERVER	UNIX SERVER0UNIX SERVER02 - 20	1 800 A 800 2 1 3 800 B 800 4 2	- 20 0 UNIX SERVER - 20 0 UNIX SERVER	TAPE LIBRARYOSECURITY PANELRSECURITY PANELR	1 - 20 1 800 A 800 1 - 20 3 1080 B 800 1 - 20 5 1080 C 800	2 1 - 20 0 TAPE LIBRARY 4 2 - 20 0 UNIX SERVER 6 0 0 0)
)) NT SERVER)	UNIX SERVER 0 2 - 20 0	- 5 800 C 800 6 - 7 800 A 800 8 2 - 9 800 B 800 10 -	- 20 0 UNIX SERVER	SECURITY PANEL R UNIX SERVER O	1 - 20 7 1080 A 800 2 - 20 9 800 B 800	8 2 20 0 UNIX SERVER 10 0	
) NT SERVER)	DISTRIBUTION RACK 0 2 - 20 0	- <u>13 800 A 800 14 -</u>		UNIX SERVER 0		$\begin{array}{c c c c c c c c c c c c c c c c c c c $	emork 120 Recp
) NT SERVER)) UNIX SERVER	DISTRIBUTION RACK O 2 - 20 0 DISTRIBUTION RACK 0 2 - 20	- <u>17 800 C 800 18</u> - <u>19 800 A 800 20</u> 2	- 20 0 DISTRIBUTION RACK 0 - 20 0 DISTRIBUTION RACK	UNIX SERVER 0 DISTRIBUTION Demark Room 0	1 - 20 17 800 C 800 1 - 20 19 800 A 800	18 - - 0 -	emnek Boom 208 Recp
)) UNIX SERVER	0 DISTRIBUTION RACK 0 2 - 20	- <u>21 800 B 800 22 -</u>		DISTRIBUTION DEMARK Ream 0 DISTRIBUTION 0	1 - 20 21 800 B 800 1 - 20 23 800 C 800 1 - 20 25 800 A 800	22 0 24 2 - 20 0 DISTRIBUTION 26 0	
D UNIX SERVER D UNIX SERVER	DISTRIBUTION RACK 0 2 - 20 0	- 27 800 B 800 28 2 29 800 C 800 30 -	- 20 0 DISTRIBUTION RACK	DISTRIBUTION O DISTRIBUTION O	1-20 27 800 B 800 1-20 29 800 C 800	28 2 - 0 DISTRIBUTION 30 - - 0	5
UNIX SERVER	DISTRIBUTION RACK 0 2 - 20 0 DISTRIBUTION RACK 0 2 - 20	- <u>31 800 A 800 32 2</u> 33 800 B 800 34 -	- 20 0 DISTRIBUTION RACK 0 - 20 0 DISTRIBUTION RACK	DEMARK-ROOM Distribution A	1 - 20 31 1200 A 1200 1 - 20 33 1200 B 1200 1 - 20 35 C 1200	34 0	SPARC Spare
D UNIX SERVER D D UNIX SERVER	DISTRIBUTION RACK 0 2 - 20	- <u>37 800 A 800 38 -</u> 39 800 B 800 40 2	0 - 20 0 DISTRIBUTION RACK	SPARE Rec Room 106 S	1 - 20 37 A 1200 1 - 20 39 B B	38 0	Spare
<u>) </u>	0 LOAD KVA CONNECTE	- 41 800 C 800 42 - D C	<u> </u>	SPACE ONLY S LOAD KVA	41 C CONNECTED	42 S D	JIST (DWT 10N)
ABOVE.	LIGHTING (L) RECEPTACLE (R) 1 1	PROVIDE ITEMS MARKED WITH "X" BELL	RKED "GF" ABOVE.	LIGHTING (L) RECEPTACLE (R)	PROVIDE ITEMS MARI	KED WITH "X" BELOW: REAKER WHERE MARKED "GF" ABOVE.	
"AF" ABOVE.	MECH. HEAT (H) MECH. MOTOR (M) COOKING (C)	PROVIDE ARC-FAULT BREAKER WH PROVIDE TVSS DEVICE FOR THIS P PROVIDE SEPARATE ISOLATED GROU	ANEL.	MECH. HEAT (H) MECH. MOTOR (M) COOKING (C)	PROVIDE TVSS D	WLT BREAKER WHERE MARKED "AF" ABOVE. EVICE FOR THIS PANEL. TE ISOLATED GROUND BUS.	
	WATER HTR (W) APPLIANCE (A)	× PROVIDE FEED THROUGH LUGS		WATER HTR (W) APPLIANCE (A)	PROVIDE FEED T		
estimated demand kw = 89.6	OTHER (0) 22 20 TOTALS 23 22 TOTAL CONN. KVA 66.0 = 182	21 PROVIDE DOOR-IN-DOOR CONSTRU	iction = 181 amps	OTHER (O) 1 TOTALS 12 TOTAL CONN. KVA 31.0		IN-DOOR CONSTRUCTION 31.7 = 88 AMPS ESTIMATED	DEMAND KW = 28.5
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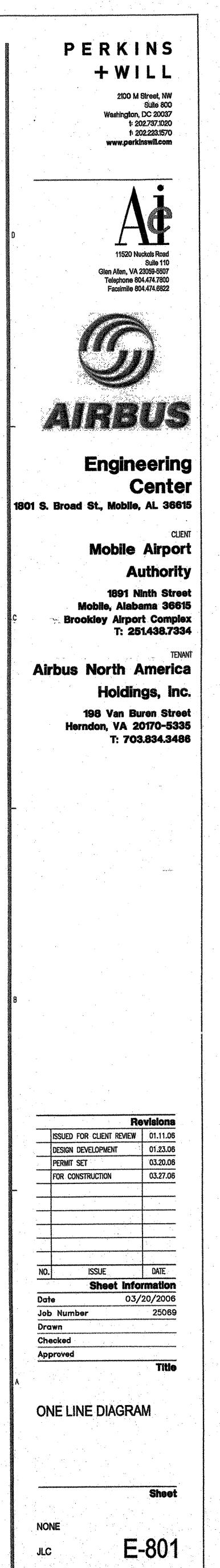
PERKI + W I 2100 M S SL Washington, DL t: 202.73 f: 202.22 www.perkinswill.co 11520 Nuckols Road Suite 110 Glen Allen, VA 23059-5507 Telephone 804.474.7800 Facsimile 804.474.6822 AIRBUS Engineering Center 1801 S. Broad St., Mobile, AL 366 5 CLIENT Mobile Airport Authority 1891 Ninth Street Mobile, Alabama 36615 Brookley Airport Complex T: 251.438.7334 TENANT Airbus North America Holdings, Inc 198 Van Buren Street Herndon, VA 20170-5335 T: 703.834.3486 Revisions ISSUED FOR CLIENT REVIEW 01.11.06 01.23.06 DESIGN DEVELOPMENT 03.20.06 PERMIT SET 03.27.06 FOR CONSTRUCTION BULLETIN #508.08.065SERVER ROOM MODIFICATIONS09.25.065SERVER ROOM MODIFICATIONS09.25.063BULLETIN #1310.06.0613RECEPTACLE REVISIONS10.06.06 ISSUE DATE NO. Sheet Information 03/27/2006 Date 25069 Job Number Drawn Checked Approved TitRECEIVED OCT 1 0 2006 HOAR CONSTRUCTION FIELD (SERVER ROOM PARTIAL PLAN Sheet SCALE: AS SHOWN E-602 JLĊ



	STANDARI	D FEEDERS - C	OPPER CONDUC	TORS	Ai engineering
	Feeder Tag : $30-3W = 3$	O Amp, 3 Wire Feeder	Bosed on THHN, 75C, Wo	rst Case for Conduit Type	
eder					
Amps	Feeder Descriptions =	No.Sets: AWG SIZE,GND,	CONDUIT		No.Sets: AWG SIZE,NEUT,GND,CONDUIT
		***	A 110777	XFMR SEC. FEEDER	"K" RATED XFMR SECDOUBLE NEUTRA
	2 WIRE	3 WIRE	4 WIRE		
	2W	-3W	-4W	-4XS	<u>-4DN</u> 1:3#14,#8N,#14G,3/4C.
15	1:2#14,#14G,3/4C.	1:3#14,#14G,3/4C.	1:4#14,#14G,3/4C.	1:4#14,#14G,3/4C.	
20	1:2#12,#12G,3/4C.	1:3#12,#12G,3/4C.	1:4#12,#12G,3/4C.	1:4#12,#126,3/4C.	1:3#12,#8N,#12G,3/4C.
25	1:2#10,#10G,3/4C.	1:3#10,#10G,3/4C.	1:4#10,#10G,3/4C.	1:4#10,#10G,3/4C.	1:3#10,#6N,#10G,3/4C.
30	1:2#10,#10G,3/4C.	1:3#10,#10G,3/4C.	1:4#10,#10G,3/4C.	1:4#10,#10G,3/4C.	1:3#8,#6N,#8G,3/4C.
35	1:2#8,#10G,3/4C.	1:3#8,#10G,3/4C.	1:4#8,#10G,3/4C.	1:4#8,#8G,3/4C.	1:3#8,#4N,#8G,1C.
40	1:2#8,#10G,3/4C.	1:3#8,#10G,3/4C.	1:4#8,#10G,3/4C.	1:4#8,#8G,3/4C.	1:3#8,#3N,#8G,1C.
45	1:2#8,#10G,3/4C.	1:3#8,#10G,3/4C.	1:4#8,#10G,3/4C.	1:4#8,#8G,3/4C.	1:3#6,#2N,#8G,1C.
50	1:2#8,#10G,3/4C.	1:3#8,#106,3/4C.	1:4#8,#10G,3/4C.	1:4#8,#8G,3/4C.	1:3#6,#2N,#8G,1C.
60	1:2#6,#10G,3/4C.	1:3#6,#10G,3/4C.	1:4#6,#10G,1C.	1:4#6,#8G,1C.	1:3#6,#1/0N,#8G,1-1/4C.
70	1:2#6,#8G,3/4C.	1:3#6,#8G,3/4C.	1:4#6,#86,1C.	1:4#6,#8G,1C.	1:3#4,#2/0N,#8G,1-1/4C.
80	1:2#4,#8G,3/4C.	1:3#4,#8G,1C.	1:4#4,#8G,1-1/4C.	1:4#4,#8G,1-1/4C.	1:3#3,#3/0N,#8G,1-1/2C.
90	1:2#4,#86,3/4C.	1:3#4,#8G,1C.	1:4#4,#8G,1-1/4C.	1:4#4,#8G,1-1/4C.	1:3#2,#4/0N,#6G,1-1/2C.
100	1:2#3,#8G,1C.	1:3#3,#8G,1-1/4C.	1:4#3,#8G,1-1/4C.	1:4#3,#8G,1-1/4C.	1:3#2,#4/0N,#6G,1-1/2C.
110	1:2#2,#6G,1C.	1:3#2,#6G,1-1/4C.	1:4#2,#6G,1-1/2C.	1:4#2,#6G,1-1/2C.	1:3#1,#250N,#6G,2C.
125	1:2#1,#6G,1-1/4C.	1:3#1,#6G,1-1/2C.	1:4#1,#6G,1-1/2C.	1:4#1,#6G,1-1/2C.	1:3#1/0,#350N,#6G,2C.
150	1:2#1/0,#6G,1-1/4C.	1:3#1/0,#6G,1-1/2C.	1:4#1/0,#6G,2C.	1:4#1/0,#6G,2C.	1:3#2/0,2#2/0N,#4G,2C.
175	1:2#2/0,#6G,1-1/4C.	1:3#2/0,#6G,1-1/2C.	1:4#2/0,#6G,2C.	1:4#2/0,#4G,2C.	1:3#3/0,2#3/0N,#4G,2C.
200	1:2#3/0,#66,1-1/2C.	1:3#3/0,#66,20.	1:4#3/0,#6G,2C.	1:4#3/0,#46,2C.	1:3#4/0,2#4/0N,#2G,2-1/2C.
200	1:2#4/0,#4G,1-1/2C.	1:3#4/0,#46,20.	1:4#4/0,#4G,2-1/2C.	1:4#4/0,#26,2-1/2C.	1:3#250,2#250N,#2G,2-1/2C.
		1:3#250,#4G,2C.	1:4#250,#4G,2-1/2C.	1:4#250,#26,2-1/2C.	1:3#350,2#350N,#2G,3C.
250	1:2#250,#4G,2C.	1:3#350,#46,2-1/2C.	1:4#350,#4G,3C.	1:4#350,#2G,3C.	1:3#400,2#400N,#1/0G,3C.
300	1:2#350,#46,20.			1:4#400,#1/0G,3C.	1:3#500,2#500N,#1/0G,3-1/2C.
350	1:2#400,#3G,2C.	1:3#400,#36,2-1/2C.	1:4#400,#3G,3C. 1:4#500,#3G,3-1/2C.	1:4#500,#1/0G,3-1/2C.	
400	1:2#500,#3G,2-1/2C.	1:3#500,#3G,3C.		2:4#4/0,#2/0G,2-1/2C.	
450	2:2#4/0,#2G,2C.	2:3#4/0,#2G,2C.	2:4#4/0,#26,2-1/20.		
500	2:2#250,#26,2C.	2:3#250,#26,2-1/2C.	2:4#250,#2G,2-1/2C.	2:4#250,#2/0G,2-1/2C.	
600	2:2#350,#1G,2C.	2:3#350,#1G,2-1/2C.	2:4#350,#1G,3C.	2:4#350,#2/0G,3C.	2:3#500,2#500N,#3/0G,3-1/2C.
700	3:2#250,#1/0G,2C.	3:3#250,#1/0G,2-1/2C.	3:4#250,#1/0G,2-1/2C.	3:4#250,#2/06,2-1/2C.	
800	2:2#500,#1/0G,2-1/2C.	2:3#500,#1/0G,3C.	2:4#500,#1/0G,3-1/2C.	2:4#500,#3/0G,3-1/2C.	
000	3:2#500,#2/0G,2-1/2C.	3:3#500,#2/0G,3C.	3:4#500,#2/0G,3-1/2C.		
200	4:2#350,#3/06,2-1/2C.	4:3#350,#3/0G,2-1/2C.	4:4#350,#3/0G,3C.	4:4#350,#3/0G,3C.	6:3#350,2#350N,#3/0G,3C.
600	6:2#350,#4/0G,2-1/2C.	6:3#350,#4/0G,2-1/2C.	6:4#350,#4/0G,3C.	6:4#350,#3/0G,3C.	6:3#500,2#500N,#3/0G,3-1/2C.
000	6:2#500,#250G,2-1/2C.	6:3#500,#250G,3C.	6:4#500,#250G,3-1/2C.	6:4#500,#3/0G,3-1/2C.	
500	7:2#500,#3506,2-1/2C.	7:3#500,#350G,3C.	7:4#500,#350G,3-1/2C.	7:4#500,#3/0G,3-1/2C.	
000	8:2#500,#400G,3C.	8:3#500,#400G,3C.	8:4#500,#400G,3-1/2C.	8:4#500,#3/0G,3-1/2C.	· · · · · · · · · · · · · · · · · · ·
000	11:2#500,#500G,3C.	11:3#500,#5006,3-1/20	11:4#500,#500G,3-1/2C	11:4#500,#3/0G,3-1/20	14:3#500,2#500N,#3/0G,3-1/2C.

112.5 KVA TRANSFORMER 480V-208Y/120V, 30, 4W m _____ \mathbb{N}^2 -----400A 3P 400A RATED 42 CIRCUIT PANEL

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EQUIPMENT CONNECTI ELECTRICAL CHARACTERISTICS DESCRIPTION LOCATION ITEM VOLTS PHASE LOAD KVA FLA OCI MA 480 3 126 AMPS 104.9 126.2 RTU-1 ROOF TOP UNIT ROOF 480 3 126 AMPS 104.9 126.2 1 RTU-2 RTU-3 ROOF TOP UNIT ROOF 480 3 37 AMPS 30.8 37.0 40 ROOF TOP UNIT ROOF 480 3 118 AMPS 98.1 118.0 12 ROOF VAV-1 VAV 480 3 118 AMPS 98.1 118.0 12 ROOF VAV-2 VAV 120 1 0.25 HP 0.7 5.6 15 ROOF EF-1 EXHAUST FAN 120 1 0.25 HP 0.7 5.6 ROOF EF-2 EXHAUST FAN 120 1 1.5 AMPS 0.2 1.5 1ST FLOOR EF1-1 EXHAUST FAN 1ST FLOOR 120 1 1.5 AMPS 0.2 1.5 EF1-2 EXHAUST FAN 120 1 1.5 AMPS 0.2 1.5 1ST FLOOR EF1-3 EXHAUST FAN 2ND FLOOR EF2-1 120 1 1.5 AMPS 0.2 1.5 EXHAUST FAN 2ND FLOOR 120 1 1.5 AMPS 0.2 1.5 EF2-2 EXHAUST FAN 120 1 0.46 AMPS 0.1 0.5 SPLIT SYSTEM AC 1ST FLOOR SS1-1 1ST FLOOR 120 1 0.46 AMPS 0.1 0.5 SPLIT SYSTEM AC SS1-2 ROOF 208 1 8.4 AMPS 1.7 8.4 SSCU1-1 SPLIT SYSTEM COND 1 8.4 AMPS 1.7 8.4 ROOF 208 SSCU1-2 SPLIT SYSTEM COND 480 3 51.6 AMPS 42.9 51.6 1ST FLOOR CRAC-1 COMPUTER ROOM AC 480 3 51.6 AMPS 42.9 51.6 1ST FLOOR CRAC-2 COMPUTER ROOM AC 480 3 4.2 AMPS 3.5 4.2 ROOF ACCU-1 COMPUTER ROOM COND 480 3 4.2 AMPS 3.5 4.2 ROOF COMPUTER ROOM COND ACCU-2 1 4.2 AMPS 0.5 4.2 VAV CTRL VAV CONTROLLER 1ST FLOOR 120 120 1 4.2 AMPS 0.5 4.2 VAV CONTROLLER 2ND FLOOR VAV CTRL SD1-L01 1ST FLOOR VAV 120 1ST FLOOR 170 SD1-LO2 VAV SD1-L03 1ST FLOOR VAV 120 1ST FLOOR 277 1 3.6 AMPS 1.0 3.6 SD1-L04 VAV 2ND FLOOR SD1-U01 VAV 120 1ST FLOOR SD2-L01 VAV 120 1ST. FLOOR SD2-L02 VÁV 1ST FLOOR 120 SD2-L03 VAV FP1-L01 FP1-L02 FP1-L03 1ST FLOOR 277 1 20.5 AMPS 5.7 20.5 FAN POWERED TB 277 1 8.3 AMPS 2.3 8.3 1ST FLOOR FAN POWERED TB 277 1 14.8 AMPS 4.1 14.8 1ST FLOOR FAN POWERED TB 277 1 20.5 AMPS 5.7 20.5 FP1-L04 1ST FLOOR FAN POWERED TB 277 1 20.5 AMPS 5.7 20.5 1ST FLOOR FP1-L05 FAN POWERED TB 277 1 17 AMPS 4.7 17.0 1ST FLOOR FP1-L06 FAN POWERED TB FP1-L07 FAN POWERED TB 1ST FLOOR 277 | 1 | 20.5 | AMPS | 5.7 | 20.5 | 277 1 11.9 AMPS 3.3 11.9 1ST FLOOR FP1-L08 FAN POWERED TB 1ST FLOOR 277 1 20.5 AMPS 5.7 20.5 FP1-L09 FAN POWERED TB 480 3 30.1 AMPS 25.0 30.1 1ST FLOOR FP1--U01 FAN POWERED TB 277 1 27.8 AMPS 7.7 27.8 1ST FLOOR FP1-U02 FAN POWERED TB 277 1 11.9 AMPS 3.3 11.9 1ST FLOOR FP1-U03 FAN POWERED TB 277 1 11.9 AMPS 3.3 11.9 1ST FLOOR FP1-U04 FAN POWERED TB 277 1 13.4 AMPS 3.7 13.4 FP1--U05 1ST FLOOR FAN POWERED TB 480 3 33.7 AMPS 28.0 33.7 4 FP1-U06 1ST FLOOR FAN POWERED TB 277 1 24.2 AMPS 6.7 24.2 FP1-U07 1ST FLOOR FAN POWERED TB 1ST FLOOR 277 1 8.3 AMPS 2.3 8.3 FP1-U08 FAN POWERED TB 2ND FLOOR 277 1 20.5 AMPS 5.7 20.5 FP2-L01 FAN POWERED TB 277 1 11.9 AMPS 3.3 11.9 2ND FLOOR FP2-L02 FAN POWERED TB 277 1 11.9 AMPS 3.3 11.9 2ND FLOOR FP2-L03 FAN POWERED TB 2ND FLOOR 277 1 11.9 AMPS 3.3 11.9 FP2-L04 FAN POWERED TB 480 3 18.7 AMPS 15.5 18.7 2ND FLOOR FP2-L05 FAN POWERED TB 2ND FLOOR 277 1 17 AMPS 4.7 17.0 FP2-L06 FAN POWERED TB 277 1 20.5 AMPS 5.7 20.5 2ND FLOOR FP2-L07 FAN POWERED TB 277 1 11.9 AMPS 3.3 11.9 2ND FLOOR FP2-L08 FAN POWERED TB 277 1 17 AMPS 4.7 17.0 2ND FLOOR FP2-L09 FAN POWERED TB 480 3 27.7 AMPS 23.0 27.7 2ND FLOOR FAN POWERED TB FP2--U01 277 1 11.9 AMPS 3.3 11.9 FP2--U02 FAN POWERED TB 2ND FLOOR 277 1 11.9 AMPS 3.3 11.9 FP2--U03 FAN POWERED TB 2ND FLOOR 277 1 8.3 AMPS 2.3 8.3 FP2--U04 FAN POWERED TB 2ND FLOOR FP2--U05 277 1 24.2 AMPS 6.7 24.2 FAN POWERED TB 2ND FLOOR 277 1 20.5 AMPS 5.7 20.5 FP2-U06 FAN POWERED TB 2ND FLOOR 480 3 33.7 AMPS 28.0 33.7 2ND FLOOR FAN POWERED TB 1ST FLOOR 480 3 6.1 AMPS 5.1 6.1 UNIT HEATER UH-1 1ST FLOOR 208 1 28.8 AMPS 6.0 28.8 WATER HEATER EWH-1 WATER HEATER 1ST FLOOR 208 1 14.4 AMPS 3.0 14.4 EWH-2 2ND FLOOR 208 1 14.4 AMPS 3.0 14.4 WATER HEATER EWH-2 1ST FLOOR 208 1 7.2 AMPS 1.5 7.2 WATER HEATER EWH-3

KEYED NOTES

ELEV

1 MAKE CONNECTIONS VIA STARTER/DISCONNECT FURNISHED WITH EQUIPMENT.

2 POWER FOR CONTROL CIRCUITS SHALL BE EXTENDED FROM LOCATIONS DESIGNATED ON THE DRAWINGS FOR ALL DEVICES AS REQUIRED.

3 PROVIDE RECEPTACLE FOR EQUIPMENT. PROVIDE CORD AND PLUG IF NOT FURNISHED WITH EQUIPMENT.

4 MAKE CONNECTIONS VIA VFD/DISCONNECT FURNISHED WITH EQUIPMENT. 5 OVERCURRENT PROTECTION FOR FIRE PUMP CIRCUITS SHALL BE PROVIDED BY MOLDED CASE MCP WITH SHORT CIRCUIT TRIP SET AT 400 AMPS.

6 PROVIDE LOCAL DISCONNECT SWITCH AND MAKE CONNECTIONS VIA STARTER OR CONTROLLER FURNISHED WITH EQUIPMENT 7 AIR HANDLER FED FROM CONDENSING UNIT ON ROOF. CONTRACTOR TO PROVIDE LOCAL DISCONNECT.

8 VAV BOXES CONTROLLED VIA LOW VOLTAGE VAV CONTROLLER.

9 POWER TO SERVER ROOM HVAC UNIT, SHALL BE DISCONNECTED ALONG WITH UPS SHUTDOWN, UPON OPERATION OF EPO SHUTDOWN.

Wer w

480 <u>3</u> <u>25</u> <u>HP</u> <u>28.3</u> <u>34.0</u> ELEVATOR

SIZE 150 MD 150 MD 40 HP 125 MD 125 MD 125 MD 125 MD 125 MD 15 LP 15 C 15 D 15 15 16 15 15 H <	ED FROM DP-19 DP-20 28-12 DP-25 DP-25 DP-26 P2B-2 P2B-2 P1B-1 P1A-1 CLP-2 P2B-8 P2A-4 CLP-9 CLP-6 P2B-3 CLP-1	FRAME/POLES/TRIP 200/3/150 200/3/150 60/3/40 200/3/125 200/3/125 200/3/125 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15	N N N N N N N N N N N N N N	SIZE			No.Sets: No.& Size,Gnd,Conduit 1:3#1/0,#6G,1-1/2C. 1:3#1/0,#6G,1-1/2C. 1:3#1,#6G,1-1/2C. 1:3#1,#6G,1-1/2C. 1:3#1,#6G,1-1/2C. 1:3#14,#14G,3/4C.	
150 MD 40 HP2 125 MD 125 MD 125 MD 15 LP 15 C 15 H	DP-20 22B-12 DP-25 DP-26 P2B-2 P2B-2 P1B-1 P1A-1 CLP-2 P2B-8 P2B-8 P2B-8 P2B-8 P2B-4 CLP-9 CLP-9 CLP-6 P2B-3 CLP-1	200/3/150 60/3/40 200/3/125 200/3/125 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15	N N N N N N N N N				1:3#1/0,#6G,1-1/2C. 1:3#8,#10G,3/4C. 1:3#1,#6G,1-1/2C. 1:3#1,#6G,1-1/2C.	
150 MD 40 HP2 125 MD 125 MD 125 MD 15 LP 15 C 15 H 20 LP 15 H 30 H 30 H 30 H 30 H 15 H	DP-20 22B-12 DP-25 DP-26 P2B-2 P2B-2 P1B-1 P1A-1 CLP-2 P2B-8 P2B-8 P2B-8 P2A-4 CLP-9 CLP-9 CLP-6 P2B-3 CLP-1	200/3/150 60/3/40 200/3/125 200/3/125 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15	N N N N N N N N N				1:3#1/0,#6G,1-1/2C. 1:3#8,#10G,3/4C. 1:3#1,#6G,1-1/2C. 1:3#1,#6G,1-1/2C.	
150 MD 40 HP2 125 MD 125 MD 125 MD 15 UP 15 C 20 UP 20 UP 20 UP 30 H	DP-20 22B-12 DP-25 DP-26 P2B-2 P2B-2 P1B-1 P1A-1 CLP-2 P2B-8 P2B-8 P2B-8 P2A-4 CLP-9 CLP-9 CLP-6 P2B-3 CLP-1	200/3/150 60/3/40 200/3/125 200/3/125 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15	N N N N N N N N N				1:3#1/0,#6G,1-1/2C. 1:3#8,#10G,3/4C. 1:3#1,#6G,1-1/2C. 1:3#1,#6G,1-1/2C.	
40 HP2 125 MD 125 MD 15 UP 15 C 20 UP 20 UP 20 UP 30 H 15 H 30 H	228-12 DP-25 DP-26 P28-2 P28-2 P18-1 P18-1 P18-1 P18-1 CLP-2 P28-8 P2A-4 CLP-9 CLP-6 P2B-3 CLP-1	60/3/40 200/3/125 200/3/125 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15	N N N N N N N N N				1:3#8,#10G,3/4C. 1:3#1,#6G,1-1/2C. 1:3#1,#6G,1-1/2C.	
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125 MD 15 UP 15 C 20 UP 20 UP 20 UP 15 H 30 H <td>DP-26 P2B-2 P2A-2 P1B-1 P1A-1 CLP-2 P2B-8 P2A-4 CLP-9 CLP-6 P2B-3 CLP-1</td> <td>200/3/125 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15</td> <td>N N N N N N</td> <td></td> <td></td> <td></td> <td>1:3#1,#6G,1-1/2C.</td> <td>99999999999999999999999999999999999999</td>	DP-26 P2B-2 P2A-2 P1B-1 P1A-1 CLP-2 P2B-8 P2A-4 CLP-9 CLP-6 P2B-3 CLP-1	200/3/125 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15	N N N N N N				1:3#1,#6G,1-1/2C.	99999999999999999999999999999999999999
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15 LF 15 LF 15 LF 15 LF 15 LF 15 LF 15 C 60 C 60 C 60 C 15 C 20 LF 20 LF 20 LF 20 LF 20 LF 20 LF 15 H 30 H 15 H 30 H	P2A-2 P1B-1 P1A-1 CLP-2 P2B-8 P2A-4 CLP-9 CLP-6 P2B-3 CLP-1	30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15 30/2/15	N N N N			·	1:3#14.#14G.3/4C	
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15 LF 15 0 60 0 60 0 15 0 15 0 15 0 20 LF 20 LF 20 LF 20 LF 20 LF 15 H 15 H 15 H 20 H 15 H 15 H 30 H 15 H 30 H	P2B-3 CLP-1			<u> </u>	<u> </u>	<u> </u>	1:3#14,#14G,3/4C. 1:3#14,#14G,3/4C.	
15 0 60 0 60 0 15 0 15 0 20 15 20 17 20 17 20 17 20 17 20 17 20 17 20 17 20 17 15 17 15 17 15 17 30 17 30 18 30 17 30 18 30 19 30 11 30 11 30 14 30 14 30 14 30 14 30 14 30 14 15 14 30 14 15 14 30 14 15 14	CLP-1	30/2/15	N N	<u> </u>		<u></u>	1:3#14,#146,3/4C.	*******
60 C 60 C 15 C 20 LF 15 H 15 H 30 H 35 H 30 H 15 H 30 H 15 H	-	30/2/15	N	\mathbf{T}	1	1	1:3#14,#14G,3/4C.	
60 C 15 C 15 C 20 LF 20 LF 20 LF 20 LF 20 LF 20 LF 15 H 15 H 15 H 30 H 315 H 30 H 30 H <tr< td=""><td>000 · 4</td><td></td><td></td><td><u> </u></td><td><u> </u></td><td></td><td></td><td></td></tr<>	000 · 4			<u> </u>	<u> </u>			
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15 C 20 LF 20 LF 20 LF 20 LF 15 LF 15 H 15 H 30 HF 30 H 315 H 30 H 315 H 30 H 15 H 30 H 315 H	CDP-2	60/3/60	N				1:3#6,#10G,3/4C.	9
20 LF 20 LF 20 LF 20 LF LP15 LP15 LP15 H 15 H 20 LF 15 H 20 H 30 H 15 H 30 H 15 H 30 H	CDP-7	30/3/15	Ň	<u> </u>	<u> </u>	<u> </u>	1:3#14,#14G,3/4C.	<u>,</u>
20 LP IS LP IS LP IS IS HI 30 HI 315 HI 35 HI 35 HI 35 HI	CDP-8	30/3/15	<u>N</u>	+			1:3#14,#14G,3/4C.	<u>n)</u>
20 LP IS IS HI 30 HI 315 HI 30 HI 30 HI 30 HI 315 HI 325 HI 335 HI 35 HI 35 HI	P18-3	30/2/20		-	<u> </u>	+	1:3#12,#12G,3/4C.	#**********
L.P IP 15 HI 15 HI 15 HI 30 HF 30 HI 20 HI 30 HI 35 HI 35 HI 30 HI 15 HI 30 HI 35 HI 35 HI 35 HI 35 HI 35 HI	P18-3 P28-7	30/2/20	N N	+	<u> </u>	· · · · · · · · · · · · · · · · · · ·	1:3#12,#12G,3/4C.	an de la compañía de
LP19 15 H 15 H 15 H 30 H 35 H 35 H 35 H 30 H 15 H 30 H 15 H 30 H 15 H 35 H 35 H 35	the second s		N	1		<u> </u>		8
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LP I LP I JJP 30 HF 15 H 20 H 30 HF 30 H 35 H 30 H 15 H 30 H 15 H 35 H 35 H 35 H 35 H <t< td=""><td>B 78</td><td></td><td>N</td><td><u> </u></td><td><u> </u></td><td></td><td></td><td>8</td></t<>	B 78		N	<u> </u>	<u> </u>			8
LPN 30 HF 15 HF 20 H 30 HF 35 HF 35 HF 35 HF 35 HF 30 HF 30 HF 35 HF 35 HF 30 HF 35 HF	IP1B-2	30/2/15	<u>N</u>				1:3#14,#14G,3/4C.	
LPN 30 HF 15 HF 20 H 30 HF 35 HF 35 HF 35 HF 30 HF 30 HF 30 HF 35 HF 35 HF 30 HF 35 HF	10 22		<u> N</u> N		<u> </u>			8
JO JO 30 HF 15 HI 20 H 30 HI 35 HI 35 HI 35 HI 35 HI 35 HI 35 HI 30 HI 15 HI 30 HI 35 HI 35 <t< td=""><td>IA 33</td><td></td><td>N N</td><td>1.</td><td></td><td>1</td><td></td><td>8</td></t<>	IA 33		N N	1.		1		8
30 HF 15 H 20 H 30 H 35 H 35 H 35 H 35 H 30 H 15 H 30 H 15 H 30 H 35 H	PH 33	<u></u>		with the second second	-			. 8
15 H 20 H 30 H 35 H 15 H 35 H 35 H 30 H 15 H 30 H 15 H 30 H 15 H 30 H 15 H 35 H 30 H 15 H 35 H 35 H 35 H 35 H 35 H 35 H 35 <td< td=""><td>P1B-11</td><td>30/2/30</td><td>N</td><td></td><td>1</td><td></td><td>1:3#10,#10G,3/4C.</td><td></td></td<>	P1B-11	30/2/30	N		1		1:3#10,#10G,3/4C.	
30 H 35 H 15 H 20 H 45 H 35 H 35 H 35 H 30 H 15 H 30 H 15 H 30 H 15 H 30 H 15 H 35 H 35 <td< td=""><td>IP18-5</td><td>30/2/15</td><td>N</td><td></td><td></td><td></td><td>1:3#14,#146,3/4C.</td><td></td></td<>	IP18-5	30/2/15	N				1:3#14,#146,3/4C.	
30 H 25 H 30 H 30 H 15 H 30 H 35 H 15 H 20 H 45 H 35 H 35 H 35 H 35 H 30 H 15 H 25 H 25 H 30 H 15 H 35 H	-IP1B-1	30/2/20	N	-			1:3#12,#126,3/4C.	
25 H 30 H 15 H 30 H 35 H 15 H 20 H 45 H 35 H 35 H 35 H 35 H 15 H 30 H 15 H 25 H 30 H 15 H 30 H 15 H 35 H 35 <td< td=""><td>IP1B-3</td><td>30/2/30</td><td><u> N</u></td><td></td><td></td><td></td><td>1:3#10,#10G,3/4C.</td><td></td></td<>	IP1B-3	30/2/30	<u> N</u>				1:3#10,#10G,3/4C.	
30 H 15 H 30 H 30 H 30 H 30 H 30 H 30 H 35 H 15 H 20 H 45 H 35 H 35 H 35 H 35 H 35 H 30 H 15 H 25 H 25 H 30 H 15 H 35 H 35 <td< td=""><td>IP1B-4</td><td>30/2/30</td><td><u> N</u></td><td>-</td><td>1.</td><td></td><td>1:3#10,#10G,3/4C. 1:3#10,#10G,3/4C.</td><td></td></td<>	IP1B-4	30/2/30	<u> N</u>	-	1.		1:3#10,#10G,3/4C. 1:3#10,#10G,3/4C.	
15 H 30 H 40 H 35 H 15 H 15 H 20 H 45 H 35 H 15 H 30 H 15 H 30 H 15 H 30 H 15 H 25 H 30 H 15 H 30 H 15 H 30 H 15 H 30 H 15 H 35 H 35 H 35 H 35 H 35 H 35 H 30 H 45 H 15 H 36 H	IP18-7	<u> </u>	N			1	1:3#10,#10G,3/4C.	
30 H 40 H 35 H 15 HF 15 H 20 H 45 H 35 H 30 H 15 H 25 H 30 H 15 H 30 H 15 H 30 H 15 H 35 H 35 H 35 H 35 H 35 H 36 H 37 H 36 H 37 H 36 H 37 H 30 H	IP1B-8	30/2/15	N		1		1:3#14,#14G,3/4C.	
40 H 35 H 15 H 15 H 20 H 35 H 15 H 30 H 15 H 25 H 30 H 15 H 30 H 15 H 30 H 15 H 35 H 35 H 35 H 35 H 35 H 30 H 45 H 15 H 30 H 45 H 15 H 30 H	IP1B-9	30/2/30	N				1:3#10,#10G,3/4C.	
15 HF 15 H 20 H 45 H 35 H 15 H 35 H 15 H 30 H 15 H 30 H 15 H 25 H 25 H 30 H 15 H 25 H 25 H 30 H 15 H 35 H 36 H 37 H 38 H 30 H 45 H 15 H 15 H	IP28-9	60/3/40	N				1:3#8,#10G,3/4C.	
15 H 20 H 45 H 35 H 35 H 15 H 30 H 15 H 15 H 15 H 15 H 15 H 25 H 30 H 15 H 25 H 30 H 15 H 35 H 36 H 37 H 30 H 45 H 15 H	IP2B-8	60/2/35	<u>N</u>		·	-	1:3#8,#10G,3/4C.	
20 H 45 H 35 H 15 H 30 H 15 H 15 H 15 H 15 H 15 H 25 H 30 H 25 H 30 H 15 H 25 H 30 H 15 H 35 H 35 H 35 H 35 H 35 H 30 H 45 H 15 H	P2B-10	30/2/15	<u>N</u>		<u> </u>	-	1:3#14,#14G,3/4C.	
45 H 35 H 15 H 30 H 15 H 15 H 15 H 15 H 25 H 30 H 25 H 30 H 15 H 30 H 15 H 35 H 15 H 35 H 30 H 45 H 15 H 30 H 45 H 15 H	<u>1P2B-4</u>	<u> </u>	N		-		1:3#14,#14G,3/4C. 1:3#12,#12G,3/4C.	
35 H 15 H 30 H 15 H 15 H 15 H 15 H 25 H 30 H 25 H 30 H 15 H 25 H 30 H 15 H 35 H 15 H 35 H 35 H 35 H 35 H 15 H 15 H 15 H 35 H 30 H 45 H 15 H	HP2B-2	60/3/45			+	+	1:3#8,#10G,3/4C.	
15 H 30 H 15 H 15 H 15 H 15 H 25 H 25 H 30 H 30 H 35 H 15 H 35 H 15 H 35 H 30 H 45 H 15 H	IP2B-7	60/2/35	N		1	1	1:3#8,#10G,3/4C.	
30 H 15 H 15 H 15 H 25 H 25 H 30 H 15 H 30 H 35 H 15 H 35 H 36 H 15 H 15 H 15 H 15 H 30 H 45 H 15 H	-IP2B6	30/2/15	N		L		1:3#14,#14G,3/4C.	
15 H 15 H 25 H 25 H 30 H 15 H 30 H 35 H 35 H 15 H 35 H 36 H 37 H 38 H 39 H 30 H 45 H 15 H	HP1A-9	30/2/30	N			<u></u>	1:3#10,#10G,3/4C.	
15 H 25 H 25 H 30 H 15 H 25 H 30 H 15 H 15 H 15 H 35 H 30 H 45 H 15 H	IP1A-10	30/2/15	N				1:3#14,#14G,3/4C.	
25 H 25 H 30 H 15 H 25 HI 35 HI 15 H 15 H 15 H 35 H 36 H 15 H 15 H	HP1A-8	30/2/15	N		-	· · · · ·	1:3#14,#14G,3/4C.	
25 H 30 H 15 H 25 HI 35 HI 15 H 15 H 15 H 35 H 35 H 35 H 35 H 35 H 30 H 45 H 15 H	HP1A-7 HP1A-2	<u>30/2/15</u> 30/3/25	N N				1:3#14,#14G,3/4C. 1:3#10,#10G,3/4C.	
30 H 15 H 25 H 35 H 15 H 15 H 35 H 35 H 35 H 35 H 15 H 35 H 30 H 45 H 15 H	HP1A-3	30/3/25	Ň		1		1:3#10,#106,3/4C.	
15 H 25 HI 35 HI 15 H 15 H 35 H 35 H 35 H 30 H 45 H 15 H	HP1A-1	30/2/30	N		1		1:3#10,#106,3/4C.	<u></u>
35 Hi 15 H 15 H 15 H 15 H 35 H 30 H 45 H 15 H	HP1A-5	30/2/15	N		ļ		1:3#14,#14G,3/4C.	
15 H 15 H 15 H 35 H 30 H 45 H	iP1B-10	30/2/25	N			1	1:3#10,#10G,3/4C.	<u> </u>
15 H 15 H 35 H 30 H 45 H	IP2A-10	60/3/35	N		·		1:3#8,#10G,3/4C.	
15 H 35 H 30 H 45 H	HP2A-9	30/2/15	N				1:3#14,#14G,3/4C. 1:3#14,#14G,3/4C.	<u> </u>
35 H 30 H 45 H	HP2A-8 HP2A-6	<u>30/2/15</u> <u>30/2/15</u>	N				1:3#14,#146,3/4C.	1
30 H 45 H 15 H	HP2A-4	60/2/35	N		-	1	1:3#8,#10G,3/4C.	
45 H	HP2A-7	30/2/30	N				1:3#10,#10G,3/4C.	
15 H	HP2A-1	60/3/45	N				1:3#8,#10G,3/4C.	
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	iP1B-12	NOT REQD SEE NOTES	<u>)</u> N	I .		1	1:3#14,#14G,3/4C.	1
ا من ا		LIAT DPAR					1:3#8,#10G,3/4C.	
	LP1B-2	NOT REQD	N N		-		1:3#12,#12G,3/4C.	, ,
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	LP1A-2	NOT REQD	- N				1:3#12,#12G,3/4C.	
							1:3#6,#8G,3/4C.	

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	OLTS:	480Y/277			*			AMP, MAIN	LUGS 5 AMI		<u>Y</u>		LOCATION: ELECTRIC ROOM
	<u>PHASE:</u> V. I. C. : 3	3 PHASE 41 5,000 MINIMU	-	مربع الماري بيونيايي	-	MAIN	TRAL BL		FULL				MOUNTING: SURFACE
SERVED FROM : PANEL MDP-XX		ojovo mitare						ND BUS					
LOAD LOCATION AND/OR		BREAKER		CKT	LOAD		IASE	LOAD	CKT		BREAKER	a : :	LOAD LOCATION AND/OR
DESCRIPTION:	Letter	POLES-TRIP	AF	NO.	VA		B C	VA		AF	POLES-TRIP	<u> </u>	DESCRIPTION:
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uner faller from	SF			41			C		42	1		SF	
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BRANCH: "EMERGENCY" SERVED FROM : MDP VIA ATS LOAD LOCATION AND/OR DESCRIPTION: LIGHTING 2ND FLOOR LIGHTING SPARE SPARE SPARE SPARE SPACE ONLY SPACE ON	PHASE: A. I. C. : Code Lette L S S S S S S S S S S S S S S S S S S	480Y/277 3 PHASE 4 35,000 MINIM BREAKER POLES-TRIF 1 - 20 1 - 20 1 - 20 1 - 20 	W UM CK N(1 3 5 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1	T LOAD VA 1200 1350 1350 7 9 1	MAIN: 100 MAIN BUS NEUTRAL B FULL GROU PHASE A B C A B C A B C C A B C C A B C C A B C C A B C C A C C A B C C A C C A C C C A C C C A C C C A C C C A C C C A C C C A C C C C	AMP; MAIN : 10 US: ND BUS LOAD VA 2040 EMS MARKINE E GFCI BR E ARC-FAU E SEPARAT E SEPARAT E SEPARAT	LUGS 0 AMP FULL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 24 CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 CKT ROUGH TRIP WH	ONI PS	LY BREAKER POLES-TRIP 1 - 20 	Code Lette L S S S S S S S S S S S S S S S S S S	MOUNTING: SURFACE

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	PHASE:		PHASE 4W				MAIN			O AMP			•	·	. e .:	LOCATION: ELECTRIC ROOM
BRANCH: "CRITICAL"	A. I. C. :	10,	000 MINIMU	M			NEU	rral bl	IS:	FULL						MOUNTING: SURFACE
SERVED FROM : PANEL MDP-X	XX	······			, .		FULL	. GROUI	ID BUS			•	-			
LOAD LOCATION AND/OR		de B	REAKER	CK	T	LOAD	P	ASE	LOAD	CKT		BRE	AKEF	?	Code	LOAD LOCATION AND/OR
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SUMMARY	·	A.,	B	C		· · · ·		· ·				• • •	•			
LIGHTING (L)							PRC	NIDE IT	ems mark	ED WITH	"	X" B	ELO	V:	• <u>.</u> •	
RECEPTACLE (R)	•			· .		1		PROVID	E GFCI BR	REAKER	WH	ERE	MAR	KED	"GF" /	BOVE.
MECH. HEAT (H)			4			· .		PROVID	E ARC-FA	ULT BRE	AK	ER V	NHEF	i M	RKED	"AF" ABOVE.
MECH. MOTOR (M)		1	2	÷.				PROVID	e tvss di	EVICE FO	R	THIS	PA	NEL.	- 	
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APPLIANCE (A)		÷ ,• •		;				PROVID	E UL SER	VICE EN	TR/	NCE	LAE	EL.	•	
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TOTALS		1	2			• • • •	X	PROVID	E DOOR-I	N-DOOR	C	ONST	RUC	TION		
TOTAL CONN. KVA	3.0		= 9 AMPS			e 1				** <u>;</u>				· · · · · · · · · · · · · · · · · · ·		
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CONTROL ABBREVIATIONS : 2SPD = TWO-SPEED STARTER

FSOA = FAST-SLOW-OFF-AUTOMATIC SELECTOR SW.

ware the sec

FUSW = FUSIBLE DISCONNECT SWITCH FVNR = FULL-VOLTAGE, NON-REVERSING

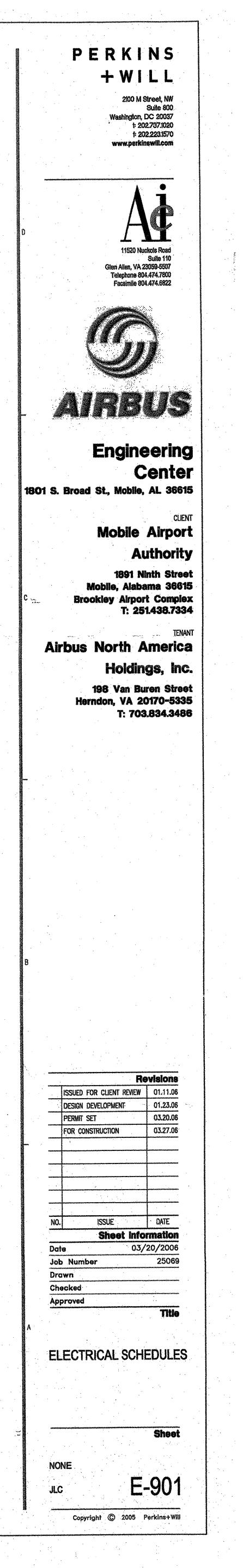
FVR = FULL-VOLTAGE, REVERSING

FRO = FORWARD, REVERSE, OFF SELECTOR SWITCH HOA = HAND-OFF-AUTOMATIC SELECTOR SWITCH

MCCB = MOLDED CASE CIRCUIT BREAKER

RV = REDUCED VOLTAGE UDO = UP, DOWN, OFF SELECTOR SWITCH

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PANELBOARD SCHEDULE - ELP MAIN: 60 AMP, 3 POLE, MAIN BREAKER MAIN BUS : 100 AMPS VOLTS: 208Y/120 PHASE: 3 PHASE 4W PANEL: ELP LOCATION NEUTRAL BUS: FULL BRANCH: "EMERGENCY" A. I. C. : 10,000 MINIMUM FULL GROUND BUS SERVED FROM : PANEL EDP CodeBREAKERCKTLOADPHASELOADCKTBREAKERCodeLOADLOADLOADLetterPOLES-TRIPNO.VAABCVANO.POLES-TRIPLetterDESCRIPTIONA1 - 201500A120021 - 20LELEVATORS1 - 203B4- - --SSDAREG-S1 - 205C6- - --SSPARE LOAD LOCATION AND/OR DESCRIPTION: FIRE ALAM PANEL SAMRE Elevator Shant S 1-20 3 8 --- S SPARE S 1-20 7 10 ---- S SPARE S -- -- 9 B S - - -- 11 SPARI <u>S</u> - - - - 13 SPARE SPACE ONLY SPACE ONLY A S ----16 --- S SPACE В 18 --- S SPACE S ----C <u>s</u> ----20 --- S SPACE SPACE ONLY SPACE ONLY A . .
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 KVA
 CONNECTED

 A
 B
 C
 load Summary Lighting (L) PROVIDE ITEMS MARKED WITH "X" BELOW: PROVIDE GFCI BREAKER WHERE MARKED "GF" ABOVE. PROVIDE ARC-FAULT BREAKER WHERE MARKED "AF" ABOVE. PROVIDE TVSS DEVICE FOR THIS PANEL. PROVIDE SEPARATE ISOLATED GROUND BUS. PROVIDE FEED THROUGH LUGS PROVIDE UL SERVICE ENTRANCE LABEL. PROVIDE SHUNT-TRIP ON MAIN BREAKER. X PROVIDE DOOR-IN-DOOR CONSTRUCTION RECEPTACLE (R) MECH. HEAT (H) MECH. MOTOR (M) COOKING (C) WATER HTR (W) APPLIANCE (A) OTHER (O) TOTALS

S2TOTAL CONN. KVA2.0= 5 AMPS

5

PTI-L06 M 1 - 25 7 4709 A 3296 8 1 - 15 M PTI-L08 PTI-L09 M 1 - 30 9 5678 B 4709 10 1 - 25 M PTI-L08 PTI-L01 M 1 - 30 11 5678 B 4709 10 1 - 25 M PTI-L09 STE L04TING L 1 - 20 13 2360 A 1689 12 3 - 20 H UH-1 STE L04TING L 1 - 20 17 1770 C 18 H STE L04TING L 1 - 20 21 2800 A 200 S SPARE STE L04TING L 1 - 20 23 3460 C 2460 24 L UBHTING L04TING L 1 - 20 25 2200 A 26 S SPARE SPARE S 33 460 C 260 S SPARE SPARE S <th></th> <th></th> <th>P</th> <th>ANEL</th> <th></th> <th>RD S</th> <th>CHEI</th> <th>DULE</th> <th>E – HP</th> <th>1B</th> <th></th>			P	ANEL		RD S	CHEI	DULE	E – HP	1B	
PHASE: 3 PHASE: MAIN BUS 225 AMPS UCCNTON: ELECTIBLE ROOM SERVED FOM: MAIN DUSTRIEURON BOAKD FULL MUDATING: SURFACE SURFACE SERVED FOM: MAIN MUD/GR Code BREAKER CAT LOAD CAT MUDATING: SURFACE MUDATING: SURFACE LOAD CAT LOAD CAT LOAD CAT MUDATING: SURFACE MUDATING: SURFACE LOAD Load MAIN T= 20 1 41000 A 1000 2 1 - 20 H SURFACE FP1-L03 M 1 15 5 2300 C 5678 6 1 - 30 M FP1-L07 FP1-L08 M 1 - 30 9 5578 B 4709 1 - 5 SURFACE M FP1-L07 FP1-L08 M 1 - 30 15 2360 A 1658 14	PANEL: HP1B	VOLTS:	480Y/277			MAIN: 225	AMP, MAIN	LUGS C	DNLY		
IA. I. C.: 35,000 INNUMUM PEUTRAL RUS:: FULL MOUNTING: SURFACE ESERVED FROM : MAIN JOR Bodde BEXARCR COK LOAD PULL CROUND BUS Code BACARCR Code LAND PULL Code MAIN JOR Code BEXARCR Code LAND PULL Code MAIN JOR Code BACARCR Code LAND PULL Code MAIN JOR Code BEXARCR Code LAND Code MAIN JOR Code BACARCR Code LAND Code LAND Code MAIN JOR Code LAND LAND Code LAND Code LAND Code LAND Code LAND Code LAND LAND		1	•			MAIN BUS	: 22	5 AMP	S .		LOCATION: ELECTRIC ROOM
SERVED FEQUL : MAN DISTRIBUTION BORD FULL CROUND BUS FULL CROUND BUS Code Code LOD LOCATION AND/OR LADD LOCATION AND/OR Code BREMER CKT LOAD PMSE LOAD CKT BREAKER Code LOAD Code LOAD CODE Code LOAD CODE Code LOAD LoAD CAT BREAKER No. POLES-TRIP LoAD KT STATE STAT			5.000 MINIMUI	V		NEUTRAL BI	US:	FULL	• .		MOUNTING: SURFACE
LGM LOAD Construct LABRE CKT LAAD PHASE LOAD CKT PHASE LOAD CKT PCACE Code LABLE PCACE Code LABLE PCACE Code LABLE PCACE Code LABLE PCACE	SERVED FROM : MAIN DISTRIBU	A second s				FULL GROU	ND BUS	-			
DESCRIPTION: Letter POLES-TRIP NO. WA A B C VA NO. POLES-TRIP Letter DESCRIPTION: PTI-LO3 M 1 - 20 1 4100 A 1000 2 1 - 20 H STI-LO4 PTI-LO3 M 1 - 15 5 2300 C 5678 6 1 - 30 M PTI-LO5 PTI-LO2 M 1 - 15 5 2300 C 5678 6 1 - 30 M PTI-LO5 PTI-LO2 M 1 - 20 11 5678 C 1689 12 3 - 20 H HIT-1 STE LIGHTMO L 1 - 20 113 2360 A 1689 12 3 - 20 H HIT-1 STE LIGHTMOS L 1 - 20 13 2360 A 1689 14 S SPARE UBHTMOS L 1 - 20 121 2800 A 226 S SPARE <t< td=""><td></td><td></td><td>BREAKER</td><td>CKT</td><td>LOAD</td><td>PHASE</td><td>LOAD</td><td>CKT</td><td>BREAKER</td><td>Code</td><td>LOAD LOCATION AND/OR</td></t<>			BREAKER	CKT	LOAD	PHASE	LOAD	CKT	BREAKER	Code	LOAD LOCATION AND/OR
PPI-LD3 M 1 - 20 1 4100 A 1000 2 1 - 20 H SDI-L04 PPI-L04 M 1 - 30 3 5678 8 5678 4 1 - 30 M PPI-L05 PPI-L02 M 1 - 15 5 2300 C 5678 6 1 - 30 M PPI-L05 PPI-L09 M 1 - 25 7 4709 A 32286 8 1 - 15 M PPI-L08 PPI-L01 M 1 - 30 1 5678 8 4709 10 1 - 25 M PP2-L09 STEL LGHTINC L 1 - 20 13 2360 A 1689 14 H STE LGHTINC L 1 - 20 170 C 18 S S PARE S S PARE		Letter	POLES-TRIP	NO.	VA	ABC	VA	1 NO.	POLES-TRIP	Letter	DESCRIPTION:
PFI-L04 M 1 - 30 3 5578 B 5678 4 1 - 30 M PFI-L05 PFI-L02 M 1 - 15 5 2300 C 5678 6 1 - 30 M PFI-L05 PFI-L06 M 1 - 25 7 4709 A 3286 8 1 - 15 M PFI-L07 PFI-L09 M 1 - 30 9 5578 B 4709 10 1 - 25 M PFI-L09 STE L0FTING L 1 - 30 11 5578 C 1889 12 3 - 20 H UH-1 STE L0FTING L 1 - 20 15 2360 8 1689 16 H STE L0FTING L 1 - 20 17 777 C 18 S SPARE L04 1 - 20 21 2890 8 1950 22 S SPARE L04TING L 1 - 20	an a	M	1 - 20	1	4100	A	1000	2	1 - 20	H	SD1-LO4
PFI-L02 M 1 - 15 5 2300 C 5578 6 1 - 30 M PFI-L07 PFI-L08 M 1 - 25 7 4709 A 3296 8 1 - 15 M PFI-L07 PFI-L09 M 1 - 30 9 5578 B 4709 10 1 - 15 M PFI-L09 PFI-L01 M 1 - 30 11 5678 C 1689 12 3 - 20 H UH-1 STE L0ATING L 1 - 20 15 2560 B 1689 16 H STE L0ATING L 1 - 20 17 1770 C 18 S SPARE STE L0ATING L 1 - 20 23 3460 C 2480 24 S SPARE UDRTING L 1 - 20 25 2200 A 28 S SPARE SPARE S 29 C 30 S SPARE SPARE S </td <td></td> <td>M</td> <td>1 - 30</td> <td>3</td> <td>5678</td> <td>8</td> <td>5678</td> <td>4</td> <td>1 - 30</td> <td>M</td> <td>FP1-L05</td>		M	1 - 30	3	5678	8	5678	4	1 - 30	M	FP1-L05
PTI-L06 M 1 - 25 7 4709 A 32266 8 1 - 15 M PTI-L08 PTI-L09 M 1 - 30 9 5678 B 4709 10 1 - 25 M PT2-L09 PTI-L01 M 1 - 30 11 5678 C 1689 12 3 - 20 H UH-1 STE L0HTING L 1 - 20 15 2360 A 1689 16 H H H H H H H H H H H H H H H H H S SPARE SPARE </td <td>FP1-L02</td> <td>M</td> <td>1 - 15</td> <td>5</td> <td>2300</td> <td>c</td> <td>5678</td> <td>6</td> <td>1 - 30</td> <td>M</td> <td>FP1-L07</td>	FP1-L02	M	1 - 15	5	2300	c	5678	6	1 - 30	M	FP1-L07
FP1-L09 M 1 - 30 9 5678 B 4709 10 1 - 25 M PP2-L09 FP1-L01 M 1 - 30 11 5678 C 1688 12 3 - 20 H UH-1 STE L0FING L 1 - 20 15 2360 B 1689 14 H STE L0FING L 1 - 20 17 1770 C 18 S SPARE STE L0FING L 1 - 20 19 2500 A 200 S SPARE UGHTING L 1 - 20 21 2800 B 1950 22 L L0HTING L0 1 - 20 23 3460 C 2460 24 S SPARE UGHTING L 1 - 20 25 2200 A 228 S SPARE SPARE S 77 8 28 S SPARE SPARE S 33 B		M	1 - 25	7	4709	A	3296	8	1 - 15	M	FP1-L08
FPI-LD1 M 1 5678 C 1689 12 3 - 20 H UH-1 STIE LIGHTING L 1 -20 13 2360 A 1688 14 - - - H - H - H - H - H - H - H H H H H H H H H H H H S SPARE S -20 12 23 3460 C 2460 24 L LIGHTING L 1-20 25 2200 A 28 L LIGHTING L 1-20 25 2200 A 28		M	1 - 30	9	5678	8	4709	10	1 - 25	M	FP2-L09
STIE LIGHTING L 1 20 13 2360 A 1689 14 H STIE LIGHTING L 1 -20 15 2360 B 1689 16 H S SPARE S L Lighting L III 20 23 3460 C 2460 24 S SPARE SPARE<	FP1-L01	M	1 - 30	11	5678	C	1689	12	3 - 20	Н	UH-1
SITE LIGHTING L 1 - 20 15 2360 B 1689 16 H STRE LIGHTING L 1 - 20 17 1770 C 18	SITE LIGHTING		1 - 20	13	2360	A	1689	14		H	
STE LIGHTING L 1 -20 17 1770 C 18	SITE LIGHTING		1 - 20	15	2360	B ·	1689	16		H	
Shill bottmed L 1 - 20 21 2880 B 1950 22 L LIGHTING LIGHTING L 1 - 20 23 3460 C 2460 24 L LIGHTING LIGHTING L 1 - 20 25 2200 A 26 S SPARE SPARE S 27 B 28 S SPARE SPARE S 27 B 28 S SPARE SPARE S 29 C 30 S SPARE SPACE S 33 B 34 S SPARE SPACE S 35 C 36 S SPARE SPACE S 37 A 38 3 - 110 SF PANEL LP18 VA XFMR SPACE S 59 - - SF	SITE LIGHTING	- L I	1 - 20	17	1770	C C		18		S	SPARE
LIGHTING L 1 - 20 21 2880 B 1950 22 L LIGHTING LIGHTING L 1 - 20 23 3460 C 2460 24 L LIGHTING LIGHTING L 1 - 20 23 3460 C 2460 24 L LIGHTING LIGHTING L 1 - 20 25 2200 A 266 S SPARE SPARE S 27 B 28 S SPARE SPARE S 31 A 32 S SPARE SPACE S 33 B 34 S SPACE SPACE S 35 C 36 3 - 10 SF PANEL LP1B VIA XFMR SPACE S 41 C 42 SF SPACE S 41 C 42	SITE LIGHTING		1 - 20	19	2500	A		20		S	SPARE
Damma L 1 20 25 2200 A 26 - - S SPARE SPARE S - - 27 B 28 - - S SPARE SPARE S - - 29 C 30 - - S SPARE SPARE S - - 31 A 32 - - S SPARE SPACE S - - 33 B 34 - - S SPACE SPACE S - - 35 C 36 - - S SPACE SPACE S - - 39 B 40 - - - S SPACE SPACE S - - 39 B 40 - - - SF - SPACE S -		L	1 - 20	21	2880	B	1950	22		L	LIGHTING
Domino C C C C B 28 S SPARE SPARE S 29 C 30 S SPARE SPARE S 31 A 32 S SPARE SPACE S 33 B 34 S SPACE SPACE S 35 C 36 S SPACE SPACE S	LIGHTING	L	1 - 20	23	3460	C	2460	24	callen Civili dillen dillen	L	LIGHTING
SPARE S 27 B 28 S SPARE SPARE S 29 C 30 S SPARE SPACE S 31 A 32 S SPARE SPACE S 33 B 34 S SPACE SPACE S 35 C 36 S SPACE SPACE S 37 A 38 3 - 110 SF PAREL LP1B V/A XFMR SPACE S 39 B 400 SF LOAD KVA CONNECTED SUMMARY A B C SF	LIGHTING		1 - 20	25	2200	A		26	tune num cost com	S	SPARE
SPARE S 29 C 30 S SPARE SPACE S 31 A 32 S SPACE SPACE S 33 B 34 S SPACE SPACE S 35 C 36 S SPACE SPACE S 37 A 38 3 - 110 SF PANEL LP18 VA XFMR SPACE S 39 B 40 SF SPACE S 41 C 42 SF SUMMARY A B C SF SF SF SF	An one of the second	S		27		B		28		S	SPARE
STACL S 33 B 34 S SPACE SPACE S 35 C 36 S SPACE SPACE S 35 C 36 S SPACE SPACE S 37 A 38 3 - 110 SF PANEL LP1B VIA XFMR SPACE S 39 B 40 SF SPACE S 41 C 42 SF LOAD KVA CONNECTED SUMMARY A B C PROVIDE ITEMS MARKED WITH "X" BELOW: SF	ADENT	S		29		C		30		S	SPARE
SPACE S 33 B 34 S SPACE SPACE S 35 C 36 S SPACE SPACE S 37 A 38 3 - 110 SF PANEL LP1B VIA XFMR SPACE S 39 B 40 SF SPACE S 41 C 42 SF LOAD KVA CONNECTED SUMMARY A B C SF SF SF SF SF SF	SPACE	S		31		A	• •	32		S	SPACE
STALL J <thj< th=""> <thj< th=""></thj<></thj<>	SPACE	S		33		B		34		S	SPACE
STACE S 39 B 40 SF SPACE S 41 C 42 SF LOAD KVA CONNECTED SUMMARY A B C 42 SF LIGHTING (L) 7 7 8 PROVIDE ITEMS MARKED WITH "X" BELOW: RECEPTACLE (R) 7 7 8 PROVIDE GFCI BREAKER WHERE MARKED "GF" ABOVE. MECH. HEAT (H) 3 2 2 PROVIDE ARC-FAULT BREAKER WHERE MARKED "AF" ABOVE. MECH. MOTOR (M) 15 25 16 PROVIDE TVSS DEVICE FOR THIS PANEL. COOKING (C) Nater HTR (W) PROVIDE SEPARATE ISOLATED GROUND BUS. PROVIDE FEED THROUGH LUGS APPLIANCE (A) 1 1 PROVIDE DOOR-IN-DOOR CONSTRUCTION PROVIDE DOOR-IN-DOOR CONSTRUCTION	SPACE	S	come anne prise anno	35		C		36		S	SPACE
STALL O S 41 C 42 SF LOAD KVA <connected< td=""> SUMMARY A B C 42 SF SF </connected<>	SPACE	S		37		A		38	3 - 110	SF	PANEL LP18 VIA XFMR
STALL O I I I <thi i<="" th=""> I II I III I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</thi>	SPACE	S		39		B		40		SF	
SUMMARY A B C LIGHTING (L) 7 7 8 RECEPTACLE (R) 7 7 8 MECH. HEAT (H) 3 2 2 MECH. MOTOR (M) 15 25 16 COOKING (C) PROVIDE TOSS DEVICE FOR THIS PANEL. PROVIDE TVSS DEVICE FOR THIS PANEL. PROVIDE FEED THROUGH LUGS APPLIANCE (A) 1 OTHER (O) 33 42 TOTALS 33 42	SPACE	S		41		C		42		SF	
LIGHTING (L)778RECEPTACLE (R)778MECH. HEAT (H)322MECH. MOTOR (M)152516PROVIDE ARCFAULT BREAKER WHERE MARKED "GF" ABOVE.MECH. MOTOR (M)1525MECH. MOTOR (M)1525VATER HTR (W)9APPLIANCE (A)11OTHER (O)3342TOTALS3342APROVIDE JOOR-IN-DOOR CONSTRUCTION	LOAD	KVA	CONNECTED			L.					
LIGHTING (L) 7 7 8 PROVIDE ITEMS MARKED WITH "X" BELOW: RECEPTACLE (R) 7 7 8 PROVIDE GFCI BREAKER WHERE MARKED "GF" ABOVE. MECH. HEAT (H) 3 2 2 PROVIDE ARCFAULT BREAKER WHERE MARKED "AF" ABOVE. MECH. MOTOR (M) 15 25 16 PROVIDE TVSS DEVICE FOR THIS PANEL. VATER HTR (W) APPLIANCE (A) 1 1 1 OTHER (O) 33 42 34 X	SUMMARY	A	B	C		· .		• .			
RECEPTACLE (R) 7 7 8 PROVIDE GFCI BREAKER WHERE MARKED "GF" ABOVE. MECH. HEAT (H) 3 2 2 PROVIDE ARC-FAULT BREAKER WHERE MARKED "AF" ABOVE. MECH. MOTOR (M) 15 25 16 PROVIDE TVSS DEVICE FOR THIS PANEL. COOKING (C) PROVIDE SEPARATE ISOLATED GROUND BUS. PROVIDE FEED THROUGH LUGS WATER HTR (W) 1 1 1 APPLIANCE (A) 1 1 1 OTHER (O) 33 42 34 X	LIGHTING (L)	7	7.	8		PROVIDE IT	EMS MARK	ed with	"X" BELOW:	•	
MECH. HEAT (H)322PROVIDE ARCFAULT BREAKER WHERE MARKED "AF" ABOVE.MECH. MOTOR (M)152516PROVIDE TVSS DEVICE FOR THIS PANEL.COOKING (C)PROVIDE SEPARATE ISOLATED GROUND BUS.WATER HTR (W)PROVIDE FEED THROUGH LUGSAPPLIANCE (A)11OTHER (O)3342TOTALS3342		7	7	8		Lawrend		•			
MECH. MOTOR (M) 15 25 16 PROVIDE TVSS DEVICE FOR THIS PANEL. COOKING (C) PROVIDE SEPARATE ISOLATED GROUND BUS. PROVIDE FEED THROUGH LUGS WATER HTR (W) 1 1 1 APPLIANCE (A) 1 1 1 OTHER (O) 33 42 34 X		3	2	2		PROVID	e arc-fa	ult bre	AKER WHERE MA	rked	"AF" ABOVE.
COOKING (C) PROVIDE SEPARATE ISOLATED GROUND BUS. WATER HTR (W) PROVIDE FEED THROUGH LUGS APPLIANCE (A) 1 OTHER (O) 33 TOTALS 33		15	25	16		home -					· · · · · · · · · · · · · · · · · · ·
APPLIANCE (A) 1 1 OTHER (O) TOTALS 33 42 34 X PROVIDE DOOR-IN-DOOR CONSTRUCTION		l.							• .	S.	
OTHER (0)	WATER HTR (W)					PROVID	e feed th	HROUGH	LUGS		
TOTALS 33 42 34 X PROVIDE DOOR-IN-DOOR CONSTRUCTION	APPLIANCE (A)	. 1	1								
TOTALS 33 42 34 X PROVIDE DOOR-IN-DOOR CONSTRUCTION	OTHER (O)									`	
TOTAL CONN. KVA 109.0 = 130 AMPS EST.DEMAND KVA = 102.2 = 123 AMPS ESTIMATED DEMAND KW = 88.0	g and a many and a state of the	33	42	34	Ĺ	X PROVID	E DOOR-I	N-DOOR			
	TOTAL CONN. KVA	109.0	= 130 AMPS	\$		EST.DEMAN	d kva =	102.2	= 123 /	MPS	ESTIMATED DEMAND KW = 88.0

		P	ANEI		ARD S	CHEI	DULE	<u> </u>	<u>5</u> B	
PANEL: HP2B	VOLTS:	480Y/277		a na	MAIN: 400	AMP, MAIN	LUGS O	INLY		
	PHASE:	3 PHASE 4W			MAIN BUS	: 4(O AMPS	3	÷	LOCATION: ELECTRIC ROOM
n an	A. I. C. : 3	5,000 MINIMUI	V	*****	NEUTRAL B	US:	FULL	-		MOUNTING: SURFACE
SERVED FROM : MAIN DISTRI	BUTION BOARD		••••••••••••••••••••••••••••••••••••••		FULL GROU	ND BUS	\$			
LOAD LOCATION AND/OR		BREAKER	CKT	LOAD	PHASE	LOAD	CKT	BREAKER	Code	LOAD LOCATION AND/OR
DESCRIPTION:	Letter	POLES-TRIP	NO.	VA	A B C	VA	NO.	POLES-TRIP	Letter	DESCRIPTION:
FP1-U06	M	3 - 45	1	9335	A	3712	2	1 - 20	M	FP1-U05
	M		3	9335	В	3296	4	1 15	M :	FP1-U04
1010 1010 1001	M		5	9335	C	2300	6	1 - 15	M	FP1-U08
FP1-U07	· M	1 - 35	7	6704	A	7700	8	1 - 35	M	FP1-U02
FP1-U01	M	3 - 40	9	8338	: B	3296	10	1 - 15	M	FP1U03
waan caana adaga	M		11	8338	C	10249	12	3 - 40	R	RTU-3
Nint your mark	M		13	8338	A	10249	14		R	
SPARE	S		15		B	10249	16		R	
LIGHTING	L	1 - 20	17	2570	C	1680	18	1 - 20	۰ ۲	LIGHTING
LIGHTING	L	1 - 20	19	2040	A	1680	20	1 - 20	L	LIGHTING
LIGHTING	L	1 - 20	21	1275	B	1680	22	1 - 20	L	LIGHTING
SPARE	S		23		C	1680	24	1 - 20	L	LIGHTING
SPARE	S		25		A	1680	26	1 - 20	L	LIGHTING
SPARE	S		27		8		28		S	SPARE
SPARE	S		29		C		30		S.	SPARE
SPACE	S		31		A	2	32		S	SPACE
SPACE	S		- 33 -		B	-	34		S	SPACE
SPACE	S		35		C	·	36		S	SPACE
SPACE	S	NAN: 1946 - 4749-1987	37		A		38	3 - 110	SF	PANEL LP2B VIA XFMR
SPACE	S		39	``````````````````````````````````````	B	*	40	adaga ayaday andah etinah	SF	400 a 1992 -
SPACE	S	·	41		C		42		SF	
LOAD	KVA	CONNECTED	· · · · · ·			· . ·				
SUMMARY	A	В	C							· · · ·
LIGHTING (L)	5	3	7	2	PROVIDE IT	EMS MARH	ED WITH	*X* BELOW:		
RECEPTACLE (R)	30	31	28		And the second se			HERE MARKED '		
MECH. HEAT (H)			۰.,			E ARC-FA	ult Bre/	AKER WHERE MA	RKED	"AF" ABOVE.
MECH. MOTOR (M)	.37	25	21		PROVID	e tvss d	EVICE FO	R' THIS PANEL.		
COOKING (C)					PROVID	e separa	TE ISOLAT	TED GROUND BU	S.	
WATER HITR (W)		2	2	. .	PROVID	e feed ti	HROUGH	LUGS	•	
APPLIANCE (A)									· · ·	
OTHER (O)			,	J			4			
TOTALS	72	61	58]	X PROVID	E DOOR-I	N-DOOR	CONSTRUCTION		
			-	1				4.554 4	une	PETTILIATITA MELANIA UNIT

TOTAL CONN. KVA 191.0 = 229 AMPS

EST.DEMAND KVA = 150.5 = 181 AMPS ESTIMATED DEMAND KW = 12

		•			νλί	וביו	τήλ	RD S	СЦСТ	<u></u>	F	L	JP1	Δ	
		10175			- HIN		and the second secon	MAIN: 225			,			. [7]	
CTRIC ROOM	PANEL: HP1A	VOLTS: PHASE:		480Y/277 3 PHASE 4Y	Y			MAIN BUS	and the second	5 AMP		<u>.</u>		Ī	LOCATION: ELECTRIC ROOM
RFACE				,000 MINIM			_	NEUTRAL BU		FULL		·			MOUNTING: SURFACE
	SERVED FROM : MAIN DISTRI							FULL GROU							
AND/OR	LOAD LOCATION AND/OR	1		BREAKER	4 E	KI L	LOAD	PHASE A B C	LOAD	CKT NO.		BREAKER POLES-TI		· ·	LOAD LOCATION AND/OR DESCRIPTION:
S	DESCRIPTION: FP2-L07		M	$\frac{\text{POLES}-\text{TRIP}}{1-30}$		NO. 1	5678	ADU	5179	2	-+	3 - 2			FP2-L05
Ballary Charger	FP2-L06	en e	M	1 - 25	+	3	4709	B	5179	4				M	NAME AND A DOOD
ent STRIPS	FP2-L08		М	1 - 20		5	3296	C	5179	6				M	
lock Henter	FP2-L04		M	1 - 20		7	3296	A	3296	8		1 - 2			FP2-L03
	FP2-L01		M	1 - 30	ļ	9	5678 1200	BC	3296	10 12	-	1 - 2	0		FP2-L02 SPARE
	LIGHTING LIGHTING			<u>1 - 20</u> <u>1 - 20</u>		11 13	1300	A		14	-				SPARE
	SPARE		S.			15		B	· .	16					SPARE
	SPARE	: •	S			17		C		18				and the second second	SPARE
	SPARE		S			19		A		20	_				SPARE
	SPARE		<u>s</u>			21 23		BC	.,	22 24				·····	SPARE SPARE
	SPARE SPARE		S S			25		A		26				And in case of the local division of the loc	SPARE
	SPARE		S		1	27		B		28					SPARE
	SPARE		S	an a		29		C	,	30				S	SPARE
	SPACE		S	`		31		A		32				S	SPACE
	SPACE SPACE		S S		and the second	<u>33</u> 35		BC	***	34 36		المثلثية (2000) (1995) - 2000 - 2000 - 2000 - 2000 - 2000 - 2000		S S	SPACE SPACE
	SPACE		s s		and the second secon	37		A		38		3 - 1	110	SF	PANEL LP1A VIA XFMR
	SPACE		S		- Incomber	39		8		40				SF	4.00° 4000
	SPACE		S.			41	-	C		42		-		SF	
	LOAD		KVA				-		•				1		•
	SUMMARY		<u>A</u>	<u> B</u>				PROVIDE IT	CUC HADY	CT 11871	u [∶] ≉v	" DEI AW	•		
	LIGHTING (L) RECEPTACLE (R)		1 7	5		 			e GFCI BR					** A	HOVE.
	MECH. HEAT (H)	· ·	1				. *	Lawrence and							"AF" ABOVE.
·	MECH. MOTOR (M)		18	21		10			e tvss de	VICE F	OR 1	this pan	EL		
	COOKING (C)		· .						e separat) BUS		· ·
	WATER HTR (W)	·			1 .			1 1	the forestands when	10011011	1 2 2 24				
· · ·							, <i>•</i>		e feed th	IKUUGH		GS.			
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	APPLIANCE (A)	·	1.			1			t fttu if	IKUUGH		GS	. ·	•	
	APPLIANCE (A) OTHER (O) TOTALS TOTAL CONN. KN		1	<u>26</u> = 85 AMP:	S	1		X PROVID EST.DEMAN	e door-i d kva =	<u>N-DOOI</u> 67.1	R CC	DNSTRUCT = 8	1 AM		estimated demand kw =
	OTHER (O) TOTALS			= 85 AMP	S		_BŪA		E DOOR-I D KVA = CHE AMP, MAII	N-DOOI 67.1 DUL N LUGS	R CO	DNSTRUCT = 8	1 AM		
	OTHER (O) TOTALS TOTAL CONN. KN	VA 70.0 VOLTS: PHASE		= 85 AMP: [480Y/277 3 PHASE 4			_BOA	RD S MAIN: 225 MAIN BUS	E DOOR-I D KVA = CHE AMP, MAII	N-DOOI 67.1 DUL N LUGS 25 AM	R CO E ON IPS	DNSTRUCT = 8	1 AM		LOCATION: ELECTRIC ROOM
	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A	VA 70.0 VOLTS: PHASE A. I. C		= 85 AMP3 [480Y/277			_BŪA	X PROVID EST.DEMAN RD S MAIN: 225 MAIN BUS NEUTRAL E	E DOOR-I D KVA = CHE AMP, MAII S : 2 BUS:	N-DOOI 67.1 DUL N LUGS	R CO E ON IPS	DNSTRUCT = 8	1 AM		
CTRIC ROOM RFACE AND/OR	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BI	: 2. : 3 OARD	= 85 AMP3 [480y/277 3 Phase 4 5,000 Minin	s PAN 4W 4UM			RD S MAIN: 225 MAIN BUS	E DOOR-I D KVA = CHE AMP, MAII S : 2 BUS:	N-DOOI 67.1 DUL N LUGS 25 AM	R CO E ON IPS	DNSTRUCT = 8	<u>1 am</u>	24	LOCATION: ELECTRIC ROOM
	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code	= 85 AMP: [480Y/277 3 PHASE 4	s PAN #W #UM	NEI		RD S MAIN: 225 MAIN BUS NEUTRAL E	E DOOR-I D KVA = CHE AMP, MAII S : 2 BUS: JND BUS	N-DOOI 67.1 DUL N LUGS 25 AN FUIL	R CO E ON IPS	DNSTRUCI = 8	HP R	2A Code	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION:
RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code	= 85 AMP: [480y/277 3 PHASE 4 5,000 MININ BREAKER	s PAN #W #UM	NEI CKT NO.	LOAD VA 9335	X PROVID EST.DEMAN ARD S MAIN: 225 MAIN BUS NEUTRAL E FULL GROU PHASE A B C A	E DOOR-I D KVA = CHE AMP, MAII S : 2 RUS: JND BUS LOAD VA	N-D001 67.1 DUL N LUGS 25 AN FULL CKT NO. 2	R CC	DNSTRUCI = 8 LY BREAKEI POLES 1 -	HP R R 20	2A Code Lette	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE
RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION:	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	: : : 3 OARD Code Letter	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 -	s PAN #W #UM	NEI CKT NO. 1 3	LOAD VA 9335 9335	X PROVIE EST.DEMAN RD S MAIN: 225 MAIN: 225 MAIN: 225 MAIN BUS NEUTRAL E FULL GROU PHASE A B C A B	E DOOR-I D KVA = CHE AMP, MAII S : 2 BUS: JND BUS LOAD VA 6703	N-DOOI 67.1 DUL N LUGS 25 AW FULL CKT NO. 2 4	R CO E ON IPS	DNSTRUCI = 8 LY BREAKEI POLES 1 1	HP R TRIP 20 35	Code Lette S M	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05
RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 	s PAN #W #UM	VEI CKT NO. 1 3 5	LOAD VA 9335 9335 9335	X PROVID EST.DEMAN ARD S MAIN: 225 MAIN BUS NEUTRAL E FULL GROU PHASE A B C A	E DOOR-I D KVA = CHE AMP, MAI S : 2 BUS: JND BUS LOAD VA 6703 2300	N-D00 67.1 DUL N LUGS 25 AV FULL CKT NO. 2 4 6	R CC	DNSTRUCI = 8 LY BREAKEI POLES 1 1 1	1 AM HP R TRIP 20 35 15	2A Code Lette S M S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S
RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U06	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	: : : 3 OARD Code Letter	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 -	s PAN #W #UM	NEI CKT NO. 1 3	LOAD VA 9335 9335	X PROVIE EST.DEMAN RD S MAIN: 225 MAIN: 225 MAIN: 225 MAIN BUS NEUTRAL E FULL GROU PHASE A B C A B	E DOOR-I D KVA = CHE AMP, MAII S : 2 BUS: JND BUS LOAD VA 6703	N-DOOI 67.1 DUL N LUGS 25 AW FULL CKT NO. 2 4	R CC	DNSTRUCI = 8 LY BREAKEI POLES 1 1 1	1 AM HP R TRIP 20 35 15 15	2A Code Lette S M S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05
RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M	= 85 AMP 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30	s PAN AUM	NE CKT NO. 1 3 5 7	LOAD VA 9335 9335 9335 9335 5678	X PROVID EST.DEMAN RD S MAIN: 225 MAIN: 225 MA	E DOOR-I D KVA = CHE AMP, MAII S : 2 BUS: JND BUS LOAD VA 6703 2300 3296 7672 7672	N-DOOI 67.1 DUL N LUGS 25 AW FUIL CKT NO. 2 4 6 8	R CC	DNSTRUCI = 8 LY BREAKEI POLES 1 1 1 1 1	1 AM HP R TRIP 20 35 15 15	Code Lette S M S M	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2-U05 S FP2-U03
RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U02 SPARE SPARE	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M M M	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30 1 - 15 	s PAN AUM	NE CKT NO. 1 3 5 7 9 11 13	LOAD VA 9335 9335 9335 5678 3296	X PROVIE EST.DEMAN RD S MAIN: 225 MAIN: 225 MAIN: 225 MAIN BUS NEUTRAL E FULL GROU PHASE A B C A B C A A	E DOOR-I D KVA = CHE AMP, MAII S : 2 BUS: JND BUS LOAD VA 6703 2300 3296 7672	N-D001 67.1 DUL N LUGS 25 AW FUIL CKT NO. 2 4 6 8 10 12 14	R CC	DNSTRUCI = 8 LY BREAKEI POLES 1 1 1 1 3 	1 AM HP R TRIP 20 35 15 15 35 	Code Lette S M M M M	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S FP2U03 FP2U01
RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U06 FP2-U02 SPARE SPARE LIGHTING	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M M M S	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30 1 - 15 1 - 20	s PAN AUM	NE CKT NO. 1 3 5 7 9 11 13 15	LOAD VA 9335 9335 9335 9335 5678 3296 2320	X PROVID EST.DEMAN RD S MAIN: 225 MAIN BUS NEUTRAL E FULL GROU PHASE A B C A B C A B C A B C A B	E DOOR-I D KVA = CHE AMP, MAII S : 2 SUS: JND BUS LOAD VA 6703 2300 3296 7672 7672 7672	N-D001 67.1 DUL N LUGS 25 AW FULL CKT NO. 2 4 6 8 10 12 14 16	R CC	DNSTRUCI = 8 LY BREAKEI POLES 1 1 1 1 1 1 1 1	HP HP 20 35 15 15 35 	Code Lette S M S M M M S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2-U05 S FP2-U03 FP2-U01 SPARE
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RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U07 FP2-U02 SPARE SPARE LIGHTING LIGHTING LIGHTING	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M M M S	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30 1 - 15 1 - 20 1 - 20 1 - 20	s PAN AUM	NE CKT NO. 1 3 5 7 9 11 13 15 17 19	LOAD VA 9335 9335 9335 9335 5678 3296 2320	X PROVID EST.DEMAN RD S MAIN: 225 MAIN BUS NEUTRAL E FULL GROU PHASE A B C A B C A B C A B C A B	E DOOR-I D KVA = CHE AMP, MAII S : 2 SUS: JND BUS LOAD VA 6703 2300 3296 7672 7672 7672	N-D001 67.1 DUL N LUGS 25 AW FULL CKT NO. 2 4 6 8 10 12 14 16	R CC	DNSTRUCI = 8 LY BREAKEI POLES 1 1 1 1 1 1 1 1	1 AM HP R TRIP 20 35 15 15 35 	Code Lette S M S M M M S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2-U05 S FP2-U03 FP2-U01 SPARE
RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DIST LOAD LOCATION AND/OR DESCRIPTION: FP2U07 FP2U06 FP2U02 SPARE SPARE LIGHTING LIGHTING	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M M M S	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 	s PAN AUM	NE CKT NO. 1 3 5 7 9 11 13 15 17	LOAD VA 9335 9335 9335 9335 5678 3296 2320 1160 2000	X PROVIE EST.DEMAN RD S MAIN: 225 MAIN: 225 MAIN: 225 MAIN BUS NEUTRAL E FULL GROU PHASE A B C A B C A B C A B C A A	E DOOR-I D KVA = CHE AMP, MAII S : 2 BUS: JND BUS LOAD VA 6703 2300 3296 7672 7672 7672	N-D00 67.1 DUL N LUGS 25 AM FUIL CKT NO. 2 4 6 8 10 12 14 16 18 20	R CC	DNSTRUCI = 8 LY BREAKEI POLES 1 1 1 1 1 1 1 1	1 AM HP R TRIP 20 35 15 15 35 15 15 35 	Code Lette S M S M M M M S S S S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S FP2U03 FP2U01 SPARE SPARE SPARE SPARE
RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DIST LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U07 FP2-U06 FP2-U02 SPARE LIGHTING LIGHTING LIGHTING LIGHTING	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M M M S	= 85 AMPS 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30 1 - 15 1 - 20 1 - 20 1 - 20 1 - 20 1 - 20	s PAN AUM	NE CKT NO. 1 3 5 7 9 11 13 15 17 19 21	LOAD VA 9335 9335 9335 5678 3296 2320 1160 2000 2000	X PROVID EST.DEMAN RD S MAIN: 225 MAIN: 225 MAIN: 225 MAIN: 225 MAIN BUS NEUTRAL I FULL GROU PHASE A B C A B C A B C A B C A B C A A B C A	E DOOR-I D KVA = CHE AMP, MAII S : 2 BUS: JND BUS LOAD VA 6703 2300 3296 7672 7672 7672	N-D001 67.1 DUL N LUGS 25 AW FUIL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26	R CC	DNSTRUCI = 8 LY BREAKEI POLES 1 1 1 1 3 -	1 AM	Code Lette S M M M M S S S S S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S FP2U03 FP2U01 SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE
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RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U06 FP2-U02 SPARE SPARE LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M M M S S S L L L L L L L L L L L S S S S	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 		VE	LOAD VA 9335 9335 9335 5678 3296 2320 1160 2000 2000 2500 2000	X PROVID EST.DEMAN RD S MAIN: 225 MAIN BUS NEUTRAL E FULL GROU PHASE A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C C A B C C A B C C A C	E DOOR-I D KVA = CHE AMP, MAI 3 : 2 BUS: JND BUS LOAD VA 6703 2300 3296 7672 7672 7672 7672	N-D00 67.1 DUL N LUGS 25 AV FULL CKT NO. 2 4 6 8 10 12 14 6 8 10 12 14 16 18 20 22 24 26 28 30	R CC	DNSTRUCI = 8	1 AM	Code Lette S M S S S S S S S S S S S S S S S S S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S FP2U03 FP2U01 SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE
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RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U06 FP2-U02 SPARE SPARE LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2: : 3 OARD Code Letter M M M M S S L L L L L L L L L S S S S S	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30 1 - 15 1 - 20 1 - 20 	S PAN AUM 	NE CKT NO. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	LOAD VA 9335 9335 9335 5678 3296 2320 1160 2000 2000 2500 2000	X PROVIE EST.DEMAN RD S MAIN: 225 MAIN: 225 MA	E DOOR-I D KVA = CHE AMP, MAII S : 2 3US: JND BUS LOAD VA 6703 2300 3296 7672 7672 7672 7672	N-D00I 67.1 DUL N LUGS 25 AW FUIL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	R CC	DNSTRUCI = 8	1 AM	2A Code Lette S M M M M S S S S S S S S S S S S S S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S FP2U03 FP2U01 SPARE
RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U06 FP2-U07 SPARE SPARE LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M M S S L L L L L L L L L S S S S S	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30 1 - 15 1 - 20 1 - 20 		VE	LOAD VA 9335 9335 9335 5678 3296 2320 1160 2000 2000 2500 2000	X PROVIE EST.DEMAN RD S MAIN: 225 MAIN: 225 MAIN BUS NEUTRAL E FULL GROU PHASE A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C C A B C C A	E DOOR-I D KVA = CHE AMP, MAII S : 2 3US: JND BUS LOAD VA 6703 2300 3296 7672 7672 7672 7672	N-D00 67.1 DUL N LUGS 25 AW FUIL CKT NO. 2 4 6 8 10 12 14 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38	R CC	DNSTRUCI = 8	1 AM	2A Code Lette S M S S S S S S S S S S S S S S S S S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S FP2U03 FP2U01 SPARE
RFACE	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U06 FP2-U02 SPARE LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING SPARE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2: : 3 OARD Code Letter M M M M S S L L L L L L L L L S S S S S	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30 1 - 15 1 - 20 1 - 20	S PAN 4W 4UM 	NE CKT NO. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	LOAD VA 9335 9335 9335 5678 3296 2320 1160 2000 2000 2500 2000	X PROVIE EST.DEMAN RD S MAIN: 225 MAIN: 225 MA	E DOOR-I D KVA = CHE AMP, MAII S : 2 3US: JND BUS LOAD VA 6703 2300 3296 7672 7672 7672 7672	N-D00I 67.1 DUL N LUGS 25 AW FUIL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40	R CC	DNSTRUCI = 8	1 AM	2A Code Lette S M M M M S S S S S S S S S S S S S S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S FP2U03 FP2U01 SPARE
RFACE AND/OR	OTHER (0) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U02 SPARE SPARE LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE LOAD SUMMARY	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M M M S S L L L L L L L L L S S S S	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30 1 - 15 1 - 20 1 - 20	S PAN #W AUM 	VE	LOAD VA 9335 9335 9335 5678 3296 2320 1160 2000 2000 2500 2000	X PROVIE EST.DEMAN RD S MAIN: 225 MAIN: 225 MAIN: 225 MAIN: 225 MAIN BUS NEUTRAL E FULL GROU PHASE A B C A B C A B C A B C A B C A B C A B C A B C A B C C A B C C A B C C A B C C A B C C A B C C C A B C C C C	E DOOR-I D KVA = CHE AMP, MAII S : 2 RUS: IND BUS LOAD VA 6703 2300 3296 7672 7672 7672 7672	N-D00 67.1 DUL N LUGS 25 AW FULL CKT NO. 2 4 6 8 10 12 4 6 8 10 12 14 16 18 20 22 4 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42	R CC	DNSTRUCI = 8	1 AM	2A Code Lette S M M M M S S S S S S S S S S S S S S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S FP2U03 FP2U01 SPARE
RFACE	OTHER (0) TOTALS TOTAL CONN. KX PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U06 FP2-U02 SPARE SPARE LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING SPARE SPACE SP	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M M M S S S S S S S S S S S S S S	= 85 AMPS 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30 1 - 15 1 - 20 1 - 20 	S PAN AUM 	NE CKT NO. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 C 4	LOAD VA 9335 9335 9335 5678 3296 2320 1160 2000 2000 2500 2000	X PROVIE EST.DEMAN RDS MAIN: 225 MAIN: 225 MAIN: 225 MAIN: 225 MAIN: BUS NEUTRAL E FULL GROU PHASE A B C A B C A B C A B C A B C A B C A B C A B C C C A B C C A B C C A B C C A B C C A B C C A B C C C A B C C C A B C C C A B C C C A B C C C A B C C C A B C C C C	E DOOR-I D KVA = CHE AMP, MAII S : 2 RUS: IND BUS LOAD VA 6703 2300 3296 7672 7672 7672 7672	N-D000 67.1 DUL N LUGS 25 AM FULL CKT NO. 2 4 6 8 10 12 4 6 8 10 12 14 6 8 10 12 14 16 18 20 22 24 26 28 30 22 24 26 28 30 32 34 36 38 40 42		DNSTRUCI = 8 LY BREAKEI POLES 1 1 1 1 1 1 1 1	1 AM	2A Code Lette S M M M M S S S S S S S S S S S S S S	Location: Electric room Mounting: Surface Load Location And/or Description: Spare FP2U05 S FP2U03 FP2U01 Spare Sp
RFACE	OTHER (0) TOTALS TOTAL CONN. KX PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U06 FP2-U07 FP2-U02 SPARE LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING SPARE SPACE	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M M M S S L L L L L L L L L S S S S	= 85 AMP: 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30 1 - 15 1 - 20 1 - 20	S PAN AUM 	VE	LOAD VA 9335 9335 9335 5678 3296 2320 1160 2000 2000 2500 2000	X PROVID EST.DEMAN RD S MAIN: 225 MAIN: 225 MAIN: 225 MAIN BUS NEUTRAL I FULL GROU PHASE A B C A B C A B C A B C A B C A B C A B C A B C A B C C C A B C C A B C C A B C C A B C C A B C C C A B C C A B C C C A B C C A B C C C A B C C C A B C C C A B C C C C	E DOOR-I D KVA = CHE AMP, MAII S : 2 JND BUS LOAD VA 6703 2300 3296 7672 7672 7672 7672	N-D00I 67.1 ULL VLUGS 25 AW FULL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 22 24 26 28 30 32 34 36 38 40 42 KED WIR REAKER		DNSTRUCI = 8 LY BREAKEI POLES 1 1 1 1 1 1 3 -	HP R R R R R R R R R R R R R	2A Code Lette S M M M M S S S S S S S S S S S S S S	Location: Electric room Mounting: Surface Load Location And/or Description: Spare FP2U05 S FP2U03 FP2U01 Spare Sp
RFACE	OTHER (O) TOTALS TOTAL CONN. KN TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DIST LOAD LOCATION AND/OR DESCRIPTION: FP2-U07 FP2-U06 FP2-U02 SPARE SPARE LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING SPARE SPACE S	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M M M S S S S S S S S S S S S S S	= 85 AMPS 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30 1 - 15 1 - 20 1 - 20 	S PAN AUM AUM 	NE CKT NO. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 C 4	LOAD VA 9335 9335 9335 5678 3296 2320 1160 2000 2000 2500 2000	X PROVID EST.DEMAN RDS MAIN: 225 MAIN: 225 MAI	E DOOR-I D KVA = CHE AMP, MAII S : 2 JND BUS LOAD VA 6703 2300 3296 7672 7672 7672 7672 7672 7672	N-DOOI 67.1 0 0 0 0 0 0 0 0 0 0 0 0 0		DNSTRUCI = 8 LY BREAKEI POLES 1 1 1 1 3 	1 AMI HP HP R R TRIP 20 35 15 15 35 15 15 15 15 110 HO HO <t< td=""><td>2A Code Lette S M M M M S S S S S S S S S S S S S S</td><td>LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S FP2U03 FP2U01 SPARE S</td></t<>	2A Code Lette S M M M M S S S S S S S S S S S S S S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S FP2U03 FP2U01 SPARE S
RFACE AND/OR	OTHER (O) TOTALS TOTAL CONN. KN PANEL: HP2A SERVED FROM : MAIN DISTR LOAD LOCATION AND/OR DESCRIPTION: FP2U07 FP2U02 SPARE SPARE SPARE LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING SPARE SPACE	VA 70.0 VOLTS: PHASE A. I. C RIBUTION BO	2. : 3 OARD Code Letter M M M M S S L L L L L L L L L L S S S S	= 85 AMPS 480Y/277 3 PHASE 4 5,000 MININ BREAKER POLES-TRI 3 - 45 1 - 30 1 - 15 1 - 20 1 - 20	S PAN AUM AUM 	VE CKT NO. 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 C 4 17	LOAD VA 9335 9335 9335 5678 3296 2320 1160 2000 2000 2500 2000	X PROVIE EST.DEMAN RDS MAIN: 225 MAIN: 225 MAIN: 225 MAIN: 225 MAIN: BUS NEUTRAL E FULL GROU PHASE A B C A B C A B C A B C A B C A B C A B C A B C C C A B C C A B C C A B C C C A B C C A B C C C A B C C A B C C C A B C C A B C C A B C C C A B C C A B C C C A B C C A B C C C A B C C C A B C C C A B C C C A B C C C C	E DOOR-I D KVA = CHE AMP, MAII S : 2 BUS: JND BUS LOAD VA 6703 2300 3296 7672 7672 7672 7672 7672	N-D000 67.1 0 0 0 0 0 0 0 0 0 0 0 0 0	R CC	DNSTRUCI = 8 LY BREAKEI POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 	1 AMI HP HP R R TRIP 20 35 15 15 35 15 15 15 15 110 HO HO <t< td=""><td>2A Code Lette S M M M M S S S S S S S S S S S S S S</td><td>LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S FP2U03 FP2U01 SPARE S</td></t<>	2A Code Lette S M M M M S S S S S S S S S S S S S S	LOCATION: ELECTRIC ROOM MOUNTING: SURFACE LOAD LOCATION AND/OR DESCRIPTION: SPARE FP2U05 S FP2U03 FP2U01 SPARE S

3

		Pr	ANEI	BOA	ARD S	CHEI	JULE		21A	
PANEL: LP1A	VOLTS:	208Y/120		an a	MAIN: 225	AMP. 3 PO	OLE, MAIN	BREAKER		
		3 PHASE 4W			MAIN BUS	التوابا لمتبالعا ستخط التخط الجز أوجر المدجر سيها	5 AMPS	والباط والمتعادية والمعارية بمناكر المتحد والمتحد والمتحد والمتحد والمتحد والمتحد والمتحد والمتحد وال	/	LOCATION: ELECTRIC ROOM
an a		2,000 MINIMUN			NEUTRAL BI		FULL			MOUNTING: SURFACE
SERVED FROM : PANEL HP1A \	and the state of the		·		FULL GROU	ويجاربه ويحارب والمتكري والمتكر والمتكر والمتكر والمتكر		*		
LOAD LOCATION AND/OR		BREAKER	СКТ	LOAD	PHASE	LOAD	CKT	BREAKER	Code	LOAD LOCATION AND/OR
DESCRIPTION:	1. 1	POLES-TRIP	NO.	VA	ABC	VA	NO.	POLES-TRIP	Lette	DESCRIPTION:
EF1-2	M	1 - 20	1	180	A	750	2	2 - 20	M	EWH3
EWH-2	I M	2 - 20	3	1500	B	750	4		M	·
	M		5	1500	C	720	6	1 - 20	R	RECEPT - OFFICE
RECEPT - CONFERENCE	R	1 - 20	7	900	A	1080	8	1 - 20	R	RECEPT - OFFICE
RECEPT - CONFERENCE	R	$\frac{1}{1-20}$	g	720	B	1080	10	1 - 20	R	RECEPT - CAFETERIA
PROJECTOR SCREEN	R	1 - 20	11	400	C	864	12	1 - 20	R	GARBAGE DISPOSAL
REFRIG - CAFETERIA	R	1 - 20	13	1000	A	180	14	1 - 20	R	RECEPT - COUNTER
REFRIG - CAFETERIA	R	1 - 20	15	1000	B	360	16	1 - 20	R	RECEPT - COUNTER
VENDING	R	1 - 20	17	800	C C	360	18	1 - 20	R	RECEPT - COUNTER
VENDING	R	1 - 20	19	800	A	720	20	1 - 20	R	RECEPT - STORAGE
VENDING	R	1 - 20	21	800	B	250	22	1 - 20	R	AIR COMPRESSOR
VENDING	R	1 - 20	23	800	C	900	24	1 - 20	R	RECEPT - CORRIDOR
RECEPT - FUTURE	R	1 - 20	25	1080	A	900	26	1 - 20	R	RECEPT - FUTURE
RECEPT - IT	R	1 - 20	27	720	B		28	·····	S	SPARE
DISHWASHER	A	1 - 20	29	700	C	n <u>e an</u> téris contra menan é dan	30		S	SPARE
ICEMAKER	À	1 - 20	31	1200	A		32		s	SPACE
SPACE	S		33		B		34		S	SPACE
SPACE	S		35		C	s	36	and a second	S	SPACE
SPACE	S		37		A		38	3 - 30	0	SURGE SUPPRESSOR
SPACE	S		39		8	dan tela da Musia da Capita na.	40	and the second s	0	calput district Sector
SPACE	S	·	41		C		42		0	
LOAD		CONNECTED					verflaminsarinannminilien			
SUMMARY	A		C	1.		$X_{ij} = \sum_{i=1}^{n} (i - 1)^{ij}$			•	
LIGHTING (L)				1	PROVIDE IT	ems mark	ED WITH	"X" BELOW:	• •	
RECEPTACLE (R)	7	5	5		PROVID	E GFCI BF	REAKER V	WHERE MARKED	"GF" A	BOVE.
MECH. HEAT (H)					PROVID	e arc-fa	ULT BRE	AKER WHERE M	ARKED	"AF" ABOVE.
MECH. MOTOR (M)	1	2	2		X PROVID	e tvss di	EVICE FO	R THIS PANEL.	•	
COOKING (C)			· · ·		ferminand .			TED GROUND BL	JS.	· · · ·
WATER HTR (W)					-	e feed ti		·		, ,
APPLIANCE (A)			1		frances of the second s	-		RANCE LABEL		•
OTHER (O)	1				and a second sec			MAIN BREAKER	•	
TOTALS	9	7	8	1	jeneretaan)			CONSTRUCTION		

	170.	208Y/120		HINEL	-DUA	MAIN: 225				TW	- (SECTION	
		-	•		· .	MAIN BUS		and the second se	ويستبق والمرابع والمتعال والمتحاط والمتعار والمتعار والمعار	<u> </u>	LOCATION: ELECTRIC ROOM	
الأجذاء أحصيهم ومستجربا والمستجمع والمشارعين المشاري والمشارك والمستحد والمستجمع والمستحد		3 PHASE									MOUNTING: SURFACE	
a de la constante de la constan La constante de la constante de	I. C. : 2	2,000 MIN	MUM	متعلقية الماري بينان ساحل ميريس		FULL GROU	فتأرك المطرور والتوقع فكفلت تعرز فاسترجنهم	MOUTTING. JOIN AUL				
SERVED FROM : PANEL LP1A SECT		DOCLUTO	- T ·	CKT	LOAD	PHASE	LOAD	СКТ	BREAKER	Code	LOAD LOCATION AND/OR	
OAD LOCATION AND/OR	1 1	BREAKER		NO.	VA	A B C	VA	NO.	POLES-TRIP		DESCRIPTION:	
DESCRIPTION:		POLES-TR		43	V/A		<u> </u>	44	1 - 20	S	SPARE	
SPARE	S	1 - 20	_	45	<u></u>	AB	-	46		s	SPARE	
SPARE				47		C C		48		S	SPARE	
SPARE	<u> </u>			49				50		S	SPARE	
SPARE	S					A B		52		S	SPARE.	
SPARE	S			51		<u> </u>		54		S	SPARE	
SPARE	<u> </u>			<u>53</u> 55		C C		56		S S	SPARE	
SPARE	<u>S</u>					A		58		S	SPARE	
SPARE	S			57		B		60		S	SPARE	
SPARE	· S			59		C C		62		S	SPARE	
SPARE	<u> </u>	اللحة محمد - محمدة اللحة المراجع - محمدة		61		AB		64		S	SPARE	
SPARE	S			63				66		s	SPARE	and the second statement
SPARE	<u> </u>			65		C C	<u> </u>	68		s	SPARE	
SPARE	S			67		A		70		S S	SPARE	
SPARE	S			69		B	<u> </u>	72		S	SPARE	-
SPARE	S			71		C					SPACE	kan andra dan se kalan
SPACE	<u> </u>			73		A	<u> </u>	74		S	SPACE	
SPACE	S			75	· · · · · · · · · · · · · · · · · · ·	B	Į	76		S	SPACE	
SPACE	S			77		C C	1	78		S	SPACE	-
SPACE	<u>S</u> .	***** **** ***		79		A	+	80		<u>s</u>	SPACE	,
SPACE	S			81		B	<u> </u>	82			a for a second	2_2_2_2
SPACE	S			83		C		84		S	SPACE	
LOAD		CONNEC	TED			а	- - -	. ,	• . •			•
SUMMARY	<u> </u>	<u> </u>		C .					NOT OTHER			
LIGHTING (L)					-	and an international states			"X" BELOW:	****	- · · ·	
RECEPTACLE (R)			ľ			auge states and			WHERE MARKED			
MECH. HEAT (H)						Januara			AKER WHERE M	RKED	"AF" ABOVE.	
MECH. MOTOR (M)						[managed]			r this panel.			
COOKING (C)				· .	<u> </u>	[common dial			TED GROUND BL	IS.		
WATER HTR (W)			ľ	· ,	1		de feed t	HROUGH	LUGS	• •	•	
APPLIANCE (A)		- -	÷.	· · · ·							·	
OTHER (O)]	<u> </u>	•			,	•	
TOTALS (THIS SECTION ONLY)	. 1		1.		1 .	I Y I DROVI	YF DOOR-	IN-DOOR	CONSTRUCTION		· · ·	

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<u>, , , , , , , , , , , , , , , , , , , </u>	-	P	ANE	_BOA	RD S	CHEI	JUL	Ë – LP	'2A	
PANEL: LP2A	VOLTS:	208Y/120			MAIN: 225	AMP, 3 PC	DLE, MA	IN BREAKER		
	PHASE:	3 PHASE 4M	1		MAIN BUS	: 22	5 AMP	S		LOCATION: ELECTRIC ROOM
		2,000 MINIMU			NEUTRAL B	US:	FULL			MOUNTING: SURFACE
SERVED FROM : PANEL HP2A				FULL GROUND BUS						· · ·
LOAD LOCATION AND/OR	A REAL PROPERTY OF A REA	BREAKER	CKT	LOAD	PHASE	LOAD	CKT	BREAKER	Code	LOAD LOCATION AND/OR
DESCRIPTION:	Lette	POLES-TRIP	NO.	VA	ABC	VA ·	NO.	POLES-TRIP	Letter	DESCRIPTION:
RECEPT - ROOF	R	1 - 20	1	360	Α	672	2	1 - 20	M	EF-2
SYSTEMS FURNITURE	R	1 - 20	3	1000	8	180	4	1 - 20	M	EF2-2
SYSTEMS FURNITURE	R	1 - 20	5	1000	, C .	1000	6	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	7	1000	A	1000	8	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	9	1000	В	1000	10	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	11	1000	C	1000	12	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	13	1000	A	1000	14	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	15	1000	В	1000	16	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	17	1000	C	1000	18	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	19	1000	A	1000	20	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	21	1000	B	1000	22	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	23	1000	C	1000	24	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	25	1000	A	1000	26	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS. FURNITURE	R	1 - 20	27	1000	B	1000	28	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	29	1000	C	1000	30	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	31	1000	A	1000	32	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	33	1000	B	1000	- 34	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	35	1000	C	1000	36	1 - 20	R	SYSTEMS FURNITURE
SYSTEMS FURNITURE	R	1 - 20	37	1000	A		38	3 - 30	0	SURGE SUPPRESSOR
SYSTEMS FURNITURE	R	1 - 20	39	1000	B		40		0	
SYSTEMS FURNITURE	R	1 - 20	41	1000	C		42		0	
LOAD	KVA	CONNECTED) ·	· .				· · · · · · · · · · · · · · · · · · ·		•
SUMMARY	A	B	C							
LIGHTING (L)					PROVIDE IT	ens mark	ED WITH	Y" BELOW:		
RECEPTACLE (R)	17	16	17		PROVID	e gfci br	EAKER	WHERE MARKED	"GF" A	BOVE.
MECH. HEAT (H)			-	e e e e	PROVID	E ARC-FA	ult bre	CAKER WHERE MA	RKED	"AF" ABOVE.
MECH. MOTOR (M)	1				X PROVID	e tvss de	NCE FO	DR THIS PANEL.		1
COOKING (C)					PROVID	e separat	e isol/	TED GROUND BU	IS.	
WATER HTR (W)					X PROVID	e feed th	IROUGH	LUGS	· 、	
APPLIANCE (A)				,	PROVID	e ul serv	ACE EN	TRANCE LABEL		· · ·
OTHER (O)	l				PROVID	e shunt-	TRIP ON	i main breaker.		
TOTALS	18	16	17		X PROVID	E DOOR-II	N-DOOR	CONSTRUCTION		
TOTAL CONN. KVA	51.0	= 140 AMP	S		EST.DEMAN	d KVA =	30.7	= 85 AN	APS	ESTIMATED DEMAND $KW = 27.5$

			An an a the second		an a				الأنجب فترتجيه	
		PA	NELB	OARD	SCHED	ULE	LI	P2A – (S	SEC	TION 2)
PANEL: LP2A VOLTS	2.	208Y/120	Can particular dentils Constitutes		MAIN: 225 /	والمتحد المتحد والمحادث				
PHASE		3 PHASE 4W	· · · ·		MAIN BUS	C. ALCONOMIC CONTRACTOR	LOCATION: ELECTRIC ROOM			
A. I.		2,000 MINIMU	M		NEUTRAL BU		FULL		بماسين الفاقية فتشتر بقائل	MOUNTING: SURFACE
SERVED FROM : PANEL LP2A SECT				······	FULL GROUM	The second s				
LOAD LOCATION AND/OR		BREAKER	CKT	LOAD	PHASE	LOAD	CKT	BREAKER	Code	LOAD LOCATION AND/OR
DESCRIPTION:	1	POLES-TRIP	NO.	VA	ABC	VA .	NO.	COMPANY OF THE OWNER	Letter	DESCRIPTION:
SYSTEMS FURNITURE	R	1 - 20	43	1000	A	1080	44	1 - 20	R	RECEPT - OFFICE
SYSTEMS FURNITURE	R	1 - 20	45	1000	В	1080	46	1 - 20		RECEPT - OFFICE
RECEPT - CORRIDOR	R	1 - 20	47	900	C	540	48	1 - 20	R	RECEPT - OFFICE
RECEPT - COLUMN	R	1 - 20	49	180	A	360	50	1 - 20	R	RECEPT - BATHROOM
RECEPT - WORK AREA	R	1 - 20	51	180	B		52	1 - 20	R	RECEPT - WATER COOLER
RECEPT - WORK AREA	R	1 - 20	53	180	C	540	54	1 - 20	R	RECEPT - CORRIDOR
RECEPT - IT AREA	R	1 - 20	55	360	A	360	56	1 - 20	R	RECEPT - IT AREA
RECEPT - IT AREA	R	1 - 20	57	360	B	360	58	1 - 20	R	RECEPT - IT AREA
RECEPT - IT AREA	R	1 - 20	59	360	C	360	60	1 - 20	R	RECEPT - IT AREA
RECEPT - IT AREA	R	1 - 20	61	360	٨	360	62	1 - 20	R	RECEPT - IT AREA
RECEPT - IT AREA	R	1 - 20	63	360	В		64		the second state of the se	SPARE
RECEPTACLE	R	1 - 20	65	1080	C		66		S	SPARE
RECEPTACLE	R	-1-20-	67	1080	A		68		_	SPARE
SYSTEMS FURNITURE	R	1 - 20	69	1080	B		70		S	SPARE
SYSTEMS FURNITURE	R	1 - 20	71	1080 <	C		72	and also a state of the state	S	SPARE
SYSTEMS FURNITURE 6	R	1 - 20	73	1080 <	A		74	······································		SPACE
SYSTEMS FURNITURE	R	1 - 20	75	1080	8		76		S	SPACE
SPACE	₹ S				C		78		S	SPACE
SPACE	S		79		A		80	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	S	SPACE
SPACE	S		81		B		82		S	SPACE
SPACE	S		83		C		84	in an	S	SPACE
LOAD	KVA	CONNECTED		- * · ·					•	
SUMMARY	A	В	C	1 .	•	·· · .	a gita			
LIGHTING (L)	1.				PROVIDE ITE	MS MARK	(ED WITH	i "X" Below:		•
RECEPTACLE (R)	6	6	5		processory			WHERE MARKED	"GF" /	ABOVE.
MECH. HEAT (H)				· .	Semanana di Carto di Carto			EAKER WHERE MA		
MECH. MOTOR (M)				· ·				OR THIS PANEL		
COOKING (C)			•		juna and a second			ATED GROUND BL	IS.	
WATER HTR (W)			•		X PROVIDE		•			
APPLIANCE (A)	. *		· ·				10 m m m m m m m m m m m m m m m m m m m			
OTHER (O)						· · · · ·				
TOTALS (THIS SECTION ONLY)	6	6	5	1	X PROVIDE	DOOR-I	N-DOOR	CONSTRUCTION	·	
TOTAL CONN. KVA 17.0		= 49 AMPS	•		EST.DEMAND				PS	ESTIMATED DEMAND $KW = 12$

PERKINS +WILL 2100 M Street, NW Suite 800 Washington, DC 20037 t: 202.737.1020 f: 202.223.1570 www.perkinswill.com 11520 Nuckols Road Suite 110 Glen Allen, VA 23059-5507 Telephone 804.474.7800 Facsimile 804.474.6822 AIRBUS Engineering Center 1801 S. Broad St., Mobile, AL 366 5 CLIENT Mobile Airport Authority 1891 Ninth Street Mobile, Alabama 36615 Brookley Airport Complex T: 251.438.7334 TENANT Airbus North America Holdings, Inc. 198 Van Buren Street Herndon, VA 20170–5335 T: 703.834.3486 Revisions ISSUED FOR CLIENT REVIEW 01.11.06 01.23.06 DESIGN DEVELOPMENT 03.20.06 PERMIT SET 03.27.06 FOR CONSTRUCTION Bulletin No. 6 07.25.06 ISSUE DATE Sheet Information 03/27/2006 Date 25069 Job Number Drawn Checked Title. ELECTRICAL SCHEDULES RECEIVED AUG 0 1 2006 HOAR CONSTRUCTION FIELD OF BREECE t NONE E-902 JLC Copyright © 2005 Perkins+Will

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an an ann an an an ann an ann an ann an		P	ANE		ARDS	CHEI	JUL	E – LP	°1B	
PANEL: LP1B	VOLTS:	208Y/120			MAIN: 225	AMP, 3 PO	DLE, MA	IN BREAKER		
у у ја ундинати одна с ниг	PHASE:	3 PHASE 4	1		MAIN BUS	and the state of the second	5 AMF	ومحمد المحمد والمحمد		LOCATION: ELEC
		22,000 MINIMU			NEUTRAL B	US:	FULL		, erecentingen er	MOUNTING: SUF
SERVED FROM : PANEL HP18	and the second s		a han di saka d		FULL GROU	IND BUS				
LOAD LOCATION AND/OR		BREAKER	СКТ	LOAD	PHASE	LOAD	CKT	BREAKER	Code	LOAD LOCATION
DESCRIPTION:	Lette	POLES-TRIP	NO.	VA	ABC	VA	NO.	POLESTRIP	Lette	DESCRIPTION:
EF1-1	M	1 - 20	1	180	A	3000	2	2 - 40	M	EWH-1
VAV CONTROL	M	1 - 20	3	500	B	3000	4	~~~~~	M	
RECEPT - OFFICE	R	1 - 20	5	720	C	864	6	1 - 20	M	DOOR OPENER
RECEPT - OFFICE	R	1 - 20	7	720	A	720	8	1 - 20	R	RECEPT - LOAD
RECEPT - OFFICE	R	1 - 20	9	720	B	720	10	1 - 20	R	RECEPT - LOAD
RECEPT - CORRIDOR	R	1 - 20	11	900	C.	720	12	1 - 20	R	RECEPT - STAG
RECEPT - CORRIDOR	R	1 - 20	13	720	A	800	14	1 - 20	R	RECEPT - WATE
RECEPT - BATHROOM	R	1 - 20	15	360	В	360	16	1 - 20	R	RECEPT - PANT
RECEPT - ELEV MACH ROOM	R	1 - 20	17	180	C	1000	18	1 - 20	R	REFRIG - PANTE
RECEPT - ELEV PIT	R	1 - 20	19	180	A	864	20	1 - 20	R	GARBAGE DISPOS
SUMP PUMP		1 - 20	21	864	B	180	22	1 - 20	R	RECEPT - LOBE
RECEPT - WORK AREA	R	1 - 20	23	180	C C	720	24	1 - 20	R	RECEPT - LOBE
RECEPT - WORK AREA	R	1 - 20	25	180	A	720	26	1 - 20	R	RECEPT - OFFIC
RECEPT - CONFERENCE	R	1 - 20	27	720	В	720	28	1 - 20	R	RECEPT - OFFI
RECEPT - CONFERENCE	R	1 - 20	29	900	C	1080	30	1 - 20	R	RECEPT - MULT
PROJECTOR SCREEN	R	1 - 20	31	400	A	720	32	1 - 20	R	RECEPT - MULI
PROJECTOR	R	1 - 20	33	600	8	720	34	1 - 20	R	RECEPT - MULT
PROJECTOR	R	1 - 20	35	600	C	1080	36	1 - 20	R	RECEPT - MULT
RECEPT - FUTURE	R	1 - 20	37	900	A		38	3 - 30	0	SURGE SUPPRES
RECEPT - FUTURE	R	1 - 20	39	540	8	1	40		0	
FUTURE LOBBY HEATER	M	1 - 20	41	1500	C		42		0	
LOAD	KV/	A Low and the second	\$	T				· · · · ·		
SUMMARY			C]				•			
LIGHTING (L)					PROVIDE I	TEMS MARK	ED WIT	H "X" BELOW:		
RECEPTACLE (R)	7	7	8		PROVID	DE GFCI BI	REAKER	WHERE MARKED	"GF" /	BOVE.
MECH. HEAT (H)								EAKER WHERE M		
MECH. MOTOR (M)	3	4	2	· .	Summing .			OR THIS PANEL.		
COOKING (C)						,		ATED GROUND BI	US.	•
WATER HTR (W)				· .	- firming -	DE FEED TI		· · ·		
APPLIANCE (A)	1	1						ITRANCE LABEL		
OTHER (O)			-					n main breaker	1	
TATALS	11	12	10	1				R CONSTRUCTION		

111210XPROVIDE DOOR-IN-DOOR CONSTRUCTIONTOTAL CONN. KVA 33.0= 90 AMPSEST.DEMAND KVA = 26.7= 74 AMPS

an a	PANELBO	JARD SCHEDULE - LP1B	- (SECTION 2)		PA	NELBOAR	D SCHEDULE - MDP	
PANEL: LP1B	VOLTS: 208Y/120	MAIN: 225 AMP, MAIN LUGS ONLY		PANEL: MDP	VOLTS: 480Y/277	*	MAIN: 1200 AMP, 3 POLE, MAIN BREAKER with	GROUND FAULT
rancu: ur id	PHASE: 3 PHASE 4W	MAIN BUS : 225 AMPS	LOCATION: ELECTRIC ROOM		PHASE: 3 PHASE 4W		MAIN BUS : 1200 AMPS	LOCATION: ELECTRIC ROOM
	A. I. C. : 22,000 MINIMUM		MOUNTING: SURFACE	BRANCH: "NORMAL"	A. I. C. : 35,000 MINIMU	IM .	NEUTRAL BUS: FULL	MOUNTING: SURFACE
SERVED FROM : PANEL LP1B		FULL GROUND BUS		SERVED FROM : PANEL MDP-)	an da mangan da kanang ang kanang mangang mangang mangang kanang kanang kanang kanang kanang kanang kanang kan		FULL GROUND BUS	
LOAD LOCATION AND/OR	Code BREAKER CKT LOAD		LOAD LOCATION AND/OR	LOAD LOCATION AND/OR	Code BREAKER	CKT LOAD	PHASE LOAD CKT BREAKER Coo	le LOAD LOCATION AND/OR
DESCRIPTION:	Letter POLES-TRIP NO. VA		DESCRIPTION:	DESCRIPTION:	Lette POLES-TRIP	NO. VA	A B C VA NO. POLES-TRIP Let	
ICE MAKER	A 1 - 20 43 700	A 44 1 - 20 S	SPARE	PANEL HPA SPAre	SF 3 - 225	1	A 2 3 - 225 SF	PANEL HIDIB ATS 100 EDP
DISHWASHER	A 1 - 20 45 1200		SPARE	Spare	SF	3	B 4 SF	
SPARE	S 47	C 48 S	SPARE	Space	SF	5	C 6 SF	
SPARE	S 49	A 50 S	SPARE	PANEL HP2A VAV Z	SF 3 - 225	7	A 8 3 - 225 SF	PANEL-HP2B VAV 1
SPARE	S 51	B 52 S	SPARE	VAV 2	SF	9	B 10 SF	••••
SPARE	S 53		SPARE	VAVZ	SF	11	C 12 SF	
SPARE	<u>S</u> 55		SPARE	RAMINAME SPAre	SF 3 - 100	13	A 14 3 - 225 SF	4 1 1 1
SPARE	S 57	B 58 S	SPARE	Spare	SF	15	<u>B</u> 16 SF	
SPARE	S 59	C 60 S	SPARE	Spare	SF	17	C 18 SF	
SPARE	S 61	A 62 S	SPARE	RTU# RTUZ	R 3 - 150	19 33683		
SPARE	S 63	B 64 S	SPARE	RTU2	R	21 33683	B 33683 22 R	HPIB
SPARE	S 65	C 66 S	SPARE	RTUZ	R	23 33683	C 33683 24 R	HP1B
SPARE	S 67	A 68 S	SPARE	WHATS 260 CD	P M 3 - 125	25 30969		HP2B
SPARE	S 69	8 70 S	SPARE	ATS 260 CP	P N	27 30969	B 30969 28 M	HP2B
SPARE	<u>S</u> 71	C 72 S	SPARE	ATS 260 CDF	? M	29 30969	C 30969 30 M	HP 2B
SPACE	S 73	A 74 S	SPACE	SPAGE HPIA	S	31.	A 32 S	
SPACE	S 75	B 76 S	SPACE	SPACE HPLA	S	33		SPACE HP 214
SPACE	<u>S</u> – – – 77	C 78 S-	SPACE VAV) BETWEEN COLUMN	SPAGE HPLA	<u>S</u> – – – –	35		SPACE HP ZA
SPACE	S 79	A 80 S	SPACE	SPACE	S	37		SPACE
SPACE	S 81	B 82 S	SPACE	SPACE	S	39		SPACE
SPACE Irrightion Recp	S 83	C 84 S	SPACE Floor Box Room 226	SPACE	S	41	C 42 S	SPACE
LOAD	KVA CONNECTED	аран талан тарактар на долго на 1994. Они ископерания било се се и било у и било се на на на на искор и на на На на		LOAD	KVA CONNECTED			
SUMMARY	ABC			SUMMARY	A B	<u> </u>		
LIGHTING (L)		PROVIDE ITEMS MARKED WITH "X" BELOW:		LIGHTING (L)	19 16	19	PROVIDE ITEMS MARKED WITH "X" BELOW:	
RECEPTACLE (R)		PROVIDE GFCI BREAKER WHERE MARKED "GF" A	BOVE.	RECEPTACLE (R)	128 126	125	PROVIDE GFCI BREAKER WHERE MARKED "G	
MECH. HEAT (H)		PROVIDE ARC-FAULT BREAKER WHERE MARKED	"AF" ABOVE.	MECH. HEAT (H)	3 2	2	PROVIDE ARC-FAULT BREAKER WHERE MAR	KED "AF" ABOVE.
MECH. MOTOR (M)		PROVIDE TVSS DEVICE FOR THIS PANEL.		MECH. MOTOR (M)	201 202	166	X PROVIDE TVSS DEVICE FOR THIS PANEL	
COOKING (C)		PROVIDE SEPARATE ISOLATED GROUND BUS.		COOKING (C)			PROVIDE SEPARATE ISOLATED GROUND BUS	•
WATER HTR (W)		X PROVIDE FEED THROUGH LUGS		WATER HTR (W)	2	2	PROVIDE FEED THROUGH LUGS	
APPLIANCE (A)				APPLIANCE (A)	2 1	1	PROVIDE UL SERVICE ENTRANCE LABEL.	
OTHER (O)				OTHER (O)			PROVIDE SHUNT-TRIP ON MAIN BREAKER.	
TOTALS (THIS SECTION ONLY)		X PROVIDE DOOR-IN-DOOR CONSTRUCTION		TOTALS	353 349	315	× PROVIDE DOOR-IN-DOOR CONSTRUCTION	
TOTAL CONN. KVA				TOTAL CONN. KVA	1017.0 = 1223 AMF	S	EST.DEMAND KVA = 832.1 = 1001 AM	PS ESTIMATED DEMAND KW = 6

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		F	ANE		ARD S	CHE]	JUL		2B	n la segura de la se
PANEL: LP2B	VOLTS:	208Y/120			MAIN: 225	AMP, 3 P	ole, mai	N BREAKER		
	PHASE:	3 PHASE 41	V .		MAIN BUS	: 22	25 AMP	S	Antonio qui tininentenini	LOCATION:
	A. I. C. :	22,000 MINIM	M		NEUTRAL B	US:	FULL			MOUNTING:
SERVED FROM : PANEL HP2B	VIA XFMR				FULL GROU	· · ·				
LOAD LOCATION AND/OR	1	BREAKER	СКТ	LOAD	PHASE	LOAD]CKT	BREAKER		LOAD LOCAT
DESCRIPTION:	Lette	POLES-TRIP	NO.	VA	ABC	· VA	NO.	POLES-TRIP	1	DESCRIPTION
RECEPT - ROOF	R	1 - 20	1	360	A	672	2	1 - 20	M	EF-1
SSCU1-1	M	2 - 15	3	874	B	1500	4	2 - 20	W	EWH-2
47.00 100 1000 (-	M		5	874	C	1500	6	ectes inter cetta dates	W	
VAV CONTROL	M	1 - 20	7	500	A	180	8	1 - 20	M	EF-2-1
SYSTEMS FURNITURE	R	1 - 20	9	1000	В	1000	10	1 - 20	R	SYSTEMS FL
SYSTEMS FURNITURE	R	1 - 20	11	1000	C	1000	12	1 - 20	R	SYSTEMS FL
SYSTEMS FURNITURE	R	1 - 20	. 13	1000	Α	1000	14	1 - 20	R	SYSTEMS FL
SYSTEMS FURNITURE	R	1 - 20	15	1000	B	1000	16	1 - 20	R	SYSTEMS FL
SYSTEMS FURNITURE	R	1 - 20	17	1000	C	1000	18	1 - 20	R	SYSTEMS FL
SYSTEMS FURNITURE	R	1 - 20	19	1000	A	· 1000	20	1 - 20	R	SYSTEMS FI
SYSTEMS FURNITURE	R	1 - 20	. 21	1000	8	1000	22	1 - 20	R	SYSTEMS FI
SYSTEMS FURNITURE	R	1 - 20	23	1000	C	1000	24	1 - 20	R	SYSTEMS FI
SYSTEMS FURNITURE	R	1 - 20	25	1000	A	1000	26	1 - 20	R	SYSTEMS FI
SYSTEMS FURNITURE	R	1 - 20	27	1000	B	1000	28	1 - 20	R	SYSTEMS FI
SYSTEMS FURNITURE	R	1 - 20	29	1000	C	1000	30	1 - 20	R	SYSTEMS FI
SYSTEMS FURNITURE	R	1 - 20	31	1000	A	1000	32	1 - 20	R	SYSTEMS FI
SYSTEMS FURNITURE	R	1 - 20	33	1000	B	1000	34	1 - 20	R	SYSTEMS FI
SYSTEMS FURNITURE	R	1 - 20	:35	1000	C	1000	36	1 - 20	R	SYSTEMS FI
SYSTEMS FURNITURE	R	1 - 20	37	1000	A		38	3 - 30	0	SURGE SUP
SYSTEMS FURNITURE	R	1 - 20	39	1000	B	а.	40	-	0	
LIGHTING	L	1 - 20	41	600	C		42		0	
LOAD	KW	A CONNECTE)		-					
SUMMARY		B	C			* .				
LIGHTING (L)			1		PROVIDE I	EMS MARK	ED WITH	"X" BELOW:		· · ·
RECEPTACLE (R)	20	21	18		PROVID	E GFCI BF	REAKER	WHERE MARKED	"GF" A	BOVE.
MECH. HEAT (H)					PROVID	E ARC-FA	ULT BRE	AKER WHERE M	RKED	"AF" ABOVE.
MECH. MOTOR (M)	1	1	1		X PROVID	e tvss di	evice f(R THIS PANEL.		
COOKING (C)					PROVID	e separa	te isou	TED GROUND BU	IS.	
WATER HTR (W)		2	2		X PROVID	1. J.		1		•
APPLIANCE (A)					personal states			TRANCE LABEL.	. '	• *
OTHER (O)					, jammer of			I MAIN BREAKER		
TOTALS	21	24	22	1	- Emmed			CONSTRUCTION		
TOTAL CONN. KVA		= 180 AMF	- Andrew Construction of the second		, and general construction of the second	بالأعيادات الشابية المتجرب والمرا		= 113 /		ESTIM/

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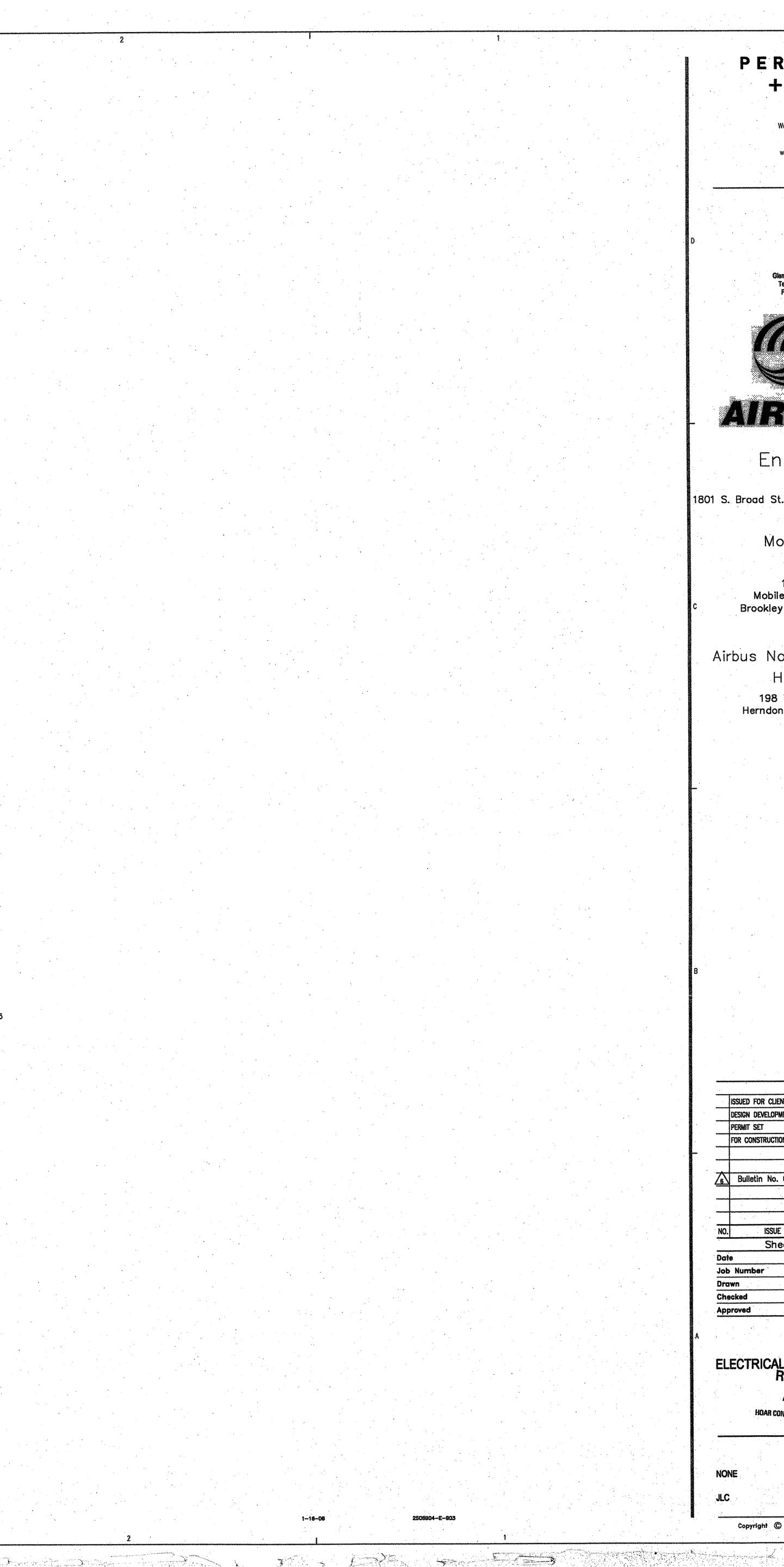
LECTRIC ROOM	
SURFACE	
·	
IN AND/OR	
	ſ
-	
R	
DADING DOCK	
DADING DOCK	
FAGING	`
ATER COOLER	
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		ALCONDOLUM	PA	NELB	OARD	S(CHEC	DULE	<u> </u>	.P2	2B - (S	SEC	TION 2)
PANEL: LP2B	VOLTS:		208Y/120	*** * ********************************				AMP, MAIN		-			
PANEL: LP28	PHASE:		3 PHASE 4W		· ·	\$	BUS		25 AMF				LOCATION: ELECTRIC ROOM
			2,000 MINIMU	M			TRAL BL		FULL				MOUNTING: SURFACE
SERVED FROM : PANEL LP2E				· · ·			GROU						
LOAD LOCATION AND/OR			BREAKER	CKT	LOAD		HASE	LOAD	ICKT		BREAKER	Code	LOAD LOCATION AND/OR
DESCRIPTION:	1		POLES-TRIP	NO.	VA	A	BC	VA	NO.	1		Letter	DESCRIPTION:
SYSTEMS FURNITURE		R	1 - 20	43	1000	A		720	44		1 - 20	R	RECEPT - OFFICE
SYSTEMS FURNITURE		R	1 - 20	45	1000	1	B	720	46		1 - 20	R	RECEPT - OFFICE
SYSTEMS FURNITURE		R	1 - 20	47	1000	1	C	540	48		1 - 20	R	RECEPT - OFFICE
SYSTEMS FURNITURE		R	1-20	49	1000	A		720	50		1 - 20	R	RECEPT - CORR
SYSTEMS FURNITURE		R	1 - 20	51	1000		B	180	52		1 - 20	R.	RECEPT - CORR
SYSTEMS FURNITURE		R	1 - 20	53	1000	1	C	180	54		1 - 20	R	RECEPT - COLUMN
SYSTEMS FURNITURE		R	1 - 20	55	1000	A	,	360	56		1 - 20	R	RECEPT - BATHROOM
SYSTEMS FURNITURE		R	1 - 20	57	1000		В	540	58		1 - 20	R	RECEPT - COUNTER
SYSTEMS FURNITURE		R	1 - 20	59	1000		C	800	60		1 - 20	R	RECEPT - WATER COOLER
SYSTEMS FURNITURE		R	1 - 20	61	1000	A		900	62		1 - 20	R	RECEPT - CORR
RECEPT - CAFÉ		R	1 - 20	63	720		8	900	64		1 - 20	R	RECEPT - OFFICE
RECEPT - CAFÉ OFFICE		R	1 - 20	65	360		<u> </u>	1080	66		1 - 20	R	RECEPT - OFFICE
REFRIG - CAFÉ		R	1 - 20	67	1000	A		800	68		1 - 20	R	CAFÉ VENDING
REFRIG - CAFÉ		R	1 - 20	69	1000	<u> </u>	B	800	70		1 - 20		CAFE VENDING
RECEPT - CAFÉ COUNTER		R	1 - 20	71	360	<u> </u>	C	1200	72		1 - 20	R	CAFÉ ICEMAKER
RECEPT - CAFÉ MICROWAVE		R	1 - 20	73	1200	A		800	74		1 - 20	R	CAFÉ DISHWASHER
RECERT - CAFE MICROWAVE		<u>%</u>	1-20	75	1200-	┫	8	800	76		1-22		GARBAGE DISPOSAL
SYSTEMS FURNITURE		R	1 - 20	77	1000	17	<u> </u>	(1000	78		1 - 20		SYSTEMS FURNITURE
SYSTEMS FURNITURE		<u>R</u>	1 - 20	79	1000	A		1000	80		1 - 20		SYSTEMS FURNITURE 6
SYSTEMS FURNITURE <u>6</u>	7	<u>.</u> R	1 - 20	81	1000	K_	B	\sim	182			าสู้ระการการการการการการการการการการการการการก	
SYSTEMS FURNITURE		R	1 - 20	83	1000	<u></u>	Ċ	<u> </u>	84			<u> S</u>	SPACE
tone ~ ~	\frown	-KVA-	SONNECTED		\sim								
SUMMARY		<u> </u>	B	<u> </u>	-				-				
LIGHTING (L)				·.							X* BELOW:	*~~*	4 M AL 17 -
RECEPTACLE (R)	· ·	12	2 11	10							ERE MARKED		
MECH. HEAT (H)											ER WHERE M	AKKED	AP ABUVE.
MECH. MOTOR (M)							4				THIS PANEL	10	
COOKING (C)							4				D GROUND BU	20.	
WATER HTR (W)					-	Ă	ILKOVIDI 1	e feed t	nnuugh	1.14	COL		
APPLIANCE (A)				· ·	1		-						
OTHER (O)	~ +	a #		+^	-	V	DDOWID	5 0000	IN	0 0	ONCTONICTION		
TOTALS (THIS SECTION ONLY	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12		10	<u> </u>	week warman as a		D KVA =		<u>n v</u>	$\frac{\text{ONSTRUCTION}}{= 58 \text{ AN}}$		ESTIMATED DEMAND KW = 1
TOTAL CONN. KV	<u>A 33.U</u>		= 88 AMPS			<u> </u>	.UC.MANI	<u> </u>			<u> </u>	IF3	ESTIMATED DEMAND KIT - I

estimated demand kw = 23.1

ELECTRIC ROOM CATION AND/OR FURNITURE UPPRESSOR

TIMATED DEMAND KW = 36.8



PERKINS +WILL 2100 M Street, NW Suite 800 Washington, DC 20037 t: 202.737.1020 f: 202.223.1570 www.perkinswill.com 11520 Nuckols Road Suite 110 Glen Allen, VA 23059-5507 Telephone 804.474.7800 Facsimile 804.474.6822 AIRBUS Engineering Center 1801 S. Broad St., Mobile, AL 366 5 CLIENT Mobile Airport Authority 1891 Ninth Street Mobile, Alabama 36615 Brookley Airport Complex T: 251.438.7334 TENANT Airbus North America Holdings, Inc. 198 Van Buren Street Herndon, VA 20170–5335 T: 703.834.3486 Revisions
 ISSUED FOR CLIENT REVIEW
 01.11.06

 DESIGN DEVELOPMENT
 01.23.06

 PERMIT SET
 03.20.06

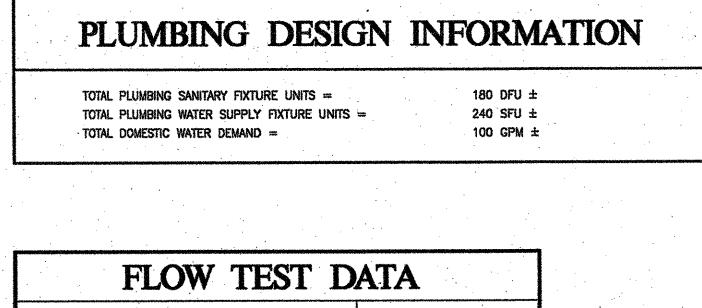
 FOR CONSTRUCTION
 03.27.06
 DESIGN DEVELOPMENT PERMIT SET 6 Bulletin No. 6 <u>07.25.06</u> NO. ISSUE DATE Sheet Information 03/27/2006 er 25069 Date Job Number Drawn Checked Approved Title ELECTRICAL SCHEDULES RECEIVED AUG 0 1 2006 HOAR CONSTRUCTION FIELD OFFICE Sheet NONE E-903 JLC Copyright © 2005 Perkins+Will

UNIT			STORAGE	HTG. ELE	MENT KW		ELECTRIC		MANUFACTURER
NO.	TYPE	LOCATION	GAL.	LOWER	UPPER	V	PH	HZ	& MODEL NO.
	ELECTRIC,	JAN.		~				~	
EWH-1	STORAGE	CLOSET 1ST FLOOR	40	6	6	208	1	60	A.O. SMITH; DEL-
	ELECTRIC,	ABV CLG IN LUNCH RM. (LOWER LEVEL)	,			·			
WH-2	STORAGE	IN BASE CABINET IN PANTRY (UPPER LEVEL)	20	3		208	- 1	60	A.O. SMITH; DEL-
	ELECTRIC,	ABV CLG				-			-
WH-3	STORAGE	1ST FL TOIL	5	1.5		120	1	60	A.O. SMITH; DEL

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1/2"

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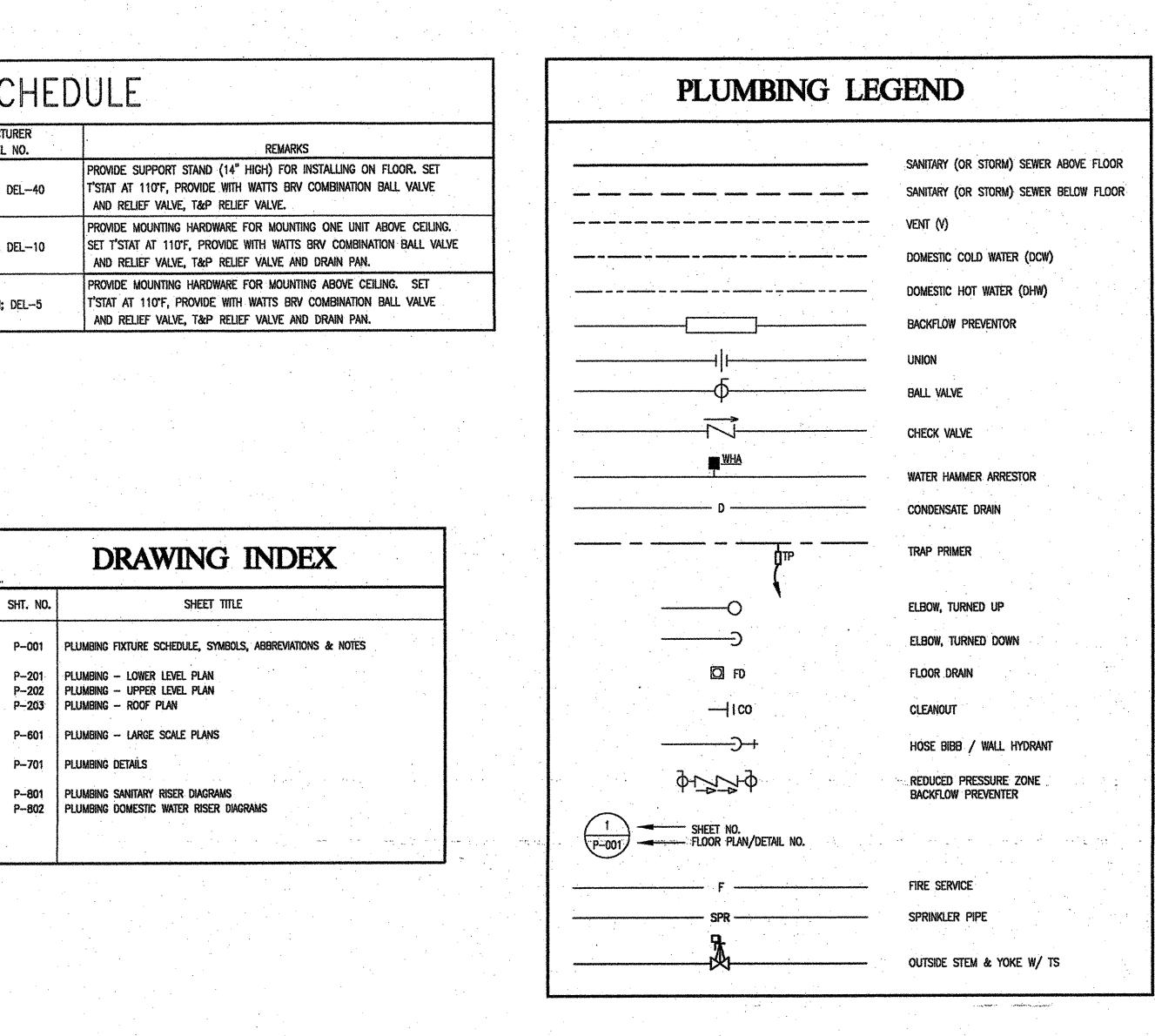


FLO	N TEST	DATA	
FLOW TEST DATE AND TIME: TEST LOCATION: STATIC PRESSURE:	(UNKNOWN) (UNKNOWN) 78 PSI	MOBILE, ALABAMA FIRE MARSHAL'S (MAWSS) FLOW REQUIREMENTS: 1,500 GPM	
RESIDUAL PRESSURE: FLOW:	38 PSI 1,180 GPM		
	HIS OWN INVESTIGATIO IE ABOVE DATA DO SO IALL BE ALLOWED FOR	E ONLY. THE FIRE PROTECTION N REGARDING WATER SUPPLIES. AT THEIR OWN RISK. NO CONTRACTOR'S FAILURE TO	

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	<u>anuuna vaadumatoimin kohteen tuuluinen tuuna miinin tuuna voimin kohteen kohteen kohteen kohteen kohteen kohtee</u>						TURE SCHEDULE
FIXTURE	FIXTURE TYPE	WASTE	VENT	CW	HW	MANUFACTURER & MODEL NO.	REMARKS
	PUBLIC WATER CLOSET,					AMERICAN STD. "AFWALL" - MODEL # 2257.103, WALL HUNG,	SLOAN REGAL PRO MODEL 110, CHROME PLATED AND OLSONITE #95 OPEN FRONT SEAT
P-1	FLUSH VALVE, WALL HUNG	4 ⁿ	^{''} 2 ^{*'}	·~~1*	I	ELONGATED, FLUSH VALVE	LESS COVER. PROVIDE FLOOR MOUNTED CARRIER INSTALL RIM AT 15" AFF
	PUBLIC WATER CLOSET,			-		AMERICAN STD. "AFWALL" - MODEL # 2257.103, WALL HUNG,	SLOAN REGAL PRO MODEL 110, CHROME PLATED, AND OLSONITE #95 OPEN FRONT SEAT
P-1A	FLUSH VALVE, WALL HUNG	4 [#]	2*	1#		ELONGATED, FLUSH VALVE	LESS COVER. PROVIDE FLOOR MOUNTED CARRIER. INSTALL RIM AT 17" ABOVE FINISHED FLOOR
						AMERICAN STD. "ALLBROOK" - MODEL # 6541.132, 1.0 URINAL,	PROVIDE WITH SLOAN REGAL PRO MODEL 186-1, CHROME PLATED
P-2	URINAL	2 ⁿ	1-1/2"	3/4"		WHITE WALL HUNG, VITREOUS CHINA	FLUSH VALVE, INSTALL WITH FRONT RIM AT 24" AFF
	URINAL			1 A.		AMERICAN STD. "ALLBROOK" - MODEL # 6541.132, 1.0 URINAL,	PROVIDE WITH SLOAN REGAL PRO MODEL 186-1, CHROME PLATED
P-2A	ADA (COMPLIANT)	. 2"	1-1/2"	3/4"	بستور	WHITE WALL HUNG, VITREOUS CHINA	FLUSH VALVE, INSTALL WITH FRONT RIM AT 17" AFF
	PUBLIC LAVATORY	- -	1-1/2"			AMERICAN STD. "OVALYN" - MODEL # 0496.221,	AMERICAN STD. "MONTEREY" WIDESPREAD FAUCET, MODEL # 6502.140 (LEVER HANDLE)
P-3	UNDER COUNTER	1-1/2*	OR 2"	1/2"	1/2"	UNDERCOUNTER LAVATORY	PROVIDE HW/CW SUPPLIES WITH STOPS, 17GA, 1-1/2" CHROME PLATED P-TRAP.
	PUBLIC LAVATORY, UNDER		1-1/2"			AMERICAN STD. "OVALYN" - MODEL # 0496.221,	AMERICAN STD. "MONTEREY" WIDESPREAD FAUCET, MODEL # 6502.140 (LEVER HANDLE). PROVIDE HW/CW SUPPLIES WITH STOPS, 17GA;
P3A	COUNTER, (ADA COMPLIANT)	1-1/2"	OR 2"	1/2"		UNDERCOUNTER LAVATORY	1-1/2" CHROME PLATED P-TRAP. PROVIDE COVER ASSEMBLY FOR ADA COMPLIANT
					ting the same state of the sam	FIAT, MODEL # MSB-2424, MOLDED STONE,	24"x24"x12" HIGH. PROVIDE FIAT # 830AA FAUCET WITH VACUUM BREAKER, 832AA HOSE BRACKET, 889C MOP HOOK,
P-4	MOP BASIN	3°	2*	1/2"		WITH CAST BRONZE STRAINER	H/CW SUPPLIES WITH ANGLE STOP
	CASEWORK SINK SINGLE					ELKAY #LRAD 2219, 22" x 19-1/2" x 6-1/2" DEEP	PROVIDE ELKAY #LK 2423BH TWO-HANDLE FAUCET AND NO. LKR 208513 SINK LEVER FAUCET
P-5	COMP. WITH DISPOSER	1-1/2"	2°	1/2"		SELF-RIMMING, 18 GA STAINLESS STEEL, SOUND-DEADENED	FOR FILTERED WATER DISPENSER LOCATE AS DIRECTED BY ARCHITECT (WITH LEVER ON RIGHT OR LEFT SIDE)
	ELEC. WATER COOLER, DUAL	1-1/2		- 1/2	176	SEL TRANSING, IS OF STRACEDS SILLE, SOUND DESERTS	STAINLESS STEEL DUAL LEVEL ELECTRIC WATER COOLER WITH RECESSED COMPRESSOR UNIT IN WALL CABINET, INCLUDING SUPPORT FRAME
		4 4 10#	4 4 100	1/2"		ELKAY MANUFACTURING #ERPBM-28C	WALL ASSEMBLY, COMPLETE AS CATALOGUED. PROVIDE CW SUPPLY WITH STOP, 17GA, 1-1/2" CHROME PLATED P-TRAP AND WASTE (INSIDE CABINET)
EWC-1	HEIGHT (ADA COMPLIANT)	1-1/2"	1-1/2"	· 1/2	and And the second		PROVIDE DISTRIBUTION MANIFOLD ASSEMBLE FOR MULTIPAL, FLOOR DRAINS OR
					^	PRECISION PLUMBING PRODUCTS	
	TRAP PRIMER	***	*****	1/2"		PRIME-RITE" MODEL #NWBED 200	OPEN SITE DRAINS
AAVB	AIR ADMITTANCE VALVE	_	1-1/2"	1996	-		PROVIDE GUY GRAY WALL BOX FOR ACCESS IN WALLS.
СМВ	COFFEE MAKER BOX			1/2"		GUY GRAY MODEL #BIM875, PAINTED STEEL	PROVIDE BACKFLOW PREVENTOR, SEE DETAIL FOR INSTALLATION REQUIREMENTS
IMB	ICE MAKER BOX		-	1/2"	-	GUY GRAY MODEL #BIM875, PAINTED STEEL	PROVIDE BACKFLOW PREVENTOR, SEE DETAIL FOR INSTALLATION REQUIREMENTS
	WATER FILTER	÷				FILTRINE MODEL NO. GPF-02,	PROVIDE CW SUPPLY SHUT-OFF AND HB DRAIN (AFTER SHUT-OFF), UNION CONNECTIONS ON BOTH ENDS. EXTEND 3/4" FILTERED CW TO ICEMAKER,
WF-1	UNIT		-	3/4"	-	POLYPROPYLINE PARTICLE FILTER	CW DISPENSER ON P-5 & 1/2" TO CMB, INSTALL UNDER SINK, SECURED TO SIDEWALL OF CABINET AT 45 ANGLE (FOR EASE OF SERVICE)
	HOSE BIBB	·····			,	WOODFORD MODEL #24P-3/4", CHROME PLATED,	
нв	(PUBLIC TOILETS)	-		3/4"	 -	LOOSE-KEY OPERATED	UNIT SHALL HAVE A NON-REMOVABLE HOSE THREAD VACUUM BREAKER
	WALL HYDRANT					WOODFORD MODEL #65-EP, CHROM-PLATED,	
WH	(EXTERIOR)			3/4"	4034	POLISH BRASS FINISH, LOOSE-KEY OPERATED	WALL HYDRANT SHALL HAVE INTEGRAL 3/4" HOSE THREAD VACUUM BREAKER
	s and s 3 lines V33,65 3 j Anny my many my						"LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT. DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT
FCO	FLOOR CLEANOUT	SEE PLAN				ZURN - MODEL # Z-1400	ABS TAPERED THREAD PLUG AND ROUND SCORIATED BRONZE TOP ADJUSTABLE TO FINISHED FLOOR
WCO	WALL CLEANOUT	see plan				ZURN - MODEL # Z-1446	INSTALL CLEANOUTS 12" MIN. AFF TO CLEAR BASEBOARDS.
	TOILET ROOMS			· · ·		PARTIE HEALER H & CLIA	COATED CAST IRON , BODY WITH BOTTOM OUTLET, ROUND TOP AND REMOVABLE ANTI TILTING
Z"ET		7 #	2*	·	-	J.R., SMITH # 2005-U-P050	VANDAL-RESISTANT, NICKEL-BRONZE GRATE, PROVIDE WITH "P" TRAP & TRAP PRIMER
<u>3"FD</u>	FLOOR DRAIN	<u> </u>	<u></u>			1 VILI JUILI & COOLO I VOO	
-	KITCHEN	-21	~¥	2 2		10 CHITH # 2006 11 577 DOED	PROVIDE SAME AS FOR 3" FD, EXEPT WITH RECESSED GRATE. INSTALL OUT OF FOOT TRAFFIC UNDER EQUIPMENT
3"FDA	FLOOR DRAIN	5	. 2"			J.R., SMITH # 2005-U-F37-P050	DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND
					· .	ZURN - MODEL # Z100,	
RD	ROOF DRAIN	SEE PLAN			-avet	WITH SUMP RECEIVER & UNDERDECK CLAMPS	LOW SILHOUETTE CAST IRON DOME. PROVIDE ADJUSTABLE EXTERIOR/FLASHING COLLAR AS REQUIRED
	EMERGENCY OVERFLOW			s. Na se		ZURN - MODEL # Z100-AW,	DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVELGUARD AND ADJUSTABLE WATER LEVEL REGULATOR,
ERD	ROOF DRAIN	SEE PLAN		*****		WITH SUMP RECEIVER & UNDERDECK CLAMPS	PROVIDE ADJUSTABLE EXTERIOR/FLASHING COLLAR AS REQUIRED
	WATER						"ABSORPTION II" SHOCK ABSORBER WITH WROUGHT COPPER SHELL, HYDRO-PNEUMATIC AIR CUSHION,
WHA	HAMMER		, , , , , , , , , , , , , , , , , , , 	SEE PLAN	SEE PLAN	JOSAM - 75000-S SERIES	TRIPLE O-RING SEALED PISTON, WROUGHT COPPER ADAPTER AND MALE THREADED CONNECTION.
	ARRESTER	1			· .		

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ABI	BREVIATIONS	PLUMBING NOTES			
AAV	AIR ADMITTANCE VALVE	GENERAL NOTES:			
ABV	ABOVE	1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS			
AD	ACCESS DOOR	INCLUDING BUT NOT LIMITED TO:			
AFG	ABOVE FINISHED GRADE	2003 INTERNATIONAL PLUMBING CODE			
AFF	ABOVE FINISHED FLOOR	SPECIFICATION MANUALS (SHALL BE FOLLEWED FULY)			
BFP	BACKFLOW PREVENTER	2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL			
BLDG	BUILDING	ARRANGE FOR ALL INSPECTIONS AS REQUIRED.			
000	CEILING CLEANOUT	3. THE DRAWINGS ARE DIAGRAMMATIC AND SHOULD NOT BE SCALED TO ESTABLISH			
CO	CLEANOUT CLEANOUT TO GRADE	LOCATION OF WORK. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND			
CW	COLD WATER	MAKE ADJUSTMENTS AS NECESSARY TO COMPLETE THE WORK.			
DFU'S	DRAINAGE FIXTURE UNITS	4. THE PLUMBING/MECHANICAL CONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH OTHER TRADE			
DCV	DOUBLE CHECK VALVE	TO ASSURE ALL WORK CAN BE PROPERLY INSTALLED WITHOUT INTERFERENCE OR DELAY.			
DN	DOWN	5. PROVIDE ACCESS PANELS FOR ALL VALVES AND MECHANICAL EQUIPMENT.			
DWG	DRAWING	ALL POWERLENT INCTALLED ADONE THE CERTING DI FARMA CHART MANNARIA ET ANE			
ELEV	ELEVATION	6. ALL EQUIPMENT INSTALLED ABOVE THE CEILING PLENUM SHALL HAVE MAXIMUM FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 IN ACCORDANCE WITH ASTM E84.			
EWT	ENTERING WATER TEMPERATURE				
FCO	FLOOR CLEANOUT	7. CLEAN UP ALL WASTE AND DEBRIS AT THE END OF EACH WORKING DAY AND AT THE COMPLETION OF THE JOB.			
FDC	FIRE DEPARTMENT CONNECTION				
FP	FIRE PROTECTION LINE	8. THE PLUMBING/MECHANICAL CONTRACTOR SHALL NOT CORE DRILL CONCRETE SLABS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE BUILDING OWN			
न	FEET	THE RIVERLEDGE AND WATCH CONSENT OF THE STRUCTURE ENGINEER AND THE BUILDING OWN			
FU'S	FIXTURE UNITS	9. ALL SPECIFIED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S			
GPM	GALLON PER MINUTE	RECOMMENDATION.			
HB	HOSE BIBB	10. THE PLUMBING/MECHANICAL CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO			
HP	HORSEPOWER	COMMENCING WORK AND SHALL NOTIFY THE ARCHITECT AND/OR ENGINEER IF A CONDITION EXIST WHICH PREVENTS THE CONTRACTOR FROM ACCOMPLISHING THE INTENT OF THESE PLANS.			
HUB	HARD UNDER BEAM				
HW	HOT WATER INCH, INCHES	PLUMBING:			
INV	INVERT (ELEVATION)	1. ALL PIPING SHALL BE PROVIDED WITH SECTIONAL SHUT-OFF VALVES AND ACCESS PANELS FOR ALL CONCEALED VALVES. PROVIDE ISOLATION VALVES FOR ALL PLUMBING FIXTURES.			
MAX	MAXIMUM	2. ALL HORIZONTAL DRAINAGE PIPING TO BE SLOPED AS FOLLOWS (UNLESS OTHERWISE NOTED):			
MIN	MINIMUM	2. ALL HORIZONIAL DIVERGEL PARING TO BE SECTED AS FOLLOWS (SILLESS OTHERWISE HORES). SIZE (INCHES) MIN. SLOPE (INCHES PER FT.)			
MISC	MISCELLANEOUS	2 1/2 OR LESS 1/4"			
NOM	NOMINAL	3 TO 6 1/8"			
PG	PRESSURE GUAGE	8 OR LARGER 1/16"			
PH	PHASE	3. ALL HORIZONTAL BRANCH VENTS SHALL BE SLOPED AT 2% MAXIMUM.			
QTY	QUANTITY	4. ALL DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER ASTM437, 438, OR 439 AND ALL PIPING WITHIN WALLS SHALL BE INSTALLED WITH 3/8" POLYETHYLENE FOAM PIPE INSULATION.			
RD.	ROOF DRAIN	PIPE SHALL BE CONCEALED IN WALL AS MUCH AS POSSIBLE.			
RPZ	REDUCED PRESSURE ZONE	5. ALL BELOW FLOOR DOMESTIC WATER PIPE SHALL BE TYPE "K" SOFT COPPER TUBING AND SHALL			
SAN	SANITARY	BE INSULATED WITH 1/2" WALL CLOSED CELL (AMALTEX) INSULATION. THERE SHALL BE NO			
SFU	SUPPLY FIXTURE UNITS	JOINTS IN UNDER GROUND DOMESTIC WATER.			
TP	TRAP PRIMER	 DOMESTIC WATER PIPING INSIDE EXTERIOR WALL CONSTRUCTION SHALL BE INSTALLED ON THE "IN (BUILDING SIDE) OF WALL INSTALLATION. 			
TS	TAMPER SWITCH	7. ALL SANITARY, WASTE, VENT AND STORM PIPING ABOVE FLOOR SHALL BE			
TYP	TYPICAL VENT	NO-HUB CAST IRON.			
× V , , , , , , , , , , , , , , , , , ,		8. PLUMBING CONTRACTOR TO PROVIDE CONDENSATE PIPING FROM AHU'S. CONTRACTOR SHALL COORDINATE CONDENSATE PIPE			
• .	VOLT	SIZE AND EXACT UNIT LOCATION WITH MECHANICAL CONTRACTOR.			
VTR W/	VENT TO ROOF WITH	9. ALL AIR ADMITTANCE VALVES SHALL BE TYPE "A" AND MEET REQUIREMENT OF ASSE 1051.			
WCO	WALL CLEANOUT	VALVES SHALL BE ACCESSIBLE FOR INSPECTION & MAINTENANCE.			
WH	WALL LUEANOUT	FIRE PROTECTION NOTES			

A. GENERAL

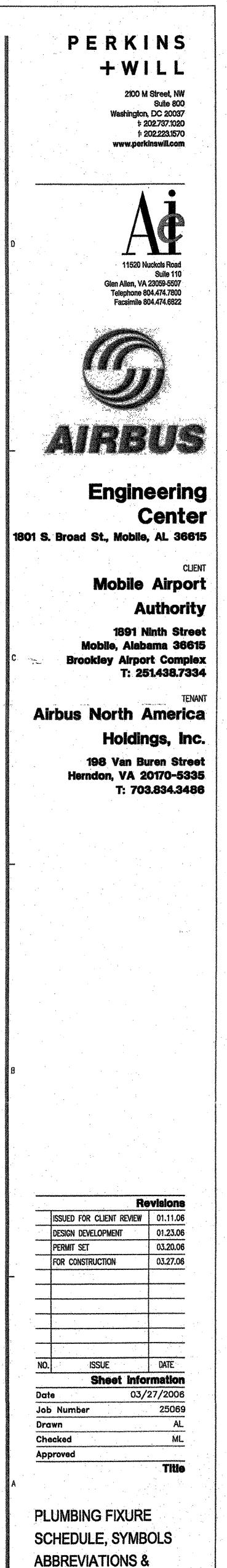
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THE BUILDING SHALL BE PROTECTED BY SPRINKLER FIRE SUPPRESSION SYSTEM. THE FIRE PROTECTION CONTRACTOR SHALL DESIGN, SUPPLY AND INSTALL THE FIRE PROTECTION SPRINKLER SYSTEM IN ACCORDANCE WITH CRITERIA STIPULATED IN THE SPECIFICATION MANUAL.

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 13 AND NFPA 14.
- 2. THE SPRINKLER CONTRACTOR SHALL PERFORM FLOW TEST TO OBTAIN TEST DATA PRIOR TO DESIGN & INSTALLATION OF FIRE PROTECTION SPRINKLER SYSTEMS. 3. DESIGN DENSITY

- .1 IN LIGHT HAZARD AREA OCCUPANCIES, DESIGN DENSITY SHALL BE 0.1 GPM/SQ.FT.
- FOR THE MOST REMOTE 1,500 SQ.FT. AREA OF WATER APPLICATION. .2 IN ORDINARY HAZARD GROUP 1 OCCUPANCIES, DESIGN DENSITY FOR SPRINKLER OPERATION SHALL BE 0.15 GPM/SQ.FT. FOR THE MOST REMOTE 1,500 SQ.FT. AREA OF WATER APPLICATION.

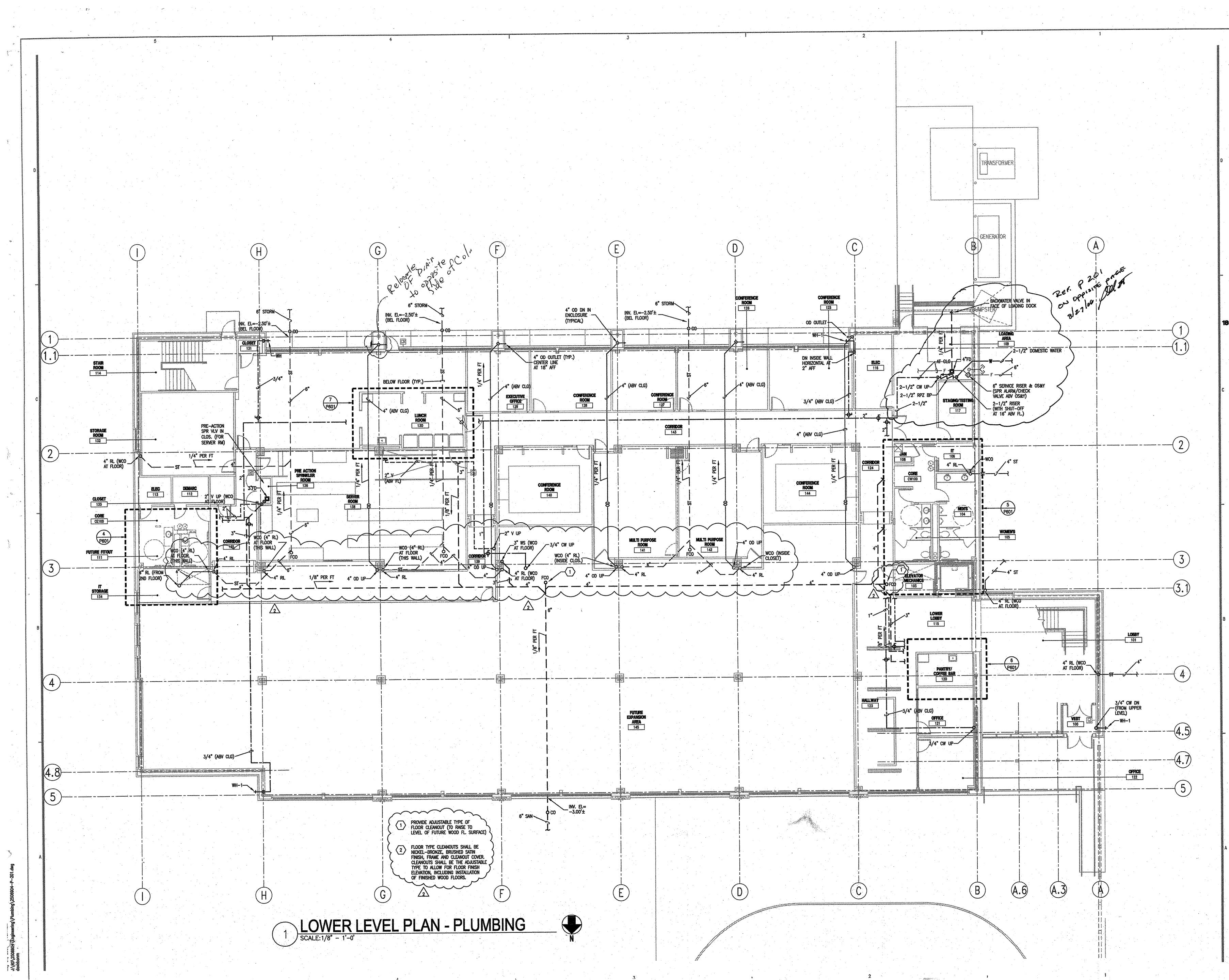
- .3 IN ADDITION TO "STANDARD" ROOMS/SPACES REQUIRING ORDINARY HAZARD, GROUP ONE PROTECTION, THE SERVER ROOM, TELEPHONE ROOMS AND PRINTER ROOM SHALL BE ORDINARY HAZARD, GROUP ONE OCCUPANCY.
- 4. SPRINKLER TYPES
- .1 IN LIGHT HAZARD AREAS WITH CEILINGS, SPRINKLERS SHALL BE RECESSED WITH CHROME ESCUTCHEON AND COVER PLATE. IN "FINISHED" AREAS WITHOUT CEILINGS, SPRINKLER HEADS SHALL BE CHROME-PLATED.
- .2 IN EQUIPMENT ROOMS, SPRINKLERS SHALL BE UPRIGHT, WITH DISCHARGE ORIFICE 1/2", FUSIBLE LINK SETTING OF 165" F AND BRASS FINISH.
- .3 PROVIDE FREEZE-PROOF CHROME-PLATED SIDEWALL SPRINKLER HEADS AT LOADING DOCK.
- .4 PROVIDE PRE-ACTION SPRINKLER SYSTEMS FOR COMPUTER SERVER ROOMS & ELEVATOR SHAFT .5 PROVIDE WIRE PROTECTIVE CAGES AT ALL SPRINKLER HEADS WHERE SUBJECT TO DAMAGE, IN LOW CEIL. EQUIP. ROOMS, ALL STORAGE ROOMS, AND SIMILAR AREAS.
- 5. LOCATE SPRINKLER HEADS AT CENTER OF CEILING TILES OR CENTER OF CORRIDOR.
- .1 COORDINATE LOCATION OF SPRINKLERS IN ROOMS/SPACES WITH CEILINGS, WITH LIGHT FIXTURES AND AIR DEVICES.
- .2 SPRINKLER HEADS SHALL BE LOCATED IN FINISHED CEILING SPACES, IN A NEAT AND ORDERLY PATTERN OR GRID. .3 SPRINKLER HEADS IN OCCUPIED SPACES WITHOUT CEILING SHALL BE UNIFORMLY THROUGH-OUT OPEN-GRID STRUCTURE.
- 6. IN EQUIPMENT ROOMS AND WHERE EXPOSED DUCTWORK AND/OR EQUIPMENT IS 48" AND WIDER, LOCATE SPRINKLER HEADS BOTH ABOVE AND BELOW DUCTWORK.
- 7. LOCATE SPRINKLER HEADS AT BOTTOM OF ELEVATOR PITS CONTAINING HYDRAULIC FLUIDS AT 2' MAXIMUM ABOVE ELEVATOR PIT FLOOR AS REQUIRED PER NFPA 13 AND THE REQUIREMENTS OF ASME A17.1, SAFETY CODE FOR ELEVATORS AND ESCALATORS.
- B. CERTIFICATION AND APPROVAL
- 1. CONTRACTOR SHALL COMMUNICATE WITH AUTHORITY HAVING JURISDICTION AND OWNER'S INSURANCE UNDERWRITERS AND RECEIVE THE APPROVAL FOR SHOP DRAWINGS AND HYDRAULIC CALCULATIONS PRIOR TO PROCEEDING WITH WORK.
- 2. CONTRACTOR TO FURNISH CERTIFICATE OF ACCEPTANCE FROM THE OWNER'S INSURANCE UNDERWRITERS UPON COMPLETION OF WORK.
- 3. CONTRACTOR SHALL HAVE A CERTIFIED FIRE PROTECTION NICET LEVEL III OR GREATER DESIGN, SIGN AND SEAL ALL DRAWINGS AND HYDRAULIC CALCULATIONS.
- C. WORKMANSHIP
- 1. CONTRACTOR TO TEST THE SYSTEM WITH WATER AND/OR AIR AND FURNISH CERTIFICATE OF COMPLIANCE FROM AUTHORITY HAVING JURISDICTION AND LOCAL FIRE DEPARTMENT.
- D. SUBMITTALS 1. SEVEN (7) SETS OF SHOP DRAWINGS FOR EQUIPMENT. 2. HYDRAULIC CALCULATIONS AND SHOP DRAWINGS FOR SPRINKLER PIPING IN SEVEN COPIES.
- 3. COMPLETED AS-BUILT FINAL DRAWINGS.
- 4. 0 & M MANUALS IN 3-RING HARD COVER BINDERS IN TRIPLICATE. 5. ONE(1) SET OF COUNTY FIRE MARSHAL'S APPROVED DRAWINGS.

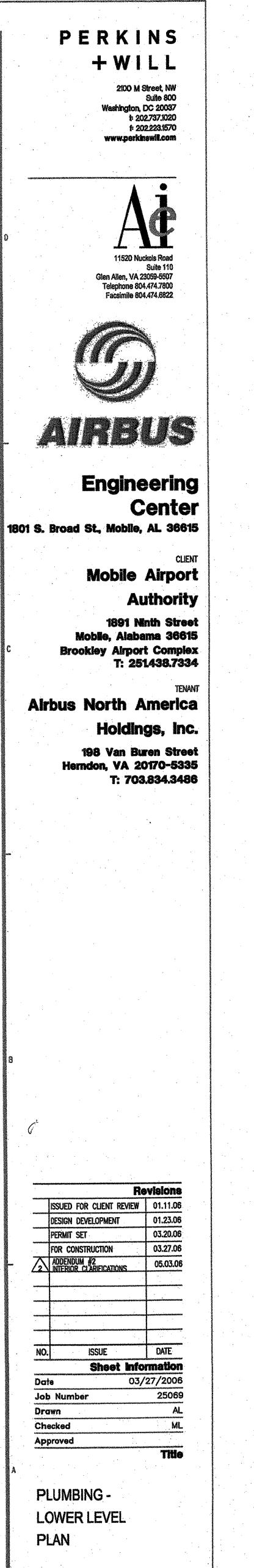


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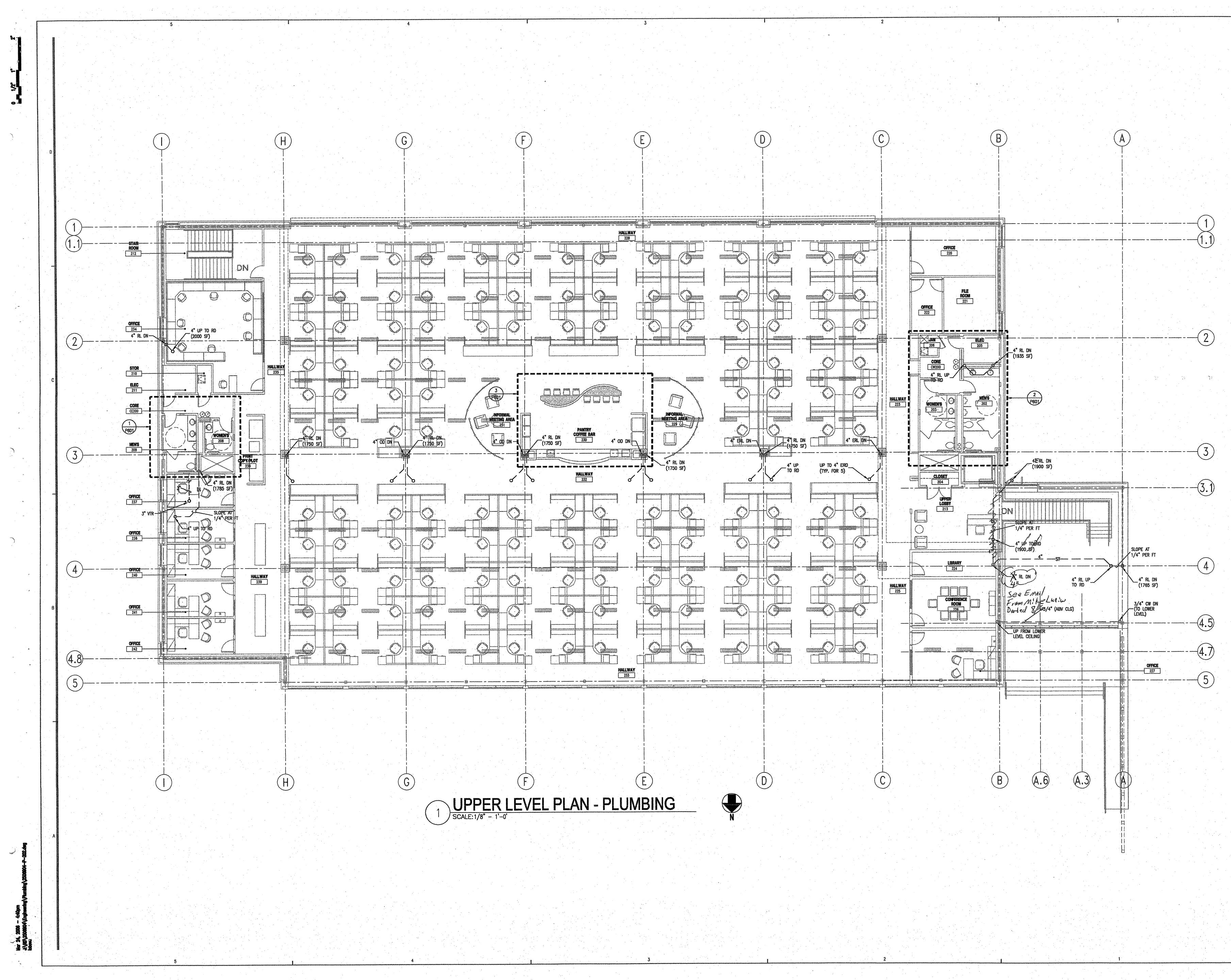
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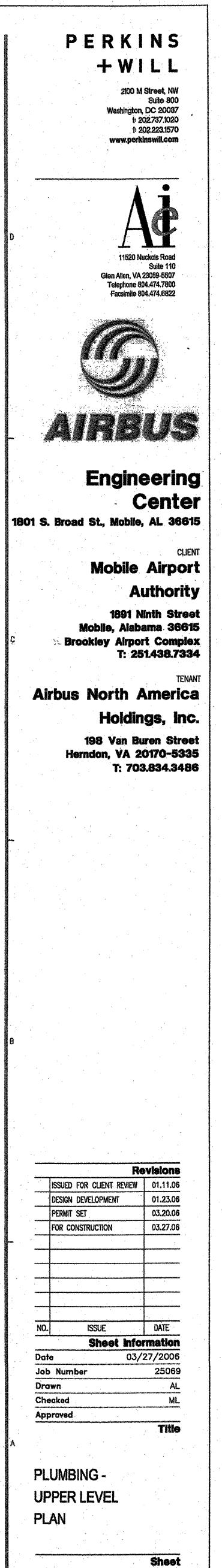




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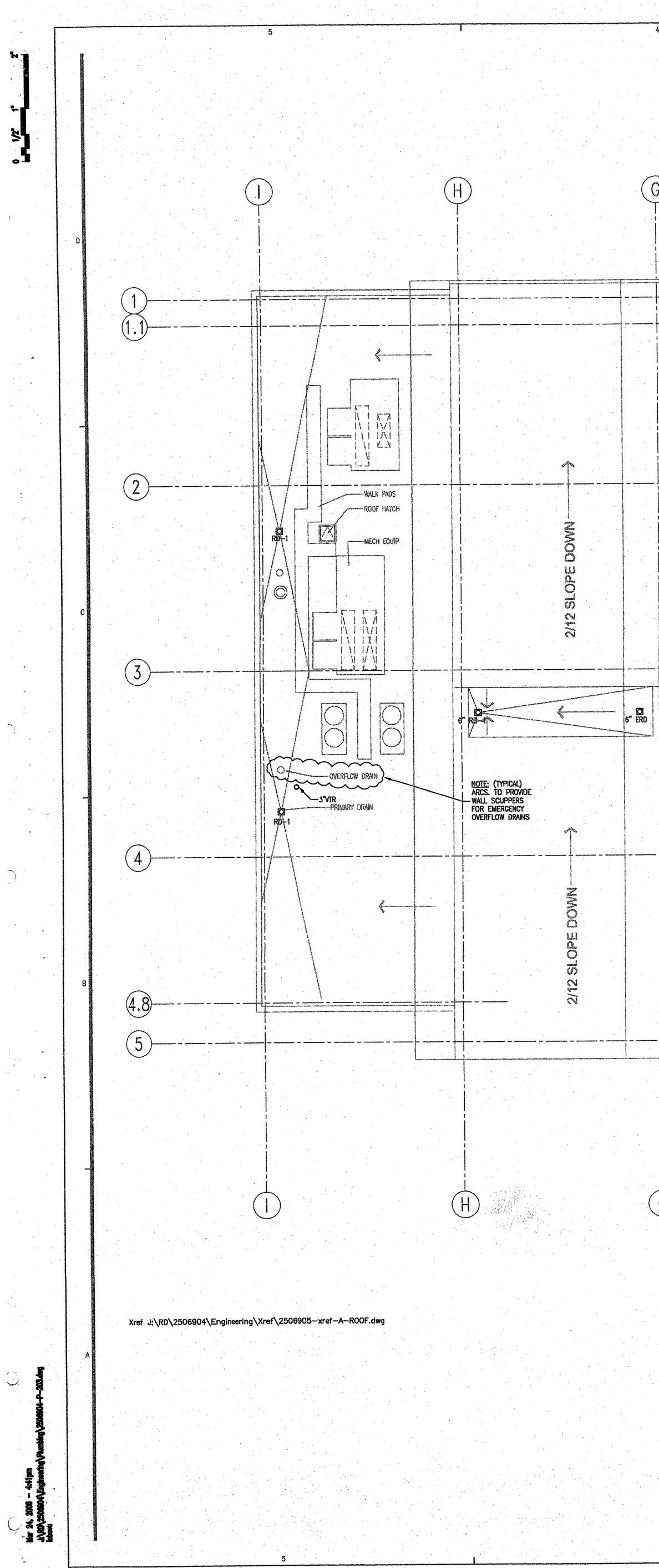
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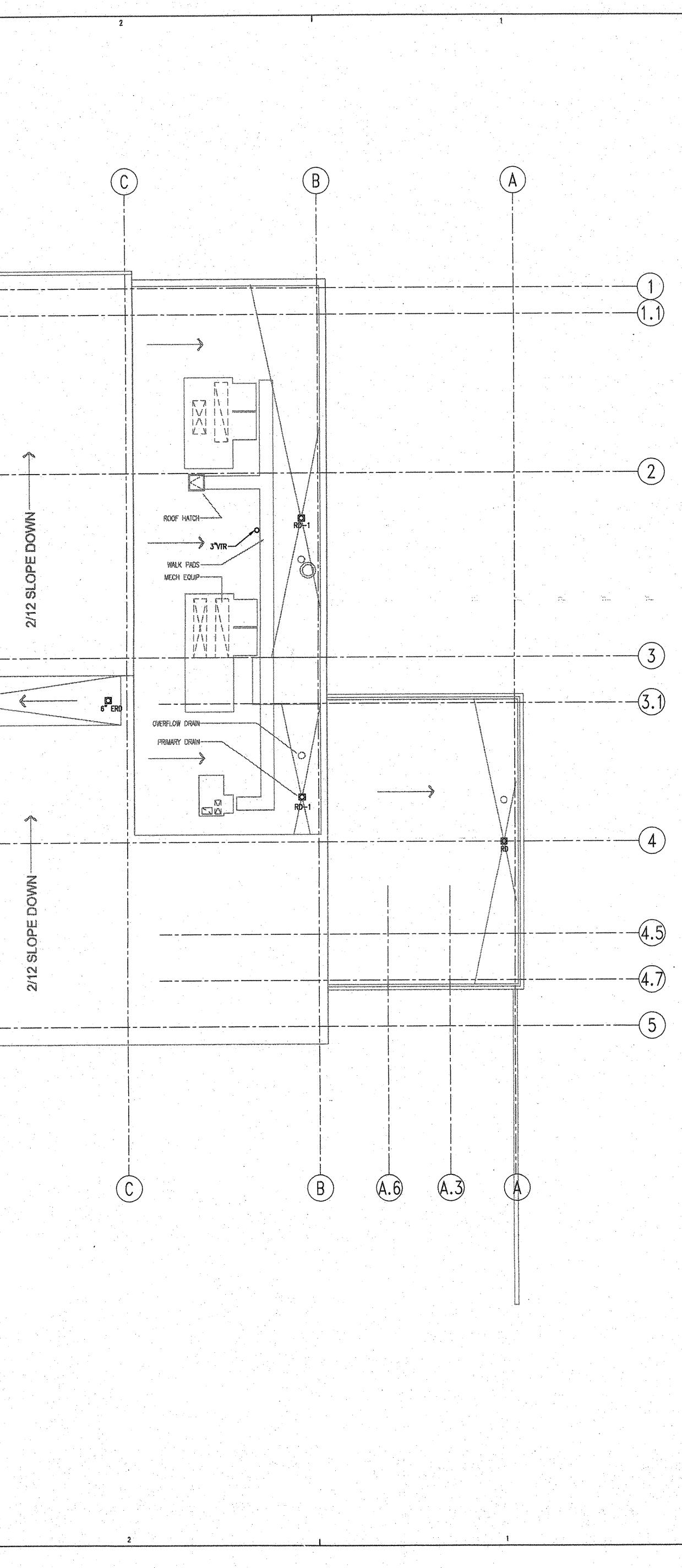


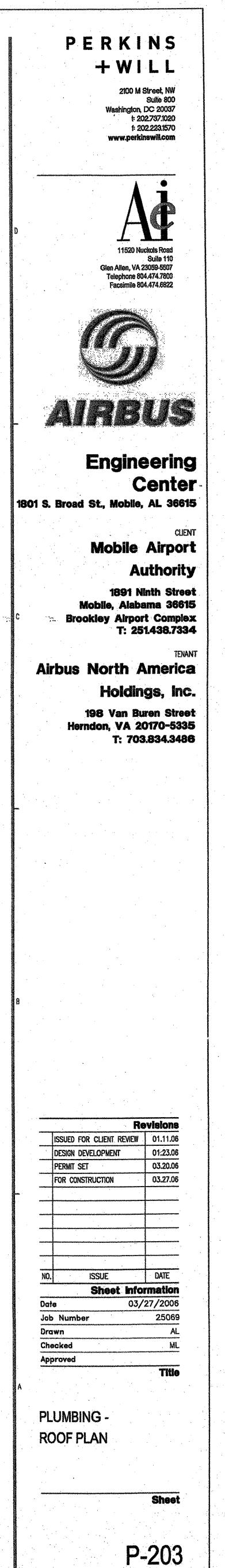
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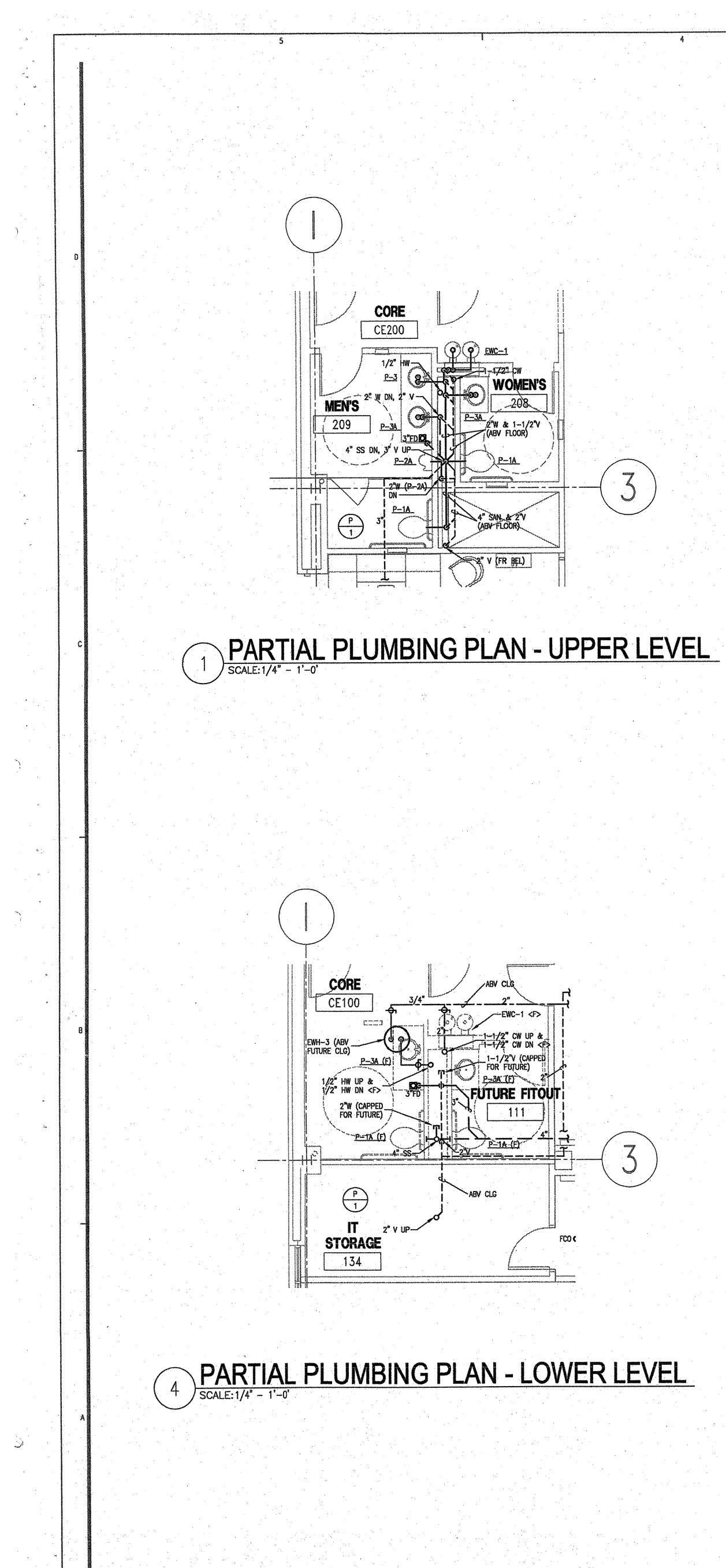
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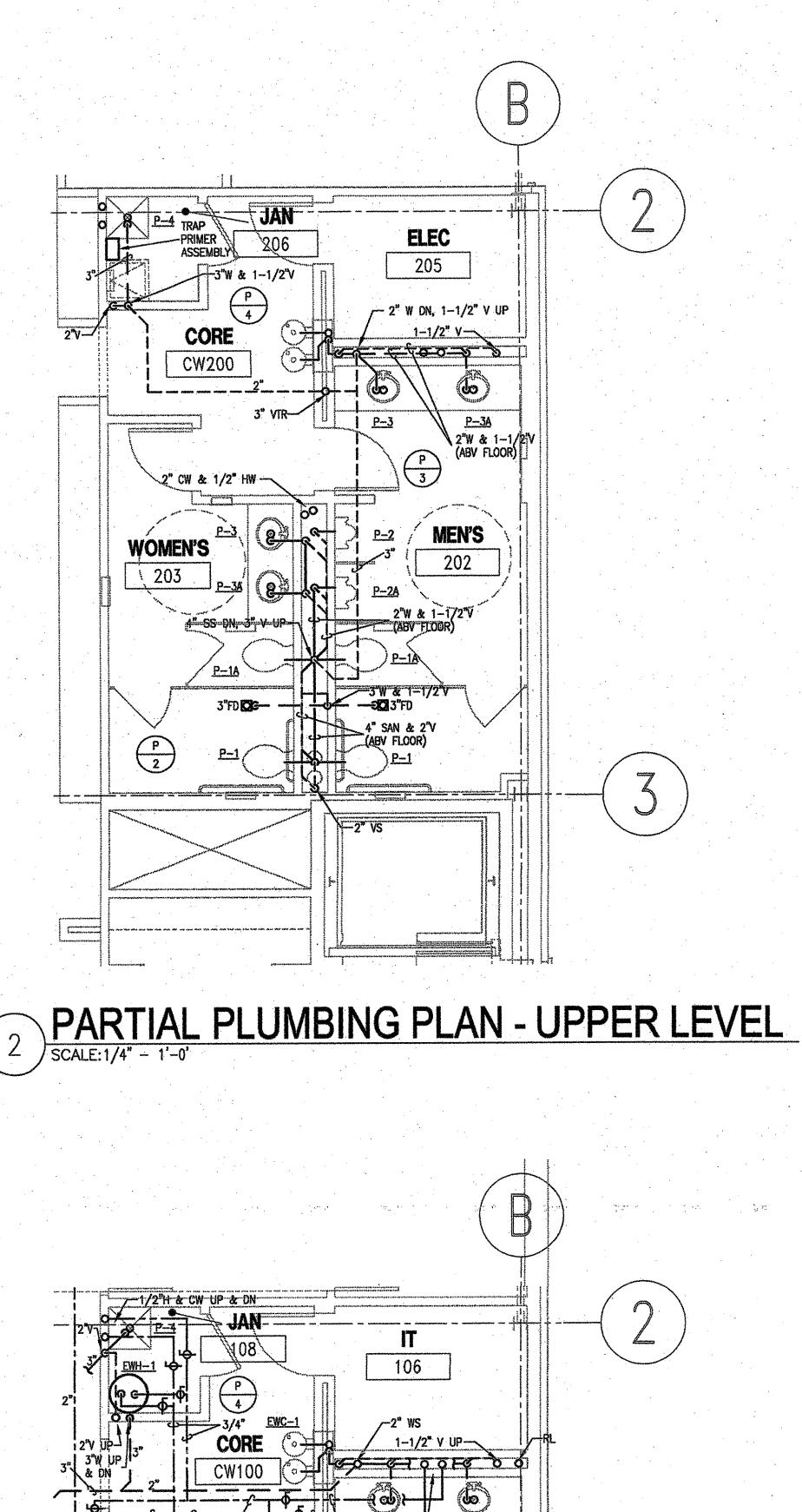


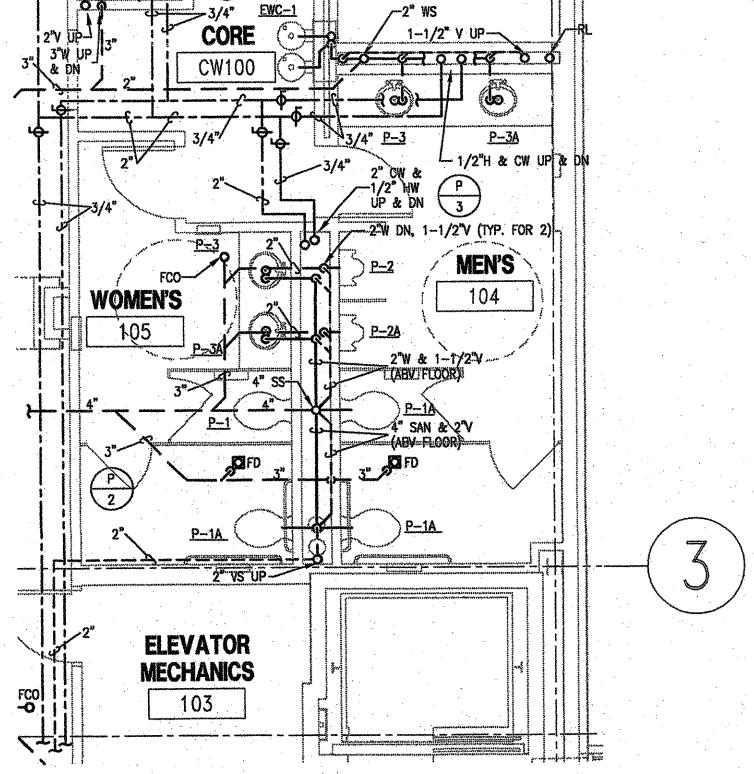
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PRIMARY ORANN TYP	6 ERD	n drain typ 1 2'VTR	6" RD	6" ERD	D-1
1 R SCA	OOF PL	AN - PLUN	1BING	100	
G	F		E	D	



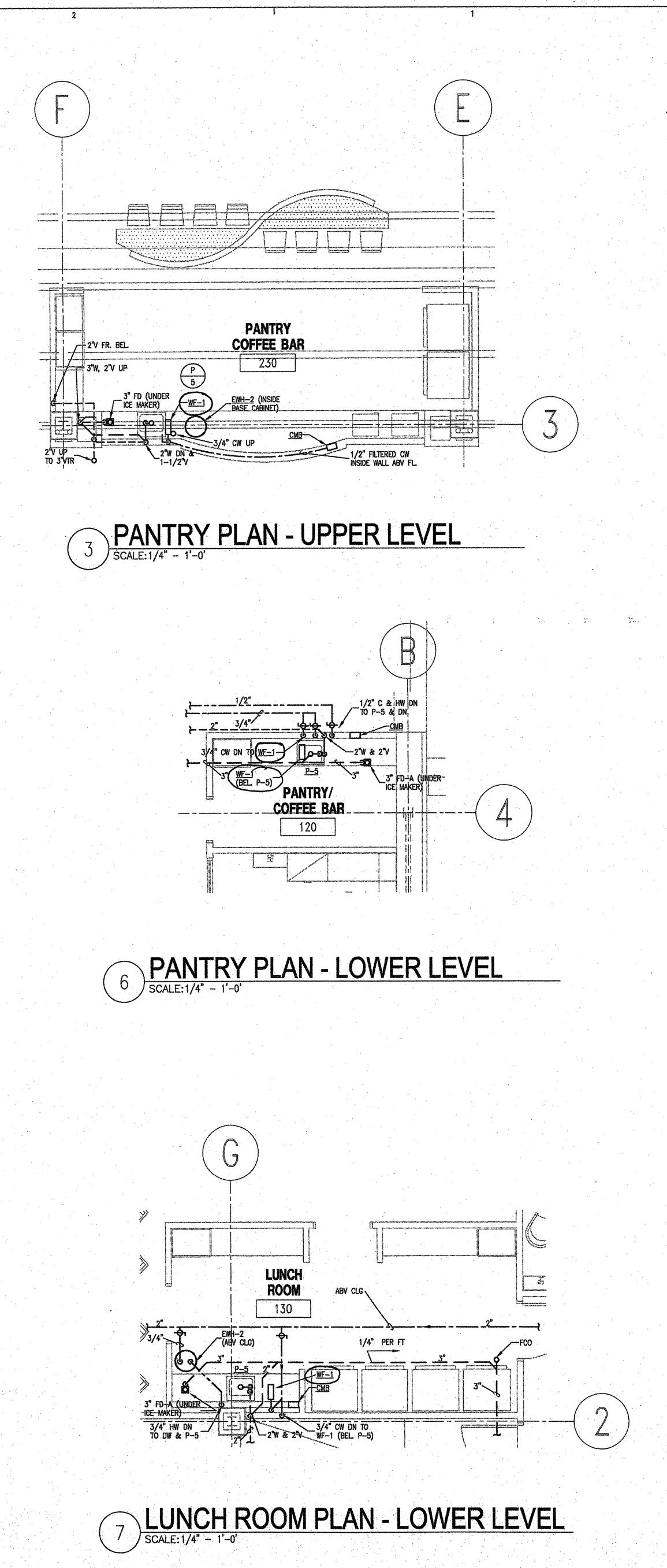


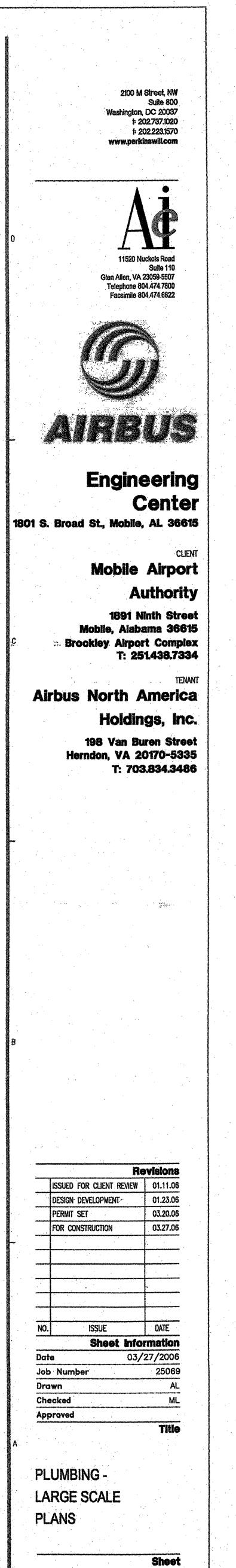




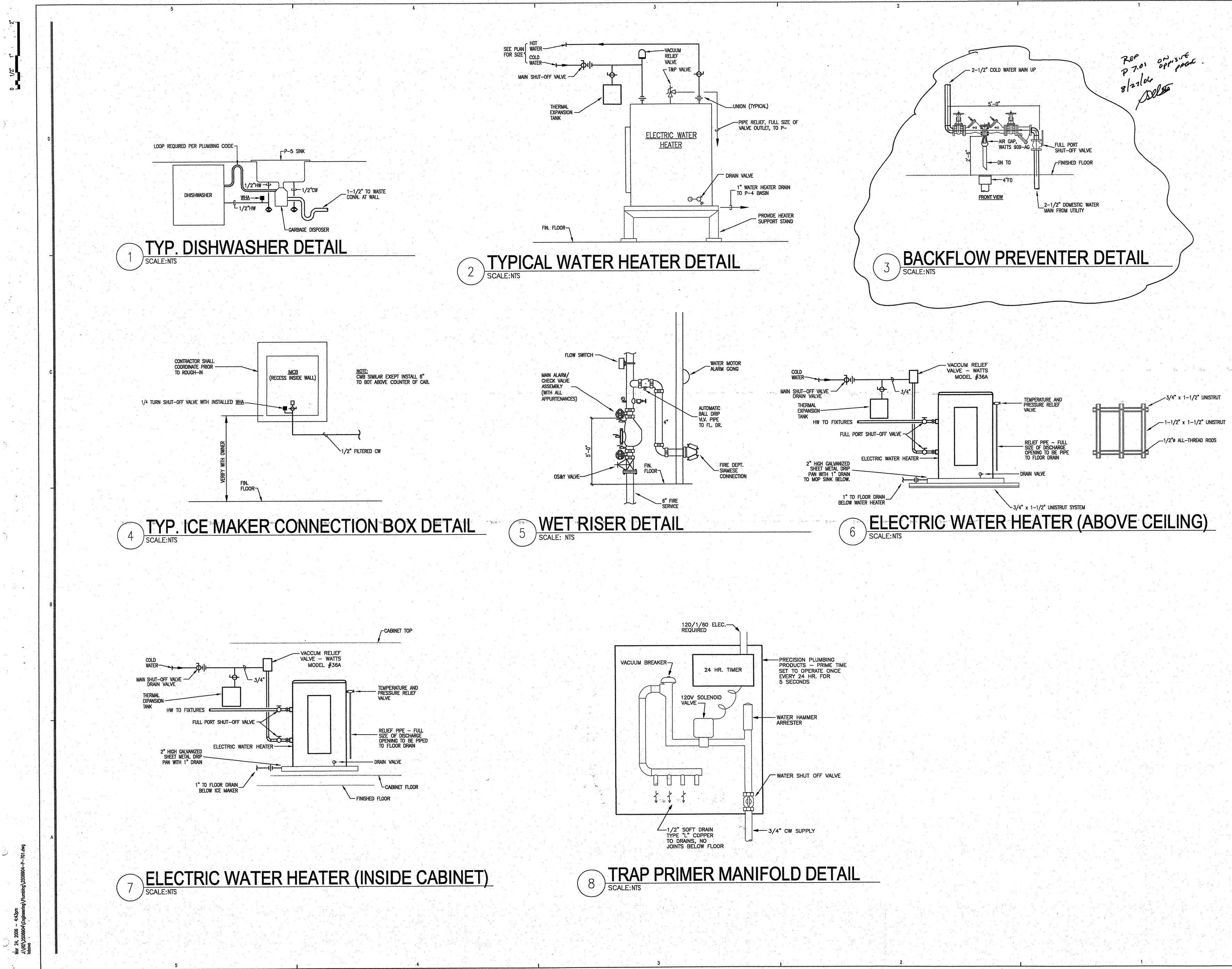


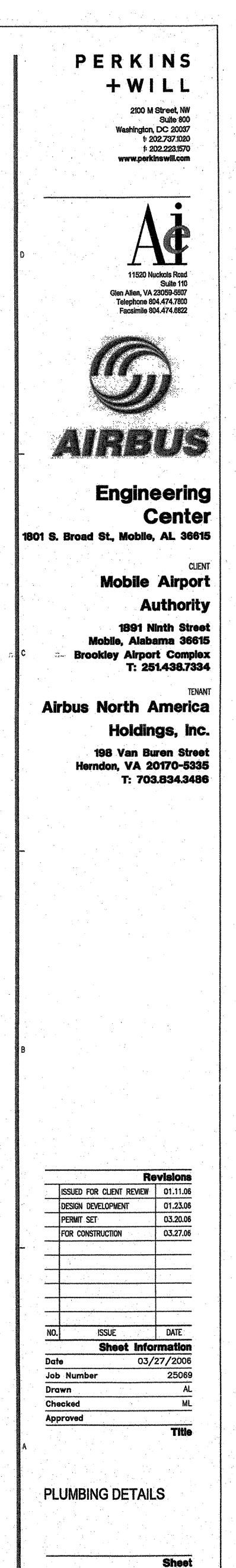
5 PARTIAL PLUMBING PLAN - LOWER LEVEL



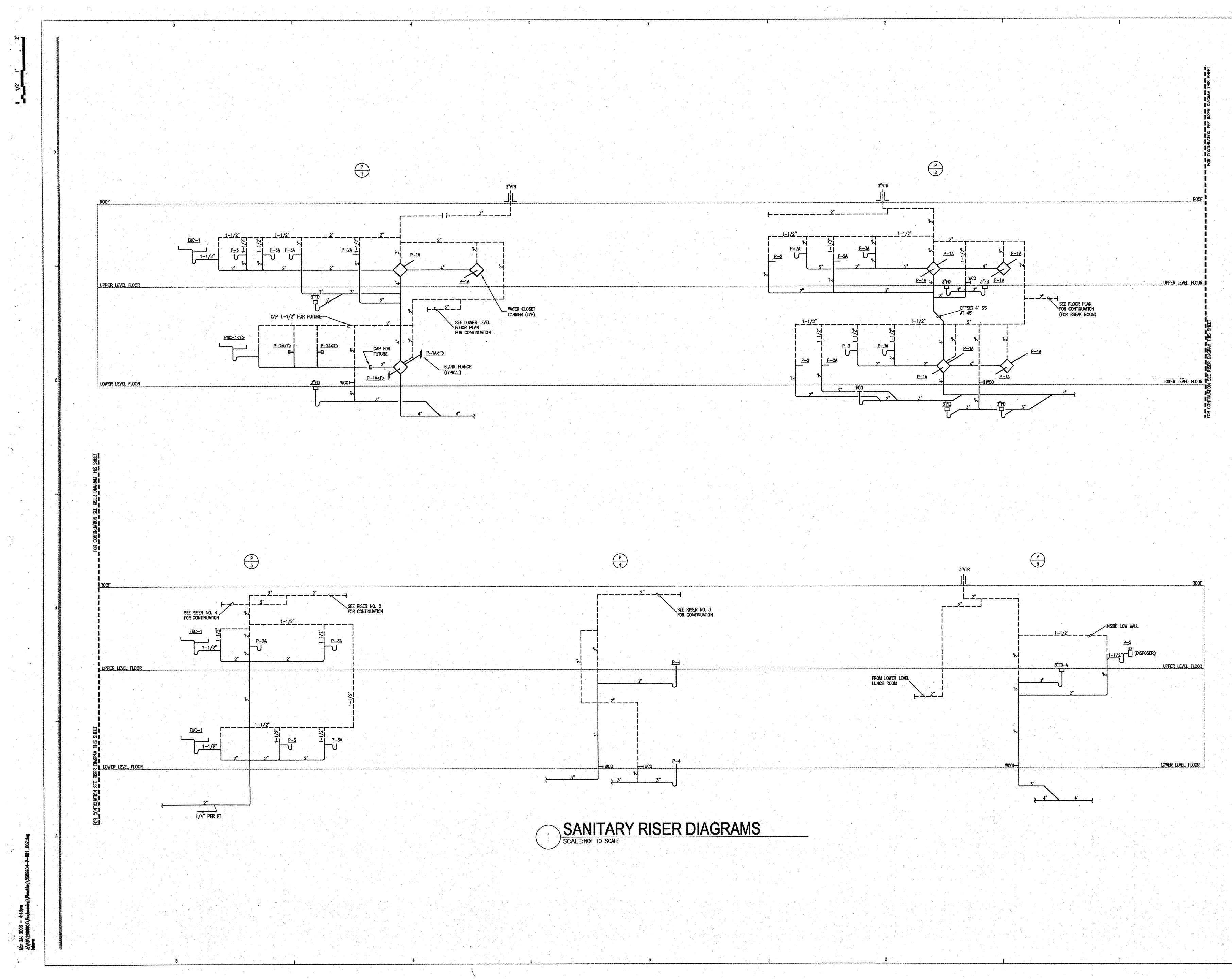


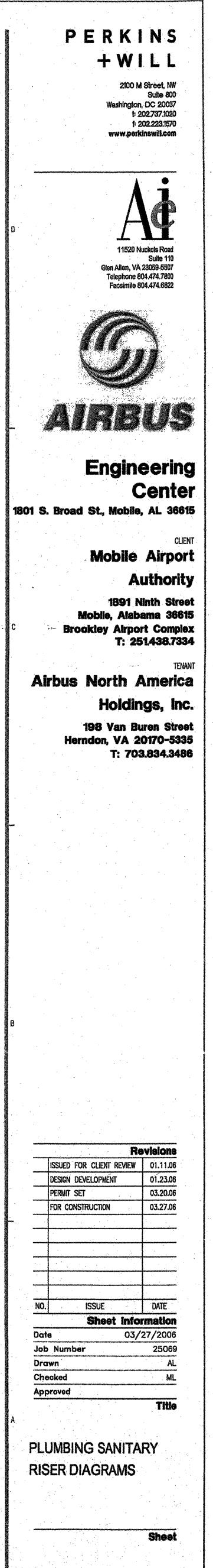
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