



MORE THAN ARCHITECTS

ADDENDUM

NO. 3

TO THE DRAWINGS AND THE PROJECT MANUAL

PROJECT NAME: Humble ISD Creekwood and Riverwood Middle School Additions and Renovations

CLIENT NAME: Humble ISD

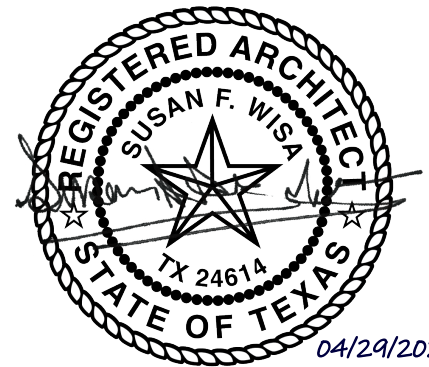
LOCATION: Humble, Texas

PROJECT NUMBER: 1821-13-01, 1821-13-02

PROPOSAL DATE: Thursday, May 8th, 2025, 2:00 PM

ADDENDUM DATE: Tuesday, April 29th, 2025

For additional information regarding this project, contact Ross Morgan at 800.687.1229.

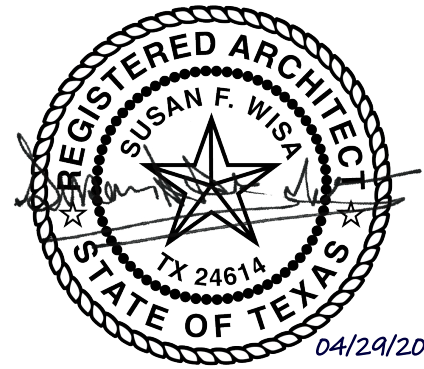


04/29/2025

THIS ADDENDUM INCLUDES:

Civil Items	0 Pages
Landscape Items	0 Pages
Structural Items	0 Pages
Architectural Items	2 Pages
Foodservice Items	0 Pages
Plumbing Items	0 Pages
Mechanical Items	1 Pages
Electrical Items	1 Pages
Technology Items	0 Pages

AND ALL ATTACHED REVISED DRAWING REFERENCES IN THE ADDENDUM



ARCHITECTURAL ITEMS FOR ADDENDUM NO. 3

NOTICE TO PROPOSERS:

- A. This Addendum shall be considered part of the contract documents for the above-mentioned project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original contract documents, this Addendum shall govern and take precedence.
- B. Proposers are hereby notified that they shall make any necessary adjustments in their estimate on account of this Addendum. It will be construed that each Proposer's proposal is submitted with full knowledge of all modifications and supplemental data specified therein. Acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject Proposer to disqualification.

REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

PROJECT MANUAL:

AD No 1, Arch. Item 1: To the Project Manual, "00 2116 – INSTRUCTIONS TO PROPOSERS."

- Replace this section with the attached in it's entirety.

AD No 1, Arch. Item 2: To the Project Manual, "00 4335 – PROPOSAL FORM – SCHEDULE AND SUB-CONTRACTORS."

- Replace this section with the attached in it's entirety.

AD No 1, Arch. Item 3: To the Project Manual, "00 4393 – PROPOSAL SUBMITTAL CHECKLIST."

- Replace this section with the attached in it's entirety.

AD No 1, Arch. Item 4: To the Project Manual, "01 2300 - ALTERNATES."

- Replace this section with the attached in it's entirety.

DRAWINGS:

AD No 1, Arch. Item 5: To the Drawings, Sheet "G5.01 – SCHEDULE OF MATERIALS AND COLORS" - CREEKWOOD

- Wall Finishes section revised.

AD No 1, Arch. Item 6: To the Drawings, Sheet "A4.11 – FINISH PLAN – SECTION A,F" - CREEKWOOD

- Note revised in Lobby A132 to clarify graphics.
- Removed legend regarding alternates.

AD No 1, Arch. Item 7: To the Drawings, Sheet "A4.15 – FINISH PLAN – SECTION E" - CREEKWOOD

- Note added to plan South wall of GYM E101 regarding graphics.
- Note added to plan North wall of CORRIDOR E100 regarding graphics.

AD No 1, Arch. Item 8: To the Drawings, Sheet “A4.18 – INTERIOR ELEVATIONS” - CREEKWOOD

- 7/A4.18 – Dimensions and notes added/revised to clarify graphics scope.
- 9/A4.18 – Dimensions and notes added/revised to clarify graphics scope.

AD No 1, Arch. Item 9: To the Drawings, Sheet “A4.11 – FINISH PLAN – SECTION A,F” - RIVERWOOD

- Note revised in Lobby A132 to clarify graphics.
- Removed legend regarding alternates.

AD No 1, Arch. Item 10: To the Drawings, Sheet “A4.15 – FINISH PLAN – SECTION E” - RIVERWOOD

- Note added to plan South wall of GYM E101 regarding graphics.
- Note added to plan North wall of CORRIDOR E100 regarding graphics.

AD No 1, Arch. Item 11: To the Drawings, Sheet “A4.18 – INTERIOR ELEVATIONS” - RIVERWOOD

- 7/A4.18 – Dimensions and notes added/revised to clarify graphics scope.
- 9/A4.18 – Dimensions and notes added/revised to clarify graphics scope.

AD No 1, Arch. Item 12: To the Drawings, Sheet “R1.00 – GENERAL INFORMATION” - RIVERWOOD

- 1/R1.00 – Detail regarding fall protection at skylights replaced with Roof Plaque detail.

ATTACHMENTS:

AD No 1, Arch. Item 13: See attached “CMS Ext. Vapor Barrier (NESHAP) 3603 W. Lake Houston Pkwy. Specs.pdf” to clarify Abatement Scope of Work.

QUESTIONS RECEIVED:

- 1) On Sheet R1.00/Detail 1 shows a skylight with fall protection. Please confirm the skylights scope of work per this detail. The specs only show specifications about the tubular daylighting devices.
Response: See included revised R1.00. Detail has been removed.
- 2) Do we have to install the fire sprinkler system only on the new extension? Or on the existing building as well?
Response: The entire building is to receive a sprinkler system.
- 3) Please provide the Abatement survey report.
Response: Reports were attached to Addendum 2.

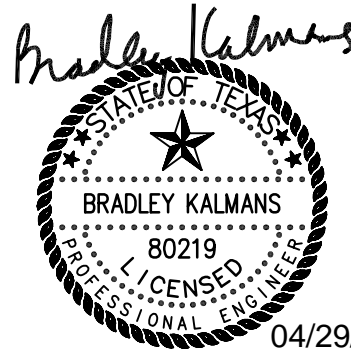
END OF ARCHITECTURAL ADDENDUM

April 29, 2025

Project: Humble ISD- Creekwood MS and Riverwood MS Renovations and Additions

Prepared by: Salas O'Brien Engineers
10930 W. Sam Houston Parkway N., Suite 900
Houston, Texas 77064

SOBE Project No.: 2022-05088



PART A CHANGES TO PRIOR ADDENDUM

1. None

PART B CHANGES TO THE PROJECT MANUAL

1. None

PART C CHANGES TO THE DRAWINGS

Creekwood MS

1. M6.11 – MECHANICAL SCHEDULES
 - a. Revise air handling unit schedule.
 - b. Revise CHILLED & HOT WATER FAN/COIL UNIT schedule.
 - c. Replace sheet in its entirety.
2. E3.11 – ELECTRICAL POWER FLOOR PLAN – SECTION A
 - a. Add 120v branch circuitry to AHU-3, OAFUCU-1, and FCU-9 for air purification.
 - b. Replace sheet in its entirety.
3. E3.12 – ELECTRICAL POWER FLOOR PLAN – SECTION B
 - a. Add 120v branch circuitry to RMAHU-1, RMUA-1, FCU-6, FCU-7, FCU-8 for air purification.
 - b. Add keyed notes 4 and 5.
 - c. Replace sheet in its entirety.
4. E3.13 – ELECTRICAL POWER FLOOR PLAN – SECTION C
 - a. Add 120v branch circuitry to FCU-5 for air purification.
 - b. Add keyed notes 6 and 7.
 - c. Replace sheet in its entirety.
5. E3.14 – ELECTRICAL POWER FLOOR PLAN – SECTION D
 - a. Add 120v branch circuitry to FCU-1, FCU-2, FCU-3 for air purification.
 - b. Add keyed notes 2 and 3.
 - c. Replace sheet in its entirety.
6. E6.11 – ELECTRICAL PANEL SCHEDULES
 - a. Panel LE, add branch circuit 23.
 - b. Replace sheet in its entirety.
7. E6.12 – ELECTRICAL PANEL SCHEDULES
 - a. Panel LC3, add branch circuit 19.
 - b. Replace sheet in its entirety.

Riverwood MS

1. M6.11 – MECHANICAL SCHEDULES

- a. Revise air handling unit schedule.
 - b. Replace sheet in its entirety.
- 2. E3.11 – ELECTRICAL POWER FLOOR PLAN – SECTION A
 - a. Add circuit LE-16 to AHU-3 for air purification.
 - b. Replace sheet in its entirety.
- 3. E3.12 – ELECTRICAL POWER FLOOR PLAN – SECTION B
 - a. Add 120v branch circuitry to RMAHU-1, RMUA-1 for air purification.
 - b. Replace sheet in its entirety.
- 4. E6.11 – ELECTRICAL PANEL SCHEDULES
 - a. Panel LC3, add branch circuit 18.

PART D RE-ISSUED DRAWING SHEET (30"X42")

Creekwood MS

- 1. M6.11 – MECHANICAL SCHEDULES
- 2. E3.11 – ELECTRICAL POWER FLOOR PLAN – SECTION A
- 3. E3.12 – ELECTRICAL POWER FLOOR PLAN – SECTION B
- 4. E3.13 – ELECTRICAL POWER FLOOR PLAN – SECTION C
- 5. E3.14 – ELECTRICAL POWER FLOOR PLAN – SECTION D
- 6. E6.11 – ELECTRICAL PANEL SCHEDULES
- 7. E6.12 – ELECTRICAL PANEL SCHEDULES

Riverwood MS

- 1. M6.11 – MECHANICAL SCHEDULES
- 2. E3.11 – ELECTRICAL POWER FLOOR PLAN – SECTION A
- 3. E3.12 – ELECTRICAL POWER FLOOR PLAN – SECTION B
- 4. E6.11 – ELECTRICAL PANEL SCHEDULES

PART E NEW DRAWINGS SHEETS (30"X42")

- 1. None

PART G QUESTIONS/CLARIFICATIONS

- 1. None

PART H. ATTACHMENTS

- 1. None

END OF ADDENDUM 3

**SECTION 00 2116
INSTRUCTIONS TO PROPOSERS**

INSTRUCTIONS TO PROPOSERS - CSP# 2025-07

1.01 RECEIPT AND OPENING OF PROPOSALS

- A. Competitive sealed proposals will be received from qualified Proposers in care of Dr. Roger Brown, Superintendent of Schools, Humble ISD, Humble, Texas. The Proposal responses shall be received via Humble ISD's online bidding system in two parts follows: **Base Bid of the Proposal shall be received until 2:00PM, THURSDAY, MAY 8, 2025 and Alternates of the Proposal shall be received until 3:00PM, THURSDAY, MAY 8, 2025.** All proposals must be submitted via the District's online bidding system, before the scheduled time and date for proposal opening. Proposers are to have all forms, required attachments, and all required lines completed and the **SUBMIT RESPONSE** button completed prior to 3:00PM, THURSDAY, MAY 1, 2025, or the system will shut them out and no response will be submitted. Please plan ahead. Proposal responses will be opened and read aloud for the furnishing of all labor, materials, equipment, and performing all work required for Creekwood and Riverwood Middle School Additions and Renovations for Humble ISD, Humble, Texas, and in compliance with Project Manual, drawings, and other contract documents as prepared by Huckabee.
- B. The primary purposes of the evaluation process will be to:
 - 1. Gather information for the Owner's evaluation procedure.
 - 2. Enable the Owner and/or Architect to evaluate the Offeror's qualifications.
- C. After review of Proposals and Contractor's qualifications evaluation the Owner will make his decision and each Offeror will be notified once board approval has been obtained.
- D. In arriving at his opinion concerning the Offeror's qualifications, the Architect will use the same criteria that the Owner will use in determination of the successful Offeror as detailed hereinafter.
- E. **There will be a Pre-Proposal Meeting held at 2:00 pm, Tuesday, April 15, 2025 15, 2025 , at Humble ISD Maintenance Department, 1703 Wilson Road, Building B, Humble, Texas 77396. Attendance is highly recommended.**
 - 1. Campus tours will occur immediately following the Pre-Proposal Meeting.
- F. The Bid Opening Meeting will be held at 3:00 pm, Thursday, May 1, 2025 at Humble ISD Maintenance Department, 1703 Wilson Road, Building B, Humble, Texas 77396 or via zoom. Attendance is not required.
 - 1. ZOOM Meeting Information:
 - a. <https://humbleisd.zoom.us/j/88446091519pwd=2DAVMNutMNt0wvL4RBHwTNMdyJIzvm>.
 - 1) Meeting ID: 884 4609 1519
 - 2) Passcode: 087361

1.02 PREPARATION OF PROPOSAL

- A. The A305 Document must be accompanied by a listing of the Offeror's projects of similar size and scope during the past five (5) years. The listing shall include the project name, address, building area, contract sum, contract date, contract completion date(s), substantial completion date(s), Owner representative's name, telephone number, e-mail address and the names of the Contractor's project staff assigned to the project. In addition, the General Contractor shall include in this submission the following information regarding the Contractor's Proposed Project Team:
 - 1. Name of the Proposed Project Executive.
 - 2. Name of the Proposed Project Manager.
 - 3. Names of Proposed Assistant Project Managers or Project Engineers.
 - 4. Name of Proposed Project Superintendent.

5. Name of Proposed Assistant Project Superintendent.
 6. Name of Proposed Field Engineer.
 7. Names of any proposed project support staff.
- B. The General Contractor shall include a resume of qualifications for each of the project personnel proposed.
- C. In addition, include a written summary describing the roles each person will have on the project team and what percentage of time each person will dedicate to this project on a weekly basis. In addition, the contractor shall indicate where each staff member will office (onsite or main office).
- D. **A pdf copy of the A305 should be uploaded with Offeror's proposal on District's online proposal system.**
- E. The Proposer shall complete Proposal Form 00 4200 on Line Items tab through Districts' bidding system. The Proposer's CSP response shall be completed online and will consist of the following:
1. Section 00 4200 - responses on Line item.
 2. Cashier's check, Certified check or District acceptable Bid Bond for no less than five (5%) percent of the largest possible total for response submitted - uploaded to Response Attachment tab Section 00 4214.10.
 3. Acknowledgement of any Addendum issued (on Attributes tab).
 4. Construction Schedule - Section 00 4335
 5. Provide Subcontractor's List - Section 00 4335
- F. The successful Proposer will be required to enter into a contract with the Humble ISD and to furnish a Performance and Payment Bond of approved form through an approved bonding company duly authorized to do business in the State of Texas, and currently listed in the Department of Treasury Federal Register, in the amount of not less than 100% of the contract price, conditioned upon the performance of the contract. Performance and Payment Bonds shall be in full compliance with Texas Government Code Chapter 2253. AIA Bonds (AIA Document A312) do not comply. Bonding Companies using "Reinsuring Insurance Companies" to expand the Bonding Companies Bonding Limits will not be acceptable unless also approved by the Owner.

1.03 WAGE RATES

- A. Attention is called to the fact that the Contractor must comply with all Federal, State and Local labor laws, including Chapter 2258 Texas Government Code Title 10, which requires that the Contractor pay not less than the following prevailing wage rates and rates for legal holidays and overtime, which have been ascertained by the awarding body and listed in Section 00 7343 - Wage Rate Requirements.

1.04 DISCLOSURE OF INTERESTED PARTIES

- A. Please download the Instructions for Form 1295, execute and upload the completed Form 1295 on the Response Attachments tab of the online bidding system.
- B. Failure to upload completed Form 1295 will disable the SUBMIT RESPONSE button. It is Humble ISD requirement to have this form with each CSP response.

1.05 PROPOSAL GUIDELINES

- A. Attention is called to the fact that the Owner is exempt from the payment of the State Sales Tax normally levied against material costs. The contract sum, as identified by the Proposal, shall not include any allowance for the payment of State Sales Tax on materials required to complete the work. The successful Proposer, upon award of the contract, will be furnished with a permit number, which will enable him to purchase the required materials without payment of such taxes.

- B. The Project Manual and Drawings may be examined, without charge, via Electronic Documents (PDF Files) downloaded at www.huckabee-inc.com.
- C. The Architect will supply Project Manual and Drawings to various plan rooms where it appears to be in the Owner's interest to do so.
- D. All definitions set forth in the General Conditions of the Contract for Construction, AIA Document A201, and the Supplementary General Conditions included in the Project Manual are applicable to the Instructions to Proposers.
- E. Contract Documents include the Advertisement or Invitation for Proposal, Instructions to Proposers, the Proposal Form, and the proposed contract documents (drawings and project manual), including any addenda issued prior to receipt of competitive sealed proposals.
- F. Certain references to Owner's Documents will be obsolete due to the new online bidding procedure of submission of proposal and forms through Humble ISD's online bidding system. Offerors intending to submit proposals for this project should visit the website for Humble ISD at <http://humbleisd.ionwave.net/Login.aspx> to register and access all of the Owner's required forms, certifications and enter Base Proposal, Alternates Proposal, Unit Pricing and other required items.
- G. Addenda are written or graphic instruments issued prior to the execution of the contract which modify or interpret the proposal documents, including drawings and project manual, by additions, deletions, clarifications or corrections and should be acknowledged by the Proposer on the Proposal form. Addenda will become part of the contract documents when the construction contract is executed. All project ADDENDA will be issued through the Districts' online bidding system. Interested proposers should be registered in order to receive these Addenda. It is Proposers' responsibility to check the project for Addenda issued and review the Questions tab for the project. NO ADDENDA WILL BE MAILED OR FAXED TO ANY PLANHOLDER.
- H. Each Proposer, by making a competitive sealed proposal, represents that he has carefully studied, compared, and understands the contract documents including any and all addenda items.
- I. Each Proposer, by making a competitive sealed proposal, represents that he has familiarized himself with and understands the local conditions under which work is to be performed, including prevailing subsurface conditions.
- J. All Competitive Sealed Proposal (CSP) responses must be submitted with all other required material in accordance with the Instructions to Proposers - 00 2116. When the proposal contains multiple "Bid Items", it shall be understood that the Owner may award each Proposal Item separately, or in any combination that the Owner chooses.
- K. A proposal is invalid if it has not been deposited at the designated location prior to the time and date for receipt of proposals indicated in the Advertisement or Invitation for Proposal or prior to any extension thereof issued to the Proposers.
- L. Unless otherwise provided in any supplement to the Instruction to Proposers, no Proposer shall modify, withdraw or cancel his proposal or any part thereof for sixty (60) days after the time designated for the receipt of proposals in the Advertisement or Invitation for Proposal.
- M. Each Proposer represents that his competitive sealed proposal is based upon the material and equipment described in the contract documents.

- N. Each Proposer shall carefully study and compare the proposal documents, and shall make request for interpretation or correction of any ambiguity, inconsistency or error therein which he may discover. All questions and are to be asked in IonWave "Questions" tab by 3:00 pm, April 21, 2025. Any interpretation or correction will be issued in a written addendum by the Architect and distributed via the Districts' online bidding system to registered/invited General Contractors. Only a written interpretation or correction by an addendum shall be binding. No Proposer shall rely upon any interpretation or correction given by any other method.
- O. No substitution will be considered unless written request has been submitted to the Architect for approval at least seven (7) days prior to the date for receipt of proposals. Each such request shall include a complete description of the proposed substitute, the name of the material or equipment for which it is to be substituted, drawings, cuts, performance and test data and any other data or information necessary for a complete evaluation.
- P. If the Architect approves any proposed substitution, such approval will be set forth in a written Addendum issued by Architect and distributed via the Districts' online bidding system to registered/invited General Contractors.
- Q. Should the particular equipment, which any bidder proposes to install, require other space conditions other than those shown on the drawings, he shall arrange for such space with the Architect before submitting a bid. Should changes become necessary because of failure to comply with this requirement, the contractor shall be fully responsible for making such changes. The contractor shall be required to submit working drawings of all equipment, which varies from the drawings and the project manual, and any interference must be eliminated before work proceeds.
- R. The Proposer acknowledges the right of the Owner to reject any or all proposals and to waive any informality or irregularity in any proposal received. In addition, the Proposer recognizes the right of the Owner to reject a proposal if the Proposer failed to furnish any required bid security or to submit the data required by the contract documents, or if the proposal is in any way incomplete or irregular.
- S. By submitting a proposal, each proposer agrees to waive any claim it has or may have against the Owner, the Architect/Engineer, and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any proposal; waiver of any requirements under the Bid Documents; or the Contract Documents; acceptance or rejection of any proposals; and award of the Contract.
- T. In case of ambiguity or lack of clearness in stating the price in the Proposal, the Owner reserves the right to adopt the price written in words or to reject the Proposal.

PROPOSAL EVALUATION PROCESS AND PROCEDURES

2.01 COMPETITIVE SEALED PROPOSAL EVALUATION AND RANKING PROCEDURES

- A. The following procedures shall be used to evaluate and recommend a construction contractor for selection by the School District through the use of Competitive Sealed Proposals, as authorized in Texas Government Code 2269.

2.02 PROPOSAL EVALUATION COMMITTEE

- A. For each construction project utilizing the Competitive Sealed Proposal method of procurement, the School Board shall convene a Proposal Evaluation Committee (Committee) may be comprised from of the following individuals:
 - 1. School Board Members
 - 2. School Administration
 - 3. District's Financial Officer or Consultant
 - 4. Staff
 - 5. Project Architect
 - 6. Project Engineer

7. Program Manager

2.03 PROPOSAL EVALUATION COMMITTEE FUNCTION

- A. The Committee shall perform an evaluation of all submitted Proposals and shall recommend an order of selection ranking of all Proposers to the School Board. The following procedures shall be used by the Committee in the evaluation process:
1. Proposals are to include the information requested in this of this Request in the sequence and format prescribed. In addition to and separate from the requested information, offerors submitting proposals may provide supplementary materials further describing their capabilities and experience.
 2. Following the deadline for receipt, the District's staff will receive, publicly open, and read aloud the names of the offerors and, if any are required to be stated, all prices stated in the proposals. The District's staff will recommend that the District select a construction contractor from the respondents to this Request for Proposals or reject all proposals.
 3. The recommended ranking shall be based on the data furnished by the offerors in response to the request for CSPs. The following is a list of criteria and weight for each criterion. Unless modified by addendum prior to opening of the proposals, the following listing of criteria and weight of criteria shall be utilized by the District pursuant to Texas Government Code Chapter 2269, Subchapter D:

Evaluation Criteria	Max Score: 100 points	All Criteria Scores
1. Extent of the firm's experience in the construction/renovation of educational facilities of comparable size and complexity in the greater Houston area construction market. Location/Page # _____	15 points	
2. Whether the team personnel proposed have the appropriate experience and capabilities for the project. Also provide the proposed team's current commitments. Location/Page # _____	10points	
3. Whether the firm has demonstrated the capability to meet project schedules and budgets. Provide the following project information for the last 5 years: original contractual completion date, original contract amount and final contract amount. Location/Page # _____	10 points	
4. How long the firm has been in business, and whether the firm's organizational structure, licensing and financial information indicate that the firm is capable of successfully completing this project. Location/Page # _____	10points	
5. The firm's responsiveness and completeness regarding the Request for Qualifications submittal. Location/Page # _____	5 points	
6. The firm's safety and drug abuse programs, and history of safety performance. Location/Page # _____	3 points	
7. Whether the firm has previously worked for the District, and whether the work was satisfactory to the District. Location/Page # _____	2 points	
8. Responses from the firm's references. Do not enter score on this sheet. Score will be inserted on summary sheet. Location/Page # _____	5 points	

9. Price. Location/Page # _____	40 points	
Grand Total Score:	100	

4. All responses in the proposal may be used to help the District select a contractor based on these criteria. The District reserves the right to verify the accuracy and completeness of all response by utilizing any information available to the District without regard to whether such information appears in the proposal. See Selectoion Criteria and Contrator Information Sheet attached following this document.

2.04 COMPETITIVE SEALED PROPOSALS PREPARATION AND SUBMISSION

A. PREPARATION

1. The Proposal shall be based on conditions at the project site, the project Drawings and Specifications and any addenda issued.
2. A Proposal showing omissions, alterations, conditions, or carrying riders or other qualifiers, which modifies the Proposal, may at the Owner's discretion, be rejected as irregular.

B. SUBMISSION

1. If the Proposer chooses to issue a "No Response" (Enter "0" in the Online System) to a question on the Proposal, an explanation of this action is required. Failure to provide an adequate explanation may be viewed by the Owner as an incomplete response and may subject the entire Proposal to rejection or at a minimum a score of zero (0) will be given for that category.
2. Only one Proposal may be submitted by each Proposer.
3. Proposals not submitted prior to published or amended Response date/time will not be accepted by the Districts' online bidding system. Responders will be locked out of their response and their response will be incomplete.
4. A Proposer will receive no compensation or reimbursement of expenses incurred in of the preparation of a Competitive Sealed Proposal submission.
5. The Owner reserves the right to reject any or all Proposals, and waive any and/or all formalities.

2.05 PUBLIC INFORMATION AND NOTICE OF CONFIDENTIALITY

- A. The Owner considers all Proposal information, documentation and supporting materials submitted in response to this Proposal request to be non-confidential and/or non-proprietary in nature, and therefore, shall be subject to the public disclosure under the Texas Public Information Act (Texas Government Code, Sec. 552.001, et seq.) after the award of the contract. See ATTRIBUTES Tab in Districts' online bidding system.
- B. The Proposer must identify and designate those portions of their technical Proposal that contains trade secrets or other proprietary data. If the Proposal includes such data, the Proposer shall. See ATTRIBUTES Tab in Districts' online bidding system.
 1. Mark the cover sheet of the Technical Proposal with the following phrase: "This Proposal includes data that shall not be disclosed outside the School District and the A/E design team and shall not be duplicated, used or disclosed in whole or in part for any purpose other than to evaluate the Proposal."
 2. Mark each sheet and the specific data on that sheet that the Proposer wishes to restrict with the following phrase: "Use or disclosure of the specifically marked data is subject to the restrictions regarding confidentiality cited on the cover sheet of this Proposal."

2.06 OWNERSHIP OF COMPETITIVE SEALED PROPOSAL

- A. Submitted Proposals, documentation and supporting material shall become the property of the Owner.

2.07 SITE INVESTIGATION

- A. It is the responsibility of each Proposer to examine the project site, existing improvements and adjacent property and be familiar with existing conditions before submission of Proposal.
- B. After investigating the project site and comparing the Project Manual and Drawings with the existing conditions, the Proposer should immediately notify the A/E of any conditions for which requirements are not clear, or about which there is any question regarding the extent of the work involved.
- C. Should the successful Proposer fail to make the required investigation and should a question arise after award of the contract as to the extent of the work involved in any particular case, after receiving recommendations from the A/E, the Owner will make the interpretation of the Contract Documents.

2.08 EVALUATION AND CONTRACT AWARD PROCESS

- A. Proposals will be opened publicly to identify the names of the Proposer and their respective proposed contract amount. Other contents of the Proposals will be afforded security sufficient to preclude disclosure of the contents prior to award or rejection action.
- B. Proposals will be evaluated by the Proposal Evaluation Committee as set forth in 2.02.A. The criteria for evaluation and selection of the successful Proposer for this award will include the factors listed in 2.03.A.4.
- C. Within sixty (60) calendar days after opening the Proposals, the Owner will evaluate and rank each Proposal with respect to the published selection criteria described under Paragraph 2.03. After opening and ranking, an award may be made on the basis of the initially submitted Proposal, without discussion, clarification or modification, or the Owner may discuss with the selected Proposer any element of the Proposal. Other than the data read at the Proposal opening, the Owner shall not disclose any information derived from the Proposals submitted by competing firms in conducting such discussions. If the Owner determines that it is unable to reach a satisfactory agreement with the first ranked Proposer, the Owner will terminate discussions with that Proposer. The Owner will then proceed with negotiations with each successive Proposer as they appear in the order of ranking until an agreement is reached, or until the Owner has rejected all Proposals. After termination of discussions with any Proposer, Owner will not resume discussions with that Proposer.
- D. The Owner reserves the right to accept or reject any or all alternates or to accept any combination of alternates considered advantageous to the Owner.
- E. The award or rejection action regarding this Proposal is at the sole discretion of the Owner and the Owner makes no warranty regarding this Proposal that a contract will be awarded to any Proposer.
- F. The Owner agrees that if the Contract is awarded, it will be awarded to the Proposer offering the best value to the Owner, based upon the published selection criteria, and upon its ranking evaluation. The Owner is not bound to accept the lowest priced Proposal if that Proposal is judged not to be the best value for the Owner, as determined by the Owner.
- G. No work may begin without the receipt of District Purchase Order, no exceptions.

END OF SECTION

**SECTION 00 4335
PROPOSAL FORM - SCHEDULE AND SUB-CONTRACTOR'S LIST**

DATE _____

TO:

DR. ROGER BROWN, SUPERINTENDENT OF SCHOOLS, HUMBLE ISD, HUMBLE, TEXAS.

1.01 THE PROPOSAL RESPONSES SHALL BE RECEIVED VIA HUMBLE ISD'S ONLINE BIDDING SYSTEM UNTIL:

- A. Base Bid of the Proposal shall be received until 2:00pm, Thursday, May 8, 2025**
- B. Alternates of the Proposal shall be received until 3:00pm, Thursday, May 8, 2025**

1.02 KEY PROJECT PERSONNEL:

Given the scope and schedule of the project, identify all proposed personnel for this project including but not limited to the Project Manager, Estimator, and Superintendent who would work on the project. Provide a resume and references for each individual. Note current projects on which individual is working including the project name, location, contract amount, percent complete, and the completion date of those projects. Also note the length of tenure with your company (hire date) for each proposed individual. Provide an organizational chart for this project noting whether the individual is On Site or Off Site. This organizational chart shall become part of the Owner – Contractor Agreement AIA Document A101. Members of the proposed team, once approved, shall not be changed without prior written approval of the Owner.

1.03 CONSTRUCTION SCHEDULE:

The Proposer shall submit a schedule for this project. Schedule shall be submitted in Gantt Chart format.

State your organization's project plan or proposed approach to this project.

If selected, this proposed schedule shall become part of the Owner – Contractor Agreement AIA Document A101.

1.04 SUBCONTRACTORS:

Provide a list of all the major Subcontractors and Suppliers for each trade for this project on the form attached following this document.

You may provide a maximum of three (3) proposed Sub-contractors for each category. However, no additional Sub-contractors will be considered after submission of this list.

END OF SECTION

**SECTION 00 4393
PROPOSAL SUBMITTAL CHECKLIST**

THE FOLLOWING ITEMS ARE TO BE SUBMITTED TO HUMBLE ISD, AS DESCRIBED IN SECTION 00 2116 - INSTRUCTIONS TO PROPOSERS:

1.01 NOTE: ALL PROPOSALS MUST BE ELECTRONIC.

1.02 PROPOSAL FORM: PRE-QUALIFICATIONS

SUBMITTED TO HUMBLE ISD THROUGH THE DISTRICT'S ONLINE BIDDING SYSTEM

- A. ☐ Contractor's References – minimum five (5) references including information as outlined in Section 00 4335.
- B. ☐ Contractor's Qualification Statement AIA Document A305

1.03 PROPOSAL FORM, RESPONSES AND ATTACHMENTS:

SUBMITTED TO HUMBLE ISD THROUGH THE DISTRICT'S ONLINE BIDDING SYSTEM.

- A. ☐ Proposal Form A.1 - Base Bid, **NO LATER THAN 2:00 P.M.**
- B. ☐ Proposal Form A.2 - Alternates, **NO LATER THAN 3:00 P.M.**
- C. ☐ Proposers are to have all forms, required attachments, and all required lines completed and the **SUBMIT RESPONSE** button completed prior to **3:00 PM. on THURSDAY, MAY 8, 2025**, or the system will shut them out and no response will be submitted. Please plan ahead.

END OF SECTION

**SECTION 01 2300
ALTERNATES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Description of Alternates.
- B. Procedures for pricing Alternates.

1.02 RELATED REQUIREMENTS

- A. Document 00 2116 - Instructions to Proposers

1.03 PROCEDURES

- A. Proposers are required to submit alternate proposals to add work or to deduct work from the base proposal as described below. Failure to submit alternate amounts in spaces provided on proposal form is basis for disqualification of proposal.
- B. The successful proposer shall not modify, withdraw or cancel any of the alternate proposals or any part thereof for 45 days after date of receipt of proposals, unless specifically noted otherwise.
- C. Contractor shall be responsible for any changes in the work affected by acceptance of these alternates. Include within the alternative proposal prices all costs, including materials, installations, and fees.
- D. Claims for additional dollars resulting from changes caused by the alternates will not be allowed.
- E. Refer to the drawings and project manual for items of work affected by alternates.
- F. Alternates will be exercised at the option of the Owner.
- G. Coordinate related work and modify surrounding work as required to complete the Work, including changes under each alternate, when acceptance is designated in the Owner - Contractor Agreement.

1.04 ACCEPTANCE OF ALTERNATES

- A. Indicate variation of proposal price for alternates described below and list on the proposal form or any supplement to it, which requests a 'difference' in proposal price by adding to or deducting from the base proposal price or by indicating "No Charge".
- B. Indicating "No Bid" as an alternate is unacceptable and is reason for rejection of the proposal.
- C. Alternates quoted on Bid / Proposal Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.
- D. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

1.05 SCHEDULE OF ALTERNATES

- A. See Section "00 4333-Proposal Form Part A.2 Alternates" for Schedule of Alternates.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION



***PROJECT DESIGN FOR THE REMOVAL OF
ASBESTOS CONTAINING MATERIALS***

***Creekwood Middle School
3603 W. Lake Houston Pkwy
“Exterior Gym Addition Wall, Band Hall Addition Wall & Exterior
Window Areas”
Kingwood, Texas***

Abatement of Asbestos Exterior Vapor Barrier Mastic

April 24, 2025

***Prepared by:
Loflin Environmental Services, Inc.***

A handwritten signature in black ink, appearing to read 'James Murray'.

***James Murray, CIH, CSP
#10-5776
exp. September 24, 2025***

**PROJECT DESIGN
FOR
ASBESTOS REMOVAL**

PART 1 - GENERAL

1. SCOPE: The work covered by this section includes furnishing all plans, labor, equipment, materials, and transportation necessary for the proper and safe removal, handling, and disposal of non-friable materials.
- 1.1 Remove asbestos-containing materials to include the following:
7,000 square feet of asbestos containing vapor barrier mastic with associated brick.
(Exterior/NESHAP)
2. TERMINOLOGY
- 2.1 Abatement - procedures to decrease or eliminate fiber release from precast, spray-on, trowel-applied asbestos-containing building materials. Includes encapsulation, enclosure, and removal.
- 2.2 Air Monitoring - the process of measuring the fiber content of a specific volume of air during a stated period of time.
- 2.3 Airlock - system for permitting ingress or egress of personnel without permitting air movement between a contaminated area and an uncontaminated area, typically consisting of two curtained doorways at least three feet apart.
- 2.4 Amended Water - water to which a surfactant has been added.
- 2.5 Asbestos - a general term used to describe several fibrous mineral silicates. Although there are many asbestos minerals, only six are of commercial importance. They are: Actinolite, Amosite, Anthophyllite, Chrysotile, Crocidolite, and Tremolite. For the purposes of this Project the term "asbestos" is used interchangeable with "asbestos-containing sprayed material", "dust containing asbestos", and "friable insulating material containing asbestos".
- 2.6 Asbestos Control Area - an area where asbestos removal operations are performed and which is sealed and isolated by physical barriers to prevent the spread of asbestos contamination.
- 2.7 ANSI - American National Standards Institute.
- 2.8 ASTM - American Society for Testing and Materials.
- 2.9 Clean Room - an uncontaminated area or room which is part of the worker decontamination enclosure system, with provisions for storage of workers' street clothes and protective equipment. Also known as the "Change Room".



- 2.10 Critical Barrier - seal applied to openings connecting the abatement area with adjacent spaces that will not be included in the containment. Critical barriers shall not be exposed to the gross critical barriers include, but are not limited to: HVAC vents and diffusers ; doorways ; windows ; floor, wall, and ceiling penetrations; and air plenums.
- 2.11 Curtained Doorway - a device to allow ingress or egress from one room to another while minimizing air movement between the rooms. Typically constructed by placing three overlapping sheets of 6-mil plastic over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edges of the outer sheets along one vertical edge of the second or middle sheet along the opposite vertical side of the doorway.
- 2.12 Decontamination Enclosure System - a series of connected rooms, with curtained doorways between any two adjacent rooms, for the decontamination of workers or of materials and equipment. An equipment decontamination system always contains at least three airlocks (rooms).
- 2.13 Encapsulation - the sealing of asbestos surfaces involving application of a material (encapsulant) that will envelop or coat the fiber matrix and eliminate fiber fallout and protect against contact damage.
- 2.14 Enclosure - procedures necessary to completely enclose material containing asbestos behind airtight, impermeable, permanent barriers.
- 2.15 EPA - United States Environmental Protection Agency.
- 2.16 Equipment Decontamination Enclosure System - a decontamination enclosure system for materials and equipment, typically consisting of a washroom, an airlock, and a holding area.
- 2.17 Equipment Room - a contaminated area or room which is part of the worker decontamination enclosure system, with provisions for storage of contaminated clothing and equipment.
- 2.18 Fixed Object (Immovable Object) - a unit of equipment or furniture in the work area which cannot be removed from the work area.
- 2.19 CIH - Certified Industrial Hygienist
- 2.20 HEPA - High Efficiency Particulate Absolute (HEPA) filter capable of trapping and retaining 99.97% of asbestos fibers greater than 0.3 microns in length.
- 2.21 HEPA - High Efficiency Particulate Air (HEPA) filtered vacuuming equipment with a UL 586 filter system capable of collecting and retaining asbestos fibers.
- 2.22 Holding Area - a chamber between the washroom and uncontaminated area in the equipment decontamination enclosure system. The holding area comprises an airlock.
- 2.23 Movable Object - a unit of equipment or furniture in the work area can be removed from the work area.



- 2.24 NESHAPS - National Emissions Standard for Hazardous Air Pollutants.
- 2.25 N.E.C. - National Electrical Code.
- 2.26 NIOSH - National Institute for Occupational Safety and Health.
- 2.27 OSHA - Occupational Safety and Health Administration.
- 2.28 Plastic Sheetting - plastic sheet material of specified thickness used for protection of walls, floors, etc., and used to seal openings into the work area.
- 2.29 Removal - the act of removing asbestos-containing or contaminated materials from the structure under properly controlled conditions to a suitable disposal site.
- 2.30 Shower Area - a room constituting an airlock, between the clean room and the equipment room in the worker decontamination enclosure system, with hot and cold or warm running water suitably arranged for complete showering during decontamination.
- 2.31 Surfactant - a chemical wetting agent added to water to improve penetrating ability, thus reducing the quantity of water required to saturate asbestos-containing materials.
- 2.32 Wet Cleaning - the process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with amended water, and by afterwards disposing of these cleaning tools asbestos-contaminated waste.
- 2.33 Washroom - a room between the work area and the holding area in the equipment decontamination enclosure system. The washroom comprises an airlock.
- 2.34 Work Area - area or areas of project which undergo abatement or are contaminated.
- 2.35 Worker Decontamination Enclosure System - a decontamination enclosure system for workers, typically consisting of a clean room, and airlock, a shower room, an airlock, and an equipment room.

3. QUALITY CRITERIA

3.2 Reference Standards, Codes and Standards

Acknowledge awareness and familiarity with the contents and requirements of the following regulations, codes, and standards, guidance documents, assume responsibility for the performance of the Work in strict compliance therewith and for every instance of failure to comply therewith. The current issue of document shall govern.

- 3.2.1 U.S. Environmental Protection Agency (EPA) Regulations for Asbestos (Code of Federal Regulations Title 40, Part 61, Subparts A and M: National Emissions Standards for Hazardous Air Pollutants (NESHAPS).
- 3.2.2 U.S. Environmental Protection Agency (EPA) Regulation Title 34, Part 231 Appendix C, Procedures for Containing and Removing Building Materials Containing Asbestos.



- 3.2.3 U.S. Environmental Protection Agency (EPA) 40 CFR 260-265: Resource Conservation and Recovery Act.
- 3.2.4 U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Regulations (Code of Federal Regulations Title 29, Part 1910, Section 1910.1001, 1910.134, 1910.1200, 1910.20 and Part 1926, Section 1926.1101).
- 3.2.5 U.S. Department of Education, Office of Elementary and Secondary Education (Code of Federal Regulations Title 34, Parts 230 and 231), Federal Register, vol. 46, No. 11, January 16, 1981.
- 3.2.6 U.S. Environmental Protection Agency (EPA) Office of Pesticide and Toxic Substances Guidance Document, "Guidance for Controlling Friable Asbestos- Containing Materials in Buildings", EPA 560 / 5-85-024, June 1985.
- 3.2.7 Texas Department of State Health Services' "Asbestos Health Protection Rules" and any other state, county, and city codes and ordinances as applicable. Make available for review at the site one copy of EPA, OSHA, and applicable state, county, and City Regulations governing the Work.
- 3.2.8 40 CFR 763 Asbestos Hazard Emergency Response Act (AHERA).

4. TEST REPORTS

NOT USED

5. SUBMITTALS

NOT USED

6. PRODUCT HANDLING

NOT USED

7. WORKER SAFETY AND PROTECTION

- 7.1 Worker Training. The Contractor shall ensure that all of his employees have received training required by OSHA Standard 1926.1101 (k) (3) and applicable state regulations and that training records are on file in his office and available for review and are maintained for one year beyond the last date of employment.
- 7.2 Worker Physical Examinations. Contractor shall provide medical examinations for all employees in accordance with OSHA standards 1910.134 (b) and 1926.1101 (m) and applicable state regulations. The Contractor shall ensure that all employee results are on file in his office and available for review.
- 7.3 The Contractor shall further ensure that employee examination results, for each employee utilized on this project, indicate that the employee is physically capable to perform the work and wear the respiratory protection required.



- 7.4 Worker Protection and Decontamination. The contractor shall take all safety measures and precautions required to protect his employees and building occupants in accordance with OSHA 29 CFR, Part 1926.1101, and EPA, 40 CFR, Part 61, Subpart M, and applicable state regulations. The Contractor shall provide his employees a worker decontamination enclosure system in accordance with OSHA, 20 CFR, Part 1926.58, and specified herein.

8. BUILDING PROTECTION

NOT USED

9. WORKSITE CONDITIONS

NOT USED

10. PERSONNEL PROTECTION

- 10.1 Prior to commencement of work, all workers shall be instructed by the Contractor, and shall be knowledgeable in the appropriate procedures for personnel protection and asbestos removal.
- 10.2 Contractor acknowledges and agrees that he is solely responsible for enforcing worker protection requirements at least equal to those specified in this Section.
- 10.3 Contractor shall provide workers with personally issued and marked respiratory equipment approved by NIOSH and in compliance with OSHA Standards for the type of work being performed.
- 10.4 Where respirators with disposable filters are used, provide sufficient filters for replacement as necessary by the workers, or as required by applicable regulations.
- 10.5 Provide respiratory protection as needed from the time of the first operation involving preparation to remove asbestos-containing materials (including construction of airtight barriers/barricades and placing of plastic sheeting on walls) until acceptance of final air test results by Building Owner.

PART 2 - PRODUCTS

11. MATERIALS

- 11.1 Plastic sheeting - shall be of the thicknesses specified, in sizes to minimize the frequency of joints. Use of "spray-on poly" is not permitted.
- 11.2 Tape - Shall be glass fiber or other type capable of sealing joints of adjacent sheets of plastic and for attachment of plastic sheet on finished or unfinished surfaces under both dry and wet conditions.
- 11.3 Surfactant (wetting agent) - shall consist of mixture of "Dust-Set Amended Water Base" (Matheson Chemical Corporation), and water, mixed one part "Dust-Set Amended Water Base" to 19 parts water.



- 11.4 Sealant (encapsulant) - Shall be manufactured by reputable, established manufacturer of encapsulant/sealant asbestos-contaminated environments. It is the responsibility of the Contractor to determine compatibility of the sealant with the materials and conditions.
- 11.5 Impermeable Containers - Shall be suitable to receive and retain any asbestos-containing or contaminated materials until disposal at an approved site and shall be labeled in accordance with OSHA Regulation 29 CFR 1926.1101 (k) (2) (iii). Containers shall be both air and water tight.
- 11.6 Other Materials - Provide all other materials, such as lumber, nails, and hardware, which may be required to construct and dismantle the decontamination system and the barriers that isolate the work area.

12. TOOLS AND EQUIPMENT

Provide suitable tools for asbestos-containing material removal.

- 12.1 Water Sprayer - Utilize airless or other low pressure sprayer for amended water application.
- 12.2 Air Purifying Equipment (for internal recirculation in the work area) - Shall be High Efficiency Particulate Absolute (HEPA) Filtration Systems or Electronic Precipitators. Ensure that no internal air movement system or purification equipment exhausts contaminated air from inside the work area into uncontaminated areas.
- 12.3 Scaffolding - Shall be as required to accomplish the specified work and shall meet all applicable safety regulations.
- 12.4 Transportation - As required for loading, temporary storage, transit, and unloading of contaminated waste without exposure to persons or property. Use only enclosed or covered trucks to haul waste containers in route to the landfill.

13. RESPIRATORY PROTECTION

- 13.1 Types of Respirators. Contractor shall provide workers with and require the use of respirators approved by MSHA/NIOSH for asbestos in accordance with OSHA Standard 1926.1101 (h) (2). Disposable single use respirators are not acceptable.
- 13.2 Respirator Use. Respirators shall be worn at all times in the asbestos control area while the following activities are being performed. After asbestos has been removed and an area has passed visual inspection and final clearance air sampling, respirators no longer need to be worn in that area.
 - 13.2.1 During area preparation when such activities may result in contact with asbestos.
 - 13.2.2 During any material or equipment removal when asbestos may be disturbed.
 - 13.2.3 In the asbestos control area after the area has been prepared, while asbestos removal and cleanup operations are being performed.



13.2.4 In the loading and asbestos control area while handling bags or sealed containers and while loading sealed containers onto the truck.

13.2.5 While unloading disposal containers at the landfill and placing them in the landfill.

14. PROTECTIVE CLOTHING

14.1 All personnel engaged in asbestos removal work shall wear approved protective clothing manufactured from TYVECK 1422 material, or other material of equivalent resistance to penetration by asbestos. A full body suit is recommended in lieu of a separate set of coveralls, head covers, and shoe covers. Disposable whole body clothing including head covers, gloves, and shoe coverings shall be provided to and worn by all personnel in the asbestos control area. If attached and/or boots are not included, these shall be provided separately. If elastic sleeve closures are not provided, sleeves shall be secured to duct tape to gloves.

14.2 Contaminated clothing shall be treated as asbestos-containing material and undergo the same disposal procedures.

14.3 All openings in clothing shall be taped to exclude penetration by asbestos fibers.

15. WARNING SIGNS AND LABELS

15.1 Signs. The Contractor shall post warning signs prior to asbestos removal in accordance with OSHA, 29 CFR, Part 1926.1101 (k) (l) (iii). The signs shall display the legend indicated below:

**DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA**

15.2 Labels. The Contractor shall permanently affix warning labels to all products and bags/containers containing or contaminated with unencapsulated friable asbestos in accordance with OSHA Standard 1926.1101 (k) (2) (iii). Labels shall be printed in large bold letters on a contrasting background and contain the following legend:

**DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD**



PART 3 - EXECUTION

16. PREPARATION

- 16.1 Coordinate sequence of work area preparation throughout the work site with Property Owner and other trades in order to properly segregate work areas from areas that must remain fully or partially operational or in which other construction is being performed.
- 16.2 Preparation of Work Area for Exterior Vapor Barrier Mastic Removal Areas
 - 16.2.1 Erect asbestos barrier tape around the work areas to prevent untrained workers from entering the regulated area. Cover Wall Penetration Areas with one layer of six-mil thick polyethylene sheeting on the interior side of affected wall areas.
 - 16.2.2 Place one layer of six-mil thick polyethylene sheeting on the floor directly beneath the affected areas.

17. REMOVAL OF ASBESTOS-CONTAINING MATERIAL

Remove and properly dispose of all asbestos-containing materials indicated to be removed as described in the procedures outlined in the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Asbestos Regulations (Code of Federal Regulations Title 29, Part 1926, Section 1926.1101 and as more stringently specified herein.

- 17.1.3 For Removal of Exterior Vapor Barrier Mastic on Wall and Window Penetration Areas, prepare work area as previously specified.
 - 17.1.1 Initiate required personnel air monitoring in accordance with 29 CFR 1926.58 Appendix A. Provide results of personnel air monitoring to Consultant within 24 hours of completion of the testing. Post results of personnel air monitoring daily in a location approved by the Consultant for all personnel to see.
 - 17.1.2 Thoroughly wet vapor barrier mastic and associated brick material during removal/clean-up process. Remove material in manageable sections and load into approved dumpster for disposal.
 - 17.1.4 Collect all loose visible residual material and debris. Place all waste into appropriately labeled six-mil poly bags, double bag and place into dumpster.

18. CLEAN-UP AND CLEARANCE TESTING

- 18.1 Provide general clean-up of work area concurrent with the removal of all asbestos-containing materials. Do not permit accumulation of debris in work area.



- 18.2 All surfaces must be free from visible debris.
- 18.3 Contractor must notify Owner's representative at least four hours prior to clean-up inspection. After Owners representative determines level of cleanliness acceptable.
- 18.4 Standard of Cleaning for Final Clearance. Consider work areas and all other decontaminated and cleaned areas clean when:
 - 18.4.1 Level of cleanliness has been approved by Owner's representative; and
 - 18.4.2 Air testing performed by the Testing Laboratory indicates airborne fiber concentrations were less than 0.01 fibers per cubic centimeter of air (f/cc) during the work as determined using techniques derived from the NIOSH 7400 Method.

19. CLEAN-UP SEQUENCE

- 19.1 Remove all visible accumulations of asbestos-containing material and debris.
- 19.2 Wet clean and HEPA-vacuum all surfaces in the work area.
- 19.3 Clean all equipment (excluding that which will be needed for further cleaning phases) used in the work area and remove from work area via the equipment decontamination enclosure system.
- 19.4 Dispose of debris from removal operation, used cleaning materials, unsalvageable materials used for sturdy barriers, and any other remaining materials. Consider the materials to be contaminated, to be disposed of contaminated waste.

20. DISPOSAL OF CONTAMINATED WASTE

- 20.1 Collection of asbestos waste materials. For the purpose of this paragraph asbestos waste materials are all items not sealed with an asbestos encapsulant sealer at the jobsite. These waste materials shall be collected in properly labeled 6-mil polyethylene bags or other approved sealed impermeable containers. Double bagging is required. A fine spray of amended water or removal encapsulant shall be used to keep asbestos in the containers damp to minimize airborne asbestos dust.
- 20.2 Disposal of asbestos waste materials. Waste containers shall be hauled away by the Contractor as soon as there is a sufficient quantity for a dumpster load. Procedures for hauling and disposal shall comply with EPA 40, CFR, Part 61.38, and other applicable state, regional and local Government standards.
- 20.3 Ensure that there are no visible emissions to the outside air from site where materials and waste are deposited.





This letter serves to authorize the following individuals to act as agents for Loflin Environmental Services by performing post abatement visual observations and final clearance testing on the project listed below:

Matt Songster, Michael Hendrix, Edgar Cazares, Chris Songster, Alfonso Drummond, Francis Gonzalez, Abiola Ajayi, Tony Davis, Chris Zanelli, Humberto Lopez, Adebayo Adesina, Oluwaseun Adeya, Theophilus Ojie, Johnson Abiodun Olukotun

Creekwood Middle School
3603 W. Lake Houston Pkwy.
Kingwood, Texas

04/24/25

A handwritten signature in black ink, appearing to read 'James Murray'.

James Murray, CIH, CSP
Vice President
DSHS #10-5776

DIVISION 3 - CONCRETE

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
C08	CONCRETE, SEALED			CLEAR						

DIVISION 4 - MASONRY

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
BRK01	BRICK UNIT MASONRY	ACME BRICK COMPANY		FLASH MANGANESE VELOUR	UTILITY				FIELD BRICK	CHRIS PELTON CPELTON@BRICK.COM 832.948.3372
BRK02	BRICK UNIT MASONRY	ACME BRICK COMPANY		AMERICAN	UTILITY				ACCENT BRICK	CHRIS PELTON CPELTON@BRICK.COM 832.948.3372

STONE

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
NS01	NATURAL STONE	ACME BRICK COMPANY		LIEDERS BUFF						CHRIS PELTON CPELTON@BRICK.COM 832.948.3372
INS01	NATURAL STONE	ACME BRICK COMPANY	THINSET STONE	LIEDERS BUFF					DISPLAY CASE SURROUNDS AT BAND HALL LOBBY	CHRIS PELTON CPELTON@BRICK.COM 832.948.3372

DIVISION 5 - METALS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	METAL RAILINGS & HANDRAILS			PNT02					@ MECHANICAL PLATFORM	

DIVISION 6 - WOOD/PLASTICS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
FRP01	FIBERGLASS REINFORCED PANELING	PANGLAM SURFACE SYSTEMS		SILVER FRP					AT MEP RISERS REF DETAIL ON AS SHEETS FOR EXTENTS	

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
MP01	METAL SOFFITS	PAC CLAD	PVDF WOOD GRAIN SERIES	COPPER						

FLASHING AND SHEET METAL

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	DOWNSPOUTS			MATCH PAC CLAD SLATE GRAY						
	GUTTERS			MATCH PAC CLAD SLATE GRAY						
	METAL FLASHING, COPING, & TRIM			MATCH PAC CLAD SLATE GRAY						

DIVISION 8 - OPENINGS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	ALUMINUM DOORS & FRAMES			CLEAR ANODIZED ALUM						
	ALUMINUM WINDOWS			CLEAR ANODIZED ALUM						
	COLING DOORS & GRILLES			PAIN TO MATCH CLEAR ANODIZED ALUM FRAMES						
HM	HOLLOW METAL DOORS & FRAMES			PAIN TO MATCH CLEAR ANODIZED ALUM FRAMES						
	LOUVERS			CLEAR ANODIZED ALUM						
SC	SOLID CORE DOORS	WILSONART		PINNACLE WALNUT 7902		38 FINE VELVET TEXTURE FINISH				
	VISBLE DOOR HARDWARE			CLEAR ANODIZED ALUM						

DIVISION 9 - FINISHES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
BT01	BASE, TILE, PORCEAIN	DALTILE	DELEGATE	LIGHT GREY DL26	6"x12"	MATTE		RESTROOM WALL BASE		
	GROUT	MAPEI		TIMBERWOLF 104						
TC01	TILE, CERAMIC	DALTILE	COLOR WHEEL LINEAR	ARTIC WHITE RECTANGLE 0190	6"x16"	GLOSSY	STACK BOND	CULINARY WALLS		
TM01	TILE, MOSAC	DALTILE	DELEGATE	OFF WHITE DL25	RANDOM LINEAR	MATTE		RESTROOM ACCENT		
	GROUT	MAPEI		ALABASTER 01						
TM02	TILE, MOSAC	DALTILE	DELEGATE	LIGHT GREY DL26	RANDOM LINEAR	MATTE		RESTROOM ACCENT		
	GROUT	MAPEI		TIMBERWOLF 104						
TP01	TILE, PORCELAIN	CROSSVILLE	BASALT	SILICA	12"x24"	UNPOLISHED	STACK BOND	CORRIDOR WALLS		
	GROUT	MAPEI		BISCUIT 14						
TP02	TILE, PORCELAIN	CROSSVILLE	BASALT	MAFIC	12"x24"	UNPOLISHED	STACK BOND	CORRIDOR WALLS		
	GROUT	MAPEI		GRAY 09						
TP03	TILE, PORCELAIN	DALTILE	DELEGATE	OFF WHITE DL25	12"x24"	MATTE	STACK BOND	RESTROOM WALLS		
	GROUT	MAPEI		ALABASTER 01						
TP04	TILE, PORCELAIN	DALTILE	DELEGATE	LIGHT GREY DL26	12"x24"	MATTE	STACK BOND	RESTROOM FLOORS		
	GROUT	MAPEI		TIMBERWOLF 104						
TP05	TILE, PORCELAIN	DALTILE	SADDLE BROOK	FARMHOUSE				BAND HALL LOBBY, BAND HALL & ATHLETIC CORRIDOR FLOOR		
	GROUT	MAPEI		MOCHA 42						
TO01	TILE, QUARRY	DALTILE		TBD						

CEILINGS

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
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L1	ACOUSTICAL CEILING TILE	CERTAINTEED		WHITE, U.N.O.	24"x24"					
L4	ACOUSTICAL CEILING TILE	CERTAINTEED		WHITE, U.N.O.	24"x24"			CULINARY		
L6	ACOUSTICAL CEILING TILE	CERTAINTEED		WHITE, U.N.O.				BAND HALL		

WOOD FLOORING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
WMP								DANCE & GYM FLOORS	SEE FINISH PLAN FOR ADDITIONAL INFORMATION	

RESILIENT FLOORING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
BR01	BASE, RUBBER	TARKETT	WALL BASE - RUBBER	CANYON	4" HIGH					

CARPETING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
CPT01	CARPET, SHEET	TARKETT	TUNDRA FLOWER	NEW FRONTIER				OFFICES		

WALL FINISHES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
COW01	CUSTOM DIGITAL WALLCOVERING	MDC DIGITAL WALLCOVERINGS	SUBSTRATE TO BE SUIDE					GYM LOBBY	REFER TO DWGS FOR LOCATIONS, REQUEST ARTWORK FROM ARCHITECT	

ACOUSTIC TREATMENT

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
AP01	ACOUSTICAL PANELS	DESIGNTEX	GAMUT	MIST						
AP02	ACOUSTICAL PANELS	DESIGNTEX	GAMUT	PEBBLE						
AP03	ACOUSTICAL PANELS	DESIGNTEX	LOUNGE	MALLARD 3162-504						

PAINTING AND COATING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
PNT01	PAINT	SHERWIN WILLIAMS		SHOUJ WHITE 7042		EGGSHELL				
PNT02	PAINT	SHERWIN WILLIAMS		FELTED WOOL 9171		EGGSHELL				
PNT03	PAINT	SHERWIN WILLIAMS		GREENBELT 6927		EGGSHELL				
PNT04	PAINT	SHERWIN WILLIAMS		URBANE BRONZE 7048		EGGSHELL				
PNT05	PAINT	SHERWIN WILLIAMS		IRON GRE 7099				EXPOSED CEILING IN BAND HALL AND DANCE		

DIVISION 10 - SPECIALTIES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	DISPLAY CASES	THE TABLET AND TICKET CO.	900DC	CLEAR ANODIZED						
	DISPLAY CASE TACKABLE SURFACE	CLARIDGE	CLARIDGE CORK	SMOKE 1111						
	EXTERIOR SIGNAGE			COLOR TO BE SELECTED FROM MFR FULL RANGE OF COLOR OPTION BY SUBMITTAL						
	INTERIOR SIGNAGE			COLOR TO BE SELECTED FROM MFR FULL RANGE OF COLOR OPTION BY SUBMITTAL						
	BACKGROUND			COLOR TO BE SELECTED FROM MFR FULL RANGE OF COLOR OPTION BY SUBMITTAL						
	ACCENT STRIPE			COLOR TO BE SELECTED FROM MFR FULL RANGE OF COLOR OPTION BY SUBMITTAL						
	LETTERS			COLOR TO BE SELECTED FROM MFR FULL RANGE OF COLOR OPTION BY SUBMITTAL						
MB	MARKER BOARD FRAMES			CLEAR ANODIZED						
TB	TACKBOARD FRAMES			CLEAR ANODIZED						
	TACK BOARD CORK	CLARIDGE	CLARIDGE CORK	SMOKE 1111						

INTERIOR SPECIALTIES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	CUBICLE CURTAIN	MAHARAM	SEMBLANCE	PLANK 283730-001						
	TOILET PARTITIONS	ASI		MOCHA 9212						

EXTERIOR SPECIALTIES

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALLATION	LOCATION	NOTES	CONTACT
	PRE-MANUFACTURED CANOPIES			MATCH PAC CLAD SLATE GRAY						

ATHLETIC EQUIPMENT

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALL/PATTERN	LOCATION	NOTES	CONTACT
	SCOREBOARDS			COLOR TO BE SELECTED FROM MFR FULL RANGE OF COLOR OPTION BY SUBMITTAL						

	WALL PADDING	PORTER	CLASS A	GRAY						
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DIVISION 12 - FURNISHINGS

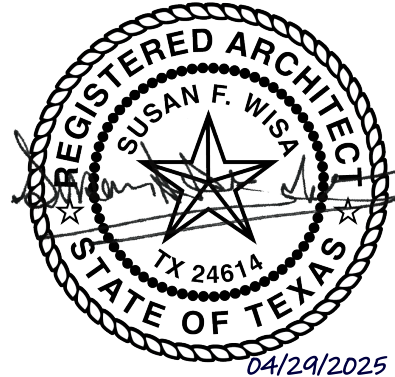
KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALL/PATTERN	LOCATION	NOTES	CONTACT
	SHADES	MECHOSHADE	3% OPEN	COLOR TO BE SELECTED FROM MFR FULL RANGE OF COLOR OPTION BY SUBMITTAL						

ARCHITECTURAL CASEWORK

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALL/PATTERN	LOCATION	NOTES	CONTACT
PL01	PLASTIC LAMINATE	WILSONART		PINNACLE WALNUT 7992		38 FINE VELVET TEXTURE FINISH				

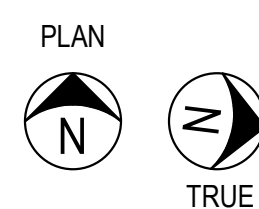
MULTIPLE SEATING

KEY	TYPE	MANUFACTURER	MODEL/SERIES	COLOR/NUMBER	SIZE	FINISH	INSTALL/PATTERN	LOCATION	NOTES	CONTACT
	TELESCOPING BLEACHERS	HUSSEY SEATING		COLOR TO BE SELECTED FROM MFR FULL RANGE OF COLOR OPTION BY SUBMITTAL						



SCHEDULE OF MATERIALS AND COLORS

Job No. 1821-13-01	Sheet No. 100% OC
Drawn By: Author	G5.01
Date: 04.02.2025	



1	FINISH PLAN - SECTION A
	1/8" = 1'-0"

FINISH PLAN LEGEND APPLIES TO SECTION PLANS

**NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS.
SEE TAG LAYOUT ABOVE.**

1. REFERENCE TO PLAN FOR EXTENTS OF PAINT AND RUBBER BASE.
2. REFERENCE TO INTERIOR ELEVATIONS FOR EXTENTS OF ACOUSTIC PANEL.
3. REFERENCE TO SHEET G5.01/G5.02 AND INTERIOR ELEVATIONS FOR EXTENTS OF CUSTOM DIGITAL WALLCOVERING.
4. REFERENCE TO FINISH PLAN FOR LOCATION OF ACCENT WALL PAINTED, **PNT02**.
5. REFERENCE TO FINISH PLAN FOR EXTENTS OF **NS01, TP01, PNT01, AND PNT04**.
6. REFERENCE TO INTERIOR ELEVATIONS FOR EXTENT OF **BTP, TP, AND TM** IN RESTROOMS.

FINISH REMARKS


- A. ALL DIMENSIONS SHOWN ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH UNO.
- B. PROVIDE MT AND TZ FLOOR FINISHES, AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS.
- C. PROVIDE TZ AND **T2P** ON STAIR TREADS AND RISERS, AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS.
- D. PROVIDE **BM1** AND **T1** FLOOR FINISHES AND **B7P2** AT TZ FLOOR FINISH, AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS.
- E. PROVIDE **PNT** AND **TE** (WAINSCOT) WALL FINISHES AS DEFINED ABOVE AND DETAILED ON INTERIOR ELEVATIONS.
- F. PROVIDE **PNT** AND **TE** (WAINSCOT) WALL FINISHES AS DEFINED ABOVE AND DETAILED ON INTERIOR ELEVATIONS.
- G. PROVIDE **BM1** AND/OR **FB**, **PNT** AND **CFB** WALL FINISHES AS DEFINED ABOVE AND DETAILED ON INTERIOR ELEVATIONS.
- H. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT LT MEETS GP CLG (MATCH CLG COLOR) OR LAY-IN GROD (WHITE).
- I. PROVIDE SEALANT JTS @ INSIDE CORNERS OF FILLED WALLS.

VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS, COORDINATE WITH ARCHITECT.

FINISH PLAN GENERAL NOTES

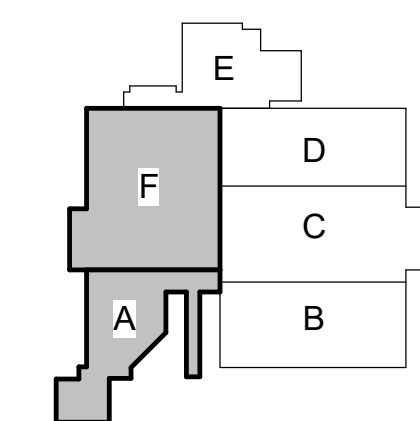
ALL SCHEDULED WALL FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR
ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND
PAINT FINISH CODES.

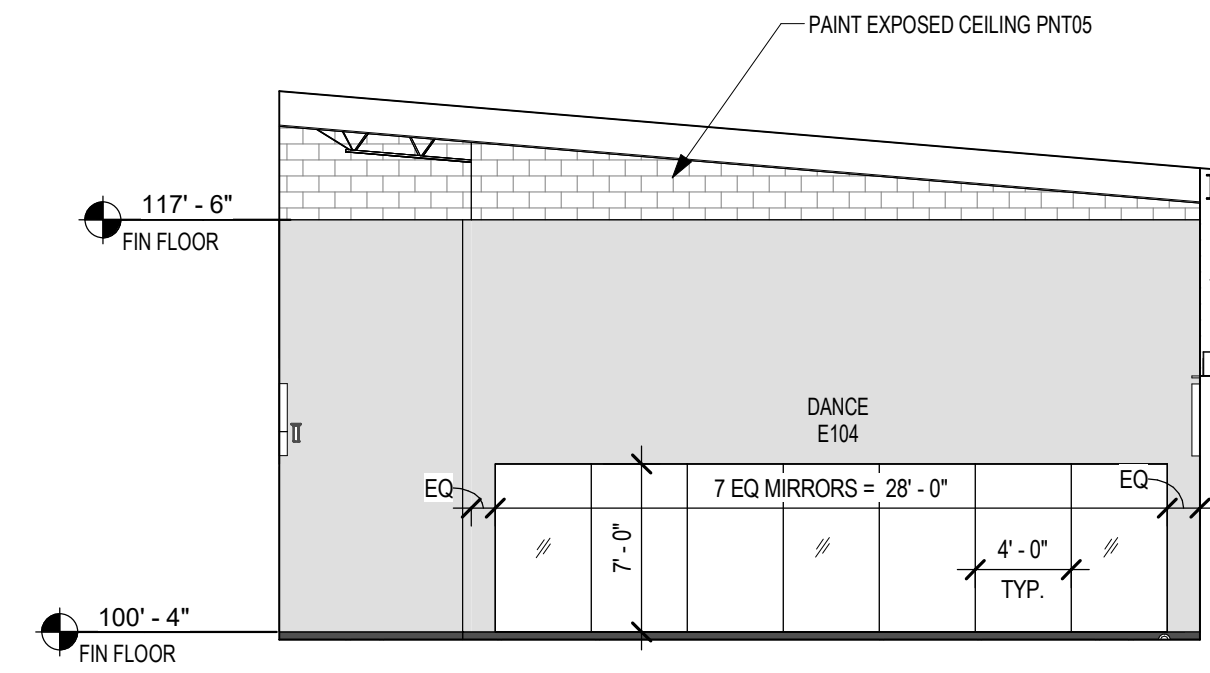


ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT
AL - ALUMINUM
AP - ACOUSTICAL PANELS
BP - BASE, PORCELAIN TILE
BRES - BASE, RESINOUS INTEGRAL
BRK - BRICK
BR - BASE, RUBBER
BRV - BASE, RUBBER VENTED
BTC - BASE, TILE, CERAMIC
BTZ - BASE, TERRAZZO PRECAST
BWD - BASE, WOOD
CCPS - CERAMIC CLADDING PANEL SYSTEM
CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL
CIDW - CUSTOM DIGITAL WALLCOVERINGS
CON - CONCRETE POLISHED
COS - CONCRETE SEALED
CPT - CARPET, SHEET
CS - CAST STONE
CSM - CONCRETE STONE MASONRY
CT - CARPET, TILED
CWF - CUSTOM WINDOW FILM
EDWS - EPOXY BASED WALL SYSTEM
EPWT - EPOXY PAINT
FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM
GRFC - GLASS FIBER REINFORCED CONCRETE
GRF - GROUND FACE CMU (BURNISHED)
LVT - LUXURY VINYL TILE
MB - MARKER BOARD
MCM - METAL COMPOSITE MATERIAL
MP - METAL WALL PANEL
MS - METAL SOFFIT
NB - NO BASE
NS - NATURAL STONE
PL - PLASTIC LAMINATE
PLP - PLASTIC LAMINATE PANEL SYSTEM
PMT - PAINT
QTZ - QUARTZ SURFACING
RAFF - RESILIENT ATHLETIC FLUID FLOORING
RAFP - RESILIENT ATHLETIC FLOORING POLYURETHANE
RAFS - RUBBER FLOORING SHEET
RAFV - RESILIENT ATHLETIC FLOORING VINYL
RES - RESINOUS FLOORINGS
RT - RUBBER TILE
RTR - RUBBER TREADS AND RISERS
SPEC - SPECIAL FINISHES. REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS
SF - SPLIT-FACE CONCRETE MASONRY UNIT
SSM - SOLID SURFACE MATERIAL
SVT - SOLID VINYL TILE
TB - TACK BOARD
TC - TILE, CERAMIC
TP - TILE, PORCELAIN
TQ - TILE, QUARRY
TS - TACKABLE SURFACE
TZ - TERRAZZO
TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS
TZT - TERRAZZO TILE
UP - UPHOLSTERY
VCT - TILE, VINYL COMPOSITION
VSF - VINYL SHEET FLOORING
WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING
WMS - MASONITE WOOD FLOORING
WOM - WALK-OFF MAT
WOT - WALK-OFF TILE
(NOT ALL ABBREVIATIONS MAY BE USED)

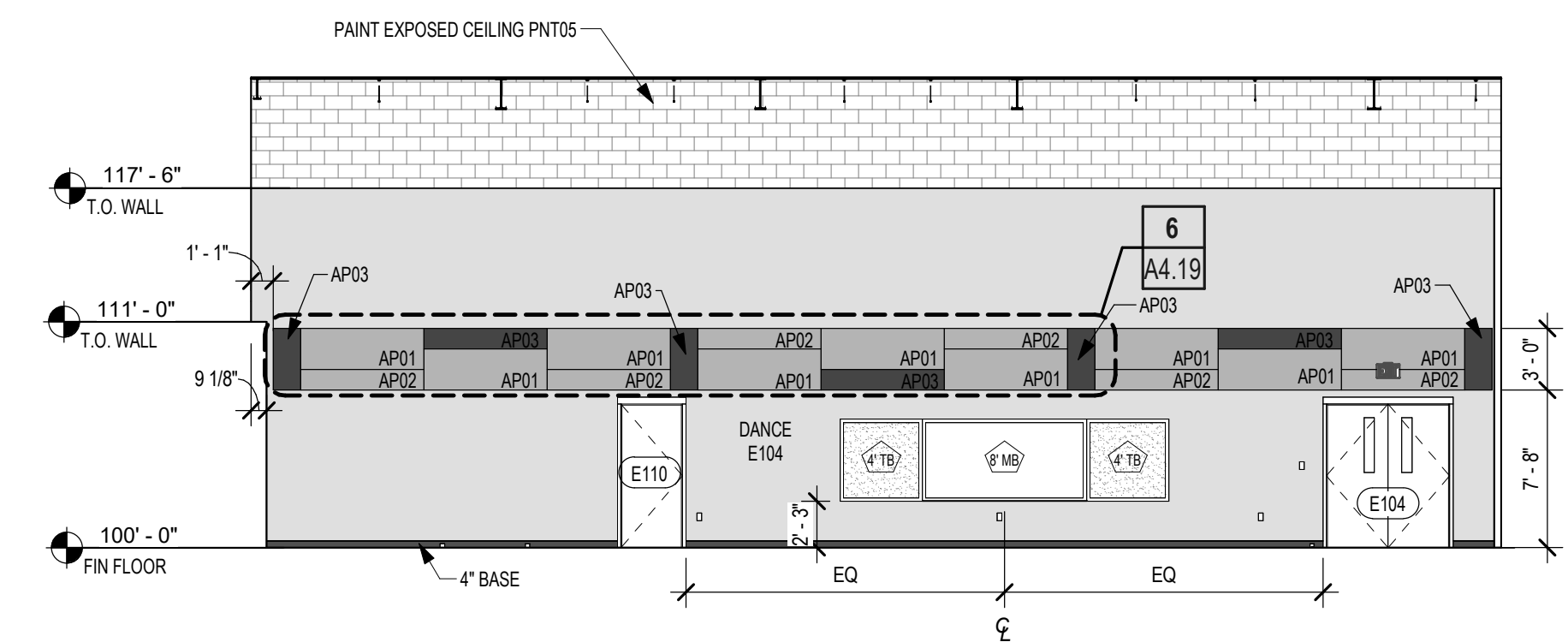
FINISH KEY



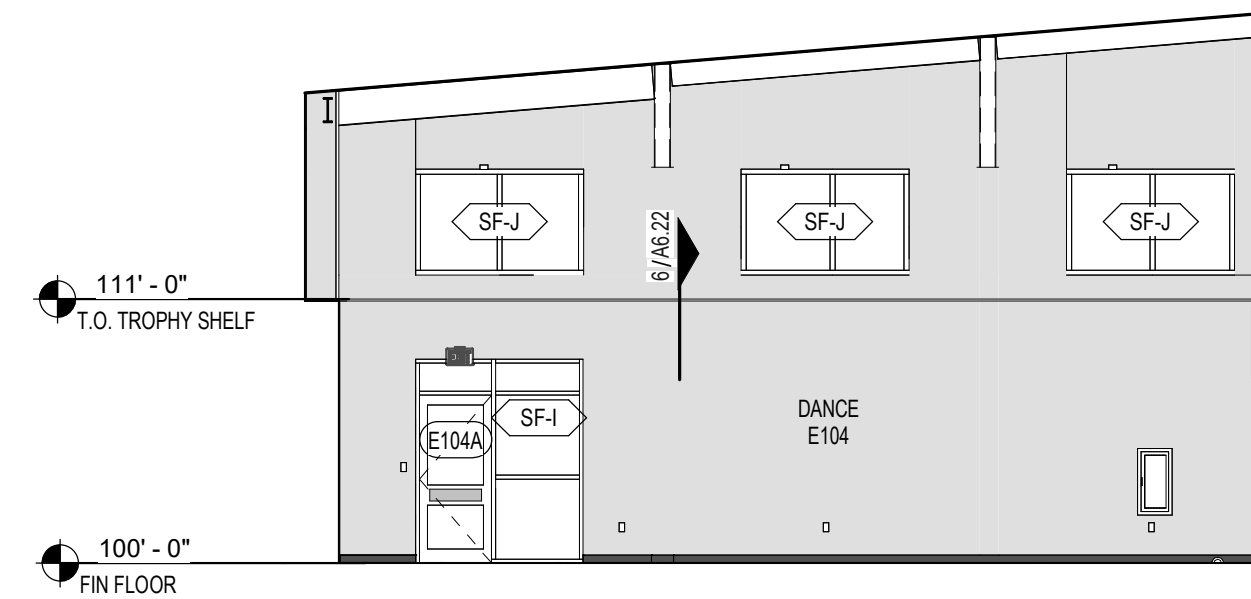
KEY PLAN - 1ST FLOOR
N.T.S



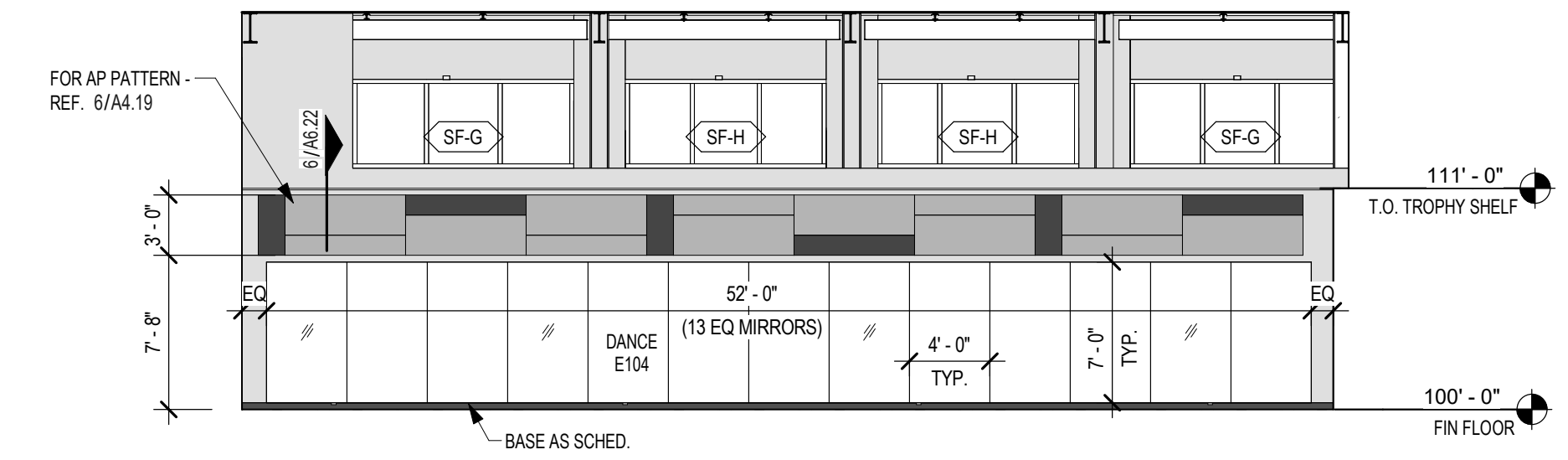
15 INT ELEVATION - DANCE
1/8" = 1'-0"



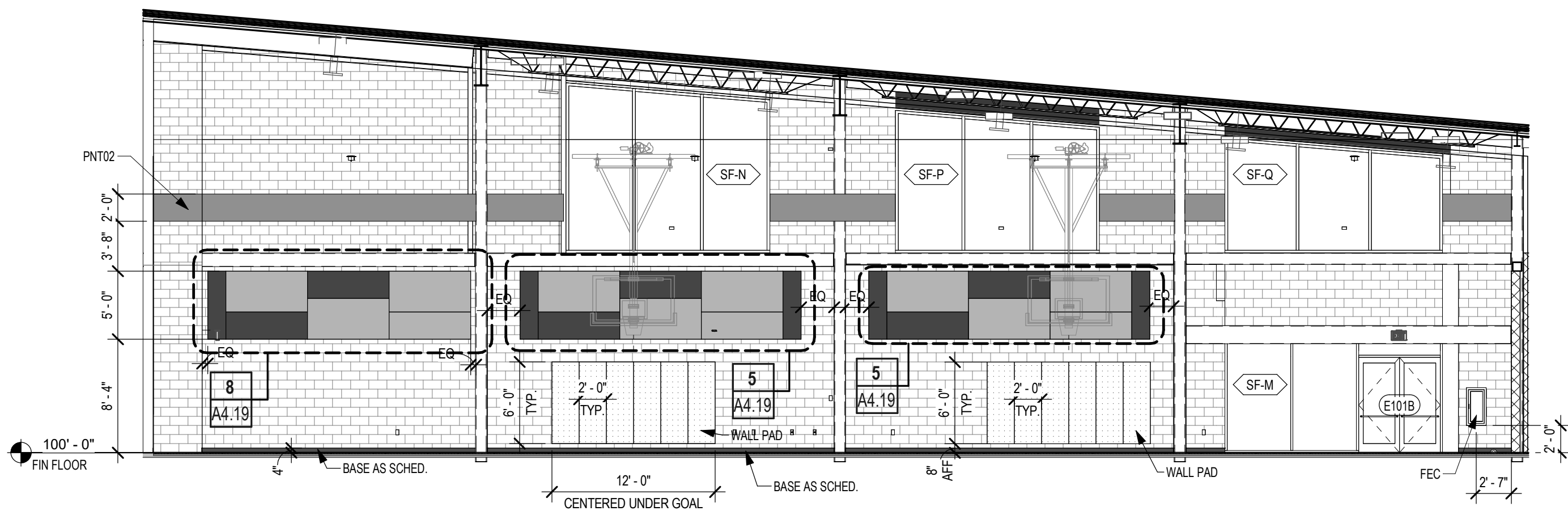
14 INT ELEVATION - DANCE
1/8" = 1'-0"



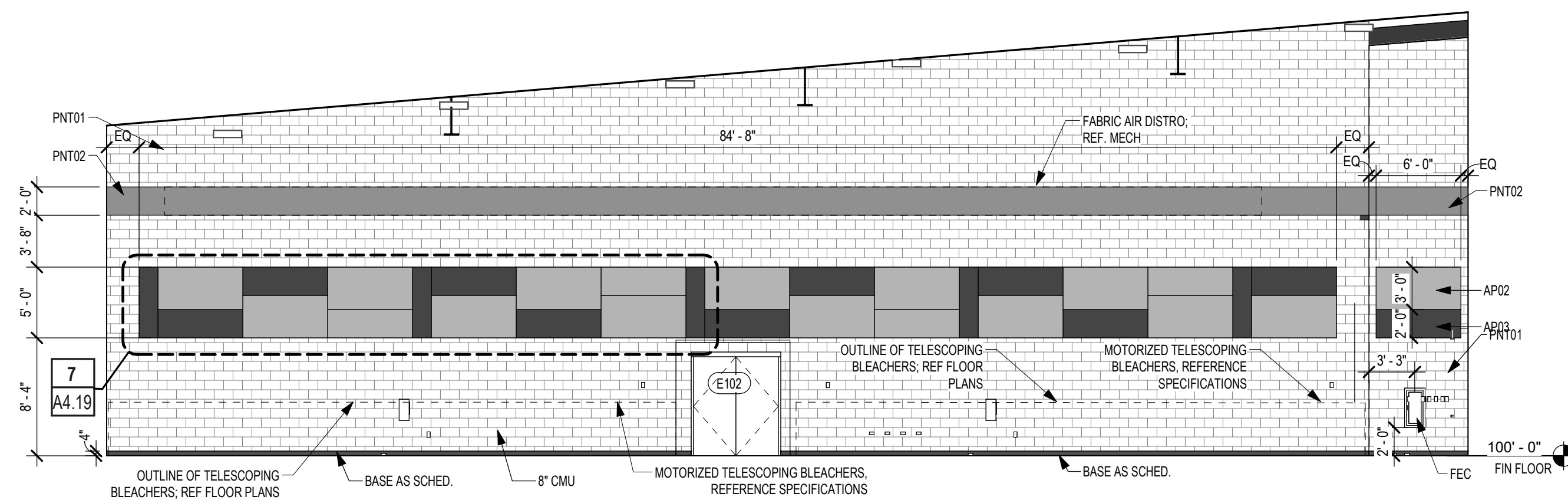
12 INT ELEVATION - DANCE
1/8" = 1'-0"



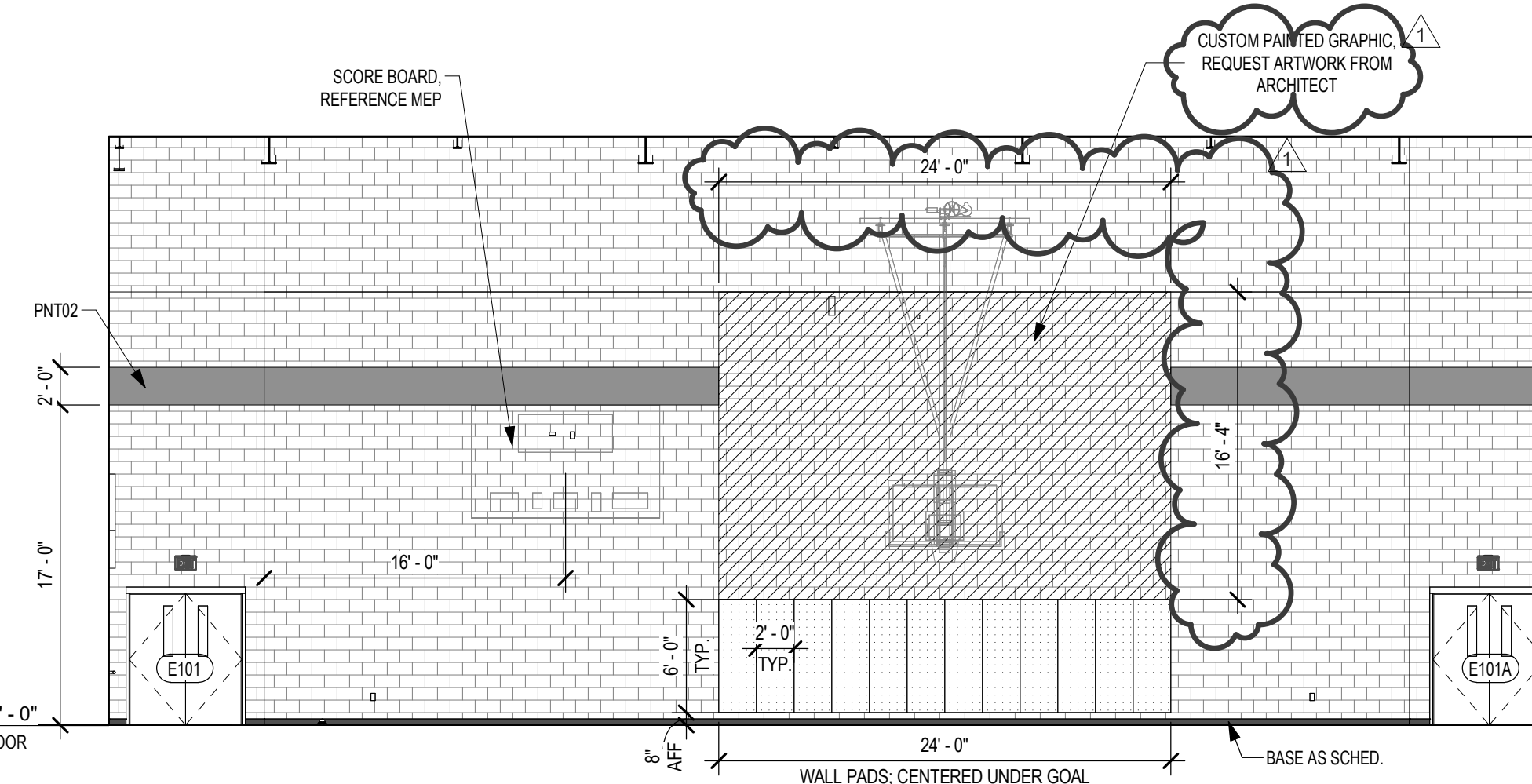
11 INT ELEVATION - DANCE
1/8" = 1'-0"



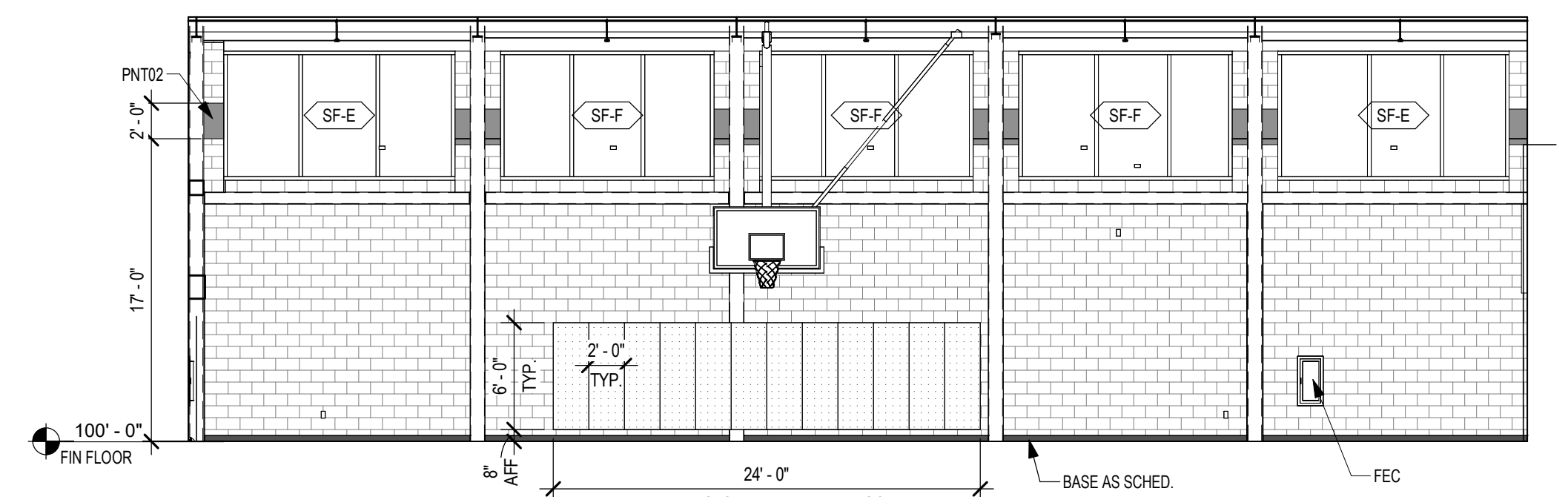
13 INTERIOR ELEVATION - GYMNASIUM
1/8" = 1'-0"



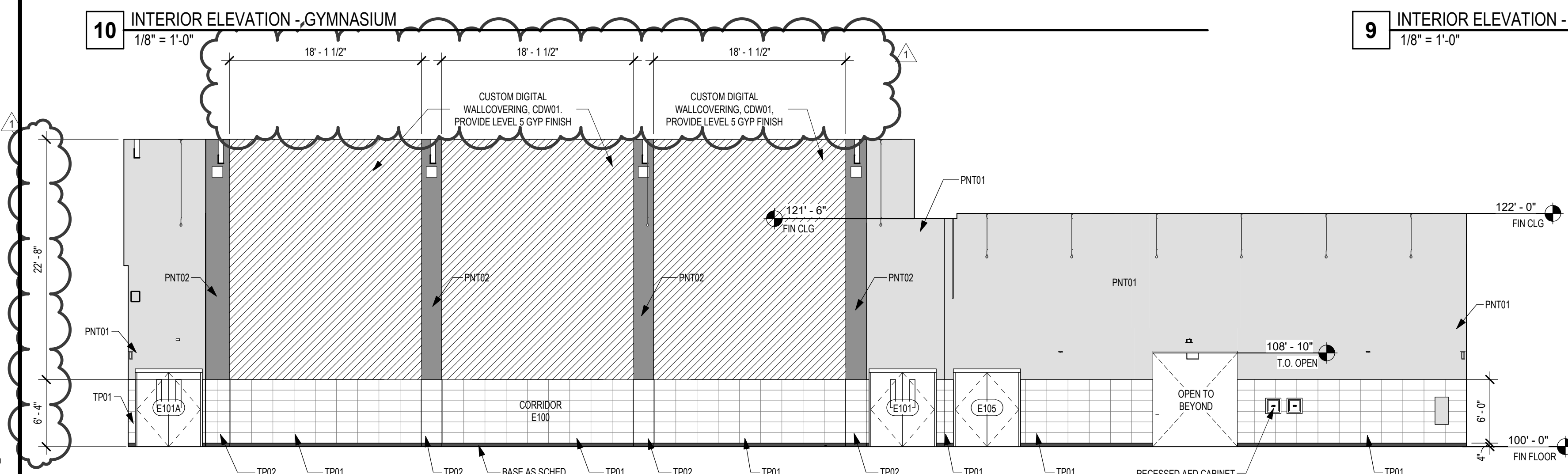
10 INTERIOR ELEVATION - GYMNASIUM
1/8" = 1'-0"



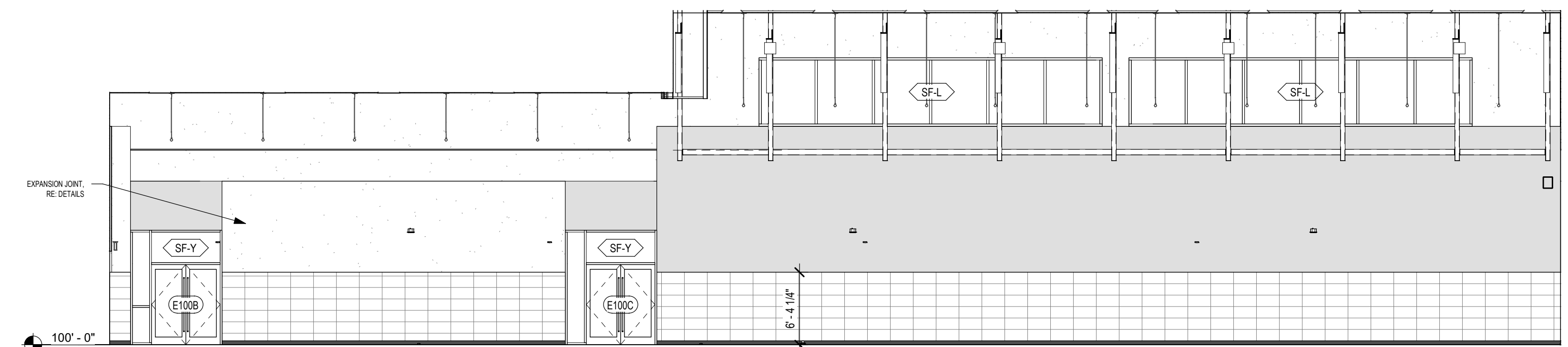
9 INTERIOR ELEVATION - GYMNASIUM
1/8" = 1'-0"



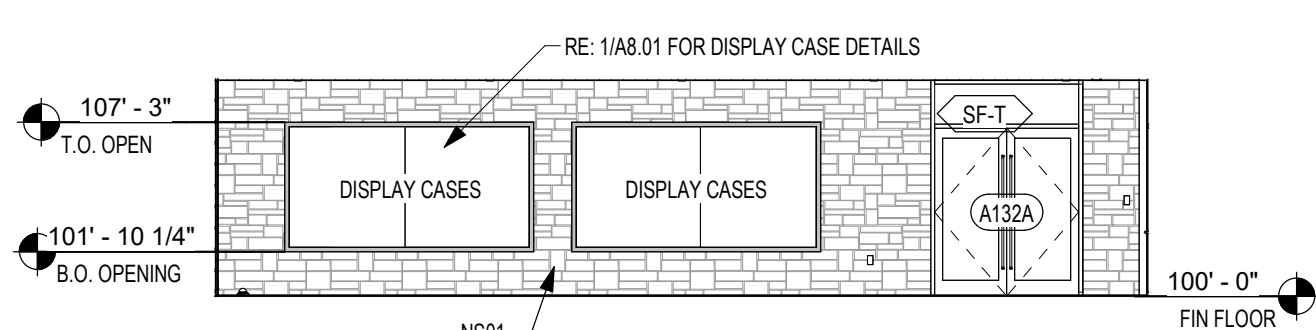
8 INTERIOR ELEVATION - GYMNASIUM
1/8" = 1'-0"



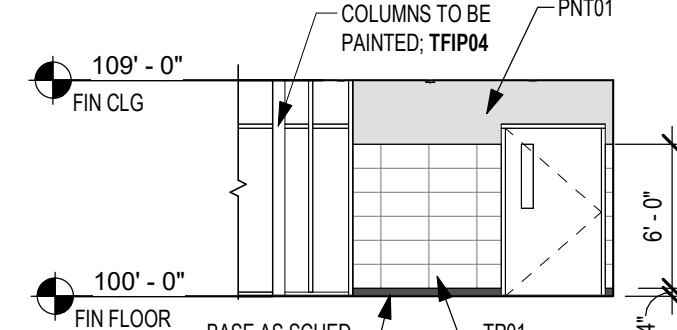
7 INTERIOR ELEVATION - CORRIDOR
1/8" = 1'-0"



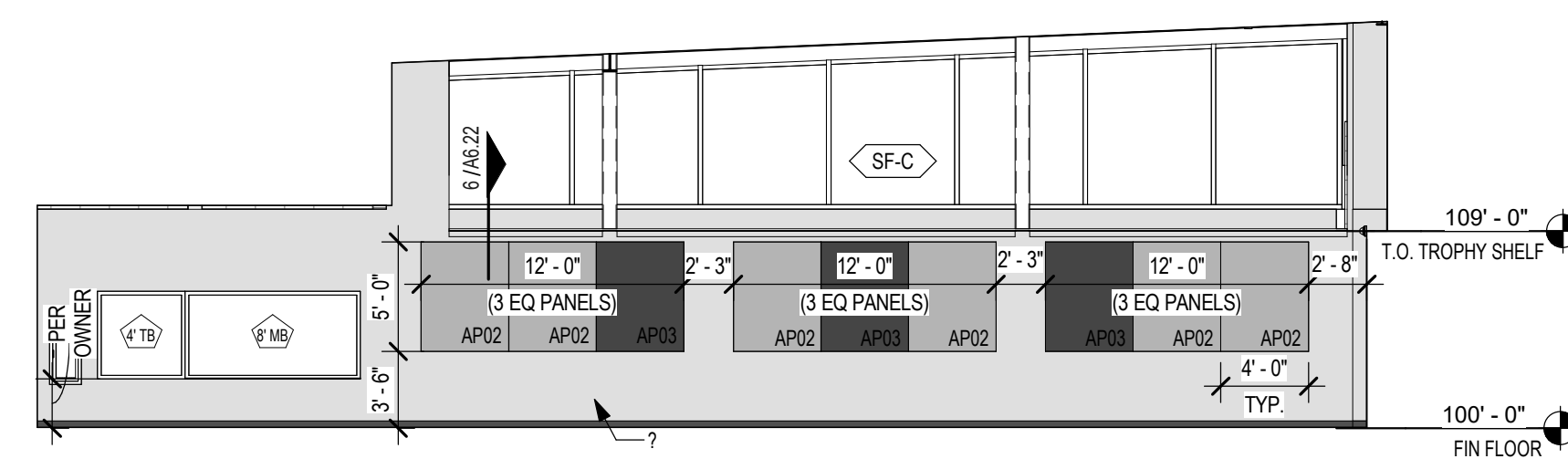
6 INTERIOR ELEVATION - CORRIDOR
1/8" = 1'-0"



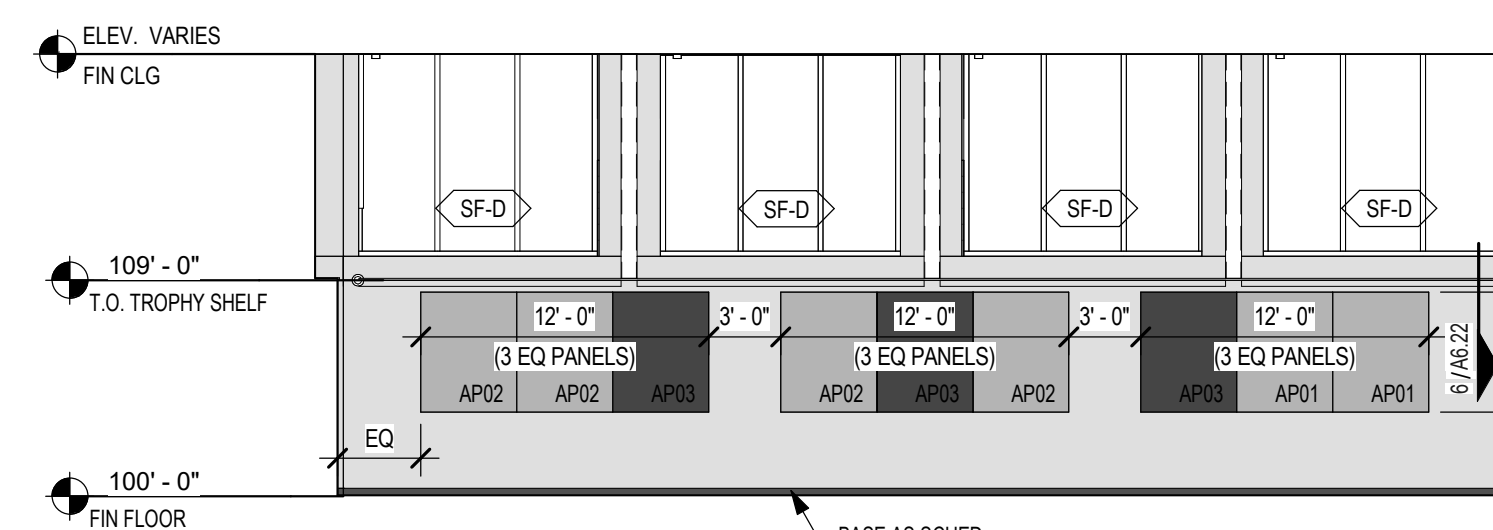
5 INTERIOR ELEVATION - LOBBY A132
1/8" = 1'-0"



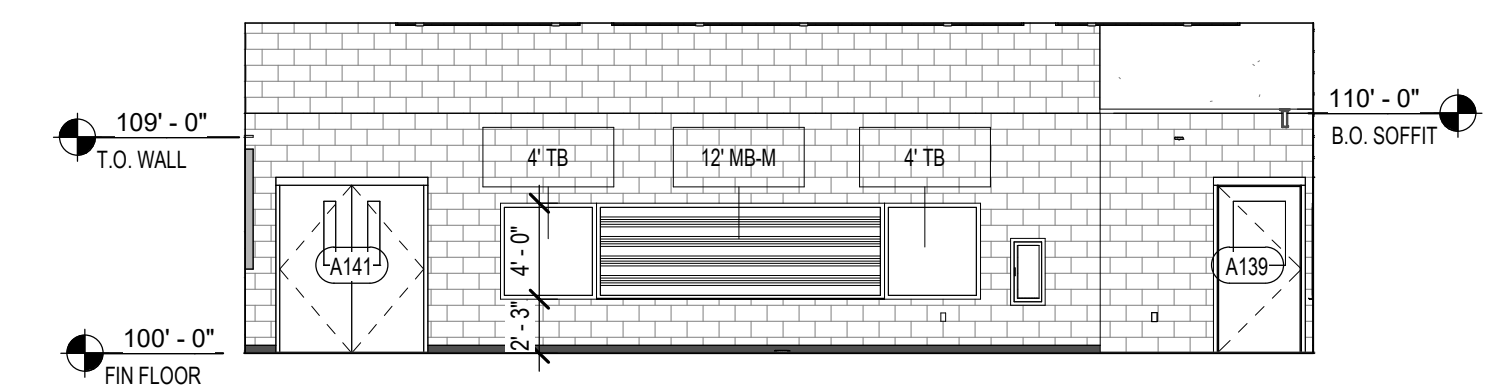
4 INT ELEVATION - LOBBY A132
1/8" = 1'-0"



3 INTERIOR ELEVATION - BAND HALL
1/8" = 1'-0"

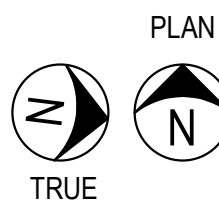


2 INTERIOR ELEVATION - BAND HALL
1/8" = 1'-0"



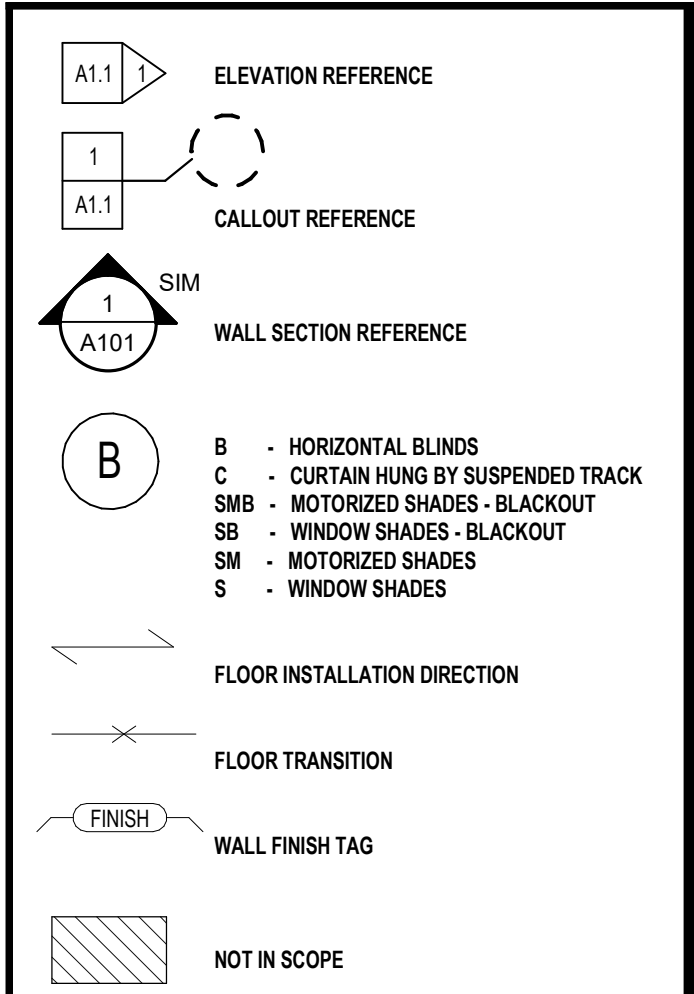
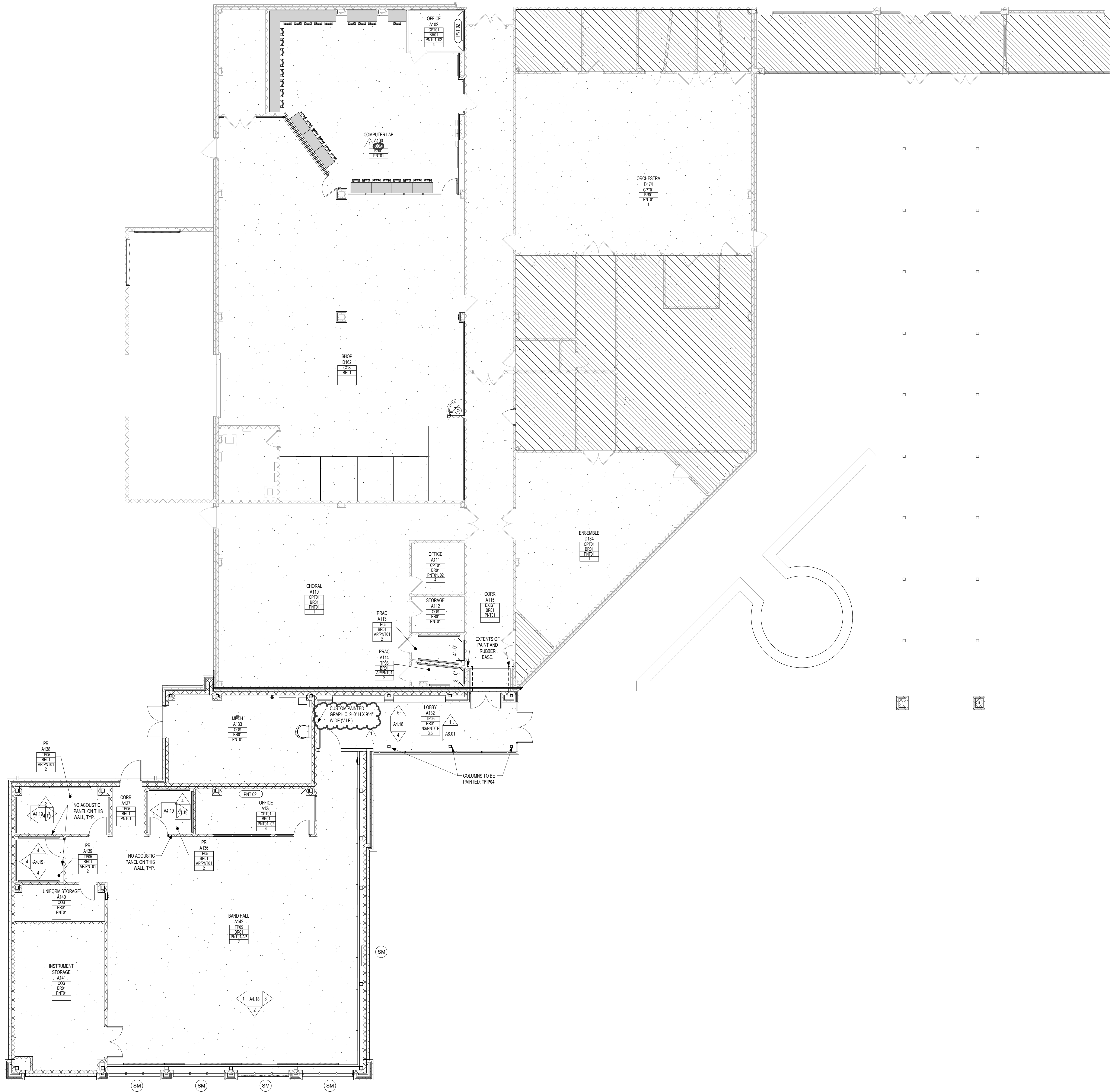
1 INTERIOR ELEVATION - BAND HALL
1/8" = 1'-0"

1 FINISH PLAN - SECTION A
1/8" = 1'-0"



PLAN

TRUE



FINISH PLAN LEGEND

- NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.
1. REFER TO PLAN FOR EXTENTS OF PAINT AND RUBBER BASE.
 2. REFER TO INTERIOR ELEVATIONS FOR EXTENTS OF ACOUSTIC PANEL.
 3. REFER TO SHEET 05.01.03.02 AND INTERIOR ELEVATIONS FOR EXTENTS OF CUSTOM DIGITAL WALLCOVERING.
 4. REFER TO FINISH PLAN FOR LOCATION OF ACCENT WALL PAINTED. PNT02.
 5. REFER TO FINISH PLAN FOR EXTENTS OF NS01, TP01, PNT01, AND PNT04.
 6. REFER TO INTERIOR ELEVATIONS FOR EXTENT OF BTP, TP, AND TM IN RESTROOMS.

FINISH REMARKS

- A. ALL DIMENSIONS SHOW ON FINISH FLOOR PLAN DRAWINGS ARE FROM FACE OF FINISH LINE.
- B. PROVIDE WT AND TZ FLOOR FINISHES, AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS.
- C. PROVIDE TZ AND TTP ON STAIR TREADS AND RISERS, AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS.
- D. PROVIDE BR01 AT WT FLOOR FINISH AND BTP01 AT TZ FLOOR FINISH, AS DEFINED ABOVE, IN LOCATIONS INDICATED ON PLANS.
- E. PROVIDE PNT and TC (WANSOT) WALL FINISHES AS DEFINED ABOVE AND DETAILED ON INTERIOR ELEVATIONS.
- F. PROVIDE PNT and TC (WANSOT) WALL FINISHES AS DEFINED ABOVE AND DETAILED ON INTERIOR ELEVATIONS.
- G. PROVIDE BR01 AND/OR FB, PNT and CB01 WALL FINISHES AS DEFINED ABOVE AND DETAILED ON INTERIOR ELEVATIONS.
- H. PROVIDE 3/8" MIN SEALANT JOINT WHERE FULL HT TILE MEETS GYP CLG (MATCH CLG COLOR) OR LAY IN GRID (WHITE).
- I. PROVIDE SEALANT JTS @ INSIDE CORNERS OF TILED WALLS.
- J. VERIFY EXACT FLOOR TILE PATTERN FOR ALL TOILET ROOMS. COORDINATE WITH ARCHITECT.

FINISH PLAN GENERAL NOTES

ALL SCHEDULED FINISH DIRECTIONS ARE DIRECTIONS PER PLAN NORTH OF THE FINISH PLANS, NOT TRUE NORTH OF THE PROJECT SITE

CLASSROOM 025		ROOM NAME	ROOM NUMBER
TYP FLOOR FINISH	LVT01		
WALL BASE FINISH	BR01		
TYP WALL FINISH	PNT01		
REMARKS	1		

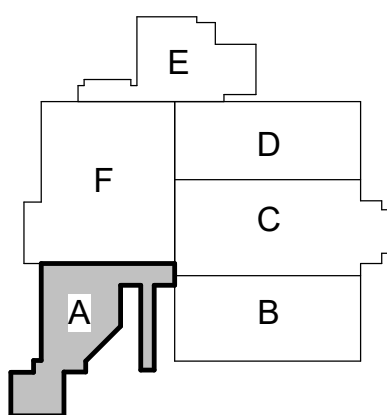
*REMARKS NUMBERS COORDINATED WITH FINISH REMARKS LEGEND LOCATED ON ALL FINISH FLOOR PLAN SHEETS

REFER TO PROJECT SPECIFICATIONS SECTION 01 6210 FOR ADDITIONAL INFORMATION REGARDING FINISH MATERIALS AND PAINT FINISH CODES.

MATERIAL TYPE	XY	##	FINISH COLOR AND MATERIAL SIZE AS NOTED IN SPEC. SECTION 01 6210
ACMU - ARCHITECTURAL CONCRETE MASONRY UNIT			
AL - ALUMINUM			
AP - ACOUSTICAL PANELS			
BP - BASE, PORCELAIN TILE			
BRES - BASE, RESINOUS INTEGRAL			
BRK - BRICK			
BR - BASE, RUBBER			
BRV - BASE, RUBBER VENTED			
BTC - BASE, TILE, CERAMIC			
BTZ - BASE, TERRAZZO PRECAST			
BWD - BASE, WOOD			
CCPS - CERAMIC CLADDING PANEL SYSTEM			
CDAP - CUSTOM DIGITALLY PRINTED ACOUSTIC PANEL			
CDW - CUSTOM DIGITAL WALLCOVERINGS			
COP - CONCRETE POLISHED			
COS - CONCRETE SEALED			
CPT - CARPET, SHEET			
CS - CAST STONE			
CSM - CONCRETE STONE MASONRY			
CT - CARPET, TILED			
CWF - CUSTOM WINDOW FILM			
EBWS - EPOXY BASED WALL SYSTEM			
EPNT - EPOXY PAINT			
FRP - FIBERGLASS REINFORCED PLASTIC PANEL SYSTEM			
GFRC - GLASS FIBER REINFORCED CONCRETE			
GRF - GROUND FACE CMU (BURNISHED)			
LVT - LUXURY VINYL TILE			
MB - MARKER BOARD			
MCM - METAL COMPOSITE MATERIAL			
MP - METAL WALL PANEL			
MS - METAL SOFFIT			
NB - NO BASE			
NS - NATURAL STONE			
PL - PLASTIC LAMINATE			
PLP - PLASTIC LAMINATE PANEL SYSTEM			
PNT - PAINT			
QIZ - QUARTZ SURFACING			
RAFF - RESILIENT ATHLETIC FLUID FLOORING			
RAFS - RESILIENT ATHLETIC FLOORING POLYURETHANE			
RAFS - RUBBER FLOORING SHEET			
RAFV - RESILIENT ATHLETIC FLOORING VINYL			
RES - RESINOUS FLOORING			
RT - RUBBER TILE			
RTR - RUBBER TREADS AND RISERS			
SPEC - SPECIAL FINISHES, REF. ROOM FINISH SCHEDULE & INTERIOR ELEVATIONS			
SPF - SPLIT-FACE CONCRETE MASONRY UNIT			
SSM - SOLID SURFACE MATERIAL			
SVT - SOLID VINYL TILE			
TB - TACK BOARD			
TC - TILE, CERAMIC			
TP - TILE, PORCELAIN			
TQ - TILE, QUARRY			
TS - TACKABLE SURFACE			
TZ - TERRAZZO			
TZP - TERRAZZO, PRECAST STAIR TREADS AND RISERS			
TZT - TERRAZZO TILE			
UP - UPHOLSTERY			
VCT - TILE VINYL COMPOSITION			
VSF - VINYL SHEET FLOORING			
WMP - WOOD (MAPLE) STRIP AND PLANK FLOORING			
WMS - MASONITE WOOD FLOORING			
WOM - WALK-OFF MAT			
WOT - WALK-OFF TILE			

(NOT ALL ABBREVIATIONS MAY BE USED)

FINISH KEY



KEY PLAN - 1ST FLOOR
NTS

Date
4/29/2025

Revision /
1

RIVERWOOD MIDDLE SCHOOL ADDITIONS & RENOVATIONS
2910 HIGH VALLEY DR, HUMBLE, TX 77345
FOR
HUMBLE ISD
KINGWOOD, TX

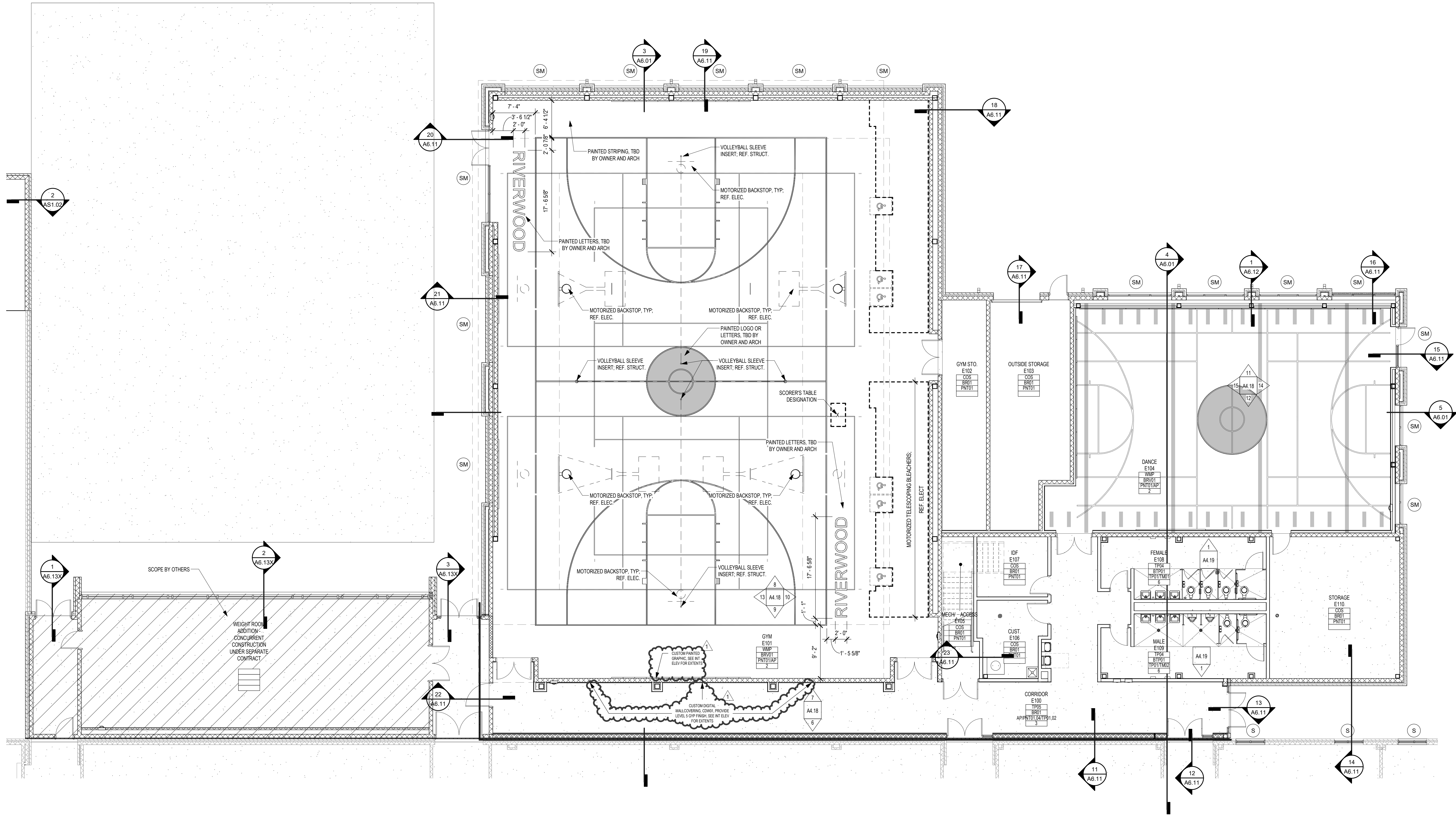
Project:



Huckabee
AUSTIN • DALLAS • FORT WORTH
HOUSTON • SAN ANTONIO • WACO
www.huckabee-inc.com
800.687.0229

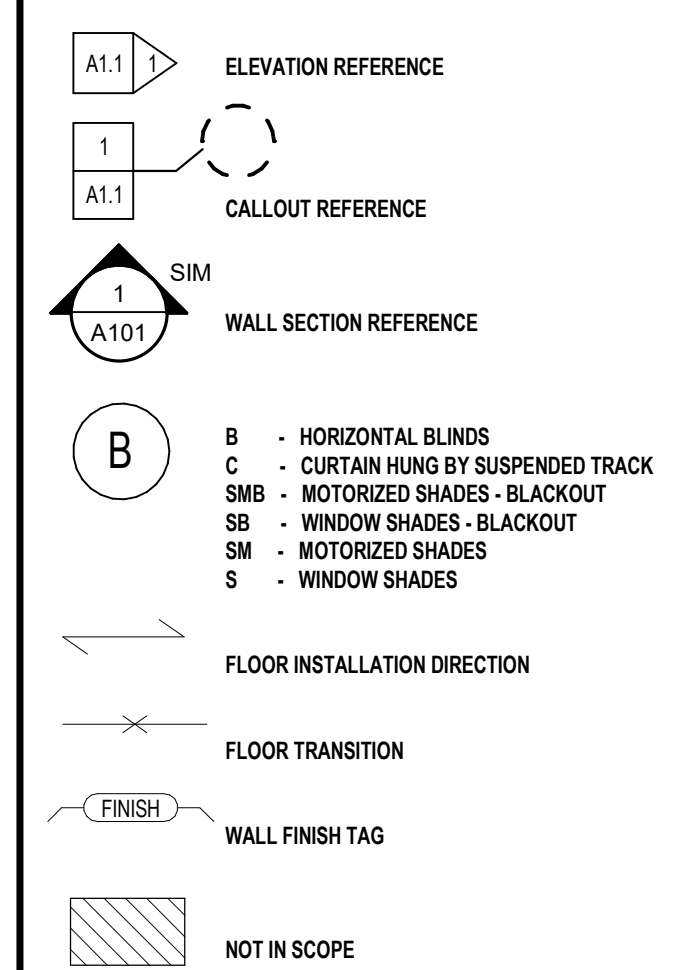
FINISH PLAN - SECTION A, F

PACKAGE	VOLUME
Job No. 1821-13-02	Sheet No. 100% OC
Drawn By: MK	
Date: 01/22/2025	A4.11



THE ROOM FINISH LEGEND HAS BEEN OMITTED FROM THIS SHEET DUE TO SPACE LIMITATIONS. REFER TO OTHER FINISH PLAN SHEETS FOR FULL ROOM FINISH SCHEDULE, SPECIAL FINISH NOTES AND DEFAULT FINISHES.

ROOM FINISH LEGEND



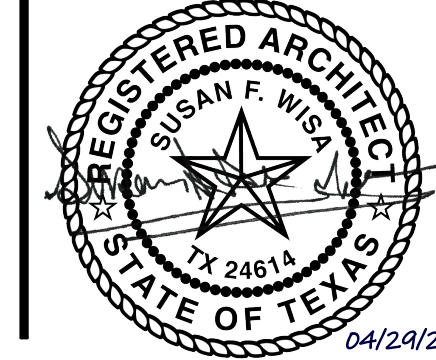
FINISH PLAN LEGEND

- NOTES APPLY TO ROOMS AS NOTED IN THE ROOM FINISH TAGS. SEE TAG LAYOUT ABOVE.
1. REFER TO PLAN FOR EXTENTS OF PAINT AND RUBBER BASE.
 2. REFER TO INTERIOR ELEVATIONS FOR EXTENTS OF ACOUSTIC PANEL.
 3. REFER TO SHEET 05.0105.02 AND INTERIOR ELEVATIONS FOR EXTENTS OF CUSTOM DIGITAL WALLCOVERING.
 4. REFER TO FINISH PLAN FOR LOCATION OF ACCENT WALL. PAINTED, PNT02.
 5. REFER TO FINISH PLAN FOR EXTENTS OF NS01, TP01, PNT01, AND PNT04.
 6. REFER TO INTERIOR ELEVATIONS FOR EXTENT OF BTP, TP, AND TM IN RESTROOMS.

FINISH REMARKS

RIVERWOOD MIDDLE SCHOOL ADDITIONS & RENOVATIONS
2910 HIGH VALLEY DR, HUMBLE, TX 77345
FOR
HUMBLE ISD
KINGWOOD, TX

Project:

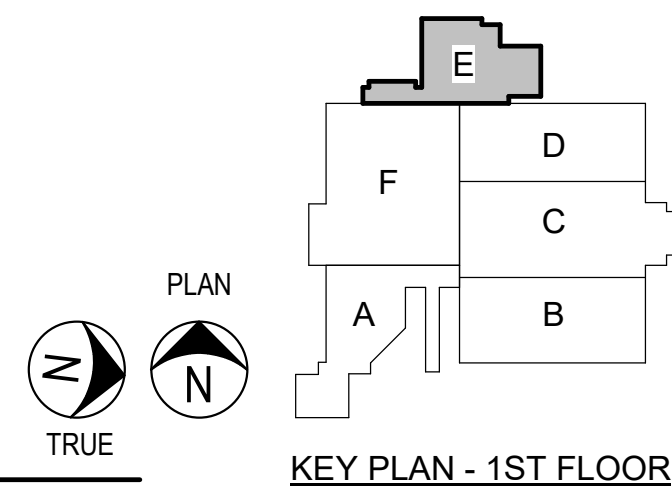


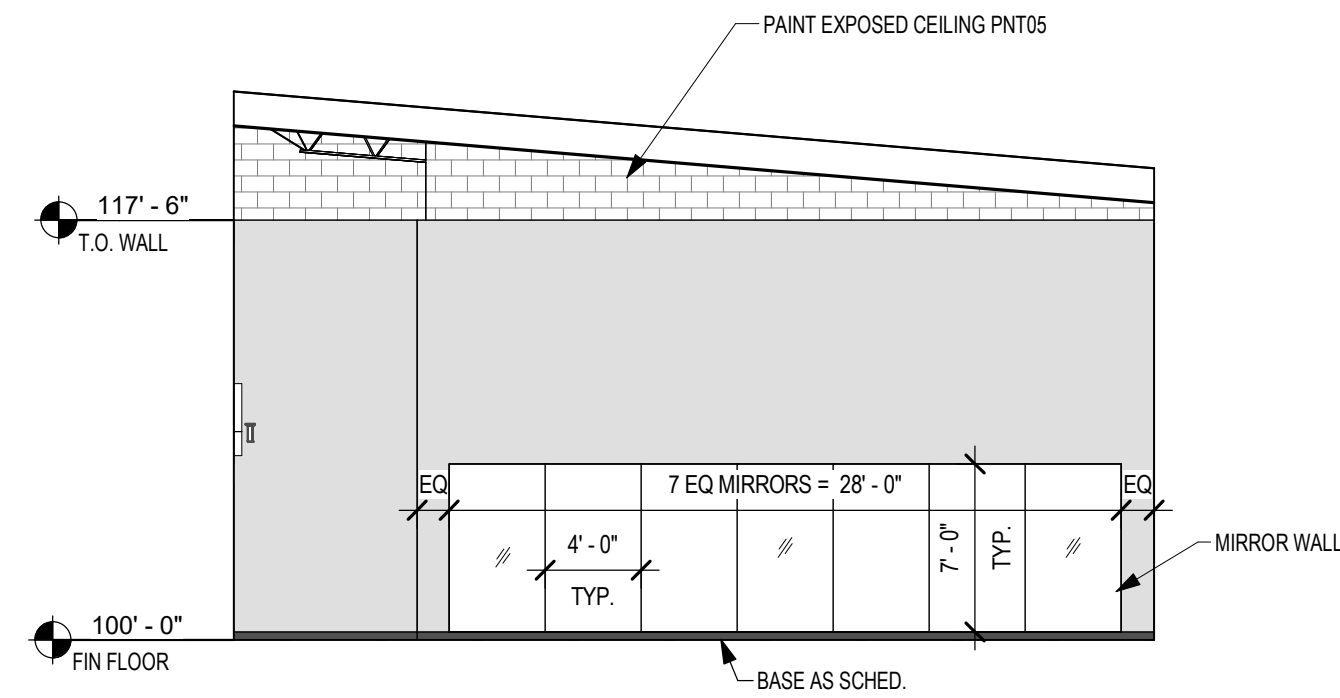
Huckabee
AUSTIN • DALLAS • FORT WORTH
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FINISH PLAN - SECTION E

PACKAGE	VOLUME
Job No. 1821-13-02	Sheet No. 100% OC
Drawn By: MK	
Date: 01.22.2025	A4.15

1 FINISH PLAN - SECTION E
1/8" = 1'-0"

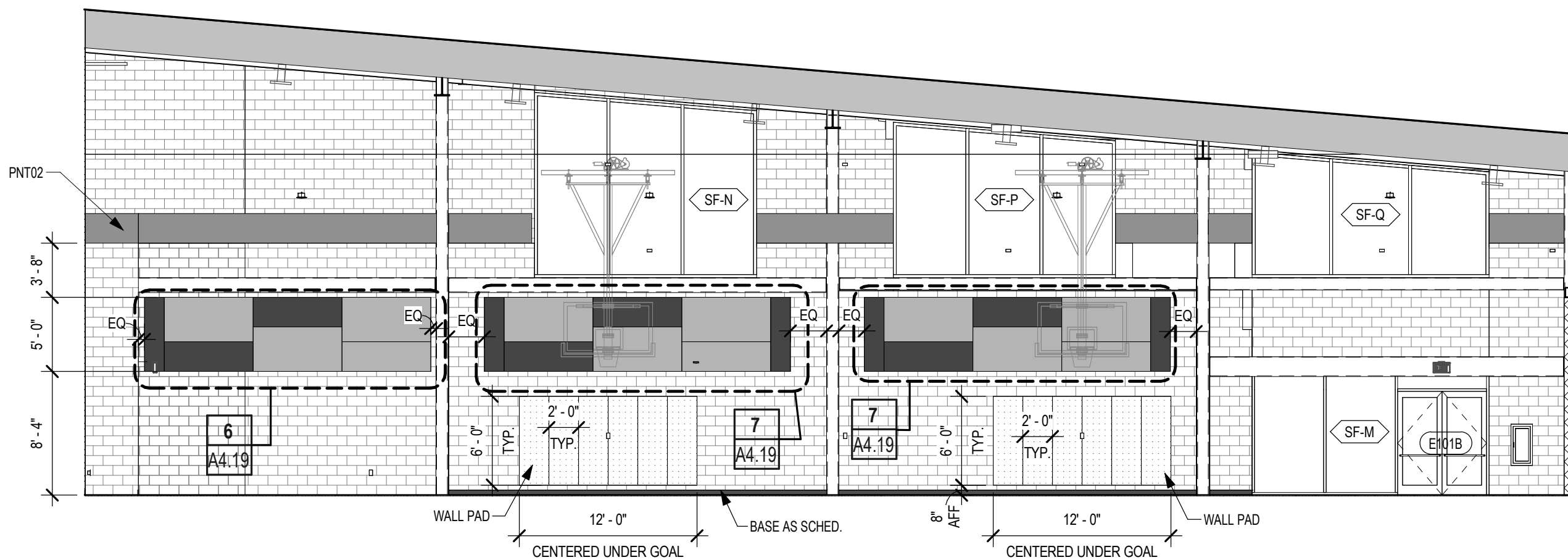




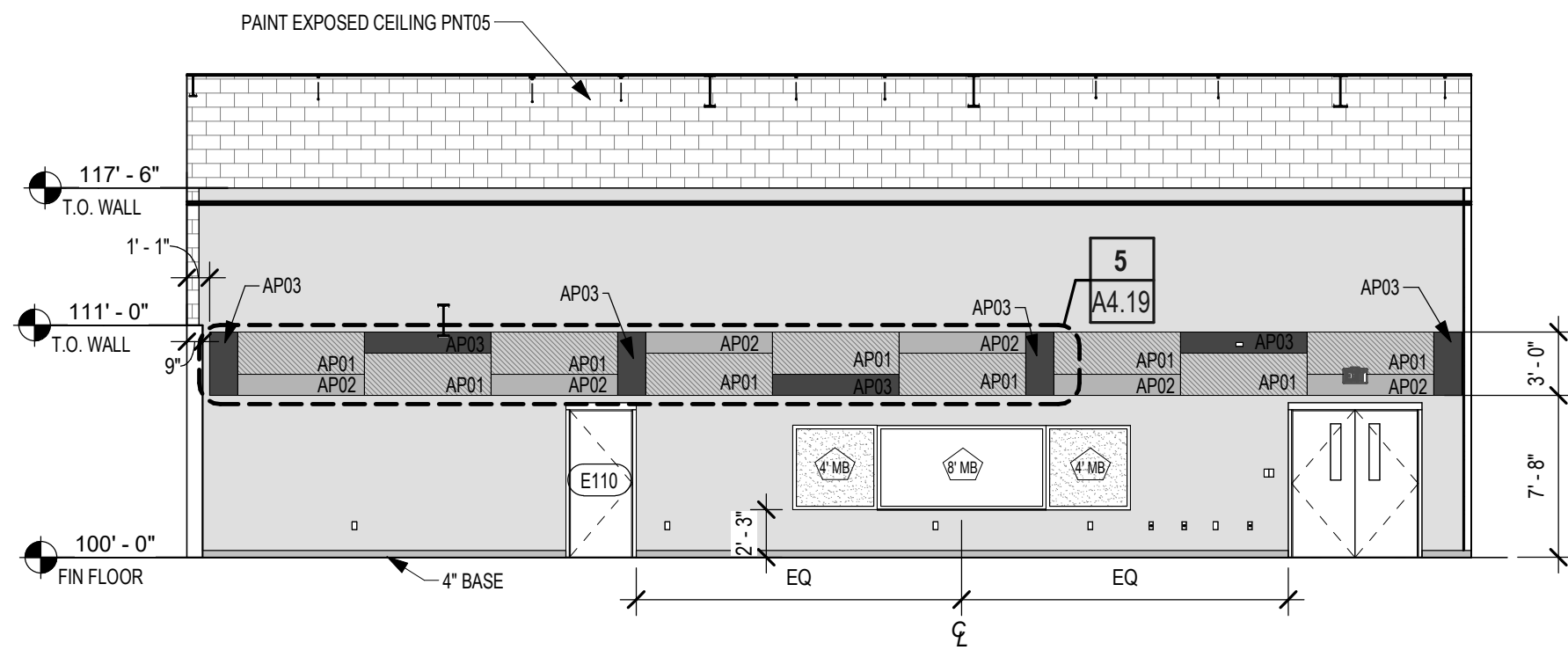
15 INT ELEVATION - DANCE
1/8" = 1'-0"



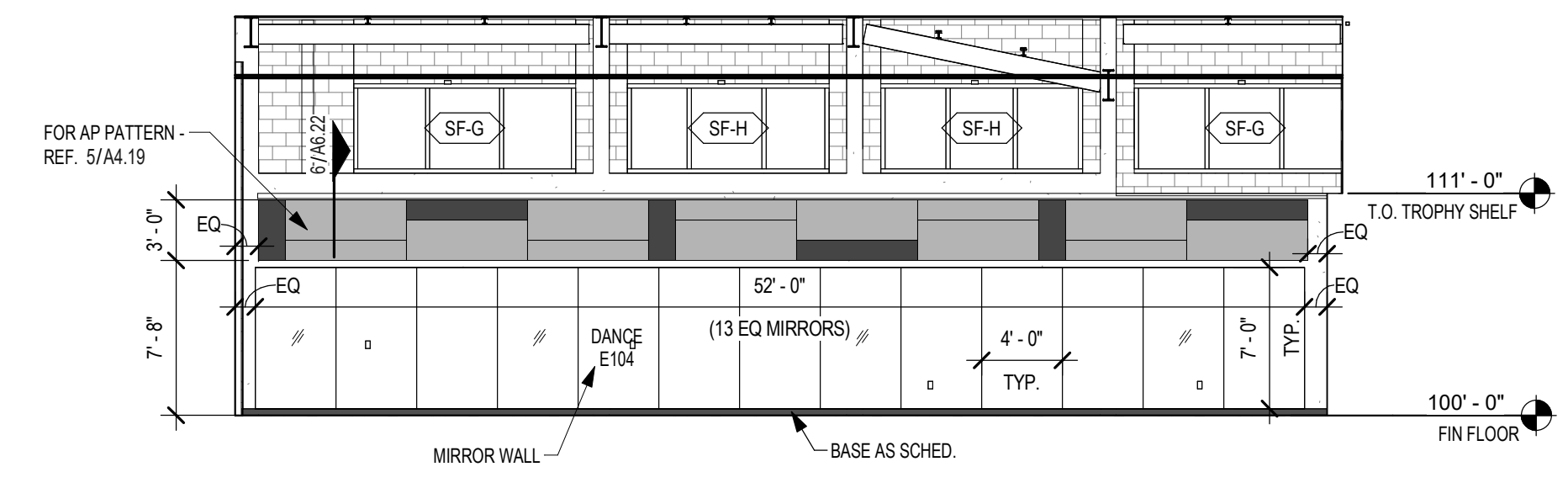
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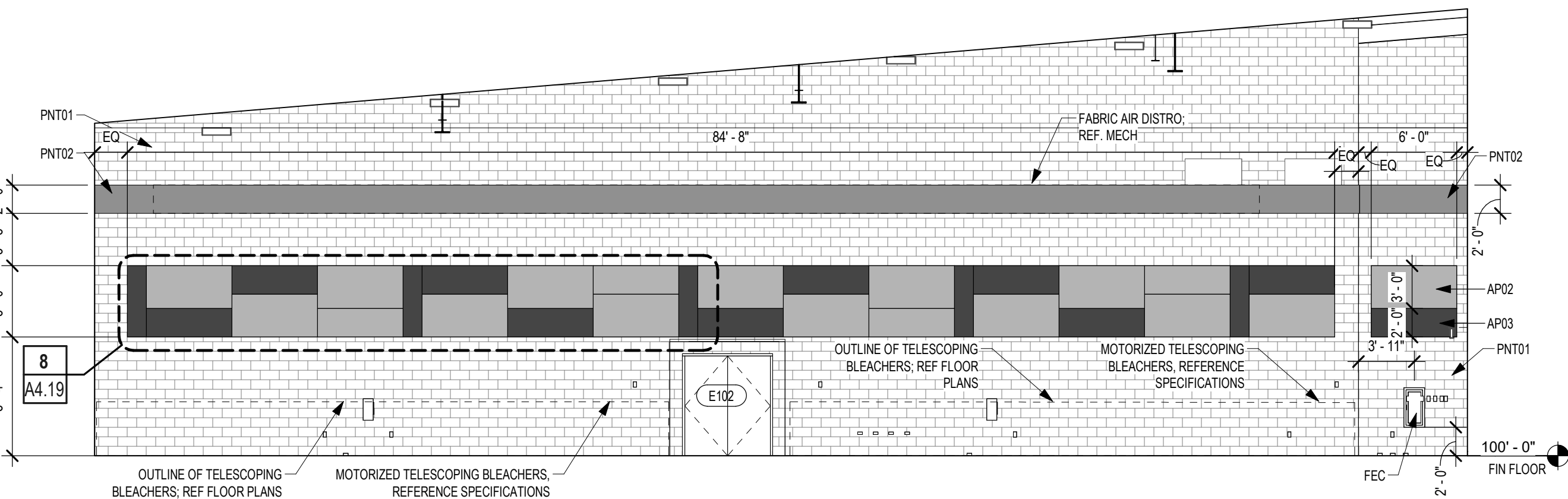
13 INTERIOR ELEVATION - GYM
1/8" = 1'-0"



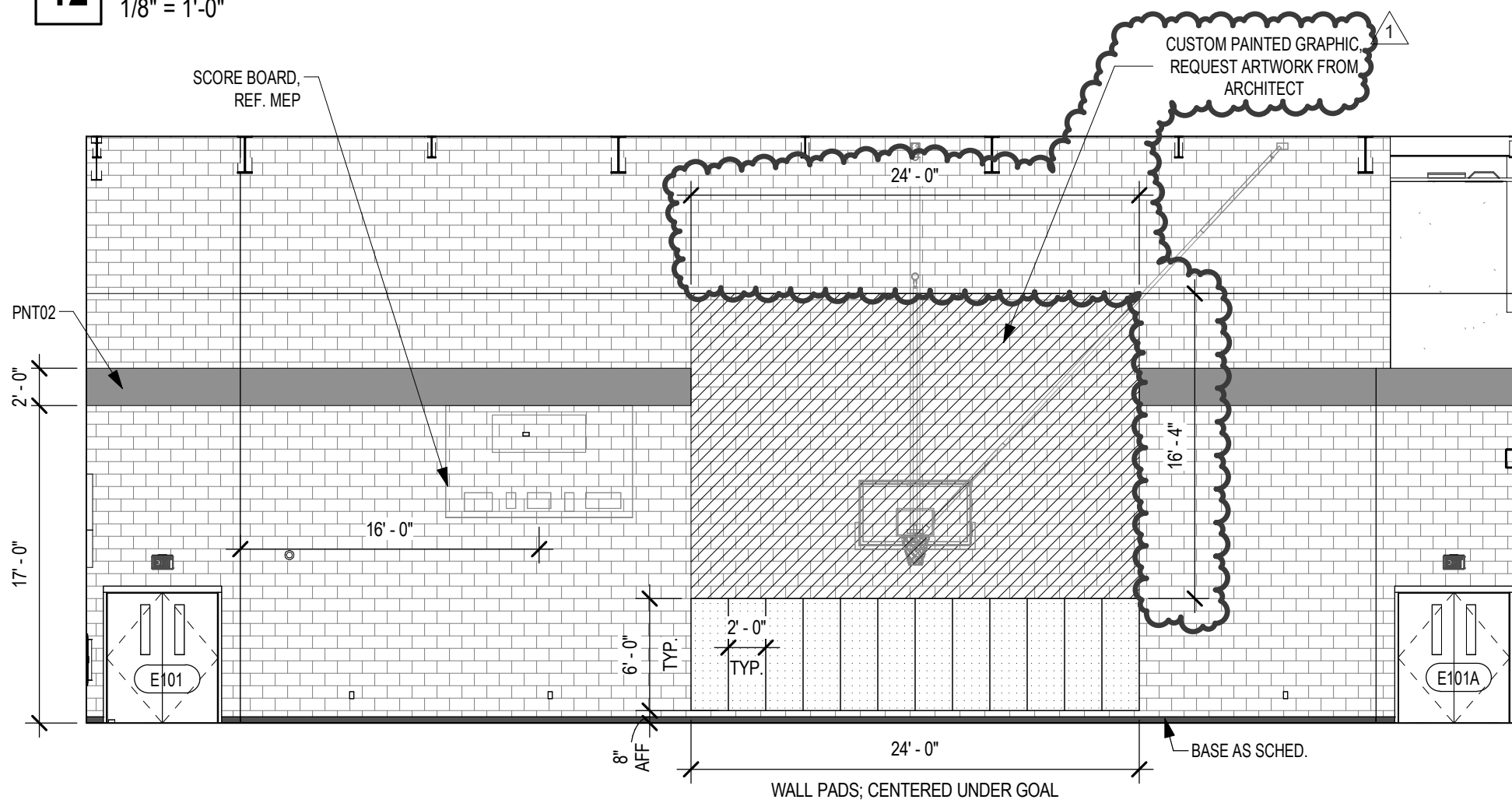
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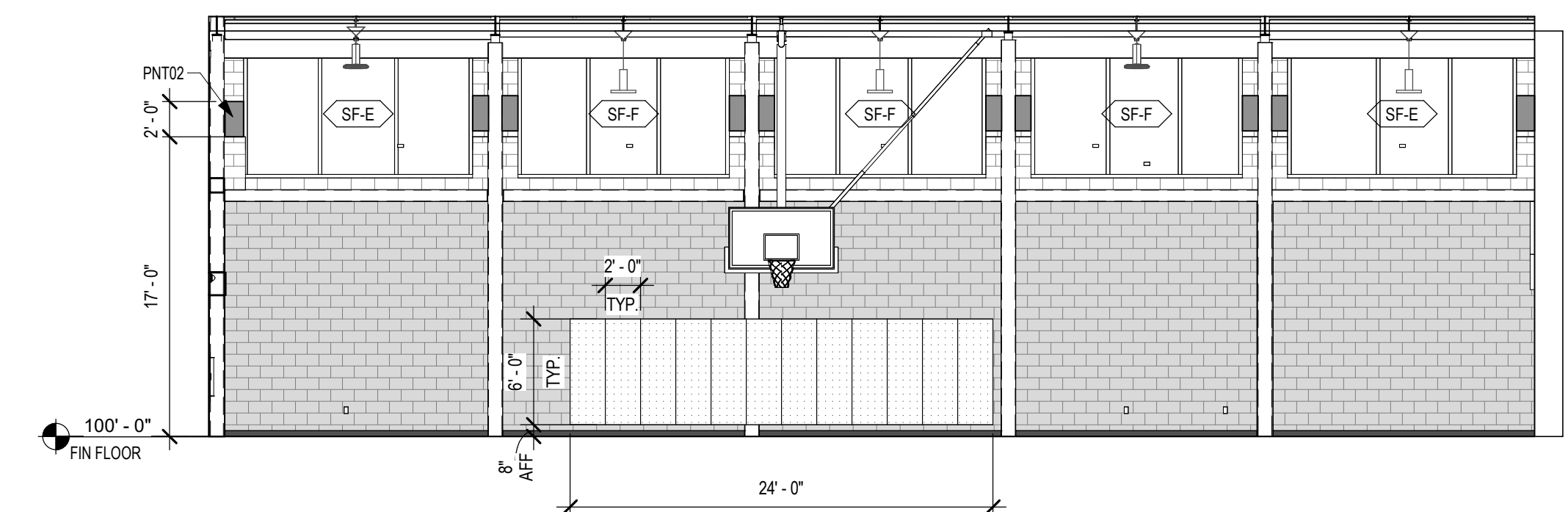
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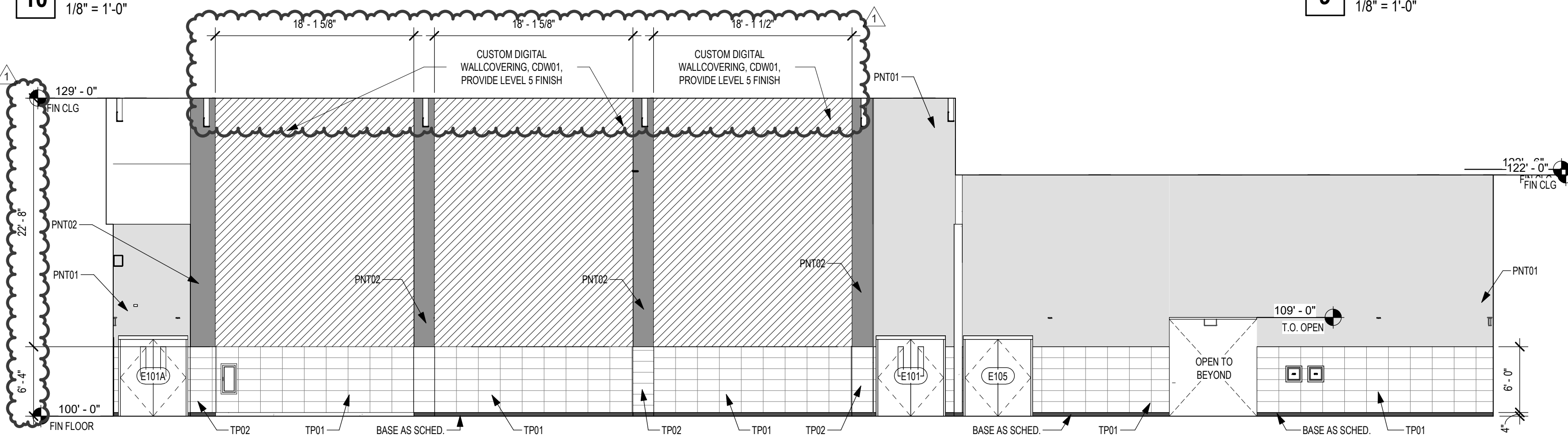
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1/8" = 1'-0"



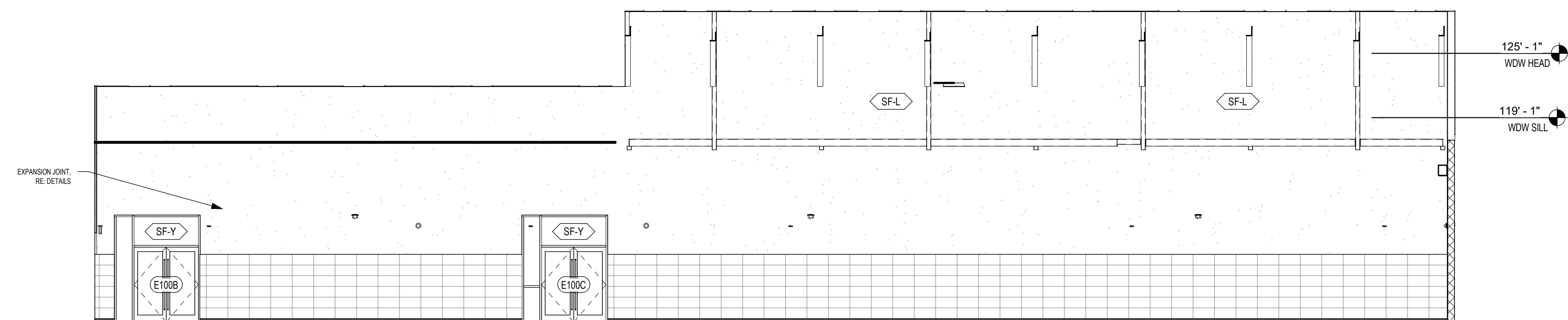
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1/8" = 1'-0"



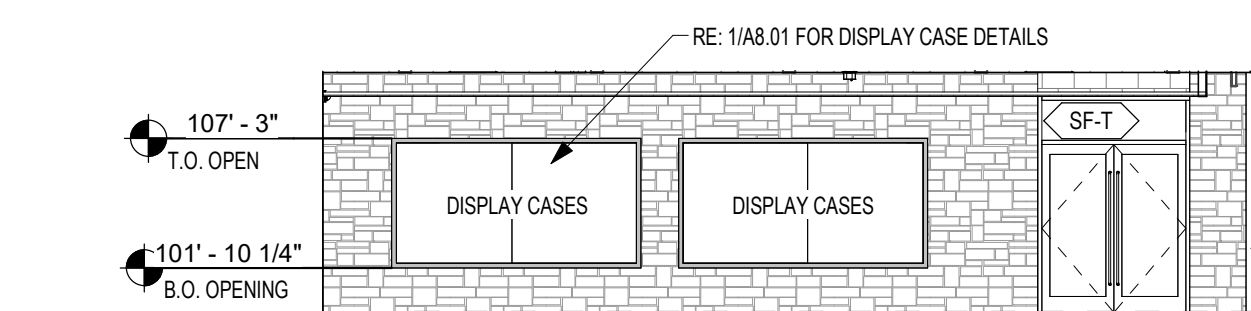
8 INTERIOR ELEVATION - GYM
1/8" = 1'-0"



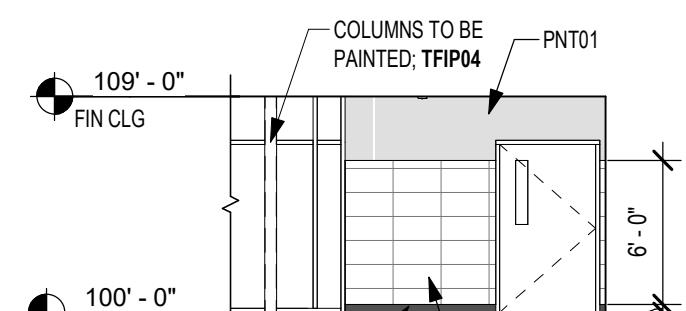
7 INT ELEV - CORRIDOR
1/8" = 1'-0"



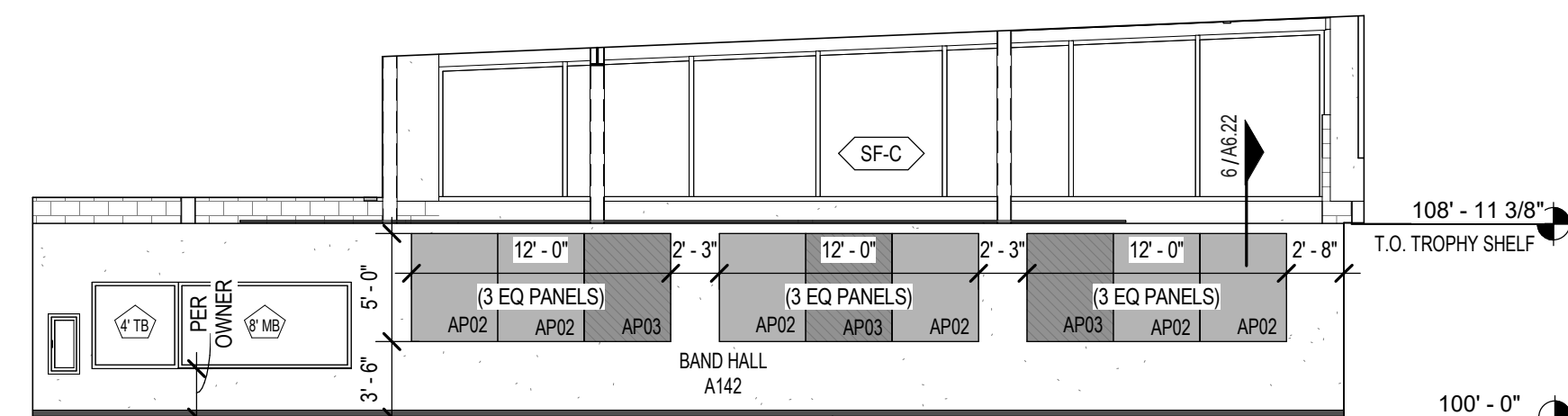
6 INT ELEV - CORRIDOR
1/8" = 1'-0"



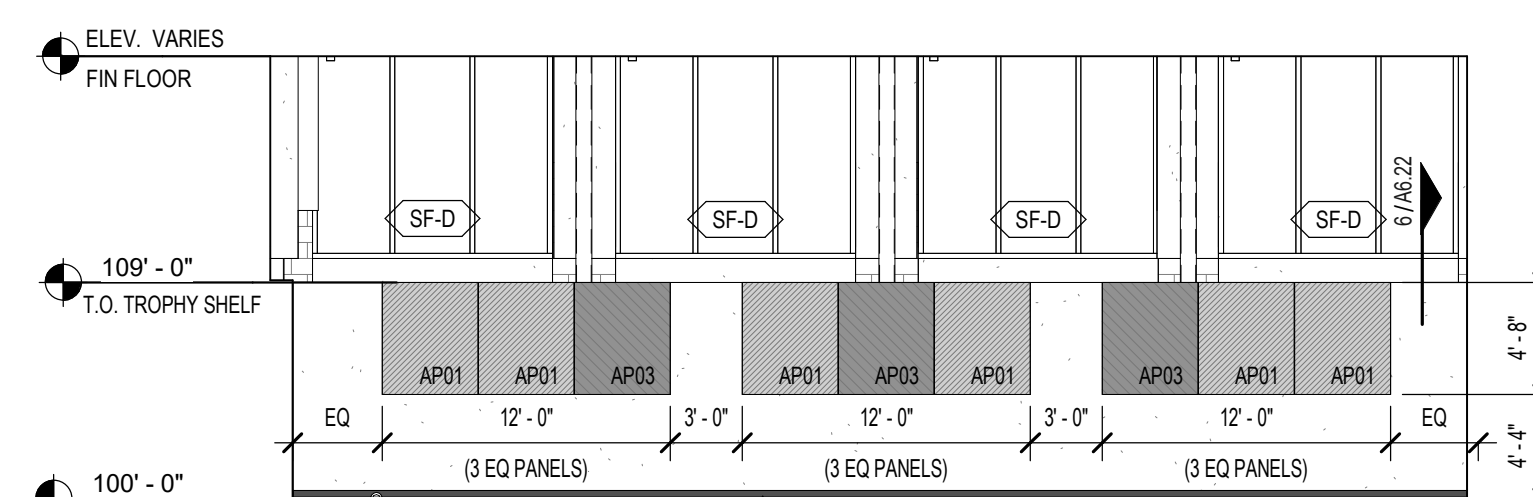
5 INTERIOR ELEVATION - LOBBY A132
1/8" = 1'-0"



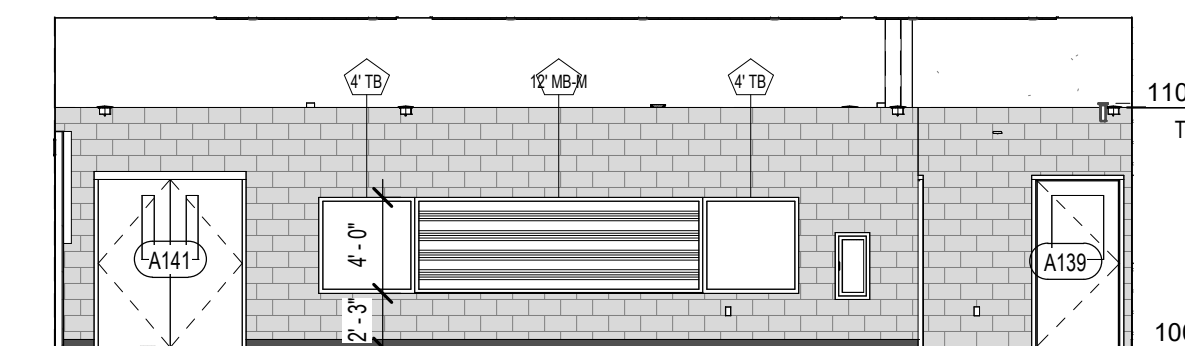
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1/8" = 1'-0"



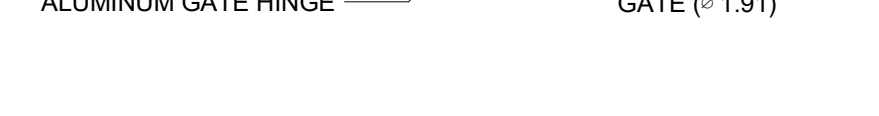
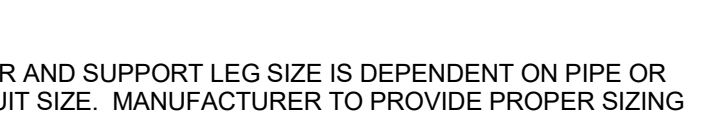
3 INTERIOR ELEVATION - BAND HALL
1/8" = 1'-0"



2 INTERIOR ELEVATION - BAND HALL
1/8" = 1'-0"



1 INTERIOR ELEVATION - BAND HALL
1/8" = 1'-0"



	TABLE	

CULINARY LAB AIR BALANCE CALCULATION TABLE				
MARK	EXHAUST AIR CFM	OUTSIDE AIR CFM	MAKE-UP AIR CFM	
KEF-1	1,500	-	-	
KEF-2	2,100	-	-	
KEF-3	2,100	-	-	
KEF-4	2,100	-	-	
RM AHU-1	-	780	-	
RM AHU-1	-	-	7,020	
TOTALS	-7,800	780	7,020	
			NET AIRFLOW	0

FAN																
MARK	LOCATION		SUPPLY CFM	EXT. STATIC PRESSURE (IN. W.C.)	MAX. RPM	HORSE POWER	CURRENT CHARAC.			LOCALLY SWITCHED BY	INTERLOCKED WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
	NAME	NUMBER					V	P	F							
KEF-1	CULINARY	B112	1500	1.00	1,290	0.5	120	1	60	-	HOOD-1	ROOF MOUNTED	DIRECT	COOK	VCR	1,2,3,4,7
KEF-2	CULINARY	B112	2100	1.00	1,369	1	120	1	60	-	HOOD-2	ROOF MOUNTED	DIRECT	COOK	VCR	1,2,3,4,7
KEF-3	CULINARY	B112	2100	1.00	1,369	1	120	1	60	-	HOOD-3	ROOF MOUNTED	DIRECT	COOK	VCR	1,2,3,4,7
KEF-4	CULINARY	B112	2100	1.00	1,369	1	120	1	60	-	HOOD-4	ROOF MOUNTED	DIRECT	COOK	VCR	1,2,3,4,7
EF-1	COMPUTERS	C149	125	0.50	1,550	0.13	120	1	60	-	AHU-16	ROOF MOUNTED	BELT	COOK	ACED	1,2,4
EF-2	MECHANICAL PLATFORM	G100	725	0.75	2,160	0.3	120	1	60	-	AHU-2	INLINE	BELT	COOK	SON	1,2,4,6
EF-3	MECH	A133	1400	0.50	1,103	0.34	480	3	60	-	AHU-3	INLINE	BELT	COOK	SQND	1,2,4,5,6
GENERAL NOTES:																
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.																
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.																
REMARKS:																
1. PROVIDE WITH DISCONNECT SWITCH.																
2. PROVIDE WITH ROOF CURB AND BIRD SCREEN.																
3. PROVIDE WITH EEC CONTROL MOTOR.																
4. PROVIDE WITH MOTORIZED DAMPER.																
5. PROVIDE WITH VARIABLE FREQUENCY DRIVE.																
6. SUSPEND FAN FROM STRUCTURE WITH FOUR THREADED RODS AND UNISTRUT.																
7. PROVIDE WITH CLEANOUT PORT, VENTED CURB EXTENSION TO MEET NFPA 96, DRAIN CONNECTION, GREASE TRAP AND HINGE KIT.																

CHILLED & HOT WATER FAN/COIL UNIT																						
MARK	FAN				CURRENT			AIR TEMPERATURE (°F)		COOLING		WATER		HEATING		PIPE SIZE TO COIL (IN.)		REMARKS				
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESS. (IN. W.C.)	HORSE POWER	V	P	F	ENTERING DRY BULB	ENTERING WET BULB	MIN. TOTAL CAPACITY (BTU/H)	SENSIBLE CAPACITY (BTU/H)	ENTERING TEMP (°F)	GPM	PRESSURE DROP (FT.)	ENTERING AIR TEMP (°F)	MIN. CAPACITY (BTU/H)	ENTERING TEMP (°F)		GPM	PRESSURE DROP (FT.)	CHILLED WATER	HOT WATER
FCU-1	900	0	0.80	1.0	277	1	60	75.0	62.5	22,297	19,634	45	3	15.0	72.0	22,356	180	1.1	10.0	3/4"	3/4"	1,2,3,4,5,6,7,8,9,10,11
FCU-2	900	120	0.80	1.0	277	1	60	78.0	65.2	30,354	22,521	45	4	15.0	65.5	28,674	180	1.4	10.0	1"	3/4"	1,2,3,4,5,6,7,8,9,10,11
FCU-3	900	0	0.80	1.0	277	1	60	75.0	62.5	22,297	19,634	45	3	15.0	72.0	22,356	180	1.1	10.0	3/4"	3/4"	1,2,3,4,5,6,7,8,9,10,11
FCU-4	470	100	0.80	0.5	277	1	60	76.9	64.3	14,422	11,218	45	2	15.0	67.8	13,802	180	0.7	10.0	3/4"	3/4"	1,2,3,4,5,6,7,8,9,10,11
FCU-5	910	135	0.80	1.0	277	1	60	78.3	65.5	31,627	23,096	45	4	15.0	64.8	29,581	180	1.5	10.0	1"	3/4"	1,2,3,4,5,6,7,8,9,10,11
FCU-6	900	0	0.80	1.0	277	1	60	75.0	62.5	22,297	19,634	45	3	15.0	72.0	22,356	180	1.1	10.0	3/4"	3/4"	1,2,3,4,5,6,7,8,9,10,11
FCU-7	900	0	0.80	1.0	277	1	60	75.0	62.5	22,297	19,634	45	3	15.0	72.0	22,356	180	1.1	10.0	3/4"	3/4"	1,2,3,4,5,6,7,8,9,10,11
FCU-8	1,055	0	0.80	1.0	277	1	60	75.0	62.5	26,136	23,016	45	3	15.0	72.0	22,356	180	1.3	10.0	1"	3/4"	1,2,3,4,5,6,7,8,9,10,11
FCU-9	2,280	550	0.80	2.5	277	1	60	82.6	69.0	113,867	70,917	45	15	15.0	56.9	96,280	180	4.8	10.0	1 1/2"	1"	1,2,3,4,5,6,7,8,9,10,11
OAFU-1	550	550	0.80	0.8	277	1	60	98.0	80.0	52,970	12,780	45	9	15.0	27.0	25,660	180	2.6	10.0	1 1/4"	3/4"	1,2,3,4,5,6,7,8,9,10,11
GENERAL NOTES:																						
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.																						
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.																						
REMARKS:																						
1. VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL.																						
2. PROVIDE THREE-WAY HEATING CONTROL VALVES.																						
3. PROVIDE CONSTANT VOLUME UNIT.																						
4. PROVIDE HOT WATER COIL IN REHEAT POSITION.																						
5. PROVIDE UNIT WITH ANGLED FILTER SECTION.																						
6. PROVIDE TWO-WAY COOLING CONTROL VALVES.																						
7. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNITS. PROVIDE TWO-WAY COOLING CONTROL VALVES.																						
8. PROVIDE MANUFACTURER FOR DETAILED ROADS.																						
9. PROVIDE 2-WAY COOLING CONTROL VALVES.																						
10. PROVIDE 2-WAY COOLING CONTROL VALVES.																						
11. PROVIDE UNIT WITH PURIFICATION SYSTEM. REFER TO SPECIFICATIONS.																						

GRILLE									
MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION	
A	SUPPLY AIR	DIFFUSER	-	STEEL	-	TITUS	OMNI	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"x24" OR 12"x12" FACE.	
B	RETURN AIR	GRILLE	-	STEEL	-	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"x24" OR 12"x12" FACE. (1,2).	
C	SUPPLY AIR	GRILLE	-	STEEL	-	TITUS	300RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1).	
D	RETURN AIR	GRILLE	-	STEEL	-	TITUS	350RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1).	
E	EXHAUST AIR	GRILLE	-	STEEL	-	TITUS	350RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1).	
F	SUPPLY AIR	DIFFUSER	-	STEEL	-	TITUS	PAS	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"x24" FACE. (1)	
G	EXHAUST AIR	GRILLE	-	STEEL	-	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"x24" OR 12"x12" FACE. PERFORATED FACE.	
GENERAL NOTES:								REMARKS:	
1. DAMPERS NOTED AS U.L. SHALL BE A U.L. CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.								1. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.	
2. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.								2. PROVIDE WITH RETURN AIR BOOT WHEN USED FOR PLENUM RETURN.	

BOILER - FORCED AIR													
MARK	TYPE	MINIMUM GAS INPUT (BTU/H)	MINIMUM HEAT OUTPUT (BTU/H)	PRESSURE DROP (FT.H ₂ O)	GPM	FLUE SIZE	ELECTRICAL				MANUFACTURER	MODEL NUMBER	REMARKS
							BLOWER HORSEPOWER (WATT)	CURRENT CHARAC.					
							V	P	F				
B-1	CONDENSING	2000000.0 Btu/h	1928000.0 Btu/h	10.0	97.4	10	890	208	1	60	PATTERSON-KELLEY	SC 2000	1,2,3
B-2	CONDENSING	2000000.0 Btu/h	1928000.0 Btu/h	10.0	97.4	10	890	208	1	60	PATTERSON-KELLEY	SC 2000	1,2,3
GENERAL NOTES:							REMARKS:						
1. PROVIDE 8 OUNCE GAS PRESSURE TO BOILER.													
2. MAINTAIN MINIMUM CLEARANCE AROUND A BOILER OF 24 INCHES PER TEXAS BOILER LAW. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC.													
							1. PROVIDE WITH CIRCULATING PUMP. SIZED BY BOILER MANUFACTURER TO ENSURE CONSTANT FLOW THROUGH BOILER. PUMP TO BE SHIPPED LOOSE. POWER BY ELECTRICAL CONTRACTOR BUT CONTROLLED BY BOILER. CONTRACTOR TO WIRE FROM BOILER PUMP CONTROL CIRCUIT TO PUMP STARTER RELAY.						
							2. PROVIDE SEALED COMBUSTION BOILER.						

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ELECTRICAL GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, SHALL REMAIN.
2. REFER TO TECHNOLOGY (T-SERIES) DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DIVISION 26 SCOPE OF WORK.
3. UNLESS NOTED OTHERWISE, REINSTALL ALL EXISTING LIGHT FIXTURES AND ALL CEILING MOUNTED ELECTRICAL IN NEW CEILINGS WHERE APPLICABLE. DEVICES INCLUDE BUT ARE NOT LIMITED TO LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, ETC. REFER TO ARCHITECTURAL PLANS FOR AREAS THAT THE CEILING IS BEING REPLACED.

ELECTRICAL KEYED NOTES:

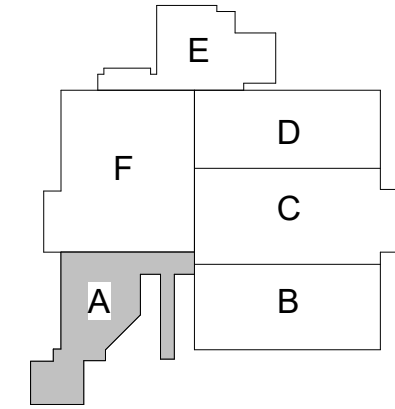
1. PROVIDE JUNCTION BOX AT +54" AFF FOR CONNECTION OF FIRE ALARM BOOSTER PANEL. VERIFY FINAL LOCATION WITH FIRE ALARM SHOP DRAWINGS AND MAKE FINAL CONNECTION.
2. PROVIDE JUNCTION BOX AT +54" AFF FOR CONNECTION OF BMCS PANEL. VERIFY FINAL LOCATION WITH BMCS SHOP DRAWINGS AND MAKE FINAL CONNECTION.
3. PROVIDE JUNCTION BOX FOR CONNECTION OF AIR PURIFICATION SYSTEM. COORDINATE EXACT LOCATION AND MAKE FINAL CONNECTION.
4. VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER (VFD), PROVIDED BY DIVISION 23, INSTALLED BY DIVISION 26.
5. PROVIDE 120V ELECTRIC CORD REEL MOUNTED TO BOTTOM OF STRUCTURE WITH GFCI DOUBLE DUPLEX RECEPTACLE. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. CONNECT TO EXISTING CORD REEL CIRCUIT PRESERVED DURING DEMOLITION. EXTEND CONDUIT/WIRE AND MAKE FINAL CONNECTION.
6. PROVIDE NEW EPO (EMERGENCY POWER OFF) FOR LOCAL PANEL SHUT OFF FOR SHOP EQUIPMENT. PROVIDE SWITCH WITH COVER AND KEY RESET. APPROVED MANUFACTURER: STI OR APPROVED EQUAL.
7. PROVIDE A JUNCTION BOX FOR CONNECTION OF MOTORIZED SHADES. COORDINATE LOCATION OF LOW VOLTAGE SHADE CONTROLS WITH ARCHITECT AND MAKE ALL FINAL CONNECTIONS.
8. MOTORIZED SHADE CONTROLLER PROVIDED WITH SHADES. VERIFY EXACT LOCATION WITH ARCHITECT.

ALL 15 AND 20 AMPERES, 125 AND 250-VOLT NON-LOCKING-TYPE RECEPTACLES IN THE AREAS SPECIFIED IN 406.12(1) THROUGH (7) SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES.

Date
02-16-24
04-29-25
Revision /
1
6
City Comments 1
Addendum 3

CREEKWOOD MIDDLE SCHOOL ADDITIONS & RENOVATIONS
3603 W LAKE HOUSTON PKWY, KINGWOOD, TX 77339
FOR
HUMBLE ISD
KINGWOOD, TX

Project:



NTS

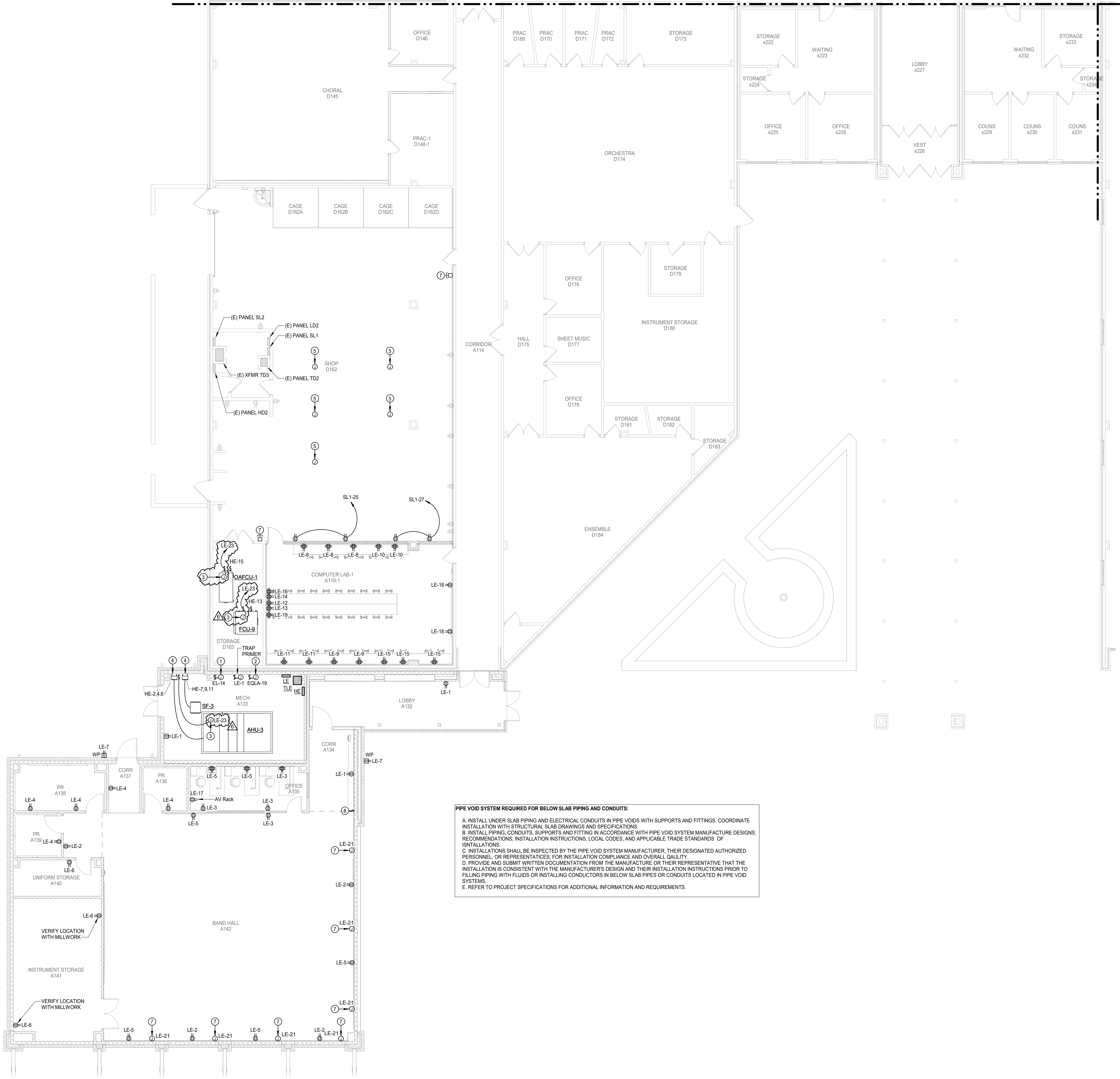
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ELECTRICAL POWER FLOOR PLAN - SECTION A

Salas O'Brien
Houston
19030 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2022-05088-00

PACKAGE
Job No.
1821-13-01
Drawn By:
DES
Date:
04/01/2025
VOLUME
Sheet No.
E3.11

ELECTRICAL POWER FLOOR PLAN - CMS - SECTION A
Scale: 1/8" = 1'-0"



PIPE VOID SYSTEM REQUIRED FOR BELOW SLAB PIPING AND CONDUITS:

A. INSTALL UNDER SLAB PIPING AND ELECTRICAL CONDUITS IN PIPE VOIDS WITH SUPPORTS AND FITTINGS. COORDINATE INSTALLATION WITH STRUCTURAL SLAB DRAWINGS AND SPECIFICATIONS.

B. INSTALL PIPING, CONDUITS, SUPPORTS AND FITTING IN ACCORDANCE WITH PIPE VOID SYSTEM MANUFACTURE DESIGNS, RECOMMENDATIONS, INSTALLATION INSTRUCTIONS, LOCAL CODES, AND APPLICABLE TRADE STANDARDS OF INSTALLATIONS.

C. INSTALLATIONS SHALL BE INSPECTED BY THE PIPE VOID SYSTEM MANUFACTURER, THEIR DESIGNATED AUTHORIZED PERSONNEL, OR REPRESENTATIVES, FOR INSTALLATION COMPLIANCE AND OVERALL QUALITY.

D. PROVIDE AND SUBMIT WRITTEN DOCUMENTATION FROM THE MANUFACTURE OR THEIR REPRESENTATIVE THAT THE INSTALLATION IS CONSISTENT WITH THE MANUFACTURER'S DESIGN AND THEIR INSTALLATION INSTRUCTIONS PRIOR TO FILLING PIPING WITH FLUIDS OR INSTALLING CONDUCTORS IN BELOW SLAB PIPES OR CONDUITS LOCATED IN PIPE VOID SYSTEMS.

E. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ELECTRICAL GENERAL NOTES:

- UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, SHALL REMAIN.
- REFER TO TECHNOLOGY (T-SERIES) DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DIVISION 26 SCOPE OF WORK.
- UNLESS NOTED OTHERWISE, REINSTALL ALL EXISTING LIGHT FIXTURES AND ALL CEILING MOUNTED ELECTRICAL IN NEW CEILINGS WHERE APPLICABLE. DEVICES INCLUDE BUT ARE NOT LIMITED TO LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, ETC. REFER TO ARCHITECTURAL PLANS FOR AREAS THAT THE CEILING IS BEING REPLACED.

ELECTRICAL KEYED NOTES:

- INTERCEPT ALL EXISTING BRANCH CIRCUITS AND/OR FEEDERS IN THIS AREA AND RE-ROUTE AROUND NEW SKYLIGHT. EXTEND CONDUIT/WIRE AND RECONNECT TO EXISTING CIRCUITRY. TYPICAL FOR (3)3/4" CONDUITS. CONTRACTOR SHALL FIELD VERIFY EXISTING.
- INTERCEPT ALL EXISTING BRANCH CIRCUITS AND/OR FEEDERS IN THIS AREA AND RE-ROUTE AROUND NEW SKYLIGHT. EXTEND CONDUIT/WIRE AND RECONNECT TO EXISTING CIRCUITRY. TYPICAL FOR (7)3/4" CONDUITS. CONTRACTOR SHALL FIELD VERIFY EXISTING.
- PROVIDE (2)3/4" RIGID GALVANIZED CONDUITS PENETRATED THROUGH ROOF FOR RECEPTACLE WIRING AND SUPPORT PER NEC 314. REFER TO ARCHITECTURAL DRAWINGS FOR PENETRATION.
- PROVIDE JUNCTION BOX FOR CONNECTION OF AIR PURIFICATION SYSTEM. COORDINATE EXACT LOCATION AND MAKE FINAL CONNECTION.
- ROUTE 2#12, 1#12G, 3/4"C TO NEW 20A/1P CIRCUIT BREAKER IN PANEL LC1. FIELD VERIFY THE SPACE AVAILABLE.

ALL 15 AND 20 AMPERES, 125 AND 250-VOLT NONLOCKING-TYPE RECEPTACLES IN THE AREAS SPECIFIED IN 406.12(1) THROUGH (7) SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES.

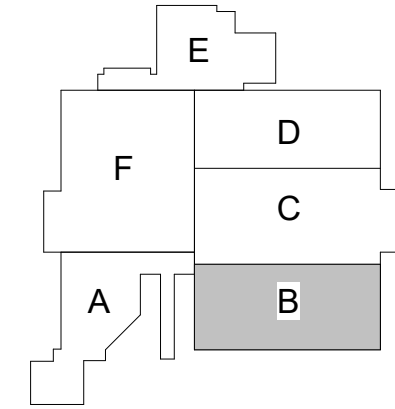
City Comments 1
Addendum 3

Date
02-16-24
04-29-25

Revision /
1
6

CREEKWOOD MIDDLE SCHOOL ADDITIONS & RENOVATIONS
3603 W LAKE HOUSTON PKWY, KINGWOOD, TX 77339
FOR
HUMBLE ISD
KINGWOOD, TX

Project:



KEY PLAN - 1ST FLOOR
NTS

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ELECTRICAL POWER FLOOR
PLAN - SECTION B

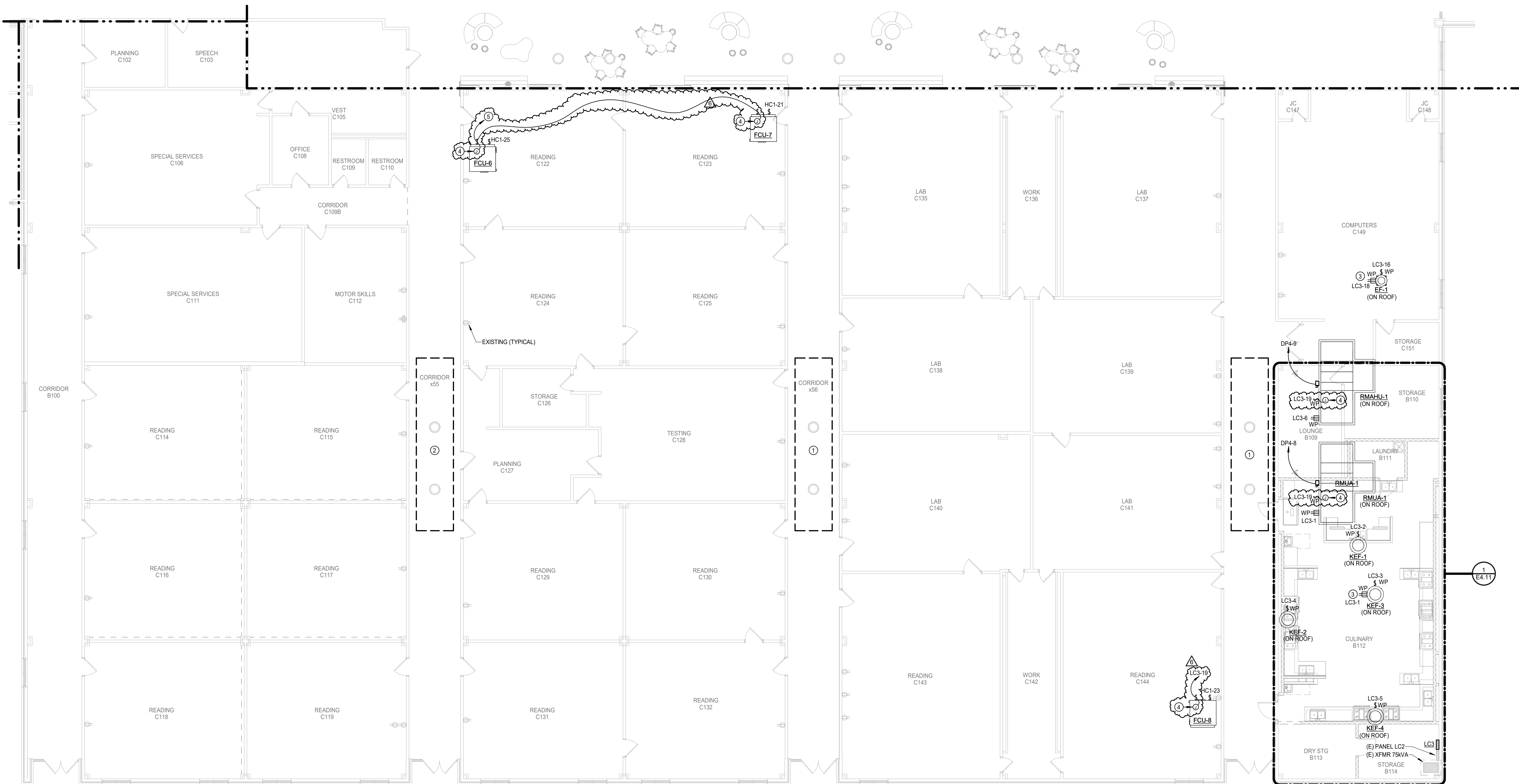
Salas O'Brien

Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2022-05088-00

PACKAGE
Job No.
1821-13-01
Drawn By:
DES
Date:
04.01.2025

VOLUME
Sheet No.
E3.12

ELECTRICAL POWER FLOOR PLAN - CMS - SECTION B
Scale: 1/8" = 1'-0"



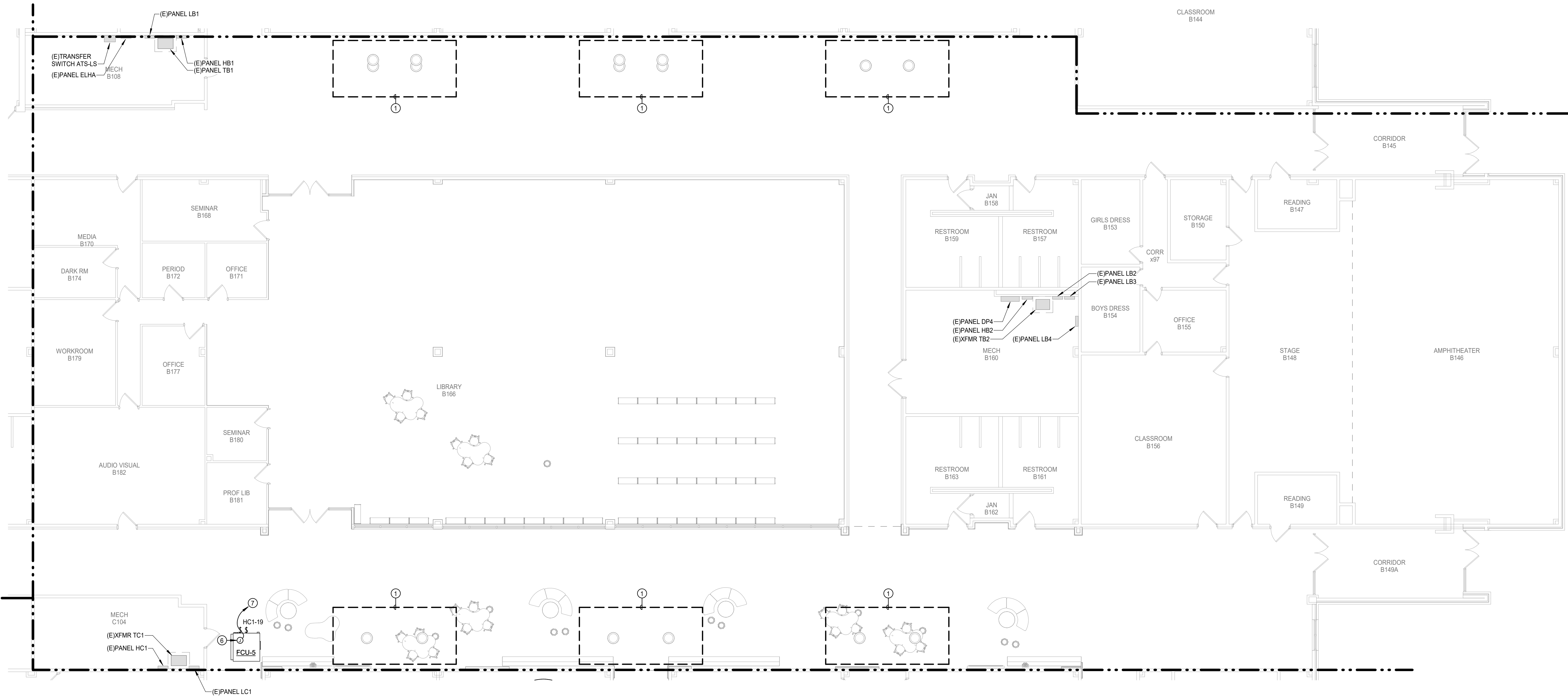
ELECTRICAL GENERAL NOTES:

- UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, SHALL REMAIN.
- REFER TO TECHNOLOGY (T-SERIES) DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DIVISION 26 SCOPE OF WORK.
- UNLESS NOTED OTHERWISE, REINSTALL ALL EXISTING LIGHT FIXTURES AND ALL CEILING MOUNTED ELECTRICAL IN NEW CEILINGS WHERE APPLICABLE. DEVICES INCLUDE BUT ARE NOT LIMITED TO: LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, ETC. REFER TO ARCHITECTURAL PLANS FOR AREAS THAT THE CEILING IS BEING REPLACED.

ELECTRICAL KEYED NOTES:

- CONTRACTOR SHALL INTERCEPT ALL EXISTING BRANCH CIRCUITS AND/OR FEEDERS IN THIS AREA AND RE-ROUTE AROUND NEW SKYLIGHT. CONTRACTOR TO EXTEND CONDUIT/WIRE AND RECONNECT TO EXISTING CIRCUITRY. TYPICAL FOR (5/8)" CONDUITS. CONTRACTOR SHALL FIELD VERIFY EXISTING.
- CONTRACTOR SHALL INTERCEPT ALL EXISTING BRANCH CIRCUITS AND/OR FEEDERS IN THIS AREA AND RE-ROUTE AROUND NEW SKYLIGHT. CONTRACTOR TO EXTEND CONDUIT/WIRE AND RECONNECT TO EXISTING CIRCUITRY. TYPICAL FOR (10/3)" CONDUITS. CONTRACTOR SHALL FIELD VERIFY EXISTING.
- CONTRACTOR SHALL INTERCEPT ALL EXISTING BRANCH CIRCUITS AND/OR FEEDERS IN THIS AREA AND RE-ROUTE AROUND NEW SKYLIGHT. CONTRACTOR TO EXTEND CONDUIT/WIRE AND RECONNECT TO EXISTING CIRCUITRY. TYPICAL FOR (7/8)" CONDUITS. CONTRACTOR SHALL FIELD VERIFY EXISTING.
- PROVIDE (2)3/4" RIGID GALVANIZED CONDUITS PENETRATED THROUGH ROOF FOR RECEPTACLE WIRING AND SUPPORT PER NEC 314. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATIONS.
- PROVIDE (2)3/4" RIGID GALVANIZED CONDUITS PENETRATED THROUGH ROOF FOR RECEPTACLE WIRING AND SUPPORT PER NEC 314. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATIONS.
- PROVIDE JUNCTION BOX FOR CONNECTION OF AIR PURIFICATION SYSTEM. COORDINATE EXACT LOCATION AND MAKE FINAL CONNECTION.
- ROUTE 2#12, #12G, 3#10, TO NEW 20A1P CIRCUIT BREAKER IN PANEL LC1. FIELD VERIFY FOR SPACE AVAILABLE.

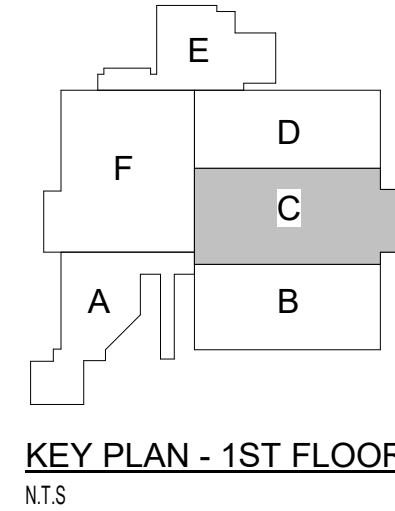
ALL 15 AND 20 AMPERES, 125 AND 250-VOLT NON-LOCKING-TYPE RECEPTACLES IN THE AREAS SPECIFIED IN 408.12(1) THROUGH (7) SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES.



1 ELECTRICAL POWER FLOOR PLAN - CMS - SECTION C
Scale: 1/8" = 1'-0"

CREEKWOOD MIDDLE SCHOOL ADDITIONS & RENOVATIONS
3603 W LAKE HOUSTON PKWY, KINGWOOD, TX 77339
FOR
HUMBLE ISD
KINGWOOD, TX

Project:



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ELECTRICAL POWER FLOOR
PLAN - SECTION C

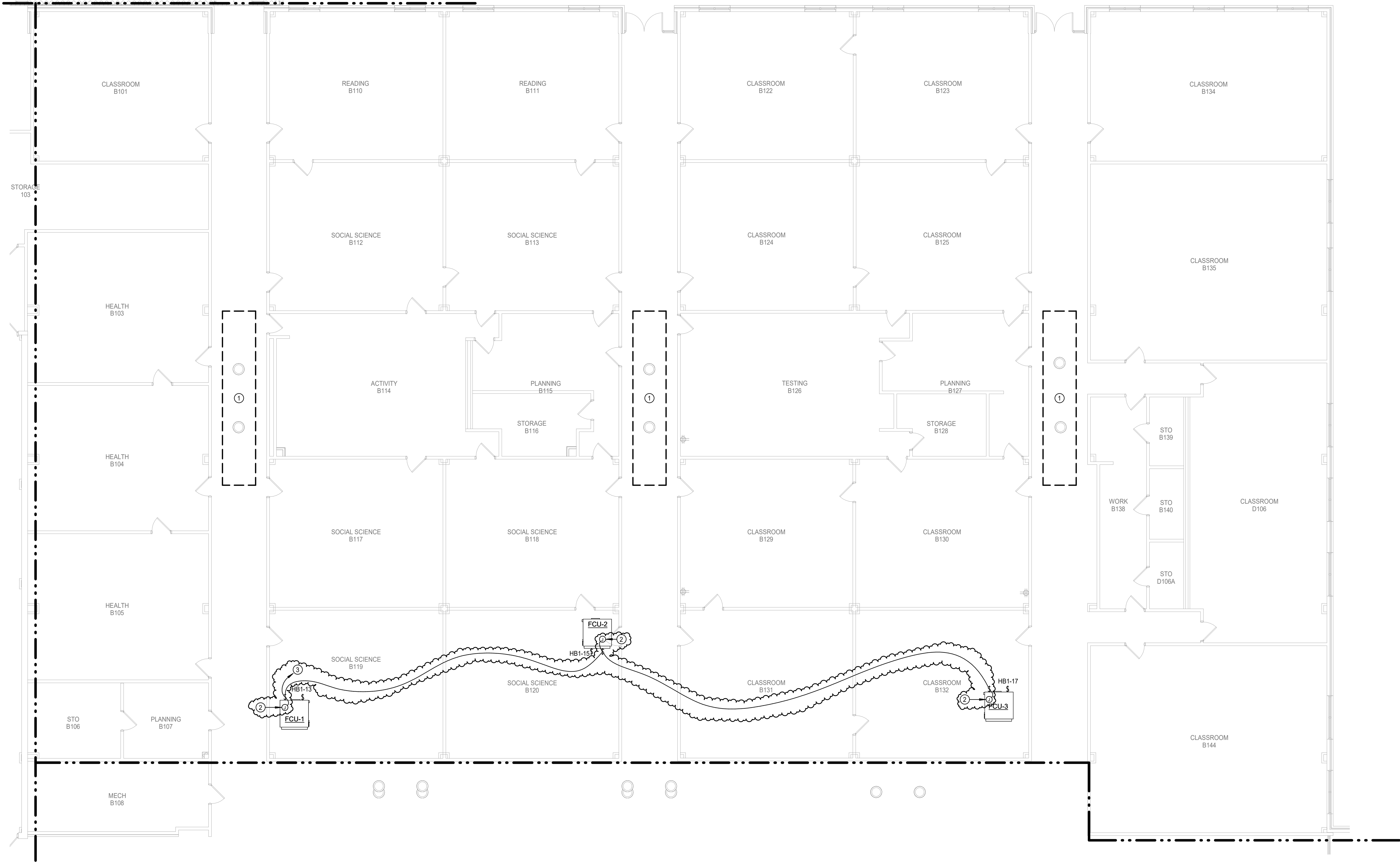
Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2022-05088-00

PACKAGE VOLUME
Job No. 1821-13-01
Sheet No. E3.13
Drawn By: Author
Date: 04/01/2025

Revision /
1
6
Date
02-15-24
04-29-25
City Comments 1
Addendum 3

4/29/2025 5:52:32 PM

A:\creek\Draws\HUMBLE\MS ADD RENOV\B1B1-1-141_12 CREEKWOOD & RIVERWOOD MS ADD & RENOV MEP1.rvt



ELECTRICAL POWER FLOOR PLAN - CMS - SECTION D
Scale: 1/8" = 1'-0"

ALL 15 AND 20 AMPERES, 125 AND 250-VOLT
NONLOCKING-TYPE RECEPTACLES IN THE AREAS
SPECIFIED IN 406.12(1) THROUGH (7) SHALL BE
LISTED TAMPER-RESISTANT RECEPTACLES.

ELECTRICAL GENERAL NOTES:

- UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, SHALL REMAIN.
- REFER TO TECHNOLOGY (T-SERIES) DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DIVISION 26 SCOPE OF WORK.
- UNLESS NOTED OTHERWISE, REINSTALL ALL EXISTING LIGHT FIXTURES AND ALL CEILING MOUNTED ELECTRICAL IN NEW CEILINGS WHERE APPLICABLE. DEVICES INCLUDE BUT ARE NOT LIMITED TO LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, ETC. REFER TO ARCHITECTURAL PLANS FOR AREAS THAT THE CEILING IS BEING REPLACED.

ELECTRICAL KEYED NOTES:

- CONTRACTOR SHALL INTERCEPT ALL EXISTING BRANCH CIRCUITS AND/OR FEEDERS IN THIS AREA AND RE-ROUTE AROUND NEW SKYLIGHT. CONTRACTOR TO EXTEND CONDUIT/WIRE AND RECONNECT TO EXISTING CIRCUITRY. TYPICAL FOR (3/3/4" CONDUITS. CONTRACTOR SHALL FIELD VERIFY FOR SPACE AVAILABLE.
- PROVIDE JUNCTION BOX FOR CONNECTION OF AIR PURIFICATION SYSTEM. COORDINATE EXACT LOCATION AND MAKE FINAL CONNECTION.
- ROUTE 2#12, 1#12G, 3/4" C. TO NEW 20A/1P CIRCUIT BREAKER IN PANEL LB1. FIELD VERIFY FOR SPACE AVAILABLE.

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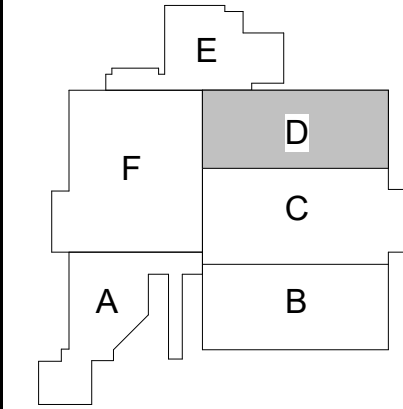
City Comments 1
Addendum 3

Date
02-16-24
04-29-25

Revision /
1
6

CREEKWOOD MIDDLE SCHOOL ADDITIONS & RENOVATIONS
3603 W LAKE HOUSTON PKWY, KINGWOOD, TX 77339
FOR
HUMBLE ISD
KINGWOOD, TX

Project:



KEY PLAN - 1ST FLOOR
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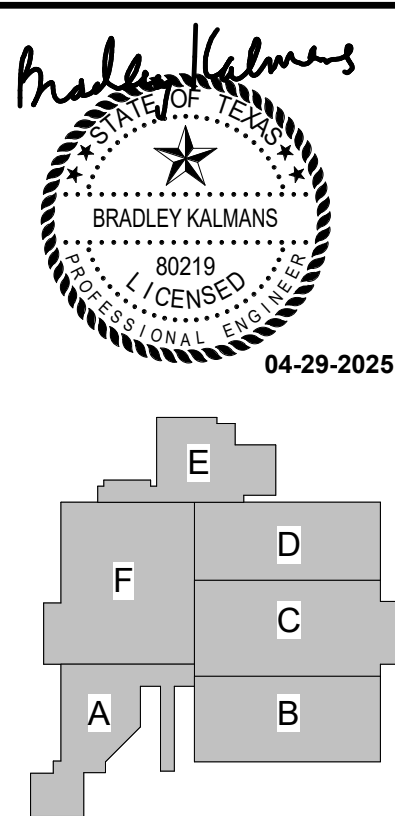
**ELECTRICAL POWER FLOOR
PLAN - SECTION D**

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2022-05088-00

PACKAGE
Job No.
1821-13-01
Drawn By:
DES
Date:
04.01.2025

VOLUME
Sheet No.
E3.14

Branch Panel: LA														
Location: Space 131				Volts: 120/208 Wye				A.I.C. Rating: 10,000						
Supply From: 45 kVA, 277 V/480 V...				Phases: 3				Enclosure: Type 1						
Mounting: Surface				Wires: 4				Mains: 225A MCB						
Phase in kVA														
Note	CK T	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CK T	Note		
	1	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	2			
	3	Existing Circuit	--	20	1	0.2/0.5		1	20	#12 Chiller Heater(30MA EGF1)	4	1 G		
	5	Existing Circuit	--	20	1	0.2/0.5		1	20	#12 Chiller Controls / Valves	6	1		
--	7	Space	--	1	0.0/0.2	0.0/0.2		1	20	Existing Circuit	8			
--	9	Space	--	1		0.0/0.2		1	20	Existing Circuit	10			
	11	Existing Circuit	--	30	1		0.2/0.2	1	20	Existing Circuit	12			
	13	Existing Circuit	--	20	1	0.2/1.0		2	20	#12 Boiler (B-1)	14			
	15	Existing Circuit	--	20	1		0.2/1.0	2	20	Boiler (B-2)	16		1	
	17	Existing Circuit	--	20	1		0.2/1.0	2	20	Boiler (B-2)	18		1	
	19	Existing Circuit	--	20	1	0.2/1.0		1	--	Space	20			
	21	Existing Circuit	--	20	1	0.2/0.0		1	--	Space	22	--		
	23	Existing Circuit	--	20	1	0.2/0.0		1	--	Space	24	--		
--	25	Space	--	1	0.0/0.2			1	20	Existing Circuit	26			
	27	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	28			
	29	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	30			
	31	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	32			
	33	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	34			
	35	Existing Circuit	--	20	1	0.2/0.0		1	--	Space	36	--		
	37	Existing Circuit	--	20	1	0.2/0.0		1	--	Space	38	--		
	39	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	40			
	41	Existing Circuit	--	20	1	0.2/0.0		1	--	Space	42	--		
--	43	Space	--	1	0.0/0.2			1	20	Existing Circuit	44			
--	45	Space	--	1	0.0/0.2	0.0/0.2		1	20	Existing Circuit	46			
	47	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	48			
	49	Existing Circuit	--	20	1	0.2/0.1		1	20	Existing Circuit	50			
--	51	Space	--	1	0.0/0.1	0.0/0.1		3	30	Existing Circuit	52			
--	53	Space	--	1		0.0/0.1		1	20	Existing Circuit	54			
--	55	Existing Circuit	--	20	1	0.2/0.0		1	--	Space	56	--		
	57	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	58			
	59	Space	--	1		0.0/0.2		1	20	Existing Circuit	60			
	61	Existing Circuit	--	20	2	0.1/0.1		2	20	Existing Circuit	62			
	63		--	20	2	0.1/0.1	0.1/0.1		2	20	Existing Circuit	64		
	65	Existing Circuit	--	20	2	0.1/0.1		2	20	Existing Circuit	66			
	67		--	20	2	0.1/0.1	0.1/0.1		2	20	Existing Circuit	68		
	69	Existing Circuit	--	20	2		0.1/0.1		2	20	Existing Circuit	70		
	71	Existing Circuit	--	20	1	0.2/0.1		1	20	Existing Circuit	72			
	73	Existing Circuit	--	20	1	0.2/0.1		2	20	Existing Circuit	74			
	75	Existing Circuit	--	20	1	0.2/0.1		2	20	Existing Circuit	76			
	77	Existing Circuit	--	20	1	0.2/0.2		2	20	Existing Circuit	78			
	79	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	80			
	81	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	82			
	83	Existing Circuit	--	20	1	0.2/0.2		2	20	Existing Circuit	84			
	85	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	86			
	87	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	88			
	89	Existing Circuit	--	20	1	0.2/0.2		2	20	Existing Circuit	90			
	91	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	92			
	93	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	94			
	95	Existing Circuit	--	20	1	0.2/0.2		2	20	Existing Circuit	96			
--	97	Space	--	1	0.0/0.2			1	20	Existing Circuit	98			
	99	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	100			
	101	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	102			
	103	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	104			
	105	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	106			
	107	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	108			
	109	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	110			
	111	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	112			
	113	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	114			
	115	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	116			
	117	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	118			
	119	Existing Circuit	--	20	1	0.2/0.2		2	20	Existing Circuit	120			
	121	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	122			
	123	Existing Circuit	--	20	1	0.2/0.1		1	20	Existing Circuit	124			
	125	Existing Circuit	--	20	1	0.2/0.1		2	20	Existing Circuit	126			
	127	Existing Circuit	--	20	1	0.2/0.1		2	20	Existing Circuit	128			
	129	Existing Circuit	--	20	1	0.2/0.1		2	20	Existing Circuit	130			
	131	Existing Circuit	--	20	1	0.2/0.2		1	20	Existing Circuit	132			
Total Load:					8.5 kVA	8.3 kVA	8.3 kVA							
Total Amps:					71 A	69 A	69 A							
Panel Totals														
Load Classification			Connected Load	Demand Factor	Estimated...									
Miscellaneous			5.2 kVA	100.00%	5.2 kVA									
Existing Circuit			5.2 kVA	100.00%	20.0 kVA									
			Total Conn. Load: 25.2 kVA											
			Total Est. Demand: 25.2 kVA											
			Total Conn. Current: 70 A											
			Total Est. Demand: 70 A											
Notes:														
1 - PROVIDE NEW CIRCUIT BREAKER														
Abbreviations:														
G - PROVIDE GFCI CIRCUIT BREAKER														
LF - PROVIDE PERMANENT LOCK-OFF DEVICE														
LO - PROVIDE PERMANENT LOCK-ON DEVICE														



KEY PLAN - 1ST FLOOR
NTS

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ELECTRICAL PANEL
SCHEDULES

PACKAGE VOLUME
Job No.
1821-13-01
Sheet No.

Drawn By:
DES
Date:
04.01.2025
E6.12

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2022-05088-00

Branch Panel: LC1												
Location: Space 20				Volts: 120/208 Wye				A.I.C. Rating: 10,000				
Supply From: T22				Phases: 3				Enclosure: Type 1				
Mounting: Surface				Wires: 4				Mains: 100A MCB				
Phase in kVA												
Note	CK T	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CK T	Note
	1	Existing Circuit	--	20	1	0.3 / 0.2				Existing Circuit	2	
	3	Existing Circuit	--	20	1		0.3 / 0.2		2	20	--	Existing Circuit
	5	Existing Circuit	--	20	1			0.3 / 0.2	2	20	--	Existing Circuit
	7	Existing Circuit	--	20	1	0.3 / 0.2				--	Existing Circuit	6
	9	Existing Circuit	--	20	1		0.3 / 0.3		1	20	--	Existing Circuit
	11	Existing Circuit	--	20	1			0.3 / 0.3	1	20	--	Existing Circuit
	13	Existing Circuit	--	20	1	0.3 / 0.3			1	20	--	Existing Circuit
	15	Existing Circuit	--	20	1		0.3 / 0.3		1	20	--	Existing Circuit
	17	Existing Circuit	--	20	1			0.3 / 0.3	1	20	--	Existing Circuit
	19	Existing Circuit	--	20	1	0.3 / 0.3			1	20	--	Existing Circuit
	21	Existing Circuit	--	20	1		0.3 / 0.3		1	20	--	Existing Circuit
	23	Existing Circuit	--	20	1			0.3 / 0.3	1	20	--	Existing Circuit
	25	Existing Circuit	--	20	1	0.3 / 0.0			1	--	--	Space
	27	Existing Circuit	--	20	1		0.3 / 0.0		1	--	--	Space
--	29	Space	--	--	--	1		0.0 / 0.0	1	--	--	Space
	31	Existing Circuit	--	20	1	0.3 / 0.3			1	20	--	Existing Circuit
	33	Existing Circuit	--	20	1		0.3 / 0.3		1	20	--	Existing Circuit
	35	Existing Circuit	--	20	1			0.3 / 0.3	1	20	--	Existing Circuit
--	37	Space	--	--	1	0.0 / 0.3			1	20	--	Existing Circuit
	39	Existing Circuit	--	20	1		0.3 / 0.0		1	--	--	Space
--	41	Space	--	--	--	1		0.0 / 0.0	1	--	--	Space
--	43	Space	--	--	1	0.0 / 0.0						
--	45	Space	--	--	1		0.0 / 0.0		3	100	--	MAIN
--	47	Space	--	--	1			0.0 / 0.0				
Total Load:					3.3 kVA	3.5 kVA	2.9 kVA					
Total Amps:					28 A	29 A	24 A					
Load Classification		Connected Load		Demand Factor		Estimated...		Panel Totals				
Existing Circuit		9.6 kVA		100.00%		9.6 kVA						
								Total Conn. Load: 9.6 kVA				
								Total Est. Demand: 9.6 kVA				
								Total Conn. Current: 27 A				
								Total Est. Demand... 27 A				
Notes:												
1 - PROVIDE NEW CIRCUIT BREAKER.												
Abbreviations:												
G - PROVIDE GFCI CIRCUIT BREAKER												
LF - PROVIDE PERMANENT LOCK-OFF DEVICE												
LO - PROVIDE PERMANENT LOCK-ON DEVICE												

Branch Panel: LC2													EXISTING	
Location: Space 280				Volts: 120/240 Single				A.I.C. Rating: 10,000						
Supply From: T22				Phases: 1				Enclosure: Type 1						
Mounting: Surface				Wires: 3				Mains: 400A MCB						
Phase in kVA														
Note	CKT	Circuit Description	Wire	Breaker	A	B	Breaker	Wire	Circuit Description	CKT	Note			
1	3ST	1 Burner Range (E910)	#12	20	1	0.2 / 1.5		1	20	#12	Ice Machine (E909)	2		
--	3	-- SHUNT TRIP ---	--	20	1		0.0 / 1.0	1	20	#12	Refrigerator (E904)	4	LF	
1	3ST	5 Burner Range (E910)	#12	20	1	0.3 / 0.5		1	20	#12	Receptacles Room x41, x158, x42	6		
--	3	-- SHUNT TRIP ---	--	20	1		0.0 / 0.5	1	20	#12	Fire Protection System (E935)	8		
1	3ST	9 Burner Range (E910)	#12	20	1	0.3 / 1.2		1	20	#12	Hood Lights (E909)	10		
--	11	-- SHUNT TRIP ---	--	20	1		0.0 / 1.0	1	20	#12	Convenience Receptacle (E900B)	12		
1	13	Convenience Receptacle (E900B)	#12	20	1	1.0 / 1.5		1	20	#12	Convenience Receptacle (E900B)	14		
1	15	Hood Lights (E909)	#12	20	1		1.2 / 1.5	2	30	#10	Dryer	16		
1	17	Heat Sensor (E909M)	#12	20	1	1.2 / 1.2		1	20	#12	Hood Lights (E909)	18		
1	19	Receptacles CULINARY x158	#12	20	1		1.0 / 1.0	1	20	#12	Convenience Receptacle (E900B)	20		
1	21	Heat Sensor (E909M)	#12	20	1	1.2 / 1.0		1	20	#12	Receptacles CULINARY x158	22		
G	23	Convenience Receptacle (E900B)	#12	20	1	1.0 / 1.2		1	20	#12	Heat Sensor (E909M)	24		
G	25	Convenience Receptacles	#12	20	1	2.3 / 1.5		1	20	#12	Clothes Washer (E906)	26		
27	27	Convenience Receptacle (E900B)	#12	20	1		1.0 / 1.0	1	20	#12	Refrigerator (E904)	28	LF	
1.G	29	Convenience Receptacle (E900A)	#12	20	1	1.5 / 1.0		1	20	#12	Convenience Receptacle (E900B)	30		
1.LF	31	Freezer (E903)	#12	20	1		1.8 / 1.7	1	20	#12	Freezer (E903)	32	LF	
1.G	33	Convenience Receptacle (E900A)	#12	20	1	1.5 / 5.5						34		
1	35	Load Center (E920)	#3	100	2		7.0 / 8.2	2	100	--	LC1	36	1	
--	39	Space	--	20	1	7.0 / 0.0			1	20	--	Space	38	--
--	39	Space	--	20	1		0.0 / 0.0		1	20	--	Space	40	--
--	41	Space	--	20	1	0.0 / 0.0			1	20	--	Space	42	--
Total Load:					31.3 kVA	29.8 kVA								
Total Amps:					261 A	249 A								
Load Classification		Connected Load		Demand Factor		Estimated...		Panel Totals						
HVAC		6.7 kVA				6.7 kVA								
Kitchen Equipment		22.1 kVA		65.00%		14.4 kVA		Total Conn. Load: 61.2 kVA						
Miscellaneous		28.3 kVA				28.3 kVA		Total Est. Demand: 53.4 kVA						
Power		0.4 kVA		100.00%		0.4 kVA		Total Conn. Current: 255 A						
Receptacles		4.5 kVA		100.00%		4.5 kVA		Total Est. Demand... 223 A						
Notes:														
1 - PROVIDE NEW CIRCUIT BREAKER.														
Abbreviations:														
G - PROVIDE GFCI CIRCUIT BREAKER														
LF - PROVIDE PERMANENT LOCK-OFF DEVICE														
LO - PROVIDE PERMANENT LOCK-ON DEVICE														

*Remove un-used breakers and replace with 20A/1P spare.

Branch Panel: LC3											
Location: STORAGE B114				Volts: 120/240 Single				A.I.C. Rating: 10,000			
Supply From: LC2				Phases: 1				Enclosure: Type 1			
Mounting: Surface				Wires: 3				Mains: 125A MLO			
Phase In kVA											
Note	CKT	Circuit Description	Wire	Breaker	A	B	Breaker	Wire	Circuit Description	CKT	Note
	1	Receptacles	#12	20	1	0.4 / 1.1		1	20	#12 KEF-1	2
	3	KEF-3	#10	30	1	1.8 / 1.8	1	30	#10 KEF-2	4	
	5	KEF-4	#10	30	1	1.8 / 0.2		1	20	#12 Receptacles	6
	7	Convenience Receptacle (E900B)	#12	20	1	1.0 / 1.0	1	20	#12 Convenience Receptacle (E900D)	8	ST
	9	Convenience Receptacle (E900B)	#12	20	1	1.0 / 0.0		1	20	-- SHUNT TRIP --	10
ST	11	Convenience Receptacle (E900D)	#12	20	1	1.0 / 0.2	1	20	#12 Convenience Receptacle (E900D)	12	ST
--	13	-- SHUNT TRIP --	--	20	1	0.0 / 0.0	1	20	-- SHUNT TRIP --	14	--
	15	Convenience Receptacle (E900B)	#12	20	1	1.0 / 0.1	1	20	#12 GFI	16	
	17	Convenience Receptacle (E900B)	#12	20	1	1.0 / 0.2	1	20	#12 Receptacles	18	
	19	Air Purification	#12	20	1	0.5 / 0.0	1	--	Space	20	--
	21	Space	--	--	1	0.0 / 0.0	1	--	Space	22	--
	23	Space	--	--	1	0.0 / 0.0	1	--	Space	24	--
--	25	Space	--	--	1	0.0 / 0.0	1	--	Space	26	--
--	27	Space	--	--	1	0.0 / 0.0	1	--	Space	28	--
--	29	Space	--	--	1	0.0 / 0.0	1	--	Space	30	--
--	31	Space	--	--	1	0.0 / 0.0	1	--	Space	32	--
--	33	Space	--	--	1	0.0 / 0.0	1	--	Space	34	--
--	35	Space	--	--	1	0.0 / 0.0	1	--	Space	36	--
--	37	Space	--	--	1	0.0 / 0.0	1	--	Space	38	--
--	39	Space	--	--	1	0.0 / 0.0	2	30	--	SPDL	40
--	41	Space	--	--	1	0.0 / 0.0				42	--
Total Load:			5.5 kVA			8.2 kVA					
Total Amps:			46 A			68 A					
Load Classification			Connected Load			Demand Factor			Estimated...		
HVAC			6.7 kVA			100.00%			6.7 kVA		
Kitchen Equipment			6.0 kVA			65.00%			3.9 kVA		
Miscellaneous			0.5 kVA			100.00%			0.5 kVA		
Receptacles			0.9 kVA			100.00%			0.9 kVA		
									Total Conn. Load: 13.6 kVA		
									Total Est. Demand: 11.6 kVA		
									Total Conn. Current: 57 A		
									Total Est. Demand... 46 A		
Notes:											
1 - PROVIDE NEW CIRCUIT BREAKER											
G - PROVIDE GFCI CIRCUIT BREAKER											
LF - PROVIDE PERMANENT LOCK-OFF DEVICE											
LO - PROVIDE PERMANENT LOCK-ON DEVICE											
*Remove un-used breakers and replace with 20A/1P spare.											

PACKAGED AIR COOLED CHILLER													
MARK	ACTUAL CAPACITY (TONS)	LEAVING WATER TEMP. (°F)	GPM	PRESSURE DROP (FT.)	AMBIENT AIR TEMP. (°F)	CURRENT CHARAC.			MANUFACTURER	MODEL	MOC	MCA	REMARKS
						V	P	F					
CH-3	220	42	528	20.0	95 °F	480	3	60	CARRIER	30RC	600	500	1,2,3,4,5
GENERAL NOTES:						REMARKS:							
1. MAXIMUM FOUling FACTOR FOR THE EVAPORATOR IS 0.0001						1. PROVIDE WITH LOW AMBIENT HEAD PRESSURE CONTROL							
2. MAINTAIN MINIMUM CLEARANCES REQUIRED BY CHILLER						2. PROVIDE WITH INTEGRAL MAIN ELECTRICAL DISCONNECT SWITCH.							
MANUFACTURER FOR PROPER AIRFLOW TO FANS AND UNIT. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON EQUIPMENT FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC.						3. PROVIDE WITH INSULATION ON ALL SUCTION LINES.							
						4. PROVIDE HIGH EFFICIENCY CHILLER (MIN. OF 5.5 EER)							
						5. PROVIDE WITH POLYMER CONDENSER FANS AND COMPRESSOR BLANKETS.							

PUMP												
MARK	SERVICE	TYPE	GPM	HEAD (FT.)	MOTOR HORSE POWER	MAX. RPM	CURRENT CHARACT.			MANUFACTURER	MODEL NUMBER	REMARKS
							V	P	F			
PCHWP-3	CHILLED WATER	HORIZONTAL END SUCTION	528	50.00	10	1800	480	3	60	ARMSTRONG	4030	1,2,3,4
GENERAL NOTES:						REMARKS:						
1. PUMP IS TO HAVE A NON-OVERLOADING MOTOR.						1. PROVIDE WITH GAUGE TAPPING.						
2. MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN MINIMUM CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE, AND INSPECTION.						2. PROVIDE WITH SUCTION DIFFUSER AT PUMP INLET.						
						3. PROVIDE PUMP WITH BACK PULL OUT.						
						4. PROVIDE WITH VARIABLE FREQUENCY DRIVE.						

VARIABLE VOLUME TERMINAL BOX						
MARK	MAXIMUM CFM	MINIMUM CFM	INLET DIAMETER SIZE (IN.)	HOT WATER COIL		REMARKS
				GPM	CONNECTING PIPE SIZE	
VAV-13-11	900	230	10	2.1	3/4"	-
VAV-13-12	900	230	10	2.1	3/4"	-
VAV-14-11	900	230	10	2.1	3/4"	-
VAV-16-9	900	230	10	2.1	3/4"	-
VAV-17-11	900	230	10	2.1	3/4"	-
VAV-17-12	900	230	10	2.1	3/4"	-
VAV-18-8	400	110	8	0.9	3/4"	-
VAV-18-10	640	180	8	1.5	3/4"	-
VAV-K1	1,350	360	12			-
VAV-K2	1,890	480	14			-
VAV-K3	1,890	480	14			-
VAV-K4	1,890	480	14			-
VAV-O1-1	910	360	10			1
VAV-O1-2	2,460	630	16			1
GENERAL NOTES:						
1. MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH THE TERMINAL BOX SHALL BE 0.2" ESP.						
2. MAXIMUM VELOCITY THROUGH DUCT INLET SHALL BE 2,000 FPM.						
3. MAXIMUM STATIC PRESSURE DROP THROUGH HEATER COIL SHALL BE 0.25" ESP.						
4. MAXIMUM STATIC PRESSURE DROP OF WATER THROUGH HEATER COIL SHALL BE 10' W.G.						
5. BTUH REQUIRED FOR HOT WATER HEATING IS HEATING GPM MULTIPLIED BY 10,000.						
6. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. REFER TO MANUFACTURER FOR MORE DETAILS.						
7. UNITS TO BE MOUNTED BETWEEN BEAMS AND 18" MAXIMUM ABOVE CEILING. AVOID MOUNTING OVER LIGHTS WHEREVER POSSIBLE.						
8. REFER TO PIPING AT HOT WATER COIL DETAILS. PROVIDE WITH 2-WAY CONTROL VALVE UNLESS OTHERWISE SCHEDULED.						
REMARKS:						
1. PROVIDE WITH DCV.						

ROOF MOUNTED AIR HANDLING UNIT																								
MARK	FAN							COOLING							HEATING							PIPE SIZE TO COIL (IN.)		REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	V	PH	F	ENTERING DRY BULB	AIR TEMPERATURE (°F) WET BULB	LEAVING DRY BULB	LEAVING WET BULB	ENTERING TEMP (°F)	WATER GPM	PRESSURE DROP (FT.)	ENTERING AIR TEMPERATURE (°F)	MIN. HEATING CAPACITY	ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	CHILLED WATER	HOT WATER			
RMAHU-1	4,220	1,060	1.50	5.0	480	3	60	80.6	67.4	54.6	53.8	45	23.7	15.0	67.7	124,422	180.0	6.3	10.0	2"	1"	1,3,4,6,7,8,10,11,12,13,17		
RMUA-1	7,020	7,020	1.50	7.5	480	3	60	98.0	80.0	75.0	62.5	45	64.9	15.0	27.0	212,285	180.0	10.7	10.0	3"	1 1/4"	2,3,5,6,7,8,9,11,12,13,16,17		
GENERAL NOTES:								REMARKS:																
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN. 2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.								1. VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL.								8. PROVIDE THREE-WAY HEATING CONTROL VALVES.								
								2. VELOCITY NOT TO EXCEED 450 FPM ON COOLING COIL.								9. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION.								
								3. PROVIDE HORIZONTAL UNIT.								10. PROVIDE HOT WATER COIL IN RE-HEAT POSITION.								
								4. PROVIDE CONSTANT VOLUME UNIT.								11. PROVIDE UNIT WITH BOTTOM DISCHARGE.								
								5. RMUA-1 SHALL BE INTERLOCKED WITH HOOD FIRE SUPPRESSION SUCH THAT RMUA-1 IS DEACTIVATED UPON DETECTION OF FIRE BELOW HOOD.								12. PROVIDE UNIT WITH PENTHOUSE SECTION TO ENCLOSE PIPING AND CONTROL VALVES.								
								6. PROVIDE UNIT WITH AIR PURIFICATION SYSTEM. REFER TO SPECIFICATIONS.								13. PROVIDE UNIT WITH ANGLED FILTER SECTION.								
								7. PROVIDE TWO-WAY COOLING CONTROL VALVES.								14. PROVIDE SINGLE ZONE VAV UNIT.								
								15. PROVIDE TWO-WAY HEATING CONTROL VALVES.																
								16. PROVIDE WITH SINGLE ZONE VARIABLE VOLUME UNIT.																
								17. PROVIDE UNIT WITH VARIABLE FREQUENCY DRIVE.																

AIR HANDLING UNIT																						
MARK	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.			ENTERING DRY BULB	AIR TEMPERATURE (°F)			WATER	ENTERING TEMP. (°F)	HEATING		WATER		PIPE SIZE TO COIL (IN.)		REMARKS		
					V	PH	F		ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB			MIN. HEATING CAPACITY	ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	CHILLED WATER	HOT WATER			
AHU-1	9,555	2,460	1.50	10.0	480	3	60	75.0	62.5	53.8	53.0	45	34.9	15.0	66.1	268,231	180.0	15.1	10.0	2"	1 1/2"	1,3,4,5,7,10,12,13,16,17
AHU-2	4,600	910	1.50	5.0	480	3	60	75.0	62.5	53.8	53.0	45	16.8	15.0	66.0	144,072	180.0	7.3	10.0	1 1/2"	1 1/4"	1,3,4,5,7,10,12,13,16,17
AHU-3	4,780	1,400	1.50	5.0	480	3	60	75.0	62.5	53.8	53.0	45	17.5	15.0	65.6	151,775	180.0	7.7	10.0	1 1/2"	1 1/4"	1,3,4,5,7,10,12,13,16,17
AHU-3A	1,400	1,400						98.0	80.0	53.5	53.0	45	18.0	15.0	27.0	65,016	180.0	3.3	10.0	1 1/2"	3/4"	2,3,4,7,10,14,15,16,17
QAHU-1	3,370	3,370	2.00	5.0	480	3	60	98.0	80.0	53.5	53.0	45	43.4	15.0	27.0	163,782	180.0	8.3	10.0	2 1/2"	1 1/4"	2,3,4,5,7,10,11,13,16,17
GENERAL NOTES:																						
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.																						
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.																						
REMARKS:																						
1. VERIFY UNIT NOT TO EXCEED 500 FPM ON COOLING COIL.																						
2. VERIFY UNIT NOT TO EXCEED 550 FPM ON COOLING COIL.																						
3. PROVIDE HORIZONTAL UNIT.																						
4. PROVIDE CONSTANT SPEED DRIVE UNIT WITH VARIABLE FREQUENCY DRIVE.																						
5. PROVIDE FROST DISCHARGE.																						
6. PROVIDE TOP DISCHARGE.																						
7. PROVIDE TWO-WAY THERMAL CONTROL VALVES.																						
8. PROVIDE THREE-WAY COOLING CONTROL VALVES.																						
9. PROVIDE TWO-WAY HEATING CONTROL VALVES.																						
10. PROVIDE THREE-WAY HEATING CONTROL VALVES.																						
11. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION.																						
12. PROVIDE HOT WATER COIL IN REHEAT POSITION.																						
13. PROVIDE UNIT WITH ANGLED FILTER SECTION.																						
14. UNIT INDICATED SHALL BE STACKED AND/OR FURNISHED WITH ASSOCIATED AHU (LISTED ABOVE). UNIT INCLUDES ANGLED FILTER MIXING BOX, PREHEAT ACCESS SPACE, COOLING COIL AND DISCHARGE PLENUM. UNIT DOES NOT HAVE FAN SECTION. SPLIT DEHUMIDIFICATION UNIT SHALL DELIVER OUTSIDE AIR TO MIXING BOX SECTION OF MAIN AIR HANDLER UNIT UPSTREAM OF COIL.																						
15. SPLIT DEHUMIDIFICATION UNIT TO BE MOUNTED ON TOP OF ASSOCIATED AHU.																						
16. PROVIDE UNIT WITH VARIABLE FREQUENCY DRIVE.																						
17. PROVIDE UNIT WITH AIR PURIFICATION SYSTEM. REFER TO SPECIFICATIONS.																						

ELECTRICAL GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, SHALL REMAIN.
2. REFER TO TECHNOLOGY (T-SERIES) DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DIVISION 26 SCOPE OF WORK.
3. UNLESS NOTED OTHERWISE, REINSTALL ALL EXISTING LIGHT FIXTURES AND ALL CEILING MOUNTED ELECTRICAL IN NEW CEILINGS WHERE APPLICABLE. DEVICES INCLUDE BUT ARE NOT LIMITED TO: LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, ETC. REFER TO ARCHITECTURAL PLANS FOR AREAS THAT THE CEILING IS BEING REPLACED.

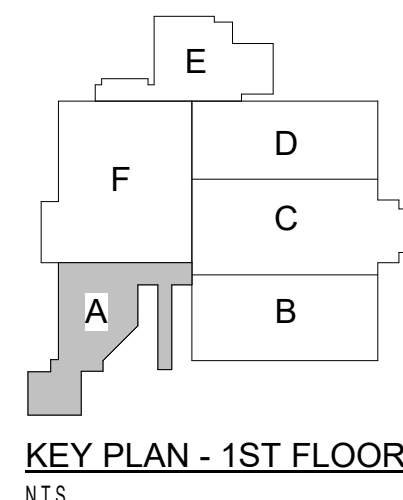
ELECTRICAL KEYED NOTES:

1. PROVIDE JUNCTION BOX AT +54" AFF FOR CONNECTION OF FIRE ALARM BOOSTER PANEL. VERIFY FINAL LOCATION WITH FIRE ALARM SHOP DRAWINGS AND MAKE FINAL CONNECTION.
2. PROVIDE JUNCTION BOX AT +54" AFF FOR CONNECTION OF BMCS PANEL. VERIFY FINAL LOCATION WITH BMCS SHOP DRAWINGS AND MAKE FINAL CONNECTION.
3. PROVIDE JUNCTION BOX FOR CONNECTION OF AIR PURIFICATION SYSTEM. COORDINATE EXACT LOCATION AND MAKE FINAL CONNECTION.
4. VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER (VFD), PROVIDED BY DIVISION 23, INSTALLED BY DIVISION 26.
5. PROVIDE 120V ELECTRIC CORD REEL MOUNTED TO BOTTOM OF STRUCTURE WITH GFCI DOUBLE DUPLEX RECEPTACLE. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. CONNECT TO EXISTING CORD REEL CIRCUIT PRESERVED DURING DEMOLITION. EXTEND CONDUIT/WIRE AND MAKE FINAL CONNECTION.
6. CONNECT TO EXISTING PANEL SL1 WITH 2#12, 1#12G, 3#4C.
7. PROVIDE NEW EPO (EMERGENCY POWER OFF) FOR LOCAL PANEL SHUT OFF FOR SHOP EQUIPMENT. PROVIDE SWITCH WITH COVER AND KEY RESET. APPROVED MANUFACTURER, STI OR APPROVED EQUAL.
8. RECEPTACLE FOR WALL MOUNTED DISPLAY. VERIFY EXACT LOCATION WITH ARCHITECT/OWNER.
9. PROVIDE A JUNCTION BOX FOR CONNECTION OF MOTORIZED SHADES. COORDINATE LOCATION OF LOW VOLTAGE SHADE CONTROLS WITH ARCHITECT AND MAKE ALL FINAL CONNECTIONS.
10. MOTORIZED SHADE CONTROLLER PROVIDED WITH SHADES. VERIFY EXACT LOCATION WITH ARCHITECT.

ALL 15 AND 20 AMPERES, 125 AND 250-VOLT NON-LOCKING-TYPE RECEPTACLES IN THE AREAS SPECIFIED IN 408.12(1) THROUGH (7) SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES.

RIVERWOOD MIDDLE SCHOOL ADDITIONS & RENOVATIONS
2910 HIGH VALLEY DR, HUMBLE, TX 77345
FOR
HUMBLE ISD
KINGWOOD, TX

Project:



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ELECTRICAL POWER FLOOR
PLAN - SECTION A

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2022-05088-00

PACKAGE: Job No. 1821-13-02
VOLUME: Sheet No. **E3.11**
Drawn By: DES
Date: 04/01/2025



PIPE VOID SYSTEM REQUIRED FOR BELOW SLAB PIPING AND CONDUITS:

A. INSTALL UNDER SLAB PIPING AND ELECTRICAL CONDUITS IN PIPE VOIDS WITH SUPPORTS AND FITTINGS. COORDINATE INSTALLATION WITH STRUCTURAL SLAB DRAWINGS AND SPECIFICATIONS.

B. INSTALL PIPING, CONDUITS, SUPPORTS AND FITTING IN ACCORDANCE WITH PIPE VOID SYSTEM MANUFACTURE DESIGNS, RECOMMENDATIONS, INSTALLATION INSTRUCTIONS, LOCAL CODES, AND APPLICABLE TRADE STANDARDS OF INSTALLATIONS.

C. INSTALLATIONS SHALL BE INSPECTED BY THE PIPE VOID SYSTEM MANUFACTURER, THEIR DESIGNATED AUTHORIZED PERSONNEL, OR REPRESENTATIVES FOR INSTALLATION COMPLIANCE AND OVERALL QUALITY.

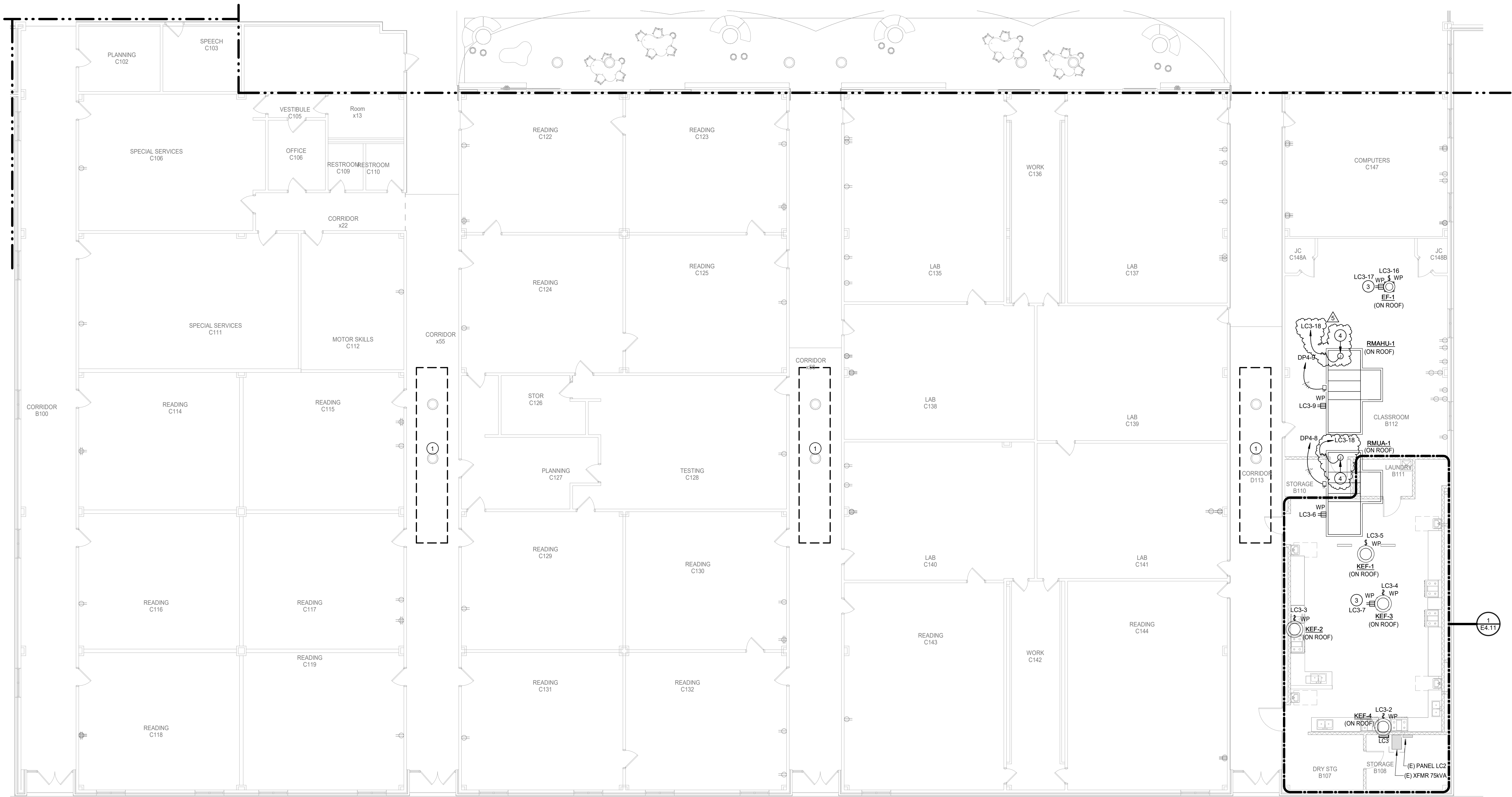
D. PROVIDE AND SUBMIT WRITTEN DOCUMENTATION FROM THE MANUFACTURE OR THEIR REPRESENTATIVE THAT THE INSTALLATION IS CONSISTENT WITH THE MANUFACTURER'S DESIGN AND THEIR INSTALLATION INSTRUCTIONS PRIOR TO FILLING PIPING WITH FLUIDS OR INSTALLING CONDUCTORS IN BELOW SLAB PIPES OR CONDUITS LOCATED IN PIPE VOID SYSTEMS.

E. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

1 ELECTRICAL POWER FLOOR PLAN -RMS - SECTION A
Scale: 1/8" = 1'-0"

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Audited Docs\\HUMBLE ISD - CREEKWOOD & RIVERWOOD MS ADD RENOVATION\\B1-1441 12 RIVERWOOD MS ADD & RENOVATION



ELECTRICAL POWER FLOOR PLAN -RMS - SECTION B

Scale: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, SHALL REMAIN.
2. REFER TO TECHNOLOGY (T-SERIES) DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DIVISION 26 SCOPE OF WORK.
3. UNLESS NOTED OTHERWISE, REINSTALL ALL EXISTING LIGHT FIXTURES AND ALL CEILING MOUNTED ELECTRICAL IN NEW CEILINGS WHERE APPLICABLE. DEVICES INCLUDE BUT ARE NOT LIMITED TO: LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, ETC. REFER TO ARCHITECTURAL PLANS FOR AREAS THAT THE CEILING IS BEING REPLACED.

ELECTRICAL KEYED NOTES:

1. CONTRACTOR SHALL INTERCEPT ALL EXISTING BRANCH CIRCUITS AND/OR FEEDERS IN THIS AREA AND RE-ROUTE AROUND NEW SKYLIGHT. CONTRACTOR TO EXTEND CONDUIT/WIRE AND RECONNECT TO EXISTING CIRCUITRY. TYPICAL FOR (5)3/4" CONDUITS. CONTRACTOR SHALL FIELD VERIFY EXISTING.
2. CONTRACTOR SHALL INTERCEPT ALL EXISTING BRANCH CIRCUITS AND/OR FEEDERS IN THIS AREA AND RE-ROUTE AROUND NEW SKYLIGHT. CONTRACTOR TO EXTEND CONDUIT/WIRE AND RECONNECT TO EXISTING CIRCUITRY. TYPICAL FOR (5)3/4" CONDUITS AND (1)1-1/2" CONDUIT. CONTRACTOR SHALL FIELD VERIFY EXISTING.
3. PROVIDE (2)3/4" RIGID GALVANIZED CONDUITS PENETRATED THROUGH ROOF FOR RECEPTACLE WIRING AND SUPPORT PER NEC 314. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATIONS.
4. PROVIDE JUNCTION BOX FOR CONNECTION OF AIR PURIFICATION SYSTEM. COORDINATE EXACT LOCATION AND MAKE FINAL CONNECTION.

ALL 15 AND 20 AMPERES, 125 AND 250-VOLT NONLOCKING-TYPE RECEPTACLES IN THE AREAS SPECIFIED IN 406.12(1) THROUGH (7) SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES.

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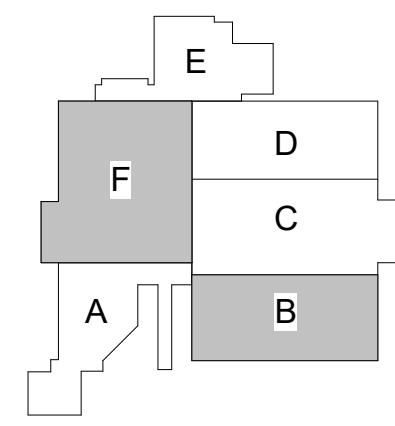
CITY COMMENTS 1
Addendum 3

Date
02-28-24
04-29-25

Revision /
1
5

RIVERWOOD MIDDLE SCHOOL ADDITIONS & RENOVATIONS
2910 HIGH VALLEY DR, HUMBLE, TX 77345
FOR
HUMBLE ISD
KINGWOOD, TX

Project:



KEY PLAN - 1ST FLOOR

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ELECTRICAL POWER FLOOR PLAN - SECTION B

Salas O'Brien

Houston
49030 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2022-05088-00

PACKAGE

Job No.

1821-13-02

Drawn By:

DES

Date:

04/01/2025

VOLUME

Sheet No.

E3.12

Branch Panel: LF

Location: MECHANICAL...			Volts: 120/208 Wye			A.I.C. Rating: 10,000						
Supply From: TLF			Phases: 3			Enclosure: Type 1						
Mounting: Surface			Wires: 4			Mains: 150A MCB						
Phase in kVA												
Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker Wire	Circuit Description	CKT	Note	
	1	Receptacles	#12	20	1	0.7/0.5	1	20	#12 Receptacles	2		
LF	3	Electric Hand Dryer	#10	30	1	2.5/2.5	1	30	#10 Electric Hand Dryer	4	LF	
	5	Electric Hand Dryer	#10	30	1	2.5/2.5	1	30	#10 Electric Hand Dryer	6	LF	
	7	Receptacles	#12	20	1	0.5/0.4	1	20	#12 Receptacles GYM E101	8		
	9	Receptacles Room E101	#12	20	1	0.7/0.7	1	20	#12 Receptacles DANCE E104	10		
	11	Receptacles DANCE E104	#12	20	1	0.7/0.5	1	20	#12 Gym Scoreboard	12		
	13	Receptacles	#12	20	1	0.5/0.7	1	20	#12 Receptacles	14		
	15	Motorized Goal	#12	20	1	0.5/0.5	1	20	#12 Motorized Goal	16		
	17	Motorized Goal	#12	20	1	0.5/0.5	1	20	#12 Motorized Goal	18		
	19	Motorized Goal	#12	20	1	0.5/0.5	1	20	#12 Receptacles DANCE E104	20		
	21	Motorized Goal	#12	20	1	0.5/0.5	1	20	#12 Receptacles DANCE E104	22		
	23	Receptacles	#12	20	1	0.5/0.5	1	20	#12 CP-1	24		
	25		#12	20	1	1.3/1.0	1	20	#12 Lighting MECHANICAL	26		
	27	Motorized Gym Bleachers	#12	20	3	1.3/0.5	1	20	#12 Receptacles	28		
	29						1.3/3.0	2	40 #8 EWH-1	30		
	31	Receptacles	#12	20	1	0.5/3.0	1	20	#12 Receptacles Room E103, E102	32		
	33	Drinking Fountain	#12	20	1	0.4/0.9	1	20	#12 Receptacles Room E103, E102	34		
	35	Gym Scoreboard	#12	20	1	0.5/0.3	1	20	#12 EF-2	36		
	37		#12	20	1	1.3/0.0	3	30	-- SPDL	38		
	39	Motorized Gym Bleachers	#12	20	3	1.3/0.0	3	30	-- SPDL	40	--	
	41						1.3/0.0	1	20	-- Spare	42	--
	43	Motorized Partition	#12	20	1	1.0/0.0	1	20	-- Spare	44	--	
	45	Motorized Shades	#12	20	1	1.1/0.0	1	20	-- Spare	46	--	
	47	Receptacles	#12	20	1	0.4/0.0	1	20	-- Spare	48	--	
	49	Motorized Shades	#12	20	1	0.5/0.0	1	20	-- Spare	50	--	
	51	Motorized Hoist	#12	20	1	0.5/0.0	1	20	-- Spare	52	--	
	53	Motorized Shades	#12	20	1	0.8/0.0	1	20	-- Spare	54	--	
	55	Motorized Door	#12	20	1	0.5/0.0	1	20	-- Spare	56	--	
--	57	Spare	--	20	1	0.0/0.0	1	20	-- Spare	58	--	
--	59	Spare	--	20	1	0.0/0.0	1	20	-- Spare	60	--	
--	61	Spare	--	20	1	0.0/0.0	1	20	-- Spare	62	--	
--	63	Spare	--	20	1	0.0/0.0	1	20	-- Spare	64	--	
--	65	Spare	--	20	1	0.0/0.0	1	20	-- Spare	66	--	
--	67	Spare	--	20	1	0.0/0.0	1	20	-- Spare	68	--	
--	69	Spare	--	20	1	0.0/0.0	1	20	-- Spare	70	--	
--	71	Space	--	--	1	0.0/0.0	1	--	-- Space	72	--	
--	73	Space	--	--	1	0.0/0.0	1	--	-- Space	74	--	
--	75	Space	--	--	1	0.0/0.0	1	--	-- Space	76	--	
--	77	Space	--	--	1	0.0/0.0	1	--	-- Space	78	--	
--	79	Space	--	--	1	0.0/0.0	1	--	-- Space	80	--	
--	81	Space	--	--	1	0.0/0.0	1	--	-- Space	82	--	
--	83	Space	--	--	1	0.0/0.0	1	--	-- Space	84	--	
Total Load:			13.6 kVA			14.5 kVA			15.8 kVA			
Total Amps:			113 A			122 A			133 A			
Load Classification			Connected Load			Demand Factor			Estimated...			
HVAC			6.3 kVA			100.00%			6.3 kVA			
Lighting			0.0 kVA			0.00%			0.0 kVA			
Miscellaneous			28.3 kVA			100.00%			28.3 kVA			
Receptacles			9.4 kVA			100.00%			9.4 kVA			
Total Conn. Load:									43.9 kVA			
Total Est. Demand:									43.9 kVA			
Total Conn. Current:									122 A			
Total Est. Demand...									122 A			
Notes:												
					Abbreviations:							
					G - PROVIDE GFCI CIRCUIT BREAKER							
					LF - PROVIDE PERMANENT LOCK-OFF DEVICE							
					LO - PROVIDE PERMANENT LOCK-ON DEVICE							

Branch Panel: LC2

Location: STORAGE B108				Volts: 120/240 Single				A.I.C. Rating: 10,000					
Supply From:				Phases: 1				Enclosure: Type 1					
Mounting: Surface				Wires: 3				Mains: 400A MCB					
Phase in kVA													
Note	CKT	Circuit Description	Wire	Breaker	A	B	Breaker	Wire	Circuit Description	CKT	Note		
1,ST	1	Burner Range (E910)	#12	20	1	0.4/0.2	1	20	#12 Convenience Recept. (E900B)	2			
--	3	-- SHUNT TRIP --	--	20	1			0.0/1.0	1	20	#12 Convenience Recept. (E900C)	4	
1,ST	5	Burner Range (E910)	#12	20	1	0.5/1.0	1	20	#12 Convenience Recept. (E900B)	6			
--	7	-- SHUNT TRIP --	--	20	1			0.0/0.2	1	20	#12 Convenience Recept. (E900B)	8	
1,ST	9	Burner Range (E910)	#12	20	1	0.5/0.2	1	20	#12 Convenience Recept. (E900B)	10			
--	11	-- SHUNT TRIP --	--	20	1			0.0/1.2	1	20	#12 Convenience Recept. (E900B)	12	
1,G	13	Convenience Recept.(E900A)	#12	20	1	0.9/1.6	2	30	#10 Dryer (E907A)	14	1,G		
1	15	Convenience Recept.(E900A)	#12	20	1			0.2/1.6	2	30	#10 Dryer (E907A)	16	
1	17	Convenience Recept.(E900A)	#12	20	1	0.2/0.3	1	20	#12 Ice Machine (9009)	18			
1,LF	19	Refrigerator (E903)	#12	20	1			0.5/0.5	1	20	#12 Freezer (E904)	20	LF
21	21	Receptacles DRY STG B107	#12	20	1	0.2/0.5	1	20	#12 Hood Lights (E153)	22			
23	23	Heat Sensor (E153M)	#12	20	1			0.5/0.2	1	20	#12 Convenience Recept. (E920A)	24	
25	25	Fire Protection System (E925)	#12	20	1	2.0/0.2	1	20	#12 Convenience Recept. (E900B)	26			
27	27	Clothes Washer (E906)	#12	20	1			1.5/0.5	1	20	#12 Heat Sensor (E153M)	28	
29	29	Heat Sensor (E153M)	#12	20	1	0.5/0.5	1	20	#12 Hood Lights (E153)	30			
31	31	Hood Lights (E153)	#12	20	1			0.5/0.2	1	20	#12 Convenience Recept. (E900A)	32	
33	33	Load Center (E920)	#3	100	2	7.0/0.5	2	100	1-L PANEL LC3	34	LF		
LF	37	Refrigerator (E904)	#12	20	1	0.5/2.4	2	100	1-L PANEL LC3	38			
--	39	Spare	--	20	1			0.0/0.2	1	20	#12 Convenience Recept. (E900B)	40	
--	41	Spare	--	20	1	0.0/0.0	1	20	-- Spare	42	--		
Total Load:					19.7 kVA 19.0 kVA								
Total Amps:					164 A 158 A								
Load Classification		Connected Load	Demand Factor	Estimated...	Panel Totals								
HVAC		3.1 kVA	100.00%	3.1 kVA	Total Conn. Load: 38.7 kVA								
Miscellaneous		22.0 kVA	100.00%	22.0 kVA	Total Est. Demand: 36.9 kVA								
Power		0.4 kVA	100.00%	0.4 kVA	Total Conn. Current: 161 A								
Receptacles		13.7 kVA	86.55%	11.8 kVA	Total Est. Demand... 154 A								
Notes:													
1 - PROVIDE NEW CIRCUIT BREAKER.													
Abbreviations:													
G - PROVIDE GFCI CIRCUIT BREAKER													
LF - PROVIDE PERMANENT LOCK-OFF DEVICE													
LO - PROVIDE PERMANENT LOCK-ON DEVICE													
1-L - REFER TO ONE-LINE DIAGRAM													
**Remove unused breakers and replace with 20A/1P spare.													

Branch Panel: LC3

Location: STORAGE B108				Volts: 120/240 Single				A.I.C. Rating: 10,000			
Supply From: LC2				Phases: 1				Enclosure: Type 1			
Mounting: Surface				Wires: 3				Mains: 400A MCB			
Phase in kVA											
Note	CKT	Circuit Description	Wire	Breaker	A	B	Breaker	Wire	Circuit Description	CKT	Note
	1	KEF-4	#12	20	1	0.7/0.0	1	20	#12 Receptacles	2	
	3	KEF-2	#12	20	1	0.7/0.7	1	20	#12 KEF-3	4	
	5	KEF-1	#12	20	1	0.7/0.2	1	20	#12 Receptacles	6	
	7	Receptacles	#12	20	1	0.2/0.2	1	20	#12 Convenience Receptacle...	8	ST
	9	Receptacles	#12	20	1	0.2/0.2	1	20	#12 Convenience Receptacle...	10	
	11	Convenience Receptacle...	#12	20	1	0.2/0.2	1	20	#12 Convenience Receptacle...	12	
	13	Convenience Receptacle...	#12	20	1	0.2/0.2	1	20	#12 Convenience Receptacle...	14	
	15	Convenience Receptacle...	#12	20	1	0.2/0.1	20	#12 KEF-1	16		
	17	Receptacles	#12	20	1	0.2/1.0	20	#12 Air Purification Unit	18		
--	19	Spare	--	20	1	0.0/0.0	1	20	-- Spare	20	
--	21	Spare	--	20	1	0.0/0.0	1	20	-- Spare	22	--
--	23	Spare	--	20	1	0.0/0.0	1	20	-- Spare	24	--
--	25	Spare	--	20	1	0.0/0.0	1	20	-- Spare	26	--
--	27	Spare	--	20	1	0.0/0.0	1	20	-- Spare	28	--
--	29	Spare	--	--	1	0.0/0.0	1	--	Spare	30	--
--	31	Spare	--	--	1	0.0/0.0	1	--	Spare	32	--
--	33	Spare	--	--	1	0.0/0.0	1	--	Spare	34	--
--	35	Spare	--	--	1	0.0/0.0	1	--	Spare	36	--
--	37	Spare	--	--	1	0.0/0.0	1	--	Spare	38	--
--	39	Spare	--	--	1	0.0/0.0	1	--	Spare	40	--
--	41	Spare	--	--	1	0.0/0.0	1	--	Spare	42	--
Total Load:					3.4 kVA	2.4 kVA					
Total Amps:					25 A	20 A					
Load Classification	Connected Load	100.00%	Demand Factor	Estimated...	Panel Totals						
HVAC		3.1 kVA	100.00%	3.1 kVA							
Miscellaneous		1.0 kVA	100.00%	1.0 kVA	Total Conn. Load: 5.8 kVA						
Receptacles		2.0 kVA	100.00%	2.0 kVA	Total Est. Demand: 5.8 kVA						
					Total Conn. Current: 24 A						
					Total Est. Demand... 24 A						
Notes:											
1 - PROVIDE NEW CIRCUIT BREAKER.					Abbreviations:						
					G - PROVIDE GFCI CIRCUIT BREAKER						
					LF - PROVIDE PERMANENT LOCK-OFF DEVICE						
					LO - PROVIDE PERMANENT LOCK-ON DEVICE						

**Remove un-used breakers and replace with 20A/1P spare.

Branch Panel: EL

Location: MECH D140				Volts: 120/208 Wye				A.I.C. Rating: 10,000						
Supply From: Type 1				Phases: 3				Enclosure: Type 1						
Mounting: Surface				Wires: 4				Mains: 100A MCB						
Phase in kVA														
Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note		
--	1	Existing Circuit	--	20	1	0.0/0.0		1	20	--	Spare	2	--	
--	3	Existing Circuit	--	20	1		0.0/0.0	1	20	--	Existing Circuit	4	--	
--	5	Existing Circuit	--	20	1			1	20	--	Existing Circuit	6	--	
--	7					0.0/0.0						8		
--	9	Spare	--	20	3		0.0/0.0	3	20	--	Spare	10	--	
--	11											12		
--	13	Spare	--	20	2	0.0/1.1		2	20	#8	DMS-1 / DMSCU-1	14	2	
1,LO	17	IDF Receptacle	#8	20	1		0.0/1.1	1	20	#8	Fire Alarm Booster Panel	18	1,LO	
1,LO	19	IDF Receptacle	#8	20	1	0.4/0.5		1	20	#8	Fire Alarm Booster Panel	20	1,LO	
1,LO	21	IDF Receptacle	#8	20	1		0.4/0.2	1	20	#8	IDF Receptacle	22	1,LO	
1,LO	23	IDF Receptacle	#8	20	1			0.4/0.4	1	20	#8	IDF Receptacle	24	1,LO
Total Load:				1.9 kVA		1.6 kVA		1.4 kVA						
Total Amps:				16 A		14 A		12 A						
Load Classification			Connected Load		Demand Factor		Estimated...		Panel Totals					
HVAC			2.4 kVA		100.00%		2.4 kVA							
Miscellaneous			1.0 kVA		100.00%		1.0 kVA		Total Conn. Load: 5.0 kVA					
Receptacles			1.8 kVA		100.00%		1.8 kVA		Total Est. Demand: 5.0 kVA					
									Total Conn. Current: 14 A					
									Total Est. Demand... 14 A					

Branch Panel: EQLA

Location: MECH A106				Volts: 120/208 Wye				A.I.C. Rating: 10,000					
Supply From: TEQLA				Phases: 3				Enclosure: Type 1					
Mounting: Surface				Wires: 4				Mains: 600A					
Phase in KVA													
Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note	
1	1	Miscellaneous MECHANICAL...	--	20	1	0.5 / 0.5		1	20	#8	BMCS	2	1
--	3	Space	--	--	1	0.0 / 1.0		1	20	--	Existing Circuit	4	
--	5	Space	--	--	1		0.0 / 1.0	1	20	--	Existing Circuit	6	
	7					0.3 / 0.2						8	
	9	Existing Circuit	--	20	3	0.3 / 0.2		3	20	--	Existing Circuit	10	
	11						0.3 / 0.2					12	
	13		--	20	2	0.3 / 0.5		2	20	--	Existing Circuit	14	
	15	Existing Circuit	--	20	1	0.3 / 0.5		1	20	--	Existing Circuit	16	
	17	Existing Circuit	--	20	1	0.2 / 0.5	0.5 / 2.2	1	20	--	Existing Circuit	18	
	19		--	--	--		1.0 / 2.2	1	20	--	Existing Circuit	20	
	21	Existing Circuit	--	20	3	0.2 / 2.2		1	20	--	Existing Circuit	22	
	23						0.2 / 2.2	1	20	--	Existing Circuit	24	
Total Load:			2.9 KVA	4.6 KVA	6.6 KVA								
Total Amps:			24 A	41 A	57 A								
Load Classification			Connected Load	Demand Factor	Estimated...	Panel Totals							
Miscellaneous			1.0 kVA	100.00%	1.0 kVA								
Existing Circuit			13.1 kVA	100.00%	13.1 kVA	Total Conn. Load: 14.1 kVA							
						Total Est. Demand: 14.1 kVA							
						Total Conn. Current: 39 A							
						Total Est. Demand... 39 A							
Notes:					Abbreviations:					FEED THROUGH LUGS			
1 - PROVIDE NEW CIRCUIT BREAKER					G - PROVIDE GFCI CIRCUIT BREAKER								
					LF - PROVIDE PERMANENT LOCK-OFF DEVICE								
					LO - PROVIDE PERMANENT LOCK-ON DEVICE								