

ADDENDUM #1

Project:	U of U Bldg 303 Seismic Upgrade #22649	Addendum Number:	Phase 5-01
FFKR #:	18136 – Phase 5	Date:	3.22.2024
Contractor:	Gramoll Construction	Attention:	Gary Hansen

The Addendum is for all persons preparing Bids for the above named project; and, as such, shall be made a part of the Documents. Changes, corrections, and deletions enumerated herein shall be included in the Contractor's Bid. Bidders should acknowledge receipt of the Addendum in the space provided in the Contractor's Bid Form. Failure to do so may subject the Bidder to disqualification. In case of any conflict between the drawings, specifications, and this addendum, this addendum shall govern.

Make changes to the bid documents:

AD-201-5: Added lightning protection keynote.

AE-101-5: Window type BB changed to EE and added 'Alternate' callout.

AE-102-5: Added guardrail keynote and 'Alternate' callout; metal grating keynote revised.

AE-103-5: Added guardrail and overhead crane/structure keynote and 'Alternate' callout; metal grating keynote revised.

AE-104-5: Added 'Alternate' callout.

AE-201-5: Window type BB changed to EE, changes to the southeast door frame. Added lightning protection keynote and 'Alternate' callout.

AE-410: Added overhead hoist keynote.

AE-506: Added 'Alternate' callout.

AE-601: Added window type EE and door frame F10-1 and clarification on louver

Various mechanical and electrical updates.

Schedule: Work will begin Mid April and complete by end of 2024. Final schedule will be negotiated with the successful bidders.

Bidder's questions and responses:

1. None

Additional information:

1. Subcontract agreement

Attachment:

1. Above mentioned architectural sheets
2. Revised MEP sheets
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4. Revised specification section.

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SECTION 01 2300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include, as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation, whether or not indicated as part of alternate.
- B. Execute accepted alternates under the same conditions as other Work of the Contract.
- C. Schedule: A Part 3 "Schedule of Alternates" Article is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. Alternate No. 1: Rooftop exhaust fans, including installation and wiring to the panel.
 - 1. Base Bid: Steel that supports future exhaust fans, roof curb, and conduit stub-ins for exhaust fans, as indicated on Drawings.
 - 2. Alternate: Add exhaust fans, including installation and wiring to panels. as indicated on Drawings and as specified.

- B. Alternate No. 2: Fire suppression sprinkler system and fire alarm system.
 - 1. Base Bid: No fire suppression system or fire alarm system.
 - 2. Alternate: Provide fire suppression sprinkler system and fire alarm system as indicated on Drawings and as specified.

- C. Alternate No. 3: High performance coating at metal buttresses.
 - 1. Base Bid: No new coatings for metal buttresses.
 - 2. Alternate: Provide high-performance coating at buttresses as indicated on Drawings and as specified in Section 09 9600 "High-Performance Coatings."

END OF SECTION 01 2300

NO. XXXXX

SUBCONTRACT AGREEMENT

THIS SUBCONTRACT AGREEMENT ("Subcontract") by and between GRAMOLL CONSTRUCTION COMPANY, a Utah corporation, hereinafter referred to as "Contractor," and (SUBCONTRACTOR NAME & ADDRESS) hereinafter referred to as "Subcontractor," is entered into and shall be effective as of the date it has been signed by both parties hereto (the "Subcontract Date"). If Subcontractor commences work prior to signing this Subcontract, the Subcontract Date shall be deemed to be the date Subcontractor commenced the Work.

RECITALS

1. Contractor has entered into a contract with [PROJECT OWNER] for the construction, performance and completion of a certain project known as [PROJECT TITLE] said contract being hereinafter referred to as the "General Contract".

2. Subcontractor desires to furnish, and Contractor desires to have Subcontractor furnish a portion of the work for Contractor. Contractor and Subcontractor desire to establish the terms and conditions that govern the relationship between them when Subcontractor furnishes such labor, materials, and equipment pursuant to this Subcontract.

ARTICLE I

1.1 **Scope of Work.** Subcontractor shall furnish all labor, materials, permits, tools, machinery, equipment, facilities, supplies and services, pay all applicable taxes, and comply with any and all additional requirements imposed by the jurisdiction in which the work is performed, and to do all things necessary to complete the following items of work under the General Contract (the "Work"):

Furnish all labor, materials, equipment and supervision required to complete all [LABOR TYPE] work required, as described in specifications sections [SECTION NUMBER & DESCRIPTION] and as shown on the drawings in [BID PACKAGE] and comply with all other sections of the specifications and the drawings dated [DATE], for [PROJECT NAME] prepared by [ARCHITECT], as related to such work.

Addenda:

Alternates:

Includes:

Excludes:

Hereinafter, all such documents, plus this Subcontract and the General Contract are collectively referred to as the "Subcontract Documents." All Subcontract Documents other than this Subcontract are incorporated herein by reference and hereby adopted and made a part of this Subcontract as fully as if it were set forth in full herein, subject to the limitations set forth in Article I hereof. All General, Supplemental General, and Special Conditions of the specifications and all terms and conditions of the General Contract shall apply to this Subcontract, except where ambiguous or inconsistent with this Subcontract, in which case the provisions of this Subcontract shall control. Subcontractor acknowledges that the Work to be performed by Subcontractor is not confined to any particular portion of the drawings or section of the specifications but may be scattered throughout those documents. In the performance of this Subcontract, Subcontractor binds itself to Contractor to comply fully with all undertakings and obligations of the Contractor to the extent that they apply to the scope of the Work.

ARTICLE II

2.1 **Subcontract Price.** Contractor shall pay Subcontractor for completion of the Work in accordance with the Subcontract Documents the lump sum of [SUBCONTRACT PRICE] (the "Subcontract Price.") The Subcontract Price includes all costs and expenses to perform the Work, and associated with the performance of the Work, including, without limitation, (1) all applicable transportation charges, costs and expenses, and (2) all applicable taxes including, without limitation, applicable taxes under any law now existing, or which may

hereafter be adopted by federal, state, local or other governmental authorities, taxing the labor, materials, or equipment furnished, or any other tax levied as a result of performance of the Work. The Subcontract Price may be adjusted only as provided for in Article V.

ARTICLE III

3.1 Independent Contractor. The relationship of Subcontractor to Contractor during the term of this Subcontract shall be that of an independent contractor. Subcontractor shall take any and all actions necessary to maintain that independent contractor relationship throughout the term of the Subcontract, and neither Subcontractor nor its employees shall be considered employees of Contractor. Subcontractor shall exercise exclusive control for the means, methods, techniques, and procedures in performance of the Work.

3.2 Examination of Subcontract Documents/ Site. Subcontractor has examined the Subcontract Documents and the applicable Laws and Regulations, as that term is defined below, and has examined the site of the work and satisfied itself as to all conditions to be encountered in the performance of the Work. Subcontractor enters this Subcontract on the basis of its own examination, investigation and evaluation of all such matters, and not in reliance on the opinions or representations of Contractor or Owner. If there are any inconsistencies between the Subcontract Documents or ambiguities in any Subcontract Document, Subcontractor shall bring such inconsistencies or ambiguities to the attention of Contractor before the execution of this Subcontract; otherwise, Subcontractor shall be bound by Contractor's resolution of such inconsistencies or ambiguities.

In the event of any discrepancy (1) in the Subcontract Documents, or (2) between the Subcontract Documents and the Laws and Regulations, those which are more stringent, provide persons and property with greater protection, or provide for a better product shall govern. In the event of any discrepancy in the Subcontract Documents between dimensions and measurements for the Work based on scaling, the Work shall comply with the dimensions for such Work. Subcontractor shall promptly notify Contractor in writing of any such discrepancy. To the extent that the Subcontract Documents include plans, specifications or other documents that depict, refer or relate to mechanical, plumbing, electrical or fire protection systems, such documents are diagrammatic only, and are not intended to show the precise alignment, physical locations, or configurations of such Work. The Subcontract Price includes all costs and expenses for such systems to be installed such that they clear all obstructions, permit proper clearances for the Work of other trades, and present an orderly appearance.

Before commencing Work, Subcontractor will satisfy itself as to the location of all utilities that may affect or interfere with Subcontractor's Work. Subcontractor will fully protect all utilities, and keep them operating at all times, unless otherwise provided in the Subcontract Documents. Subcontractor shall take such field measurements as are necessary for the proper execution of its work. It shall be assumed that the Subcontractor has fully accepted the work of others as being satisfactory and he shall be fully responsible thereafter for the satisfactory performance of the work covered by this Agreement, regardless of the defective work of others.

3.3 Lines, Levels, Dimensions and Measurements. Subcontractor assumes full responsibility for the proper interpretation and interpolation of all lines, levels, dimensions, and measurements and their relation to benchmarks, property lines, reference lines and the work of Contractor and other trades. In all cases where dimensions are governed by conditions already established, the responsibility for correct knowledge of the condition's rests entirely on Subcontractor. The Work shall comply with the dimensions provided in the Subcontract Documents and shall not be performed based on scales indicated in those documents. No variations from specified lines, levels or dimensions shall be made except on prior written approval of Contractor clearly setting forth the variation.

3.4 Shop Drawings/ Submittals. Shop drawings and submittals shall be provided in a minimum of one (1) digital copy to Contractor's office in North Salt Lake. Additional copies shall be provided if required by the Subcontract Documents. Shop drawings and/ or submittals and/ or samples are due within fourteen (14) days of Subcontract's date of issuance. At the time of submission, Subcontractor shall clearly identify in writing any deviation in its shop drawings/ submittals/ samples from the requirements of the Subcontract Documents and must receive from Contractor specific written approval for any deviation.

3.5 **Warranty.** Subcontractor warrants that:

- 3.5.1 all materials and equipment furnished under this Subcontract will be of good quality and new, unless otherwise required or permitted by the Subcontract Documents.
- 3.5.2 the materials and equipment provided as part of the Work will be suitable for the purposes intended in the Subcontract Documents.
- 3.5.3 the Work will be performed in a good and workmanlike manner.
- 3.5.4 the Work will conform to the requirements of the Subcontract Documents; and
- 3.5.5 the Work will be free from defects.

Work not conforming to these requirements including, without limitation, substitutions not properly approved and authorized, shall be considered defective (all such work, "Defective Work"). Subcontractor shall (1) execute any special guarantees, and (2) assign to Contractor all warranties, as required by the Subcontract Documents.

3.6 **Correction and Replacement of Defective Work.** During performance of the Work, Subcontractor shall promptly correct or replace Defective Work. Contractor shall determine whether Work is defective and whether work performed by Subcontractor to correct or replace Defective Work complies with Subcontractor's warranty obligations.

- 3.6.1 If, within the greater of (1) the period established in the Subcontract Documents, or (2) one year after the Completion Date, (hereinafter the "Warranty Period"), any of Subcontractor's Work is found to be defective, Subcontractor shall correct or replace it promptly after receipt of written notice of the Defective Work. If Contractor prefers to accept, rather than correct or repair Defective Work, Contractor may, in its sole discretion, accept the work subject to its right of reimbursement, as set forth below.
- 3.6.2 Subcontractor shall pay all costs to correct or replace Defective Work without any adjustment to the Subcontract Price or Subcontract Time. If Subcontractor fails to correct Defective Work within the time allowed by Contractor, or if no time is specified, a reasonable time after receipt of notice of such defects, Contractor may correct or replace the Defective Work. Subcontractor shall reimburse Contractor for (1) the costs to correct or replace defective Work, including, without limitation, the costs of additional sampling, testing and inspections, if any, made necessary by Defective Work, corrections or replacements, (2) all Losses that Contractor incurs that arise out of or result from Defective Work, (3) any amounts assessed and collected by Owner from Contractor for acceptance of Defective Work, and (4) any other amounts for which Subcontractor is responsible at law or in equity.

3.7 **Safety.** Subcontractor shall initiate, maintain and supervise all safety precautions, measures, policies and programs, training and inspections in connection with the Work including, without limitation, such precautions and programs as necessary to comply with those required or recommended by O.S.H.A., Governmental, or Quasi-Governmental authorities having jurisdiction and by the Contractor and Owner. This shall include but not be limited to, requirements imposed by the Subcontract Documents. Subcontractor shall provide copies of all Safety Meeting and Training Notes on a weekly basis or as required by Contractor. Subcontractor shall take all necessary precautions to prevent damage, injury or loss to (a) all persons performing the Work or who may be affected by the Work; and (b) all Work, whether stored on or off the Project site. Subcontractor shall promptly report to Contractor all accidents incidental to the Work which result in death or injury to persons or in damage to property. Subcontractor shall provide to Contractor any reasonable documentation requested by Contractor related to any such death, injury, damages.

If the Subcontractor, or its Sub-Contractors or their employees performing work on this Project, are found to be in violation of any O.S.H.A. regulation or standard, and such violation results in a fine or assessment being assessed against the Contractor, without fault on its part, the cost of such fines or other damages will be deducted from the funds due and payable to the Sub-Contractor. Any balance not paid through monies due the Sub-Contractor shall be paid by the Sub-Contractor.

3.8 Compliance with Laws and Regulations. Subcontractor shall comply with and give all notices required by all federal, state, local, and municipal laws, regulations, codes, ordinances, and orders that directly or indirectly bear on the Work and/or the performance of the Work including, without limitation:

- 3.8.1 building codes and ordinances.
- 3.8.2 worker's compensation laws and regulations.
- 3.8.3 safety laws, codes, regulations and orders, including, without limitation, the Occupational Safety & Health Act of 1970, as enacted and amended, and regulations issued under that act.
- 3.8.4 environmental laws including, without limitation, the Comprehensive Environmental Response, Compensation and Liability Act, the Clean Water Act, the Clean Air Act, and the Resources Conservation and Recovery Act, as enacted and amended, regulations issued under those acts, and counterpart state laws.
- 3.8.5 wage, hour, labor, and anti-discrimination laws, including, without limitation, the Equal Employment Opportunity (EEO) Executive Order 11246, Title VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act of 1967, the Equal Pay Act of 1963, the Family and Medical Leave Act, the Americans with Disabilities Act, the National Labor Relations Act, the Fair Labor Standards Act; Sections 503 and 504 of the Rehabilitation Act of 1973, Section 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, the Immigration Reform Control Act of 1986, as enacted and amended, and all regulations issued under those acts and Gramoll Constructions Harassment Prevention Policy.
- 3.8.6 tax laws and regulations; all as enacted and amended, and all regulations issued under such acts

Collectively, these are referred to in this Subcontract as the "Laws and Regulations."

3.9 Subcontractors. Subcontractor shall not assign this contract, in part or in whole, without Contractor's prior written consent, nor shall Subcontractor assign any monies due or to become due to it hereunder, without Contractor's prior written consent. Subcontractor shall, upon request from Contractor at the inception of this Subcontract, provide to Contractor or supplier a written list of sub-subcontractors or suppliers that Subcontractor intends to use in connection with the performance of its obligations under this Subcontract where the dollar amount individually or in the aggregate with the same sub-subcontractor will exceed 5% of the Subcontract Price. Subcontractor shall require all of its sub-subcontractors to comply with the Subcontract Documents to the extent that they apply to the scope of work of such sub-subcontractor. Subcontractor shall not change sub-subcontractors without prior written approval of Contractor.

Upon Contractor's request, Subcontractor agrees to provide documentation evidencing full payment of all sub-subcontractors and/or suppliers engaged by Subcontractor with respect to its performance of this Subcontract.

If this Subcontract is terminated, each of Subcontractor's contracts for performance of the Work shall be assigned to Contractor, provided that Contractor accepts such assignment in writing and assumes all rights and obligations of Subcontractor pursuant to each such contract.

3.10 Cleanup. Subcontractor will continuously clean, and remove from the jobsite, its debris and excess materials and at the end of each day will leave its working areas in broom-clean condition. Also, he shall clean up to the satisfaction of the inspectors, all dirt, grease marks, etc., from walls, ceilings, floors, fixtures, etc., deposited or placed thereon as a result of the execution of this Subcontract. If Subcontractor fails to do so, Contractor may perform the cleanup and backcharge Subcontractor for the cost of performing such clean-up.

3.11 Supervision. Subcontractor shall have available on the project, at all times, a qualified superintendent, who is acceptable to Contractor, to coordinate the Subcontractor's work with that of the Contractor and of the other subcontractors, and any instruction given by the Contractor to said representative on the project shall have the same force and effect as if given to the Subcontractor either at the project or at the Subcontractor's office away from the project site.

ARTICLE IV

4.1 Subcontract Time. Subcontractor shall commence and complete the Work in accordance with the most current schedule prepared by Contractor, as may be revised from time to time during the course of the Project (the "Project Schedule"). Subcontractor shall commence and complete all activities in compliance with the time periods expressly provided for such activities in the Project Schedule. The periods of time provided in the Project Schedule for commencement and final completion of all activities that comprise the Work shall constitute the "Subcontract Time." Except as otherwise expressly noted, as used herein and in the Project Schedule, the term "day" shall refer to a calendar day. The date on which all the work performed by Contractor and its subcontractors is completed and accepted by the Owner shall be referred to hereinafter as the "Completion Date."

Subcontractor's commencement, prosecution, and completion of the Work in the Subcontract Time and in compliance with the Project Schedule is of the essence of this Subcontract.

Subcontractor acknowledges that the precise time periods scheduled for its performance are estimates only. Subcontractor shall cooperate with Contractor in scheduling and performing its work to avoid conflict or interference with the work of Contractor or other trades. Contractor reserves the right, in its sole discretion, to extend or to delay the scheduling of Subcontractor's work if such extension or delay becomes necessary in the opinion of Contractor. Each Subcontractor shall review the schedule of all items of work other than his own, to anticipate completion of specific items of its Work as it affects other trades, to be certain that work following Subcontractor's Work is not delayed. In the event of any conflicts in the Project Schedule between the work of Subcontractor and Contractor or another trade, Contractor shall determine, in its sole discretion, which work shall have precedence and how the parties will coordinate their respective work. All other work not specifically scheduled shall be coordinated as necessary to avoid delaying Work as scheduled. Subcontractor shall not be entitled to an adjustment in the Subcontract Price or the Subcontract Time based on the coordination of such activities with Contractor or any determination by Contractor concerning coordination of the work.

If Contractor determines, in its sole discretion, that Subcontractor has failed to diligently prosecute the Work in accordance with the Project Schedule, or that Subcontractor will not complete the Work within the Subcontract Time, Contractor may, in its sole discretion, (1) require Subcontractor to work overtime and/or use such additional labor and equipment as necessary to accelerate the Work and bring Subcontractor's performance into compliance with the Project Schedule, (2) supplement Subcontractor's work by furnishing additional labor and equipment to the Project as necessary to accelerate the Work and bring Subcontractor's performance into compliance with the Project Schedule, (3) require Subcontractor to provide reasonable assurances of timely performance in accordance with the Project Schedule, (4) terminate this Subcontract pursuant to Article X, and/ or (5) exercise all other rights and remedies available under this Subcontract. Subcontractor shall not be entitled to an adjustment in the Subcontract Price or the Subcontract Time as a result of any such action by Contractor.

ARTICLE V

5.1 Changes and Modifications to Subcontract. Without invalidating the Subcontract and without notice to any surety, Contractor may, at any time or from time to time, order additions, deletions or revisions in the Work or acceleration of the Work. Any such additions, deletions, revisions, or acceleration shall be binding upon Contractor and Subcontractor exclusively when made in writing executed by an officer of Gramoll Construction Company. Upon receipt of such an order, Subcontractor shall promptly proceed with the Work involved, which shall be performed under the applicable conditions of this Subcontract and the Subcontract Documents, except as otherwise specifically provided. Subcontractor shall not proceed to perform changes in the Work without prior written authorization from Contractor as provided herein. Subcontractor shall not be entitled to an adjustment in the Subcontract Price or the Subcontract Time for any work performed without such prior written authorization. Except as provided in this Article V or Section 12.1, the terms and conditions of this Subcontract are not otherwise subject to addition, modification, or change.

5.2 Claims. The Subcontract Price and the Subcontract Time may be changed only by a written directive by Contractor, change order, or written Amendment to this Subcontract signed by an officer of Gramoll Construction Company. Within seven (7) working days of an occurrence or event giving rise to a claim for an adjustment in the Subcontract Price or Subcontract Time, Subcontractor shall provide to Contractor written notice (hereinafter, a "Claim") stating the nature of the Claim and the adjustment in Subcontract Price and Subcontract Time requested, accompanied by supporting documentation. All Claims shall include and/ or be accompanied by the following supporting information and/ or documents: (a) the specific amount of the

requested adjustment in the Subcontract Price, if any, (b) the specific number of days' adjustment in the Subcontract Time requested, if any, (c) the reasons justifying the request for an adjustment in the Subcontract Price and the Subcontract Time, including a CPM analysis demonstrating a critical path delay for any requested adjustment in the Subcontract Time, if any, (d) the party or parties whose orders, decisions, acts or omissions give rise to the requested adjustment in the Subcontract Price and/ or the Subcontract Time, and (e) a revised schedule based on the requested adjustments in the Subcontract Time, if any.

A Claim shall be deemed to include all adjustments in Subcontract Price and/ or Subcontract Time to which the claimant is entitled as a result of the occurrence or events giving rise to the Claim. No Claim by Subcontractor for an adjustment of the Subcontract Price or Subcontract Time will be valid if not delivered to the Contractor within the seven (7) working day period prescribed above. Subject to Contractor's right to terminate Subcontractor's rights under this Subcontract, Subcontractor shall continue performance of its obligations under this Subcontract notwithstanding any dispute between Contractor and Subcontractor concerning a Claim asserted by either party.

Subcontractor's sole and exclusive right to an adjustment in the Subcontract Price and/ or the Subcontract Time shall be the adjustment in the contract price and/ or the contract time to the General Contract actually received by Contractor from Owner on behalf of Subcontractor as a result of any such Claim. Subcontractor shall not be entitled to any adjustment in the Subcontract Price or the Subcontract Time or any other remedy under this Subcontract or remedy for breach thereof as a result of any event, occurrence, or act or omission of Contractor or Owner beyond such adjustment in the contract price and/or the contract time to the General Contract received by Contractor from Owner. Receipt by Contractor of a fully-executed written change order from Owner is a condition precedent to Subcontractor's right, if any, to an adjustment in the Subcontract Price and/ or the Subcontract Time, a remedy under this Subcontract, or remedy for breach of this Subcontract. Subcontractor's right to recover for such change, remedy, or breach shall be limited to the adjustment in contract price and/ or contract time received by Contractor from Owner for such change, remedy, or breach.

5.3 Delays If events, occurrences, acts, or omissions beyond the control of Subcontractor including, without limitation, the work of other trades or contractors, fire, earthquake, acts of God, terrorist acts, riots, war, strikes or other force majeure events delay Subcontractor's Work, the Subcontract Time and/ or the Subcontract Price will be adjusted to the extent of any adjustment in the contract price and/ or the contract time in the General Contract received by Contractor from Owner on behalf of Subcontractor. Subcontractor may make a Claim for an adjustment in the Subcontract Time and/ or the Subcontract Price if, and only if, Subcontractor timely presents to Contractor a Claim in compliance with Section 5.2. Any such adjustment in the contract price and/ or the contract time under the General Contract received by Contractor from Owner shall be Subcontractor's sole and exclusive remedy for such delays, if any, to Subcontractor's Work on the Project. Receipt by Contractor of a fully executed written change order from Owner is a condition precedent to Subcontractor's right, if any, to an adjustment in the Subcontract Price and/ or the Subcontract Time for delays of any kind or nature.

The Subcontract Time and the Subcontract Price shall not be adjusted and Subcontractor shall not be entitled to any remedy under this Subcontract, or for breach of this Subcontract for (a) delays caused concurrently by Subcontractor and Contractor, Owner or any other person, or (b) any other delays to Subcontractor's Work on the Project for any other events, occurrences, acts or omissions of any person or entity or of any other kind or nature other than that for which an adjustment in the Subcontract Price and/ or the Subcontract Time are expressly authorized in this Section.

5.4 Subcontractor-Caused Delays. Subcontractor recognizes and acknowledges that Contractor will suffer substantial Losses if Subcontractor fails to perform the Work in compliance with the Project Schedule. Subcontractor shall indemnify and hold Contractor harmless from and against any and all Losses and liquidated damages that are attributable to or caused by Subcontractor's failure to perform the Work in compliance with the Project Schedule. In addition to liquidated damages, such Losses may include, without limitation, direct jobsite overhead costs such as costs for project management and supervision, quality control, utilities, and other costs such as home office overhead, attorneys' and other professional fees, and other usual and customary mark-ups. If Contractor incurs Losses and/ or is assessed liquidated damages as a result of delays caused concurrently by Subcontractor and other trades or contractors, such Losses and/ or liquidated damages shall be pro rated by Contractor, in its sole discretion, between Subcontractor and all other responsible parties. Contractor's allowing Subcontractor to proceed with Work beyond the time specified for Subcontractor's performance of that Work shall not constitute a waiver of any rights by Contractor to recover damages for Subcontractor's delay.

ARTICLE VI

6.1 Payment. Contractor shall pay Subcontractor in monthly payments of 95% percent of the work performed in any preceding month, in accordance with estimates prepared by Subcontractor. All such pay estimates shall be made on the sample form provided, entitled "Subcontractor's Application for Payment." Contractor has the unfettered right, at its discretion, to adjust Subcontractor's statements to reflect any overestimation of the percent of work complete made by Subcontractor in a pay estimate.

6.2 Pay-If-Paid. When such pay estimates are approved by Contractor and/ or the Owner, Contractor will pay Subcontractor as payments are received by Contractor from the Owner covering the monthly pay estimates of the Contractor, including the approved portion of Subcontractor's monthly pay estimate.

All payments to Subcontractor will be made only from a special fund, namely, from payments made by Owner to Contractor in respect of work performed by Subcontractor. No payments will be made to Subcontractor unless that fund comes into existence. Owner's payment to Contractor for Subcontractor's Work is an express condition precedent to Contractor's obligation to make any payment to Subcontractor.

6.3 Delayed Pay Estimate/ Retainage. If the Subcontractor fails to submit a timely request for payment in an amount approved by Contractor, Subcontractor's payment may be delayed. Contractor shall have the right to withhold from any payment the percentage of retention set forth in the General Contract between Contractor and the Owner, but in no case less than five percent of all amounts due Subcontractor until the project is fully completed and accepted by the architect or Owner, and Contractor has received final payment from the Owner.

6.4 Payroll Summaries/ Prevailing Wages. Subcontractor agrees to furnish to Contractor one copy of each weekly payroll summary within seven days after the date of payment. Subcontractor agrees to comply with any and all provisions in the General Contract relating to labor standards, minimum wages and other wage and hour provisions to the same extent as they are binding upon Contractor. In the event the Owner requires Contractor to furnish payroll affidavits, subcontractor agrees to furnish similar affidavits to the Contractor.

6.5 Withholding. Contractor may withhold payment to Subcontractor in whole or in part to the extent necessary, in Contractor's sole discretion, to protect Contractor against Losses for which Subcontractor is responsible as a result of any Default, as that term is defined below.

If, at any time prior to final payment, Contractor determines, in its sole discretion, that it is insecure regarding Subcontractor's ability, willingness, or intent to fulfill its warranty obligations under the Subcontract Documents, Contractor may, at its option, withhold final payment during the entire Warranty Period. Subcontractor waives any right to recover interest on the amount withheld during that time. Contractor shall make final payment for Subcontractor's Work within ten (10) days of (1) expiration of the Warranty Period, or (2) Contractor's receipt of adequate assurances from Subcontractor of its ability, willingness and intent to perform the warranty work, subject to receipt of by Contractor of final payment from Owner as provided in Section 6.2.

6.6 Backcharges. Where feasible, Contractor shall use reasonable efforts to give Subcontractor notice before any costs are incurred which will be offset against the Subcontract Price. If Subcontractor disagrees with the nature or amount of costs to be incurred, it shall advise Contractor promptly in writing, and in no event later than three (3) days after its receipt of notice from Contractor. Such notification shall include reasons for Subcontractor's dispute and shall propose a reasonable and acceptable alternative along with an estimate of the cost of the alternative, where applicable.

If Contractor receives no protest to a proposed backcharge or Subcontractor protests and does not provide an alternative to Contractor's proposed action, Contractor may proceed to incur the costs and offset them against the Subcontract Price. Costs so offset shall be deemed to be reasonable and beyond dispute by Subcontractor. If Subcontractor timely protests and proposes a reasonable alternative that Contractor rejects, the disputed costs incurred shall be subject to the dispute resolution procedure outlined in Article XI, if Subcontractor gives Contractor written notice within ten (10) days of such rejection.

6.7 Lien Waivers. Subcontractor shall present to Contractor lien waivers for all labor, materials and equipment furnished by others in connection with this Subcontract prior to receiving each payment hereunder. Contractor may require such lien waivers as a condition of progress or final payment.

6.8 **Liens.** Subcontractor shall timely pay all claims for labor, materials, and equipment incurred in the performance of the Work and shall (1) keep the property on which the Project is situated (the "Property") free from mechanic's liens or attachments, and (2) prevent the filing of any claim or stop notice against funds or the payment of funds owed to Contractor, by any person or entity performing a portion of the Work. If any mechanic's lien, attachment, claim against funds, or stop notice is filed against the Property or funds owed to Contractor arising out of or related to performance of the Work, Subcontractor shall, within ten (10) days after written demand by Contractor, take all reasonable steps necessary to cause the effect of such lien, attachment, claim, or stop notice to be released. Upon request by Contractor, Subcontractor shall obtain a lien release or discharge bond or other bond satisfactory to Contractor in the amount of 150% all liens, attachments, claims, or stop notices so recorded or served.

6.9 Acceptance of, or payment for, Subcontractor's defective or late work shall not constitute a waiver of any claim or offset that Contractor may have under the terms of this Subcontract.

ARTICLE VII

7.1 **Indemnification.** To the fullest extent allowed by law, Subcontractor shall indemnify and hold harmless Contractor, Owner, the project architects and engineers, and all of their respective agents and employees (the "Indemnitees") from and against all claims, damages, losses and expenses including, without limitation, attorney's fees ("Losses"), arising out of or resulting from (1) any Default, or failure by Subcontractor to comply with any express duty, warranty, representation, acknowledgment or covenant in this Subcontract, (2) any charges, claims, or liquidated damages assessed and collected by the Owner against Contractor as a result of and to the extent caused by any act or omission of Subcontractor or its sub-subcontractors, guests or invitees; (3) personal or bodily injury to or death of any person, including, without limitation, any agent, employee, guest or invitee of Subcontractor or its sub-subcontractors, other contractors, Contractor, or Owner, to the extent caused by any act or omission of Subcontractor or its sub-subcontractors, guests or invitees, (4) damage to or loss of property to the extent caused by any act or omission of Subcontractor or its sub-subcontractors, guests or invitees, (5) any use of Contractor's equipment, tools, rigging, blocking, hoists, or scaffolding, (6) liens, attachments, claims, or stop notices against funds or payments owed to Contractor, recorded or served by any of Subcontractor's sub-subcontractors, or (7) infringement of any patent or copyright by Subcontractor. Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this paragraph.

The indemnity agreement shall be covered by Subcontractor's comprehensive general liability insurance policy. The indemnity obligations set forth in this Subcontract shall not be limited by (1) the Subcontract Price, or (2) the amount or type of proceeds, compensation, or benefits available to Subcontractor under any insurance policy including, without limitation, any self-insurance or similar program or policy maintained by Subcontractor.

At the request of an Indemnitee, Subcontractor shall defend any claim for Losses against an Indemnitee. The Indemnitee shall be entitled to approve the legal counsel to be paid for by Subcontractor for the purpose of defending such claims for Losses. No claim for Losses shall be settled or discontinued, nor shall judgment be permitted to be entered without the written consent of the Indemnitee, which consent shall not be unreasonably withheld.

ARTICLE VIII

8.1 **Insurance.** Unless otherwise specified in the Subcontract Documents indicating that insurance shall be provided pursuant to an owner-controlled or contractor-controlled insurance program, Subcontractor shall purchase and maintain the following insurance coverages for itself and the Additional Insureds during the course of the Work and during the Warranty Period, and shall maintain completed operations coverage for itself and the Additional Insureds for the length of time necessary to cover any manifestation date within the applicable statutes of limitations and/ or repose which pertain to the Work. If additional insurance coverage or greater limits of liability are required by the General Contract Documents, such provisions shall control.

8.1.1 **Commercial General Liability** coverage on an occurrence basis with a deductible not to exceed \$1,000 per occurrence that includes coverage for liability assumed under any oral or written contract relating to the conduct of Subcontractors' business, including this Subcontract, and also including (1) broad form property damage liability coverage; (2) premises-operations coverage; (3) explosion and collapse hazard coverage; (4) underground hazard; (5) products and completed operations hazard coverage, and (6) independent contractor coverage. The limit of

liability shall be not less than \$1,000,000 each occurrence, \$2,000,000 general aggregate (subject to a per project general aggregate provision applicable to the project per ISO form CG 2503 or its equivalent), \$2,000,000 products/completed operations aggregate and \$1,000,000 personal and advertising injury.

Claims Made/Self-Insurance Provisions. Subcontractor shall not provide general liability insurance under any Claims-Made General Liability form without express prior written consent of Contractor. Any self-insurance program providing coverage in excess of \$25,000 per occurrence requires the prior written consent of the contractor.

- 8.1.2 **Automobile Liability** coverage in comprehensive form affording coverage for owned, hired, and non-owned vehicles. The limit of liability shall not be less than \$1,000,000 for bodily injury and property damage combined, \$1,000,000 for each accident. (No aggregate on automobile insurance). The General Contractor, Owner and all other parties required of the General Contractor, shall be included as insureds on the auto policy.
- 8.1.3 **Workers Compensation and Employers Liability** coverage with Workers Compensation limits complying with statutory requirements, and Employers Liability Insurance limits of at least \$1,000,000 each accident, \$1,000,000 for bodily injury by accident, and \$1,000,000 each employee for injury by disease. Workers' compensation insurance shall comply with the statutory form.
- 8.1.4 **Commercial Umbrella** coverage with limits of at least \$1,000,000. Umbrella coverage must include as insureds all entities that are additional insureds on the CGL. Umbrella coverage for such additional insureds shall apply as primary before any other insurance or self-insurance, including any deductible, maintained by, or provided to, the additional insured other than the CGL, Auto Liability and Employers Liability coverages maintained by the Subcontractor.
- 8.1.5 **Hazardous Materials** If Subcontractor and/or its subcontractors or suppliers, regardless of tier, perform remediation of hazardous material, or if their operations create an exposure to hazardous materials as those terms are defined in federal, state, or local law, Subcontractor and its subcontractors and suppliers must obtain a "Contractor's Pollution Liability" policy with limits not less than \$1,000,000 per occurrence and \$2,000,000 aggregate for Bodily Injury, Personal Injury, and Property Damage, naming Contractor and Owner as additional insured. If Subcontractor or its subcontractors or suppliers haul hazardous material (including, without limitation, waste), they must carry Auto Liability insurance with a \$1,000,000 Combined Single Limit for Bodily Injury and Property Damage applicable to all hazardous waste hauling vehicles and include MCS 90 and CA9948.
- 8.1.6 **Professional Liability Coverage** Any subcontractor performing work that includes design/build work or services shall obtain a Professional Liability Insurance Policy. Design/build work includes, without limitation, design/build work with respect to mechanical, structural, plumbing, and fire sprinkler systems. Coverage must allow for a minimum of two years following the completion of the project. If Owner or Contractor elects to purchase a project design policy, Subcontractor's policy shall be endorsed to provide excess coverage only.

The liability insurance policies, including commercial general liability, automobile liability and excess liability, shall be endorsed to provide: (1) that Contractor and Owner are additional insureds (the "Additional Insureds") per ISO form CG 20 10 07 04 and CG 20 37 07 04 or their equivalent, (2) that the insurance afforded by the policies shall apply to Contractor as though a separate policy had been issued to Contractor, and (3) that the coverage afforded to Contractor is primary and any other insurance in force for Contractor will be excess and will not contribute to the primary policies. All required insurance shall be provided by insurance companies with a rating of A- VII or better by A.M. Best Company.

Prior to performing any Work, Subcontractor shall provide Contractor with a certificate of insurance demonstrating that Subcontractor has obtained all of the insurance coverages required by this Section. An additional insured endorsement shall be attached to such certificate of insurance. The certificate of insurance and the insurance policies effectuating coverages required by this Section shall contain a provision that coverage afforded under the policies will not be canceled or allowed to expire until at least 30 days prior written notice has been given to Contractor.

8.2 Subcontractor waives all rights against Contractor, Owner and Architect and their respective agents, officers, directors and employees for recovery of damages to the extent these damages are covered by commercial general liability, commercial umbrella liability, business auto liability or workers compensation or employers liability insurance.

8.3 Subcontractor will protect the job site, the work of Contractor and subcontractors, and its own work until completion and acceptance of the entire project. Contractor and Subcontractor waive all rights against each other and against all other subcontractors and Owner for loss or damage to the extent reimbursed by Builder's Risk or any other property or equipment insurance applicable to the work, except such rights as they may have to the proceeds of such insurance. If the Subcontractors policies of insurance referred to in this Section require an endorsement or consent of the insurance company to provide for continued coverage where there is a waiver of subrogation, the owners of such policies will cause them to be so endorsed or obtain such consent.

Upon written request of the Subcontractor, Contractor shall provide Subcontractor with a copy of the Builder's Risk policy of insurance or any other property or equipment coverage in force for the project and procured by Contractor. Subcontractor shall satisfy himself as to the existence and extent of such coverage prior to commencement of Subcontractor's work.

If Builder's Risk insurance purchased by Owner or Contractor provides coverage for Subcontractor for loss or damage to Subcontractor's work, Subcontractor shall be responsible for the insurance policy deductible amount applicable to damage to the Subcontractor's work and/or damage to other work caused by Subcontractor. If not covered under the Builder's Risk policy of insurance or any other property or equipment insurance required by the Contract Documents, Subcontractor shall procure and maintain at his own expense property and equipment insurance for portions of Subcontractor's work stored off the site or in transit.

If Owner or Contractor has not purchased Builder's Risk or equivalent insurance including the full insurable value of Subcontractor's work, then Subcontractor may procure such insurance at his own expense as will protect the interests of Subcontractor, and his subcontractors in the work. Such insurance shall also apply to any of the Owner's or Contractor's property in the care, custody, or control of Subcontractor.

8.4 **Health Insurance Certification.** Subcontractor hereby certifies that the Subcontractor and all applicable subcontractors and suppliers at any tier that is subject to UCA 63A-5-205 and Utah Administrative Code Rule R23-23, has and will maintain for the duration of this contract, an offer of qualified health insurance coverage for their employees; all in accordance with UCA 63A-5-205, and Utah Administrative Code Rule R23-23.

ARTICLE IX

9.1 **Default.** The following acts or omissions by Subcontractor shall constitute events of default ("Default") under this Subcontract and shall give rise to all rights and remedies for material breach of this Subcontract, including, without limitation, termination of this Subcontract:

- (a) failure to perform the Work in strict compliance with this Subcontract and the Subcontract Documents.
- (b) failure to promptly and diligently correct or replace Defective Work.
- (c) failure to diligently perform the Work in compliance with the Project Schedule including, without limitation, failure to supply sufficient skilled laborers, materials, or equipment.
- (d) failure to provide reasonable assurances of timely performance.
- (e) failure to provide timely submittal information for review and approval as provided in the Subcontract Documents.
- (f) failure or evidence of failure to timely pay workers, subcontractors, or health, welfare, pension or other benefit funds for labor, materials or equipment furnished as part of the Work.
- (g) failure to keep the Property free from mechanic's liens.

- (h) third party claims or evidence indicating, in Contractor's sole discretion, probable filing of such claims unless Subcontractor provides security against such claims in a form acceptable to Contractor.
- (i) failure to pay prevailing wages, if required.
- (j) assignment or subcontracting the majority of the Work without prior written authorization from Contractor.
- (k) failure to perform the Work in strict compliance with the Laws and Regulations or the Safety Rules and Regulations.
- (l) evidence that the Work can not be completed for the unpaid balance of the Subcontract Price, as determined by Contractor in its sole discretion.
- (m) evidence that the Work will not be completed within the Subcontract Time, and/ or that the unpaid balance will not be adequate to cover actual or liquidated damages for the anticipated delay, as determined by Contractor in its sole discretion.
- (n) damage to the work of Contractor or others on the Project.
- (o) insolvency, inability to pay its current obligations, filing of any action seeking the protection of a bankruptcy court where this Subcontract is rejected by the trustee or the Subcontractor is unable to satisfy the requirements for assuming this Subcontract under the applicable provisions of the bankruptcy code, seeking to effect reorganization or workout with its creditors, filing in bankruptcy court by its creditors seeking to compel Subcontractor to reorganize or liquidate assets, appointment of a receiver or trustee related to any insolvency of Subcontractor, and garnishment of any amounts owed by Contractor to Subcontractor;
- (p) any other material breach of this Subcontract or the Subcontract Documents; and
- (q) any act, occurrence or event that places Subcontractor in default under any agreement between Contractor and Subcontractor other than this Subcontract.

9.2 **Notice of Default.** Upon written notice of Default, Subcontractor shall, within forty-eight (48) hours of receipt of such notice, take all actions requested by Contractor and such other actions as may be necessary to cure such Default. Subcontractor shall not be entitled to any adjustment in the Subcontract Price or the Subcontract Time as a result of any efforts to cure such Default.

9.3 If Subcontractor fails to cure any Default within forty-eight (48) hours after receipt of written notice of Default, Contractor may cure or remedy any Default by Subcontractor. Subcontractor shall reimburse Contractor and/or Contractor may backcharge Subcontractor for, any and all Losses it incurs, plus a reasonable allowance for profit, to cure or remedy any Default, or as a result of any other failure of Subcontractor to comply with the terms and conditions of this Subcontract or the Subcontract Documents. Contractor may offset against the Subcontract Price any Losses incurred as a result of a Default or any amounts owed to Contractor pursuant to this Section.

ARTICLE X

10.1 **Termination for Cause.** If (1) Subcontractor fails to cure any Default within forty-eight (48) hours after receipt of written notification of such Default, or (2) a Default threatens to cause immediate personal or bodily injury or death, Contractor may terminate Subcontractor's rights under this Subcontract in its entirety and Contractor shall have all the rights and remedies available under this Subcontract and at law or in equity including, without limitation, those remedies specified below.

If Contractor terminates this Subcontract for cause as provided herein, Contractor may, without prejudice to any other of its rights or remedies, perform and complete the Work and in connection therewith, Contractor may do any or all of the following:

- 10.1.1 exclude Subcontractor from the Project.

- 10.1.2 take possession of all materials, equipment, and tools intended for performance of the Work including materials and equipment at the Project site, stored materials and equipment, and materials and equipment in the course of preparation wherever located (without liability to Subcontractor for trespass or conversion),
- 10.1.3 accept assignment of Subcontractor's rights under all of Subcontractor's contracts with sub-subcontractors for performance of the Work, pursuant to Section 3.9 and/ or
- 10.1.4 otherwise obtain materials and equipment and employ persons which, in Contractor's sole discretion, are necessary to complete the Work.

Upon termination for cause as provided herein, Subcontractor shall not be entitled to receive any further payment until completion of all of the Work and acceptance of the entire Project. Subcontractor shall reimburse Contractor for all Losses it incurs to complete Subcontractor's Work, plus a reasonable allowance for overhead and profit. If the unpaid balance of the Subcontract Price exceeds the Contractor's Losses, plus allowance for overhead and profit, Contractor shall pay such excess to Subcontractor. If such Losses, overhead, and profit exceed the unpaid balance of the Subcontract Price, the Subcontractor shall pay the difference to Contractor. In addition, Contractor shall be entitled to such other and further remedies available at law or in equity.

10.2 Suspension for Convenience. Contractor may, without cause, suspend, delay, or interrupt the Work in whole or in part for such period of time as the Contractor may determine and/ or as provided in the Subcontract Documents. Subject to the requirements and limitations of Article V, the Subcontract Price and Subcontract Time may be adjusted for increases in the cost and time to complete the Work caused by such suspension. No adjustment shall be made, however, to the extent that (a) performance is, was or would have been so suspended, delayed or interrupted by another cause for which the Subcontractor is responsible, (b) an adjustment is made or denied under another provision of this Subcontract, or (c) Contractor is not entitled to an adjustment in the contract price and/ or the contract time under the General Contract on behalf of Subcontractor as a result of such suspension.

10.3 Termination for Convenience. The Contractor may, at any time, terminate this Subcontract for the convenience of Contractor and without cause. Subcontractor's sole and exclusive right to compensation for Losses resulting from such termination shall be the compensation actually received by Contractor from Owner on behalf of Subcontractor as a result of any such termination. Subcontractor shall not be entitled to any compensation for Losses or any other remedy under this Subcontract or for breach thereof as a result of such termination beyond such adjustment in the contract price and/ or the contract price to the Prime Contract received by Contractor from Owner on behalf of Subcontractor. Receipt by Contractor of such compensation is a condition precedent to Subcontractor's right, if any, to compensation for Losses resulting from such termination. Subcontractor's right to recover for such termination shall be limited to the compensation received by Contractor from Owner for such termination on behalf of Subcontractor.

ARTICLE XI

11.1 Dispute Resolution. Disputes, if any, between Subcontractor and Contractor arising out of or relating to this Subcontract or the Work shall be resolved as provided in this Article.

11.2 Disputes Involving the Owner or the Architect. Any disputes in which the Owner or the Architect is a party shall be governed by the dispute resolution procedures in the Subcontract Documents other than this Subcontract. If those Subcontract Documents contain no dispute resolution procedures, such disputes shall be resolved as provided in Section 11.3 below.

11.3 Disputes Not Involving the Owner or the Architect. At the sole and exclusive discretion of Contractor, all disputes in which neither the Owner nor the Architect is a party shall be resolved in (1) binding arbitration, or (2) litigation in a state or federal court of competent jurisdiction situated in the state of the location of the Project. If Contractor determines to resolve disputes under this Subcontract by binding arbitration, the following rules shall apply.

- 11.3.1 Binding Arbitration shall be pursuant to the current Construction Industry Arbitration Rules of the American Arbitration Association unless the parties mutually agree otherwise. A written demand for arbitration shall be filed with the American Arbitration Association and the other party within

a reasonable time after the dispute or claim has arisen, but in no event after the applicable statute of limitations for a legal or equitable proceeding would have run.

- 11.3.2 Any Arbitration pursuant to this Subcontract may be joined or consolidated with any arbitration involving (1) any other person or entity necessary to resolve the claim, dispute or controversy, (2) the same transaction or series of related transactions as those in the Arbitration, or (3) a common issue of law or fact with those in the Arbitration creating the possibility of conflicting rulings by more than one arbitrator or panel of arbitrators. The location of the arbitration proceedings shall be in the state of the location of the Project. The arbitration award shall be final.
- 11.3.3 Arbitration pursuant to this Section shall be governed by the applicable version of the Uniform Arbitration Act in enacted by the state of the location of the Project. The arbitrator, in determining an award, shall be without jurisdiction to enter any award not in conformity with the laws determined by the parties to be controlling pursuant to Section 12.4. The arbitrator shall have all authority necessary to enforce all the terms and conditions of this Subcontract and provide for all remedies available hereunder including, without limitation, interim relief, if appropriate. The arbitrator shall prepare a (1) reasoned award, or (2) findings of fact and conclusions of law, applying the governing laws to the facts of the case.
- 11.3.4 Notwithstanding the foregoing, the arbitrator shall be deemed to have exceeded the authority granted under this Subcontract if, and to the extent, an award does not comply with the requirements of this Subcontract. The Parties consent to the jurisdiction of the state and federal courts of the state in which the Project is located for the purposes of (1) enforcing the parties' obligation to arbitrate disputes, claims and controversies under this Subcontract, (2) determining the scope of the matters that are subject to arbitration, (3) requiring the joinder and/ or consolidation of matters subject to arbitration, and (4) enforcing and entering judgment upon the arbitration award entered by the arbitrator. Each Party waives any objection that it may now have or hereafter have to venue in such courts.
- 11.3.5 If any action or proceeding is brought in connection with this Subcontract, the prevailing party shall be entitled to recover its costs and reasonable expert and attorneys' fees.

ARTICLE XII

12.1 This Subcontract and the Subcontract Documents constitute the final, complete, and exclusive statement of the agreement between the parties, and supersedes and replaces in their entirety all prior oral or written agreements, including but not limited to, bids and bid acceptances. This Subcontract may not be altered, amended or extended, except by written agreement of the parties hereto executed by James Gramoll on behalf of Contractor.

12.2 This Subcontract shall inure to the benefit of and be binding upon the parties hereto, their successors and permitted assigns.

12.3 Delay by Contractor in enforcing any rights or remedies in the event of Default or a breach of any term or condition of this Subcontract or any other contract between Contractor or Subcontractor, shall not be construed as a waiver of such Default or breach. Payment by Contractor of progress payments or final payment shall not be construed as acceptance of any work for which payment is made or waiver of any Claims, rights, or remedies under this Subcontract.

12.4 This Subcontract shall be construed and interpreted as a whole in accordance with its fair meaning and in accordance with the laws of the state of the location of the Project. Under no circumstances, however, shall such laws be interpreted to apply conflict of laws principles to require the laws of another state to determine the interpretation or construction of this Subcontract.

12.5 **Performance Guaranty.** If Subcontractor operates as a corporation, limited liability company, partnership or a business entity other than as an individual or sole proprietor, this Subcontract will be signed by the President and Secretary of the corporation, the managing member(s), partners, or other authorized principals of Subcontractor's company, and the officers, managing member(s), partners, and/ or other principals signing this Subcontract on behalf of the corporation, limited liability company, partnership or other

business entity do jointly and severally, guarantee to the Contractor the full and faithful performance of this Subcontract by Subcontractor, and do further agree, jointly and severally, that they shall be personally liable to Contractor for the full and faithful performance of Subcontractor's obligations under this Subcontract. Failure of Contractor to request a performance bond from Subcontractor shall not affect the obligation assumed by the officers, managing members, partners or other principals signing this Subcontract on behalf of Subcontractor.

IN WITNESS WHEREOF, this Subcontract has been executed by the Contractor and Subcontractor as of the day and the year below.

SUBCONTRACTOR: (SUBCONTRACTOR NAME)

By _____

Print _____

Its _____

Date: _____

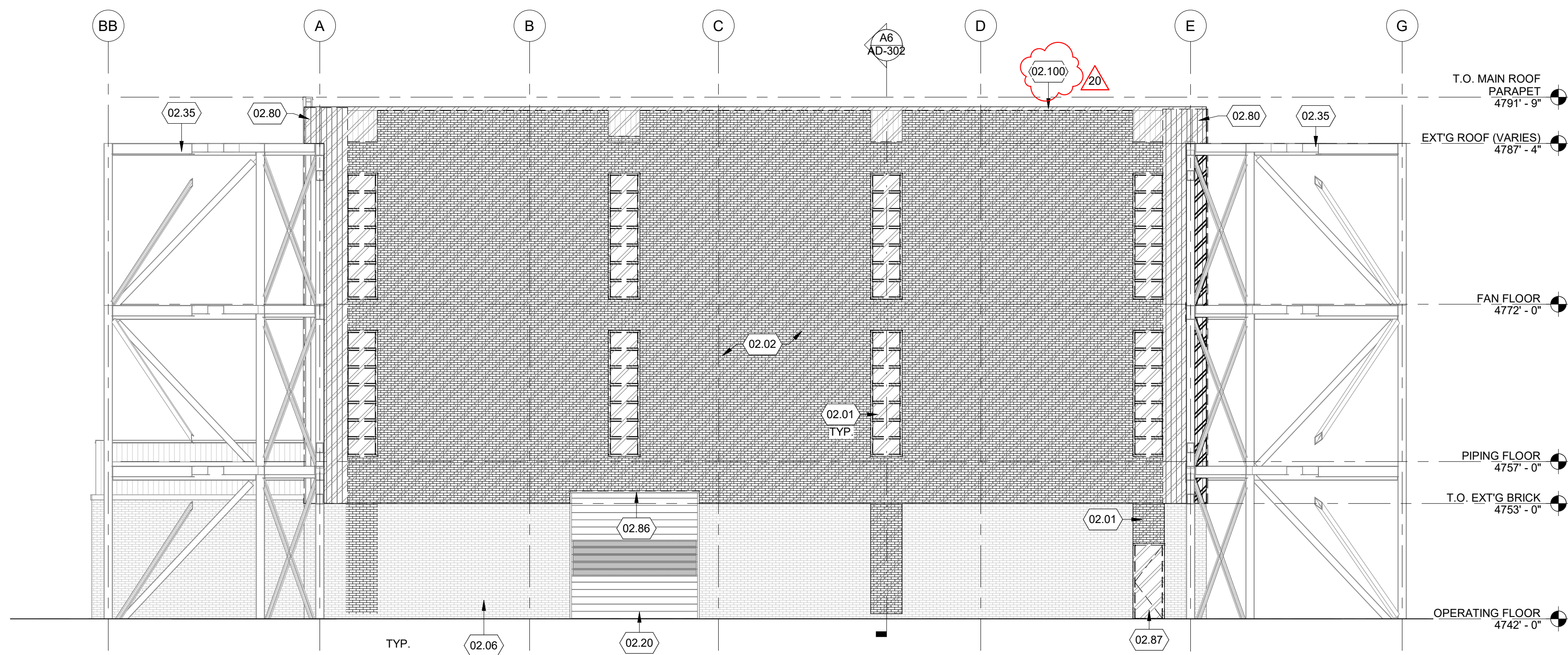
CONTRACTOR: GRAMOLL CONSTRUCTION COMPANY

Auth _____

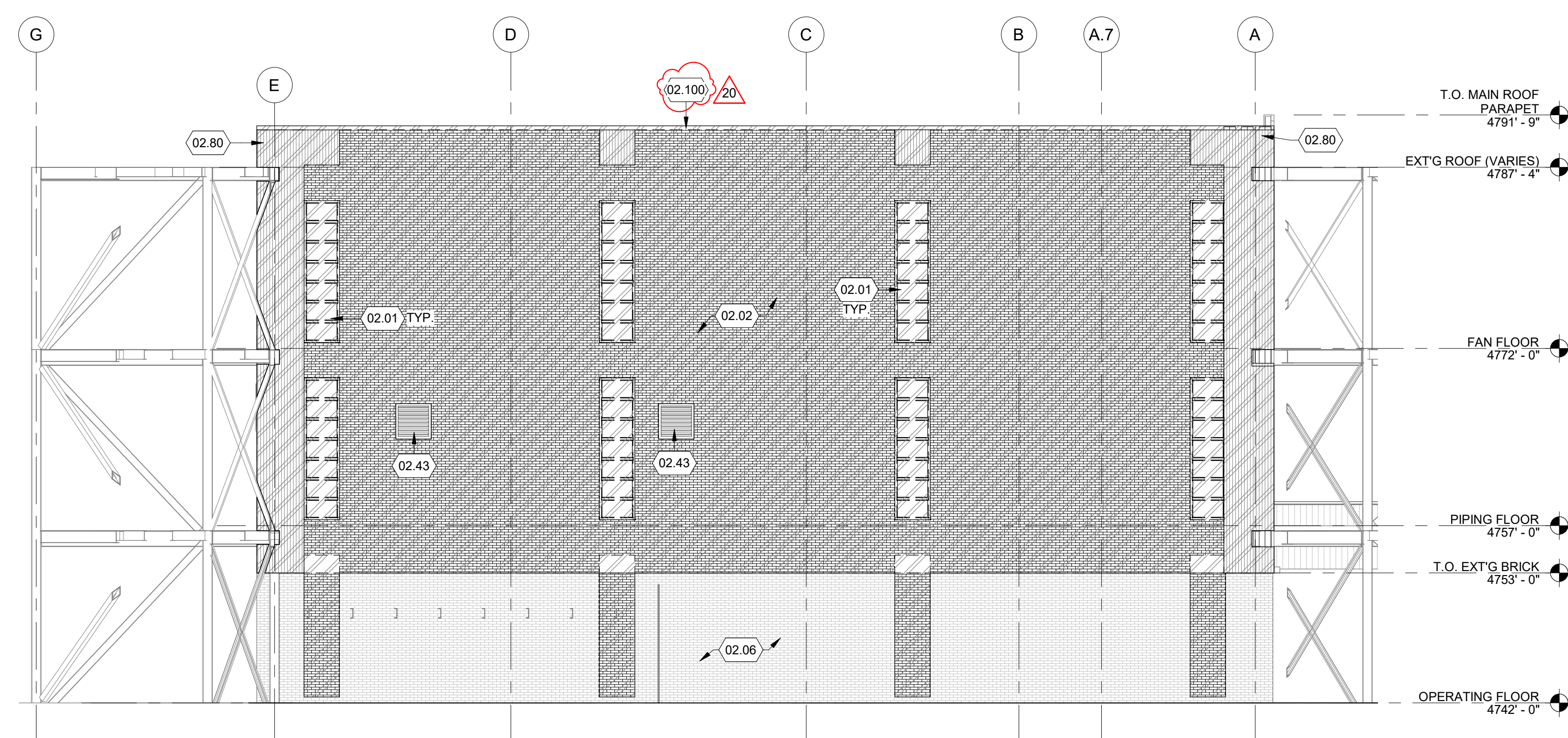
Print Dustin Gramoll, President

Date: _____

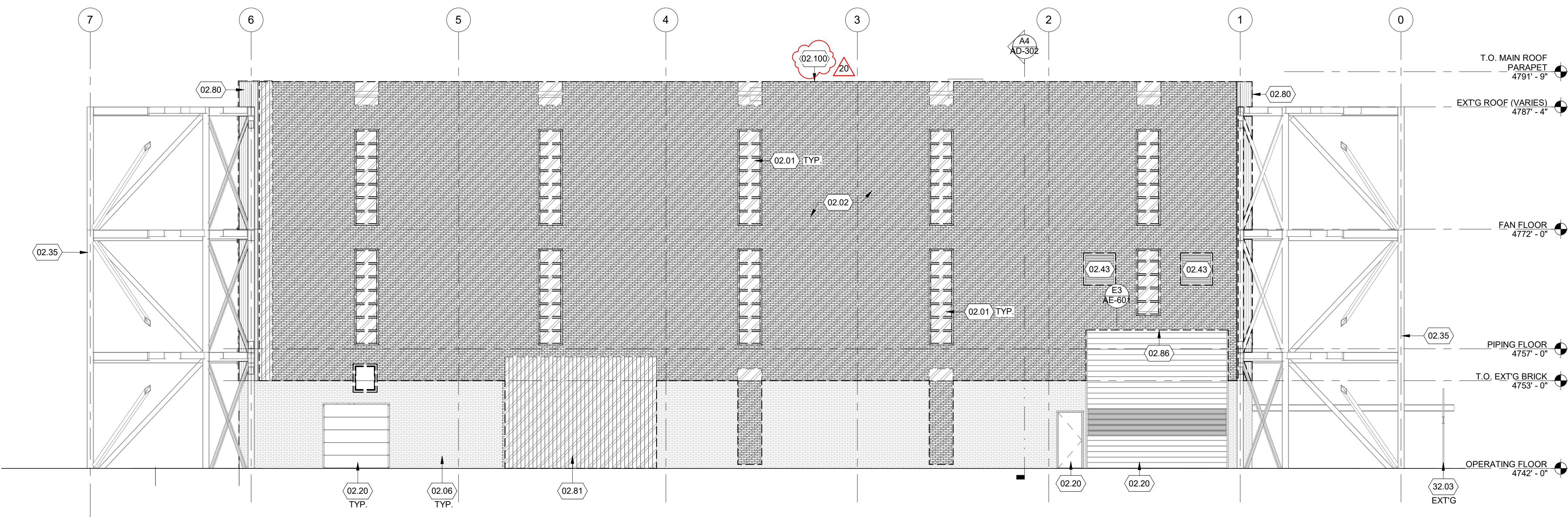
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D3 SOUTH DEMO ELEVATION
SCALE: 1/8" = 1'-0"



B3 NORTH DEMO ELEVATION
SCALE: 1/8" = 1'-0"



A3 EAST DEMO ELEVATION
SCALE: 1/8" = 1'-0"

REFERENCE NOTES

- 02.01 REMOVE EXISTING WINDOW
- 02.02 REMOVE EXISTING MASONRY WALL FROM 11'-0" A.F.F. AND UP. BRACE EXISTING MASONRY, MEP EQUIPMENT, CONDUITS, PIPES, ETC. AS REQ'D. SALVAGE @ 40 SF FOR PATCH & REPAIR
- 02.06 EXISTING MASONRY WALL TO REMAIN TO 11'-0" A.F.F.
- 02.20 EXISTING DOOR TO REMAIN
- 02.35 EXISTING BUTTRESS FRAMEWORK FROM PREVIOUS PHASE TO REMAIN AND PROTECT
- 02.43 EXISTING LOUVER TO REMAIN. PROTECT. PROVIDE A CLEAR AIR FLOW
- 02.80 REMOVE EXISTING METAL WALL PANEL. PREP FOR NEW INSULATED METAL PANEL
- 02.81 REMOVE EXISTING TEMPORARY WALL
- 02.86 BRACE EXISTING OPENING, FRAME, ETC. AS REQ'D
- 02.87 REMOVE EXISTING DOOR AND FRAME. PREP FOR NEW BUILD
- 02.100 REMOVE AND PROTECT LIGHTNING PROTECTION FOR FUTURE REINSTALLATION
- 32.03 CHAIN LINK FENCE

PHASE 5 DEMO LEGEND



GENERAL NOTES

1. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION
2. BRACE EXISTING MEP CONDUITS, PIPES, ETC. AS REQ'D DURING DEMOLITION. REATTACH TO THE NEW STRUCTURAL FRAME, NOT INSULATED METAL PANEL
3. ONLY THE MODIFICATIONS ARE CLOUDED ON THE SHEETS THAT WERE ISSUED IN PR #2
4. SHEETS NOT ISSUED WITH PR #2 DO NOT HAVE CLOUDS INDICATING MODIFICATIONS
5. MUST COORDINATE OR INFORM THE GAS COMPANY PRIOR TO BEGIN WORK IN THE HIGH PRESSURE GAS YARD
6. KEEP THE CAULKING AT THE TOP END OF THE BRG IN GOOD SHAPE AND APPLY AND MAINTAIN A GOOD, HIGH QUALITY PAINT SYSTEM, TYPICAL FOR ALL EXPOSED STRUCTURAL STEEL

ADDENDUM #1
 3-22-2024



DATE: 20 3-20-24 REVISION: Ph. 5 Add #1

PROJECT NUMBER: 18136

DEMO EXTERIOR ELEVATIONS PHASE 5

3/22/2024 10:29:17 AM

REFERENCE NOTES

- 02.06 EXISTING MASONRY WALL TO REMAIN TO 11'0" A.F.F.
- 02.20 EXISTING DOOR TO REMAIN
- 02.39 NO WORK PERFORMED IN THIS AREA
- 02.94 REINSTALLATION OF EXISTING DOOR AND FRAME. REVERSE HARDWARE AS REQ'D
- 09.23 HIGH PERFORMANCE EXTERIOR PAINT. ALSO RE. GEN. NOTE #6
- 26.03 REROUTE ELECTRICAL CONTROL, SENSOR, SWITCHES, ETC. AS REQ'D
- 32.03 CHAIN LINK FENCE
- 32.09 10' TALL GALVANIZED CHAIN LINK FENCE TO MATCH EXISTING. ATTACHED TO EXISTING CORNER POST AND TERMINATE AT THE BUILDING EXTERIOR WALL. PROVIDE A STEEL CHANNEL AT TOP OF FENCE POST. MATCH EXISTING

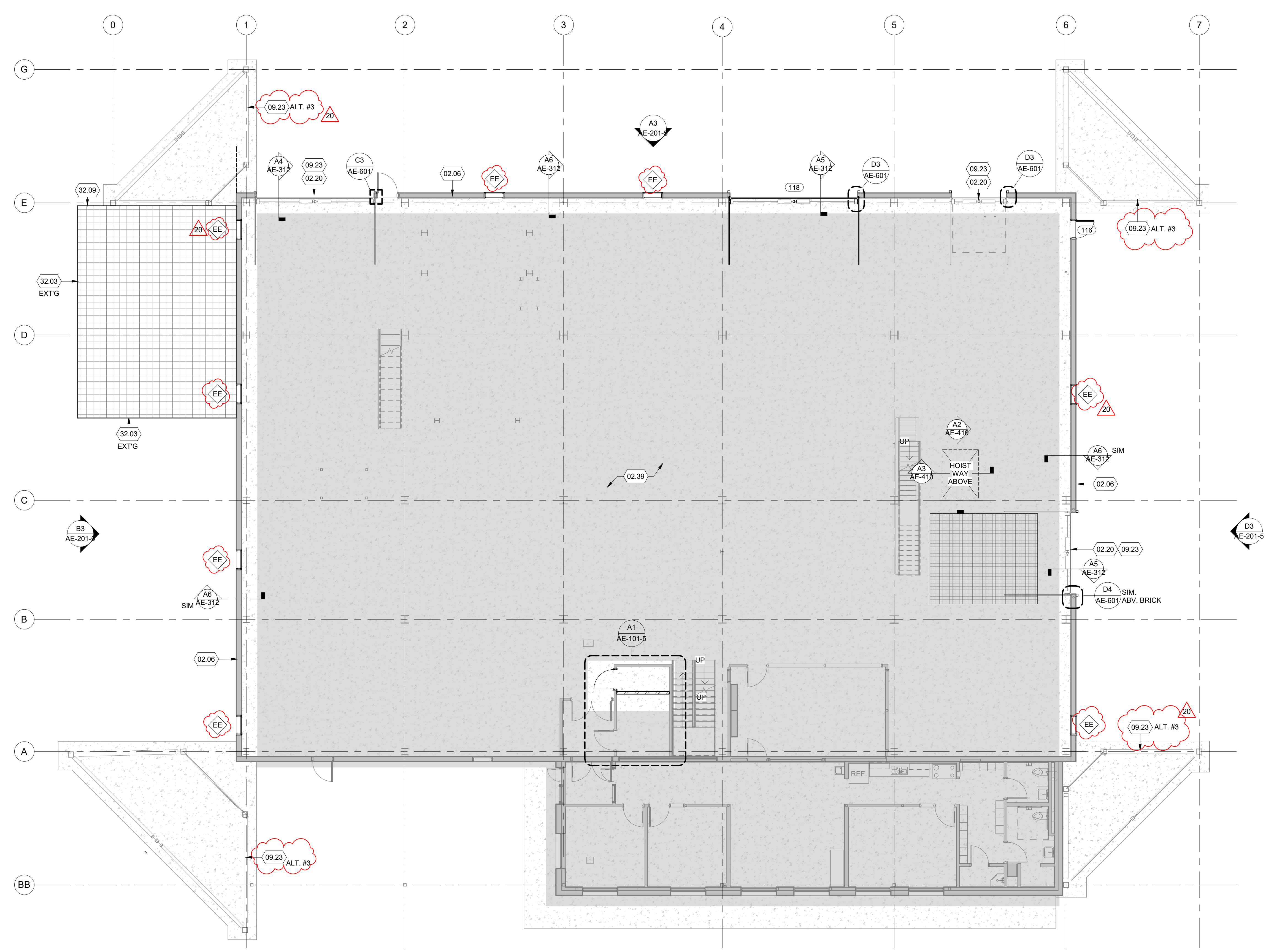


DATE: 20 3-20-24 REVISION: Ph. 5 Add #1

PROJECT NUMBER: 18136

OPERATING LEVEL FLOOR PLAN PHASE 5

AE-101-5

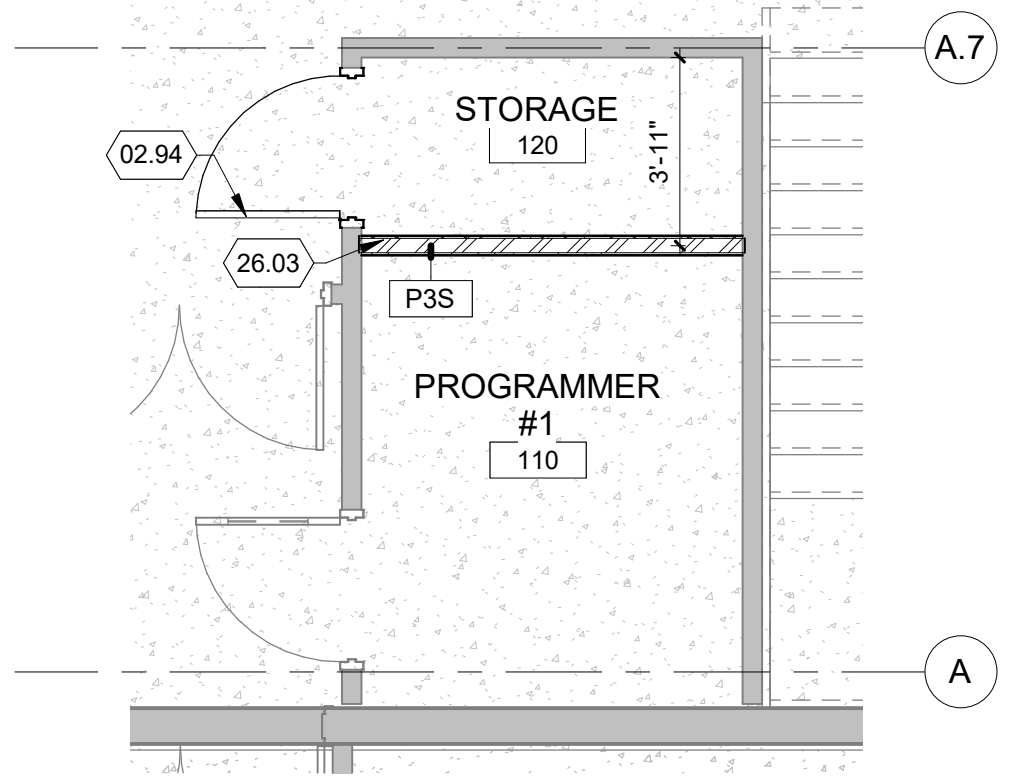


PHASE 5 ALTERNATES

1. ROOF TOP EXHAUST FANS TO INCLUDE: FANS, INSTALLATION, WIRING TO THE PANEL.
2. FIRE SUPPRESSION AND FIRE ALARM.
3. HIGH PERFORMANCE PAINT AT ALL EXTERIOR BUTTRESSES.

GENERAL NOTES

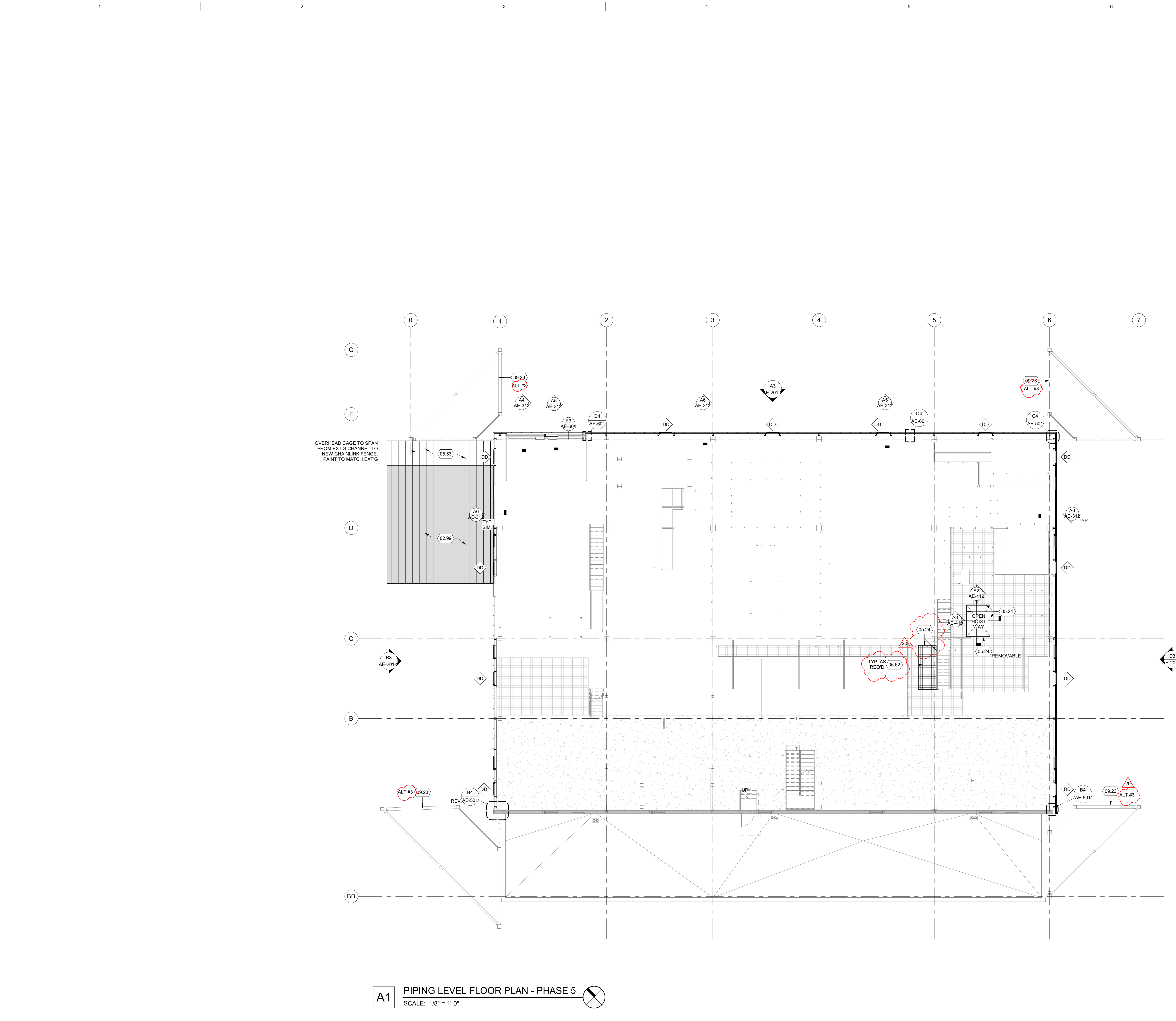
1. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION
2. BRACE EXISTING MEP CONDUITS, PIPES, ETC. AS REQ'D DURING DEMOLITION. REATTACH TO THE NEW STRUCTURAL FRAME. NOT INSULATED METAL PANEL
3. ONLY THE MODIFICATIONS ARE CLOUDED ON THE SHEETS THAT WERE ISSUED IN PR #2
4. SHEETS NOT ISSUED WITH PR #2 DO NOT HAVE CLOUDS INDICATING MODIFICATIONS
5. MUST COORDINATE OR INFORM THE GAS COMPANY PRIOR TO BEGIN WORK IN THE HIGH PRESSURE GAS YARD
6. KEEP THE CAULKING AT THE TOP END OF THE BRG IN GOOD SHAPE AND APPLY AND MAINTAIN A GOOD, HIGH QUALITY PAINT SYSTEM, TYPICAL FOR ALL EXPOSED STRUCTURAL STEEL



A1 STORAGE ROOM
 SCALE: 1/4" = 1'-0"

A2 OPERATING LEVEL FLOOR PLAN PHASE 5
 SCALE: 1/8" = 1'-0"

3/22/2024 10:29:18 AM



- REFERENCE NOTES**
- 02.99 EXT'G OVERHEAD CAGE
 - 05.24 42" HIGH GUARDRAIL, MATCH EXISTING DESIGN, PAINTED
 - 05.53 1 1/2" DIA. METAL PIPE 18" O.C. WELDED TO STRUCTURAL W BEAMS, HOT DIPPED GALVANIZED, PAINTED
 - 05.62 INFILL WITH SALVAGED METAL GRATING, ADD STEEL SUPPORT AND NEW GRATING (SAME SPEC AS ORIGINAL) AS REQ'D, LEVEL WITH ADJACENT SURFACE
 - 09.23 HIGH PERFORMANCE EXTERIOR PAINT, ALSO RE. GEN. NOTE #6

OVERHEAD CAGE TO SPAN FROM EXT'G CHANNEL TO NEW CHAINLINK FENCE, PAINT TO MATCH EXT'G

PHASE 5 FLOOR LEGEND

- CONCRETE FLOOR
- FLOOR GRATE

PHASE 5 ALTERNATES

1. ROOF TOP EXHAUST FANS TO INCLUDE: FANS, INSTALLATION, WIRING TO THE PANEL.
2. FIRE SUPPRESSION AND FIRE ALARM.
3. HIGH PERFORMANCE PAINT AT ALL EXTERIOR BUTTRESSES.

GENERAL NOTES

1. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION
2. BRACE EXISTING MEP CONDUITS, PIPES, ETC., AS REQ'D DURING DEMOLITION, REATTACH TO THE NEW STRUCTURAL FRAME, NOT INSULATED METAL PANEL.
3. ONLY THE MODIFICATIONS ARE CLOUDED ON THE SHEETS THAT WERE ISSUED IN PR #2
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6. KEEP THE CAULKING AT THE TOP END OF THE BRB IN GOOD SHAPE AND APPLY AND MAINTAIN A GOOD, HIGH QUALITY PAINT SYSTEM, TYPICAL FOR ALL EXPOSED STRUCTURAL STEEL.

A1 PIPING LEVEL FLOOR PLAN - PHASE 5
SCALE: 1/8" = 1'-0"

U OF U BLDG. 303 SEISMIC UPGRADE - #22649 - PHASE 5
SALT LAKE CITY UTAH

FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
801.521.6186 - FFKR.COM

ADDENDUM #1
3-22-2024

PERMIT SET - 3-5-2024



DATE: 20 3-20-24 REVISION: Ph. 5 Add #1

PROJECT NUMBER: 18136

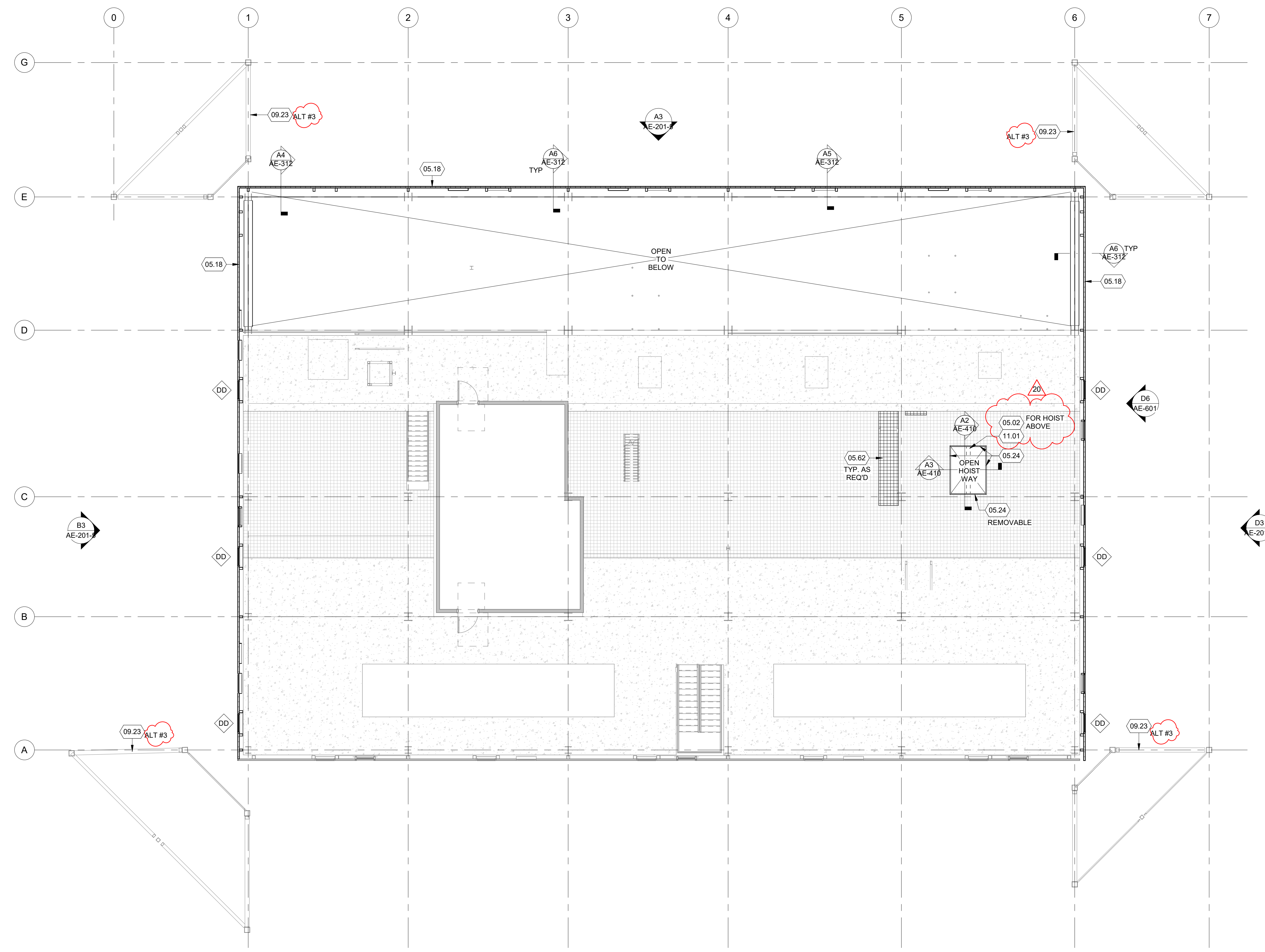
PIPING LEVEL FLOOR PLAN PHASE 5

AE-102-5

3/22/2024 10:29:18 AM

REFERENCE NOTES

- 05.02 STRUCTURAL BEAM, PRIMED; PAINTED IF EXPOSED
- 05.18 3" INSULATED METAL PANEL (R25) TO SPAN VERTICALLY, ATTACH TO STEEL FRAME OR METAL STUDS, ALSO RE. STRU. DWG.
- 05.24 42" HIGH GUARDRAIL, MATCH EXISTING DESIGN, PAINTED
- 05.62 INFILL WITH SALVAGED METAL GRATING, ADD STEEL SUPPORT AND NEW GRATING (SAME SPEC. AS ORIGINAL), AS REQ'D, LEVEL WITH ADJACENT SURFACE
- 09.23 HIGH PERFORMANCE EXTERIOR PAINT, ALSO RE. GEN. NOTE #6
- 11.01 ELECTRICALLY OPERATED 1000 LBS CAPACITY (MIN.) HOIST TO REACH FROM OPERATION LEVEL TO BELOW ROOF. ON TROLLEY FOR BACK/FORTH SLIDING (MANUAL)



PHASE 5 FLOOR LEGEND

- CONCRETE FLOOR
- FLOOR GRATE

GENERAL NOTES

- REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION
- BRACE EXISTING MEP CONDUITS, PIPES, ETC., AS REQ'D DURING DEMOLITION, REATTACH TO THE NEW STRUCTURAL FRAME, NOT INSULATED METAL PANEL
- ONLY THE MODIFICATIONS ARE CLOUDED ON THE SHEETS THAT WERE ISSUED IN PR #2
- SHEETS NOT ISSUED WITH PR #2 DO NOT HAVE CLOUDS INDICATING MODIFICATIONS
- MUST COORDINATE OR INFORM THE GAS COMPANY PRIOR TO BEGIN WORK IN THE HIGH PRESSURE GAS YARD
- KEEP THE CAULKING AT THE TOP END OF THE BRG IN GOOD SHAPE AND APPLY AND MAINTAIN A GOOD, HIGH QUALITY PAINT SYSTEM, TYPICAL FOR ALL EXPOSED STRUCTURAL STEEL

A1 FAN LEVEL FLOOR PLAN - PHASE 5
 SCALE: 1/8" = 1'-0"

U OF U BLDG. 303 SEISMIC UPGRADE - #22649 - PHASE 5

SALT LAKE CITY UTAH

PERMIT SET - 3-5-2024

ADDENDUM #1
3-22-2024



DATE	REVISION
20 3-20-24	Ph. 5 Add #1

PROJECT NUMBER 18136

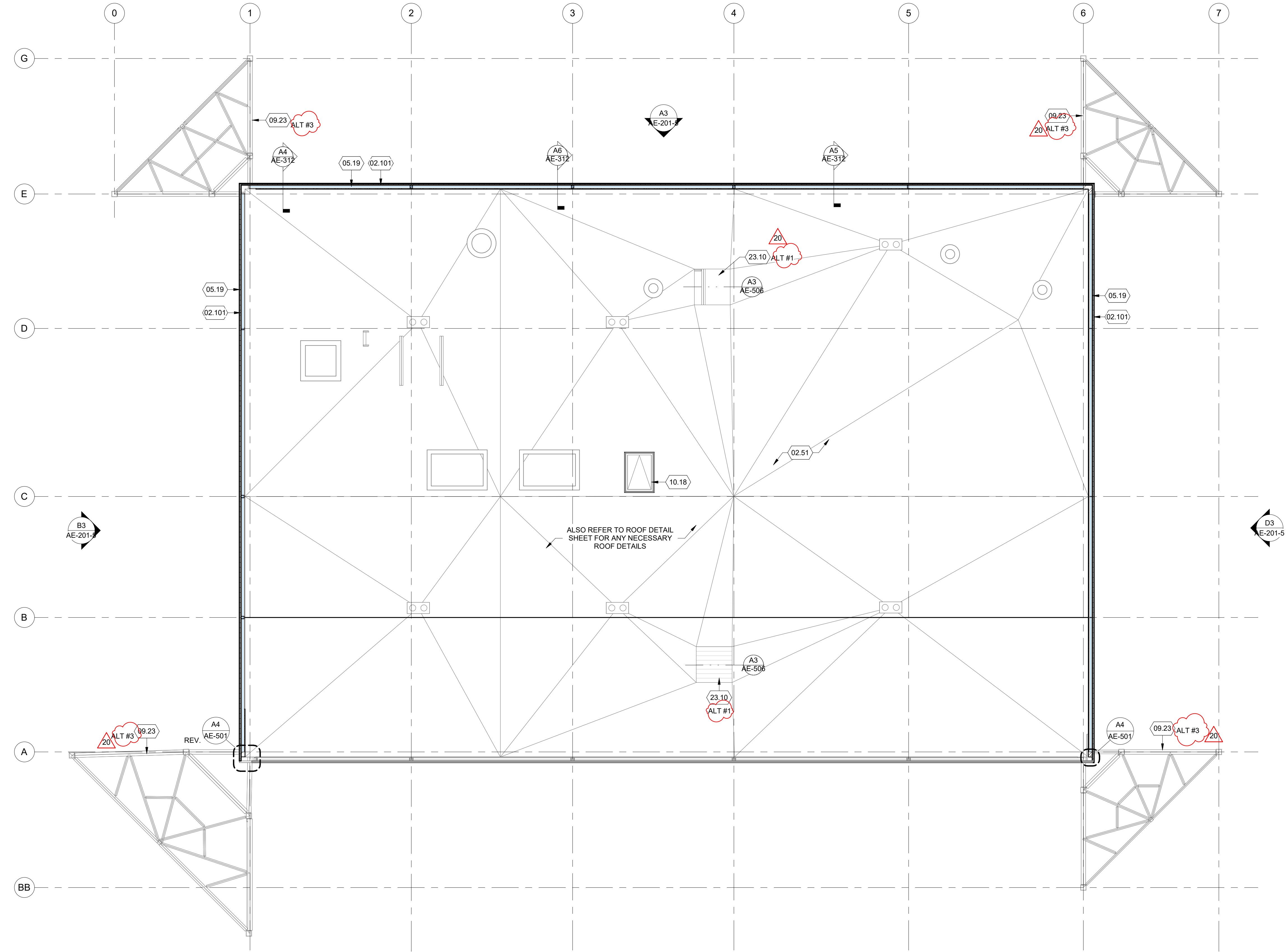
FAN LEVEL FLOOR PLAN PHASE 5

AE-103-5

3/22/2024 10:29:18 AM

REFERENCE NOTES

- 02.51 EXISTING ROOF SYSTEM, PROTECT
- 02.101 REINSTALLATION OF EXTG LIGHTNING PROTECTION, WATER TIGHT, MUST MEET CURRENT DFOM STANDARD
- 05.19 PREPAINTED METAL CAP/FLASHING, CAULK AS REQ'D
- 09.23 HIGH PERFORMANCE EXTERIOR PAINT, ALSO RE: GEN. NOTE #6
- 10.18 PREMANUFACTURED FALL PROTECTION WITH SELF-CLOSING GATE, ATTACHED TO SIDES OF THE ROOF HATCH CURB
- 23.10 ROOF TOP EXHAUST FAN, RE. MECH DWG.



A1 ROOF PLAN (EL. VARIES) PHASE 5
 SCALE: 1/8" = 1'-0"

PHASE 5 ALTERNATES

1. ROOF TOP EXHAUST FANS TO INCLUDE: FANS, INSTALLATION, WIRING TO THE PANEL.
2. FIRE SUPPRESSION AND FIRE ALARM.
3. HIGH PERFORMANCE PAINT AT ALL EXTERIOR BUTTRESSES.

GENERAL NOTES

1. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
2. BRACE EXISTING MEP CONDUITS, PIPES, ETC., AS REQ'D DURING DEMOLITION, REATTACH TO THE NEW STRUCTURAL FRAME, NOT INSULATED METAL PANEL.
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U OF U BLDG. 303 SEISMIC UPGRADE - #22649 - PHASE 5

SALT LAKE CITY UTAH

ADDENDUM #1
3-22-2024

PERMIT SET - 3-5-2024



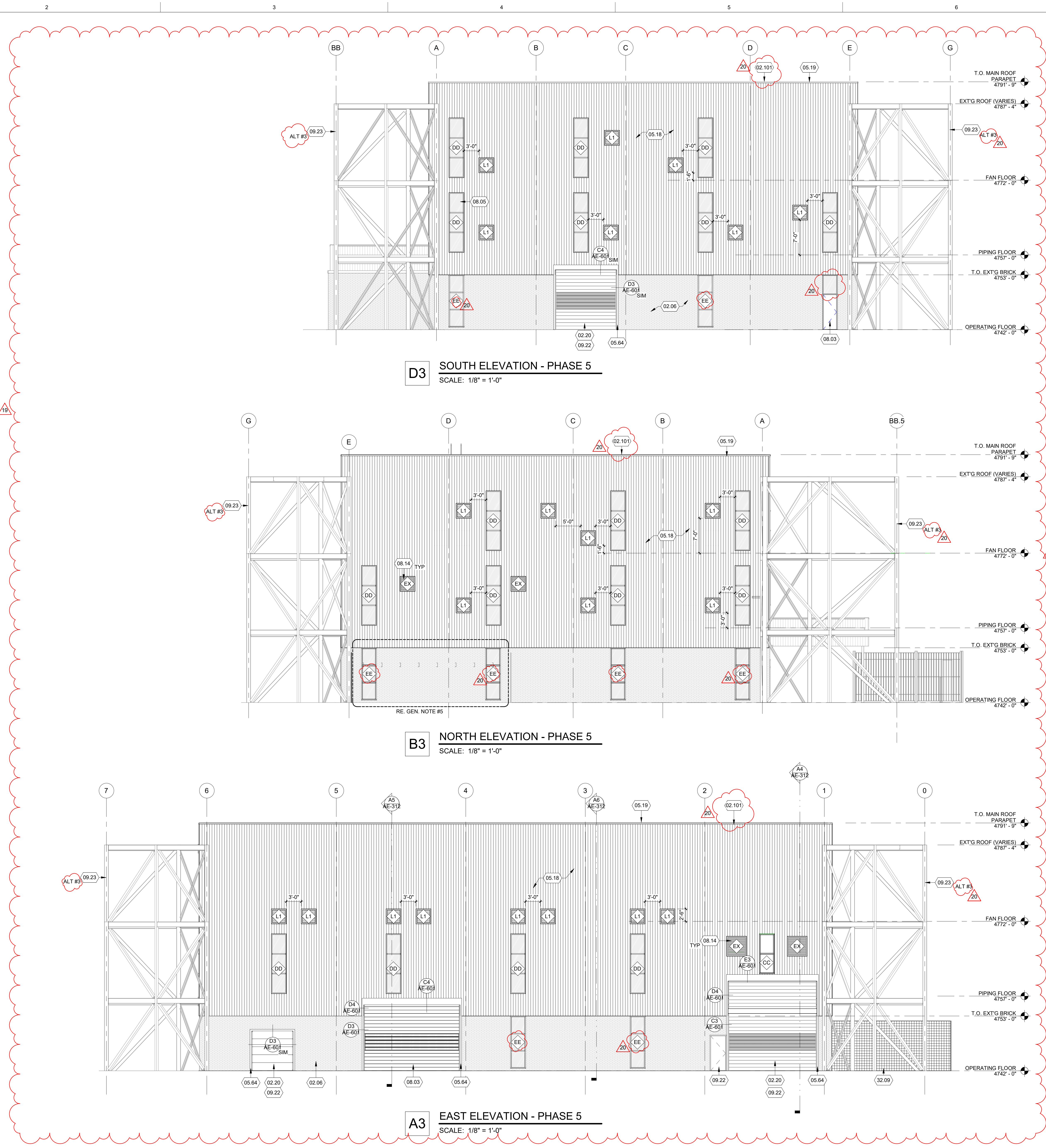
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 REVISION: Ph. 5 Add #1

PROJECT NUMBER 18136

ROOF PLAN PHASE 5

AE-104-5

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D3 SOUTH ELEVATION - PHASE 5
SCALE: 1/8" = 1'-0"

B3 NORTH ELEVATION - PHASE 5
SCALE: 1/8" = 1'-0"

A3 EAST ELEVATION - PHASE 5
SCALE: 1/8" = 1'-0"

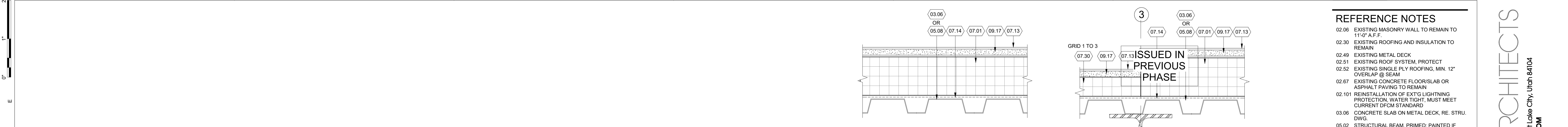
- REFERENCE NOTES**
- 02.06 EXISTING MASONRY WALL TO REMAIN TO 11'-0" A.F.F.
 - 02.20 EXISTING DOOR TO REMAIN
 - 02.101 REINSTALLATION OF EXT'G LIGHTNING PROTECTION WATER TIGHT. MUST MEET CURRENT DFCM STANDARD
 - 05.18 3" INSULATED METAL PANEL (R25) TO SPAN VERTICALLY. ATTACH TO STEEL FRAME OR METAL STUDS. ALSO RE-STRU. DWG.
 - 05.19 PAINTED HSS FRAME W/ END CAPS, REFER TO AE-601 DETAILS
 - 05.64 PAINTED HSS FRAME W/ END CAPS, REFER TO AE-601 DETAILS
 - 08.03 DOOR. RE DOOR SCHEDULE
 - 08.05 WINDOW. RE WINDOW SCHEDULE
 - 08.14 REFRESH TO MATCH ADJ. NEW LOUVERS, ADD STEEL SUPPORT AS REQ'D
 - 09.22 PREP & PAINT TO MATCH NEW DOORS, SERVICE & LUBE ALL MECHANICAL COMPONENTS
 - 09.23 HIGH PERFORMANCE EXTERIOR PAINT, ALSO RE GEN. NOTE #6
 - 32.09 10' TALL GALVANIZED CHAIN LINK FENCE TO MATCH EXISTING. ATTACHED TO EXISTING CORNER POST AND TERMINATE AT THE BUILDING EXTERIOR WALL. PROVIDE A STEEL CHANNEL AT TOP OF FENCE POST, MATCH EXISTING

- PHASE 5 ALTERNATES**
1. ROOF TOP EXHAUST FANS TO INCLUDE: FANS, INSTALLATION, WIRING TO THE PANEL.
 2. FIRE SUPPRESSION AND FIRE ALARM.
 3. HIGH PERFORMANCE PAINT AT ALL EXTERIOR BUTTRESSES.

- GENERAL NOTES**
1. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION
 2. BRACE EXISTING MEP CONDUITS, PIPES, ETC. AS REQ'D DURING DEMOLITION, REATTACH TO THE NEW STRUCTURAL FRAME, NOT INSULATED METAL PANEL
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DATE	REVISION
17 11-15-23	Ph. 5, BR-#1 PR #2
18 12-6-23	Ph. 5 PR #2-R1
19 2-14-24	Ph. 5 PR #2-R2
20 3-20-24	Ph. 5 Add #1



- ### REFERENCE NOTES
- 02.06 EXISTING MASONRY WALL TO REMAIN TO 11'-0" A.F.F.
 - 02.30 EXISTING ROOFING AND INSULATION TO REMAIN
 - 02.49 EXISTING METAL DECK
 - 02.51 EXISTING ROOF SYSTEM, PROTECT
 - 02.52 EXISTING SINGLE PLY ROOFING, MIN. 12" OVERLAP @ SEAM
 - 02.67 EXISTING CONCRETE FLOOR/SLAB OR ASPHALT PAVING TO REMAIN
 - 02.101 REINSTALLATION OF EXTSG LIGHTNING PROTECTION, WATER TIGHT, MUST MEET CURRENT DFCM STANDARD
 - 03.06 CONCRETE SLAB ON METAL DECK, RE. STRU. DWG.
 - 05.02 STRUCTURAL BEAM, PRIMED, PAINTED IF EXPOSED
 - 05.06 3/8" METAL STUD
 - 05.07 6" METAL STUD
 - 05.08 METAL ROOF DECKING, PAINTED IF EXPOSED
 - 05.09 STEEL TUBE, PRIMED & PAINTED
 - 05.11 PAINTED STEEL FRAME, RE. STRU. DWG.
 - 05.12 NEW STAIR, PAINTED
 - 05.18 3" INSULATED METAL PANEL (R25) TO SPAN VERTICALLY, ATTACH TO STEEL FRAME OR METAL STUDS, ALSO RE. STRU. DWG.
 - 05.19 PREPAINTED METAL CAPFLASHING, CAULK AS REQ'D
 - 05.35 42" HIGH GUARD RAIL WITH A MID RAIL AND 4" BASE, MATCH EXISTING, PAINTED
 - 05.37 GALVANIZED RIGLET, FLASHING, ETC., CAULK, TYP.
 - 05.38 PAINTED METAL PANEL CLOSURE TRIM, COLOR TO MATCH, TYP AT ALL CONNECTION POINTS
 - 05.43 POWDER COATED ALUMINUM TRIM
 - 05.44 14 GA DIAMOND PLATE
 - 05.45 GALVANIZED Z GIRTY, SIZE GA AND SPACING AS PER METAL PANEL MANUFACTURER'S REQUIREMENT
 - 06.04 EXTRUDED ALUMINUM COUNTER FLASHING, CONTINUOUS
 - 06.04 WOOD BLOCKING
 - 07.01 RIGID ROOF INSULATION, MIN. R 32, THICKNESS VARIES
 - 07.13 SINGLE PLY ROOFING, MIN. 6" OVERLAP AT JOINTS
 - 07.14 VAPOR RETARDER, TO SPAN CONTINUOUSLY BELOW NEW CONCRETE SLAB ON GRADE, ABOVE METAL ROOF DECK, AND ON THE INSIDE OF METAL STUD WALL, TAPE AT ALL EXPOSED JOINTS
 - 07.18 METAL FLASHING WITH DRIP EDGE
 - 07.19 SINGLE PLY ROOFING MEMBRANE TO WRAP OVER CURB WALL
 - 07.20 1/2" EXTERIOR GLASS MAT SHEATHING
 - 07.29 BATT INSULATION, MIN. R3 PER 1 INCH
 - 07.30 RIGID ROOF INSULATION, 1/4" PER FOOT SLOPE
 - 07.31 FLUID APPLIED AIR BARRIER
 - 07.32 SPRAY FOAM INSULATION
 - 07.33 ROOF ASSEMBLY, RE. TYP. ROOF DETAIL E4/AE-506
 - 07.38 FULLY WELDED SINGLY PLY ROOFING TAPE, MIN. 6" WIDE
 - 09.17 5/8" COVER BOARD
 - 23.09 PREMANUFACTURED MECHANICAL CURB, VERIFY THICKNESS WITH SUBMITTAL
 - 23.10 ROOF TOP EXHAUST FAN, RE. MECH DWG.

- ### BUILDING ENVELOPE NOTES
1. VAPOR RETARDER, TO SPAN CONTINUOUSLY BELOW NEW CONCRETE SLAB ON GRADE, ABOVE METAL ROOF DECK, AND ON THE INSIDE OF METAL STUD WALL, TAPE AT ALL EXPOSED JOINTS.
 2. FLUID APPLIED AIR BARRIER TO BE APPLIED ON ALL SOLID VERTICAL WALL SUBSTRATES.
 3. VAPOR BARRIER TO BE APPLIED ON WALLS WHERE THERE IS NOT A SOLID SUBSTRATE; CONTINUOUS, TAPE AT ALL JOINTS.

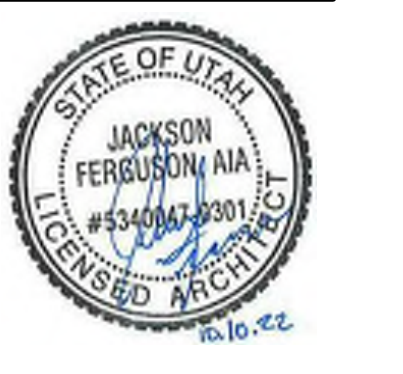
- ### PHASE 4 NOTES
1. NO FURRING NOR TILE BEHIND THE LOWER MILLWORK AT THE EXISTING WALL @ WARMING KITCHEN
 2. NOT ALL SECTIONS NOR DETAILS ARE APPLIED TO THIS PHASE, CERTAIN INFORMATION WERE ISSUED PREVIOUSLY

- ### PHASE 5 NOTES
1. NOT ALL SECTIONS NOR DETAILS ARE APPLIED TO THIS PHASE, CERTAIN INFORMATION WERE ISSUED PREVIOUSLY.
 2. ALL ROOFING RELATED COMPONENTS MUST CONFORM TO DFCM DESIGN STANDARD, RE. SPEC.

- ### PHASE 5 ALTERNATES
1. ROOF TOP EXHAUST FANS TO INCLUDE: FANS, INSTALLATION, WIRING TO THE PANEL.
 2. FIRE SUPPRESSION AND FIRE ALARM.
 3. HIGH PERFORMANCE PAINT AT ALL EXTERIOR BUTTRESSES.

- ### GENERAL NOTES
1. SHORE ALL ROOF TOP EQUIPMENT, PIPES, ETC., AS REQUIRED.
 2. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
 3. TAPERED INSULATION IS REQUIRED AT THE ROOF LEVEL TO ACHIEVE SLOPES INDICATED ON ROOF PLAN.
 - 4.

- ### DATUM NOTES
1. THE ELEVATION MARKERS ON THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS ARE 3'-0" LOWER THAN THE SURVEY UNIVERSITY BENCHMARK, DO NOT USE THESE MARKERS OUTSIDE OF THE BUILDING ENVELOPE.
 2. THE CIVIL DRAWINGS ARE IN LINE WITH THE CURRENT UNIVERSITY BENCHMARK.



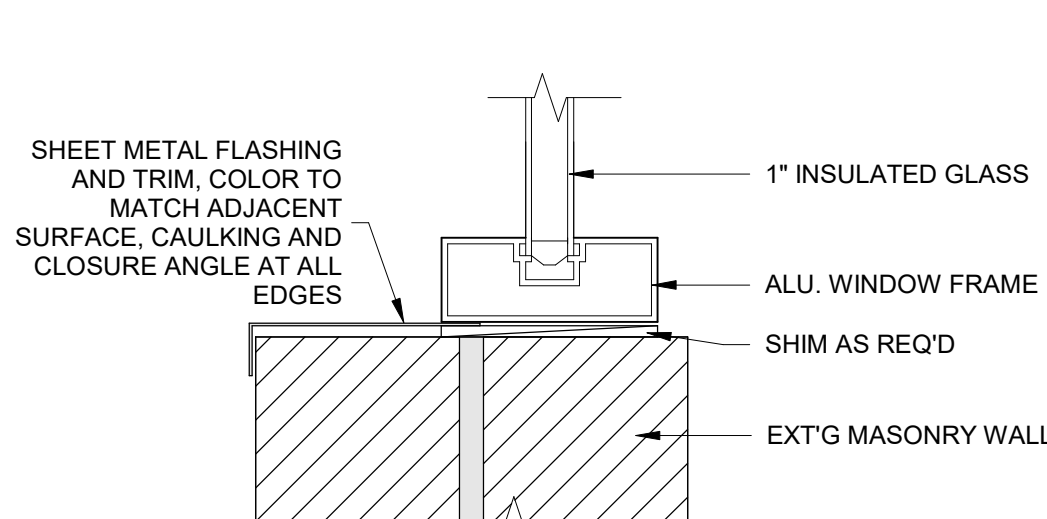
DATE	REVISION
18 12-6-23	Ph. 5 PR #2-R1
20 3-20-24	Ph. 5 Add #1

PROJECT NUMBER 18136

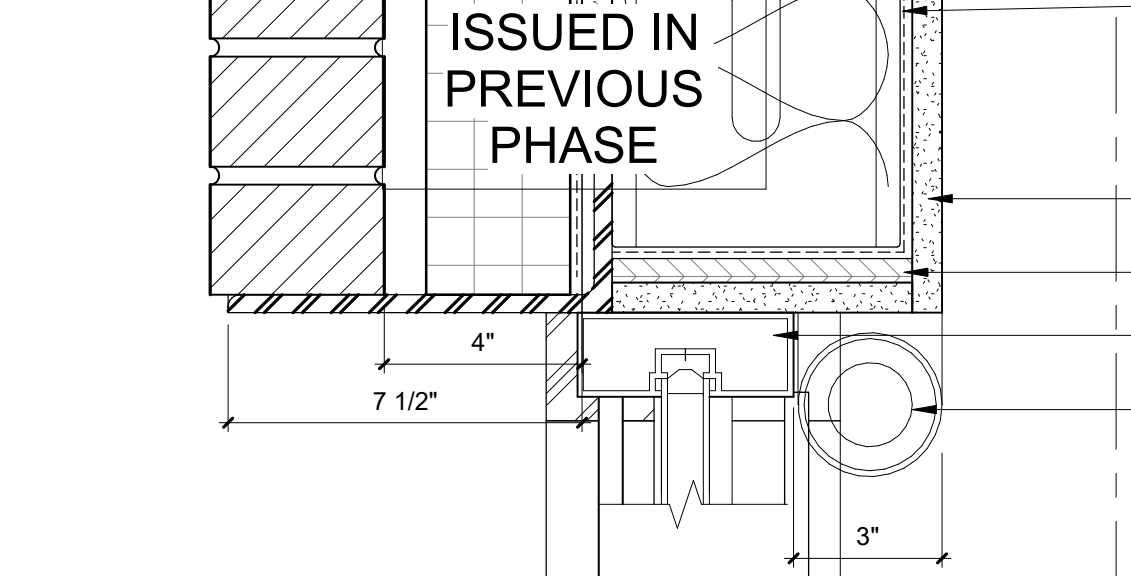
ROOF DETAILS

AE-506

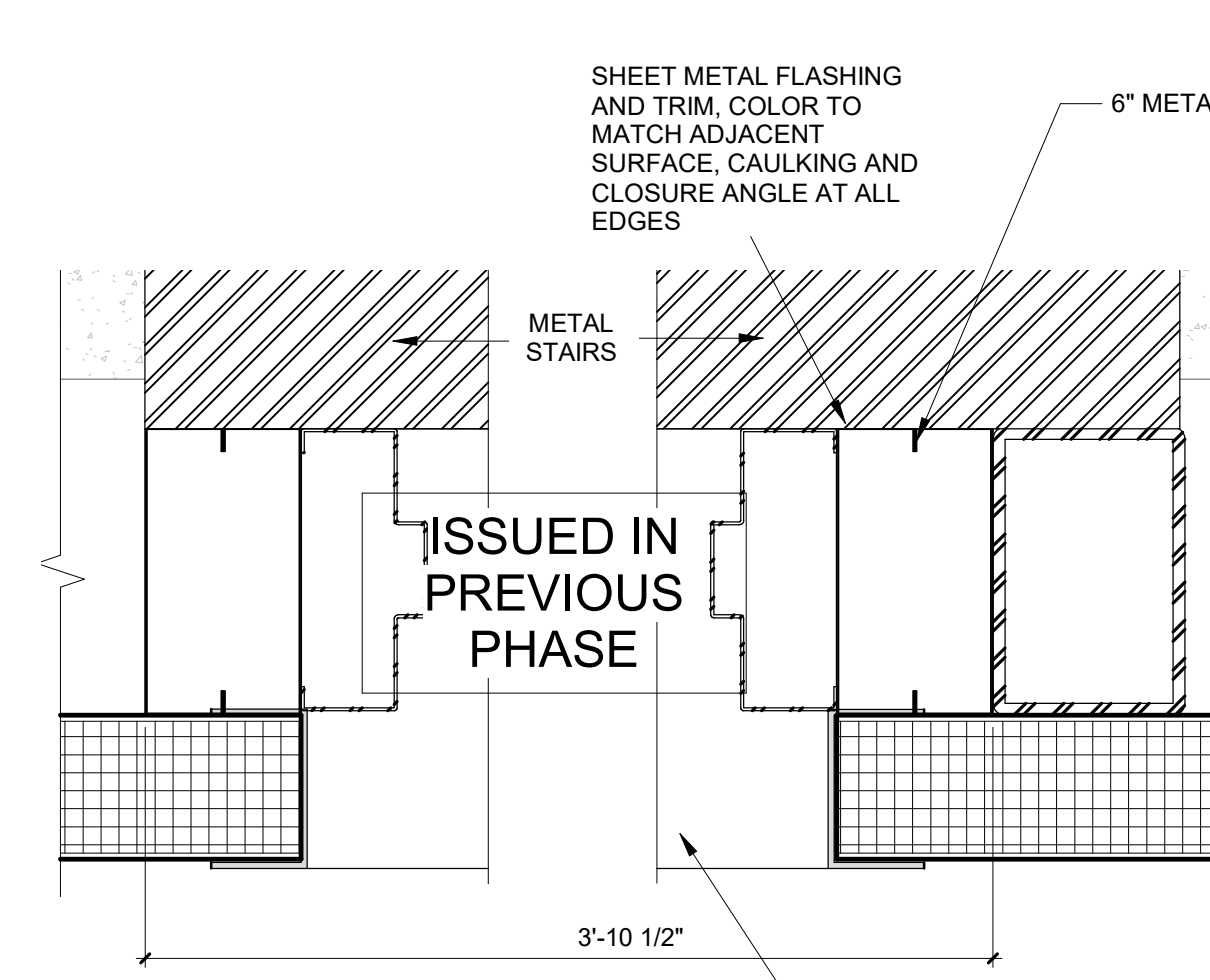
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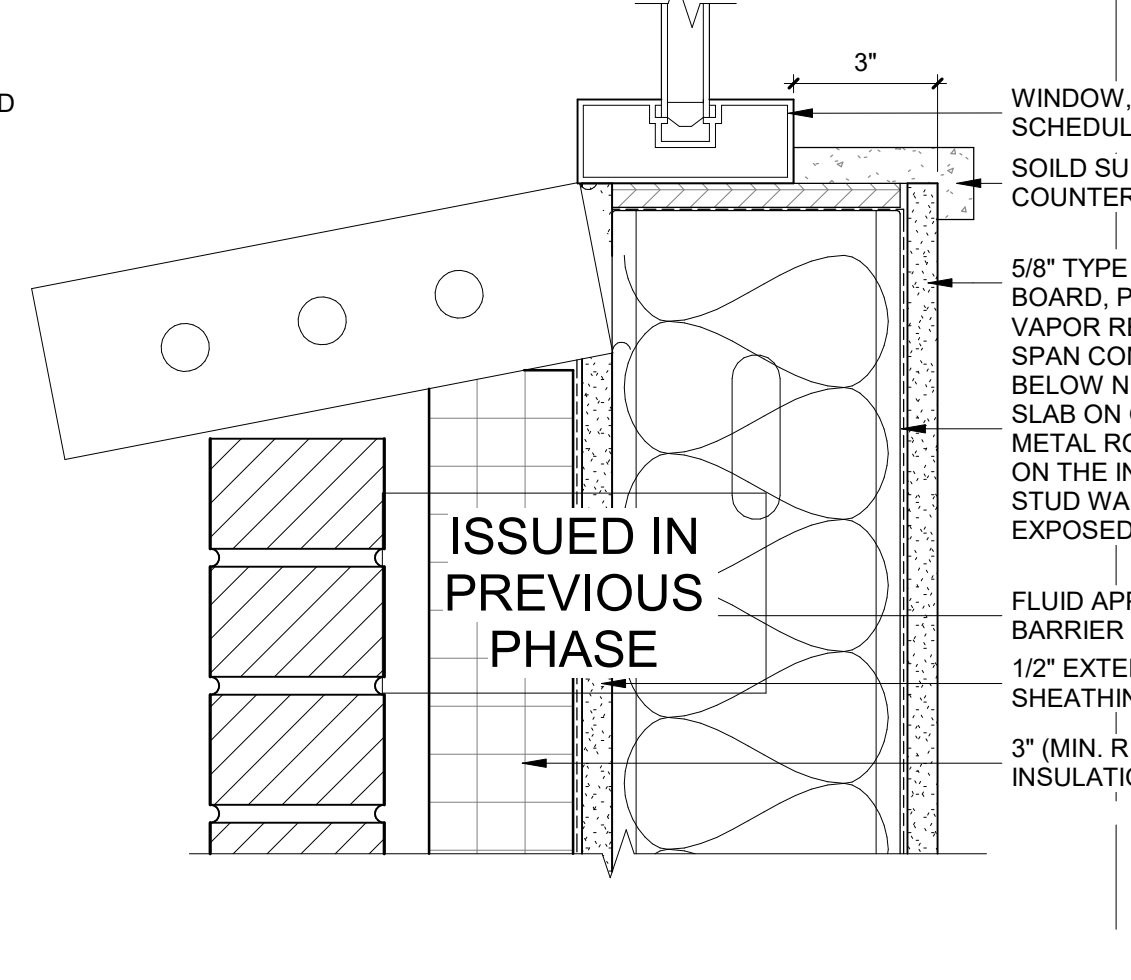
E1 ALU. SILL DETAIL
SCALE: 3" = 1'-0"



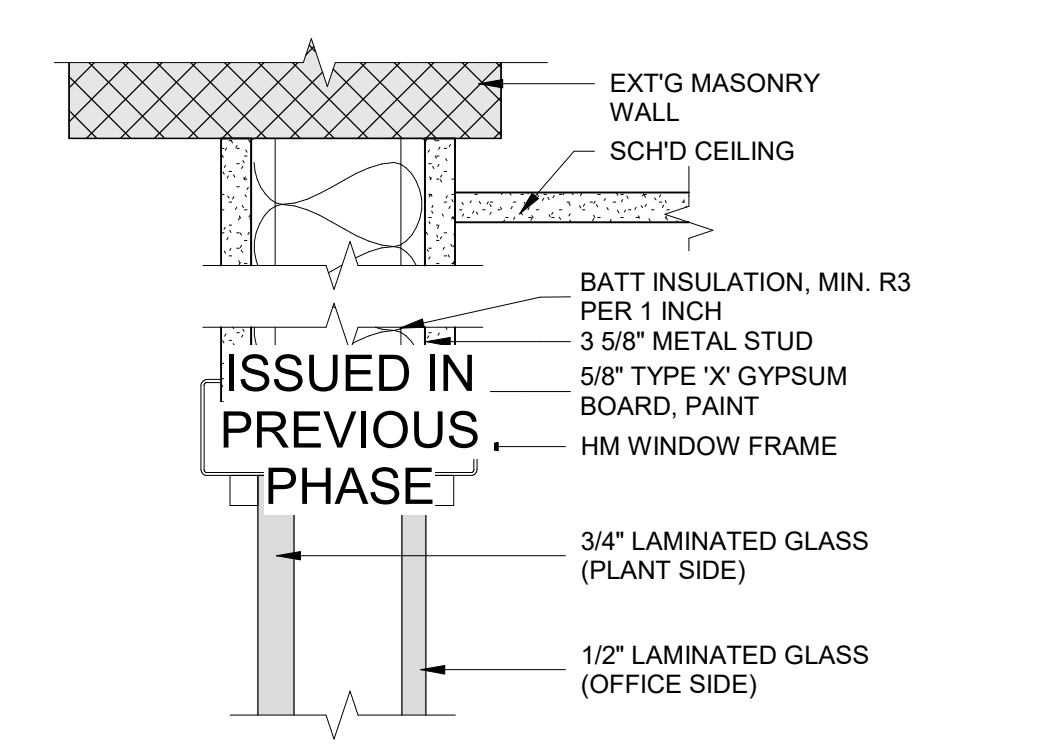
E2 ALU. HEAD DETAIL
SCALE: 3" = 1'-0"



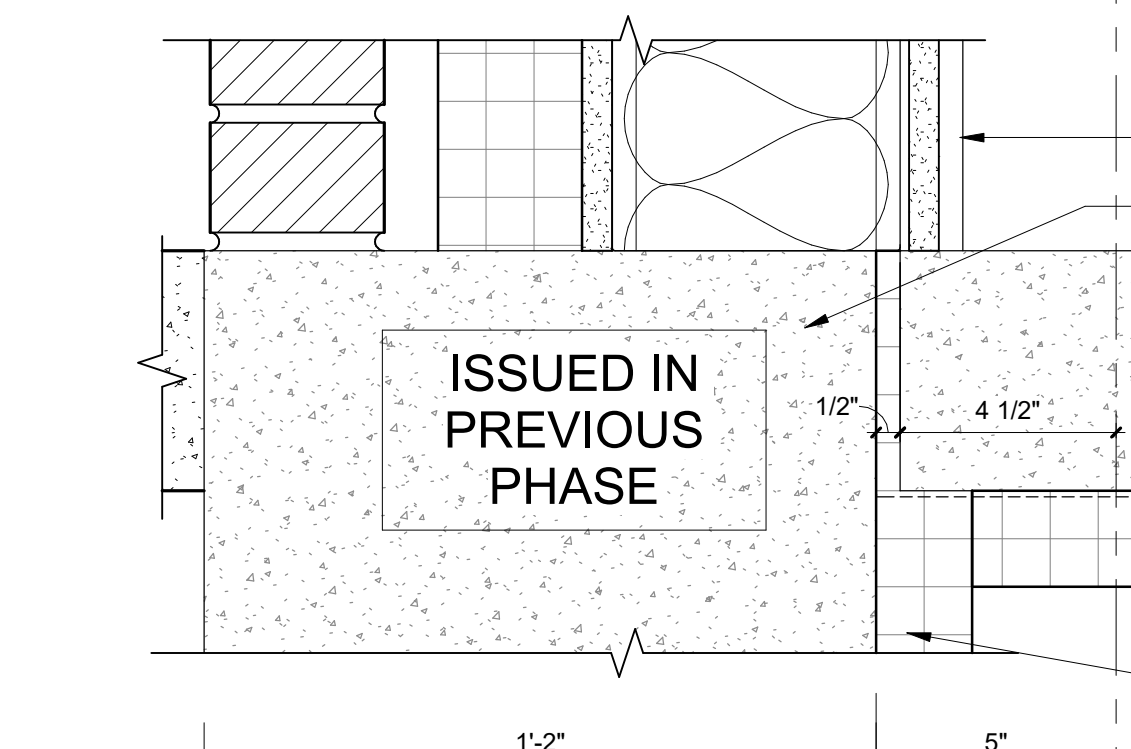
D1 ROOF DOOR JAMB DETAIL
SCALE: 3" = 1'-0"



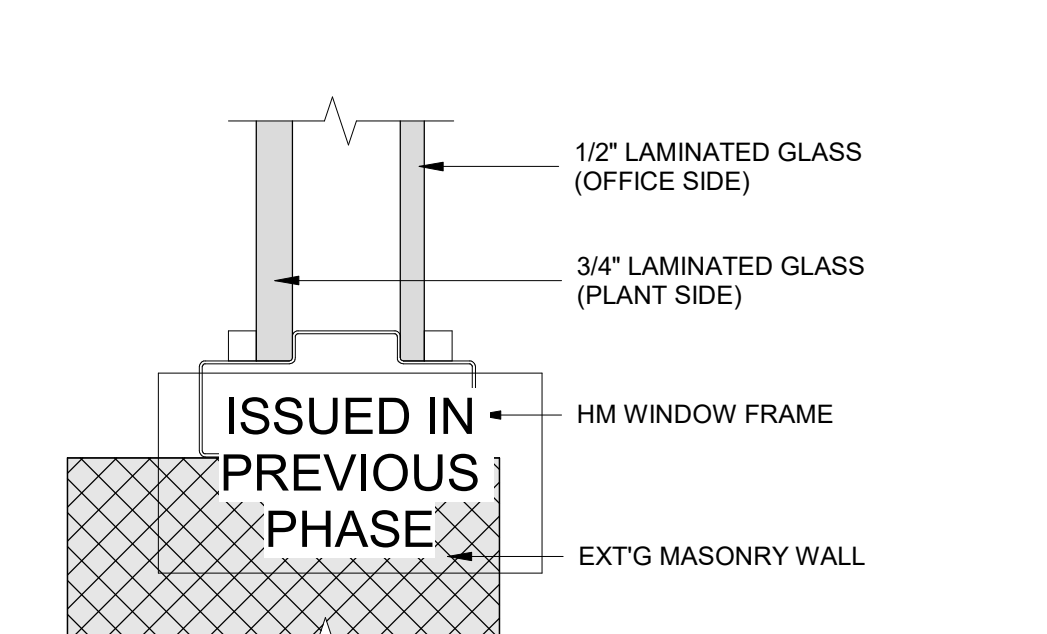
D2 ALU. SILL DETAIL
SCALE: 3" = 1'-0"



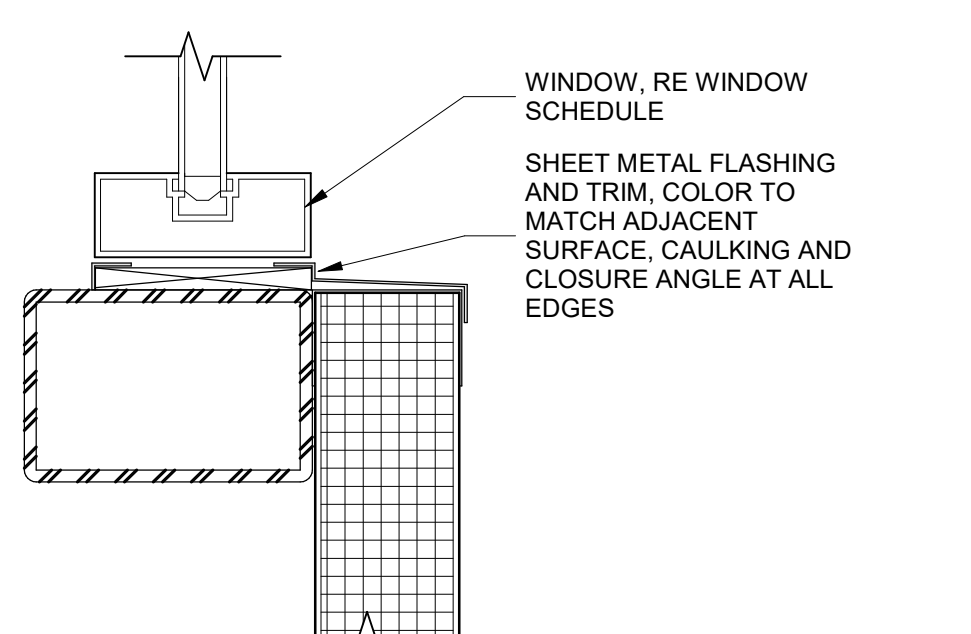
C1 SOUND GLASS DETAIL
SCALE: 3" = 1'-0"



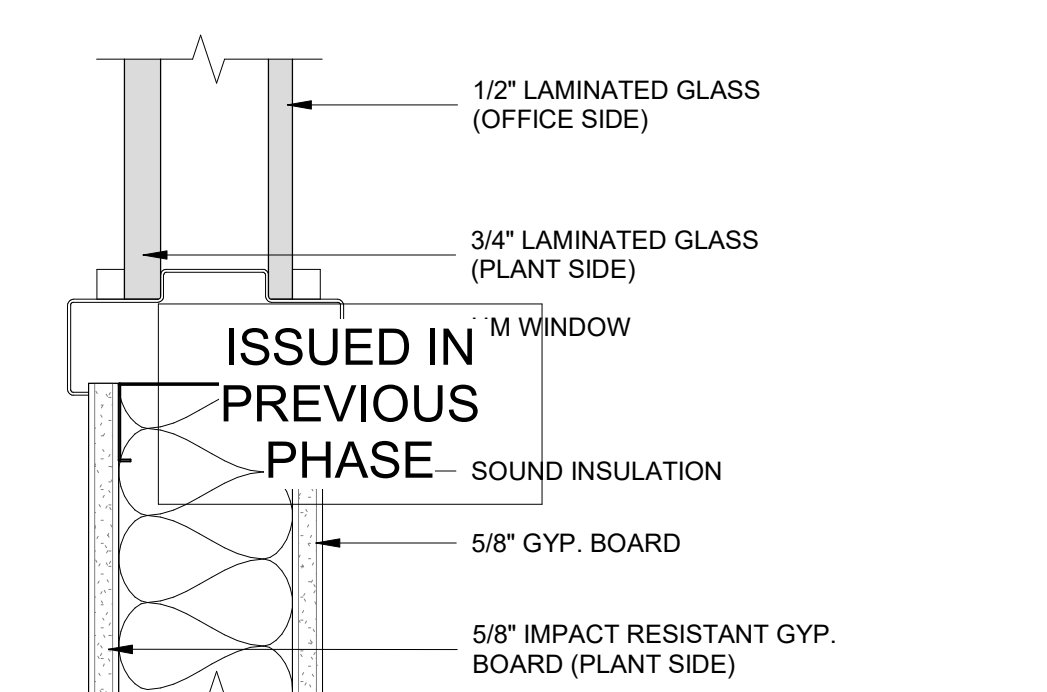
C2 SLAB EDGE DETAIL
SCALE: 3" = 1'-0"



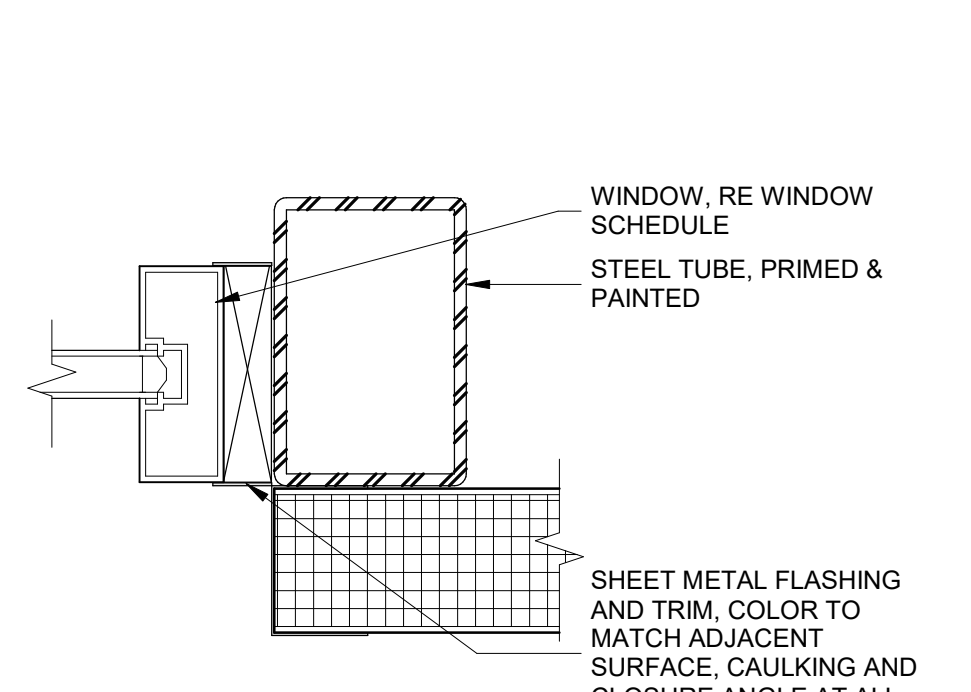
B1 SOUND GLASS DETAIL
SCALE: 3" = 1'-0"



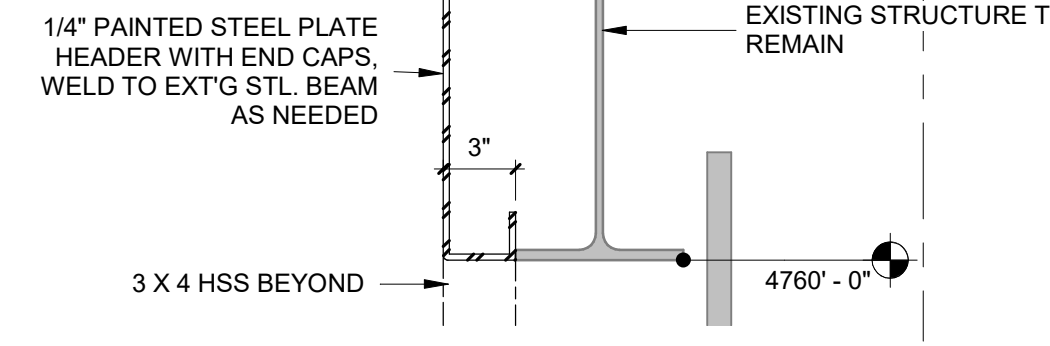
B2 TYP. ALU. SILL DETAIL
SCALE: 3" = 1'-0"



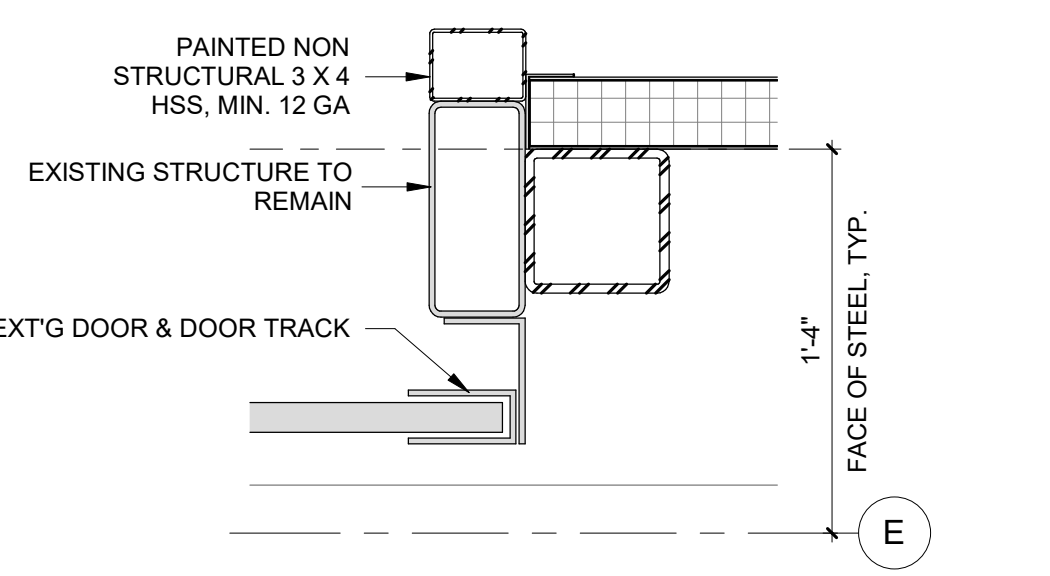
A1 SOUND GLASS DETAIL
SCALE: 3" = 1'-0"



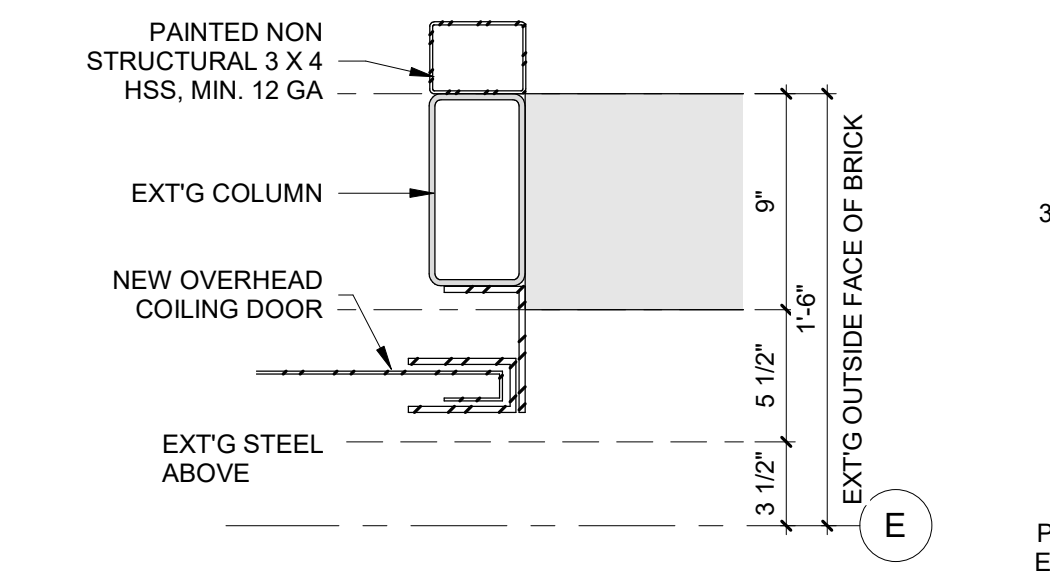
A2 TYP. ALU. HEAD/JAMB DETAIL
SCALE: 3" = 1'-0"



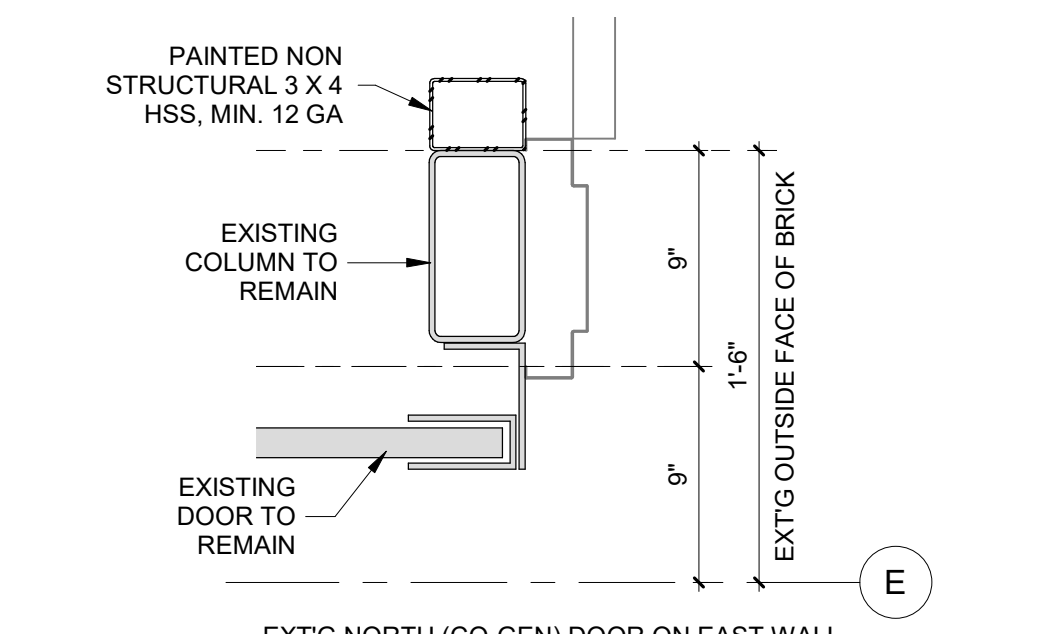
E3 EXT'G OVERHEAD DOOR HEADER
SCALE: 1 1/2" = 1'-0"



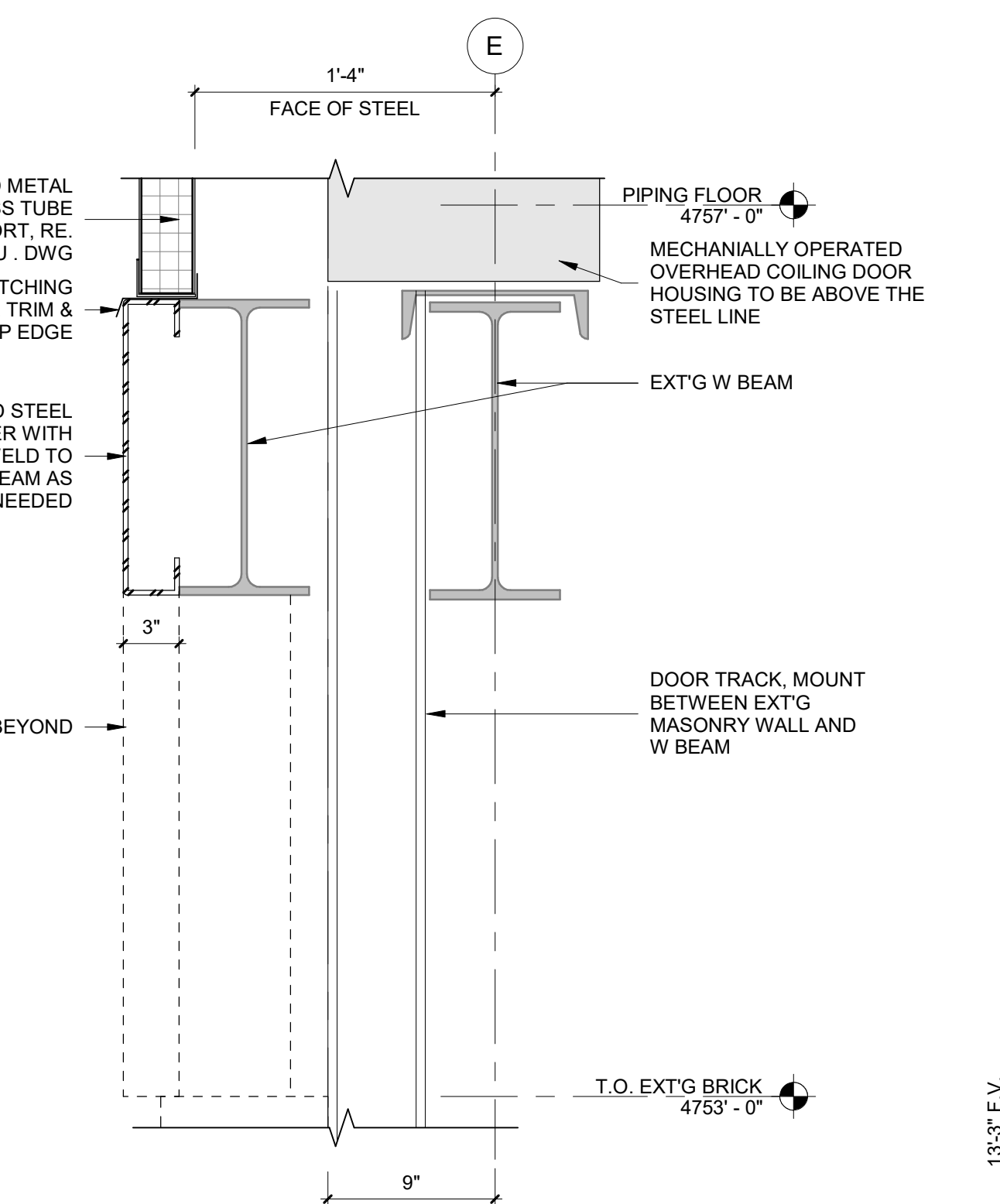
D4 DOOR JAMB @ PIPING LEVEL @ EXT'G OVERHEAD DOOR
SCALE: 1 1/2" = 1'-0"



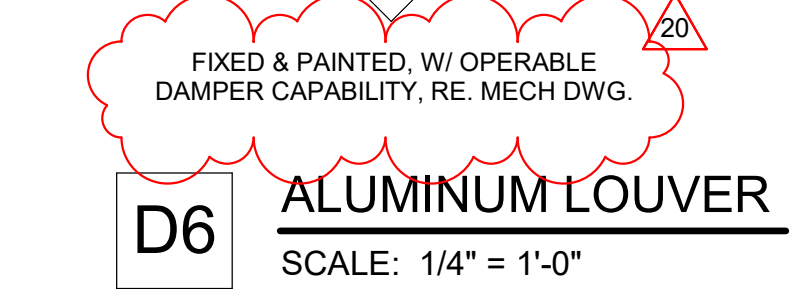
D3 NEW OVERHEAD DOOR TRACK @ OPERATION FLOOR
SCALE: 1 1/2" = 1'-0"



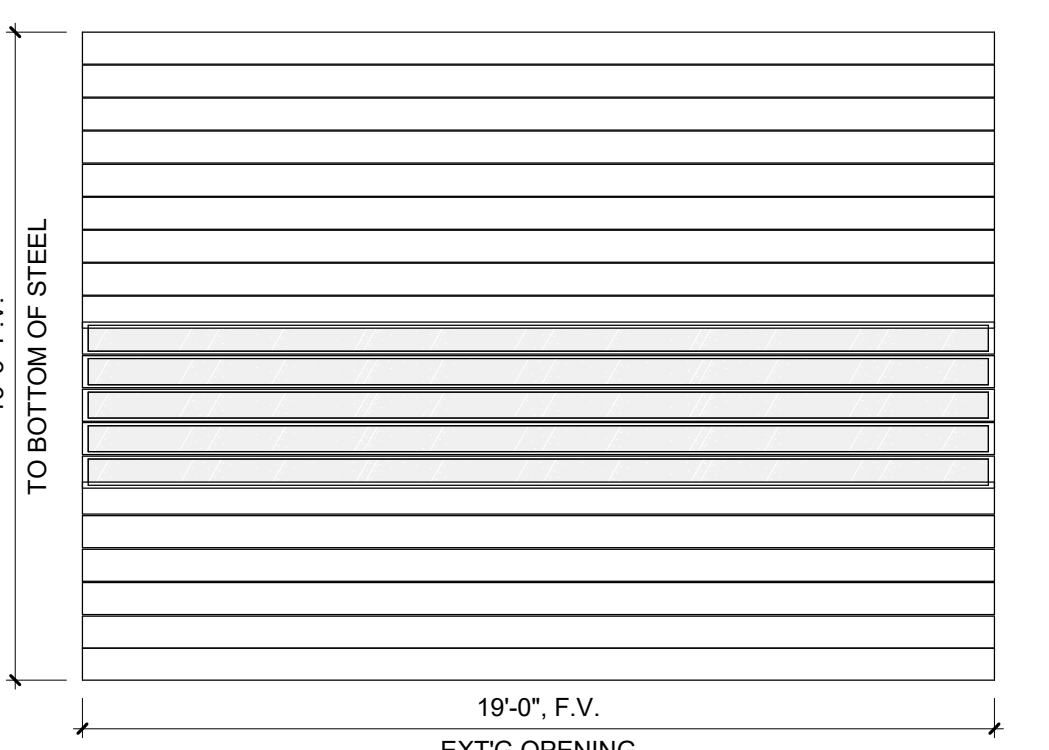
C3 EXT'G OVERHEAD DOOR TRACK @ OPERATION FLOOR
SCALE: 1 1/2" = 1'-0"



C4 NEW OVERHEAD DOOR HEADER
SCALE: 1 1/2" = 1'-0"



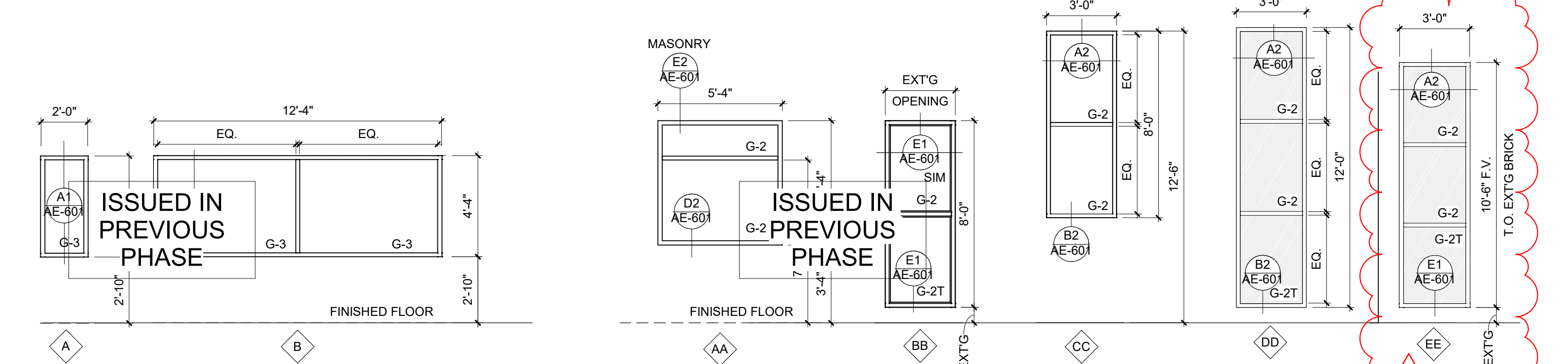
D6 ALUMINUM LOUVER
SCALE: 1/4" = 1'-0"



GLAZING SCHEDULE

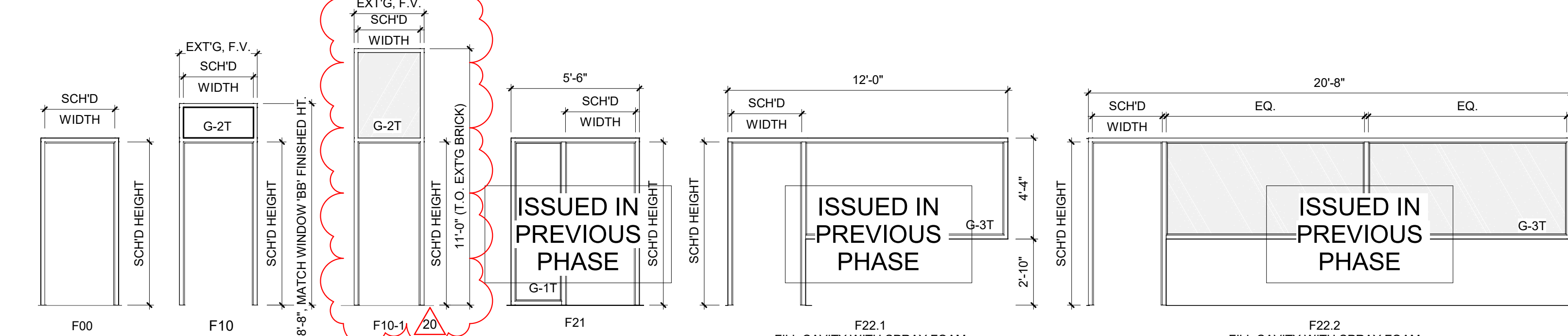
GLAZING TYPE	DESCRIPTION
G-1	FLOAT GLASS
G-1T	FLOAT GLASS - TEMPERED
G-2	INSULATED GLASS U-VALUE 0.22, SHGC 0.39
G-2T	INSULATED GLASS - TEMPERED U-VALUE 0.22, SHGC 0.39
G-3	LAMINATED SOUND GLASS
G-3T	LAMINATED SOUND GLASS - TEMPERED

ALL INSULATED GLASS TO BE SOLARBAN 60 W/ A U-FACTOR OF 0.22 AND SHGC 0.39 OR BETTER

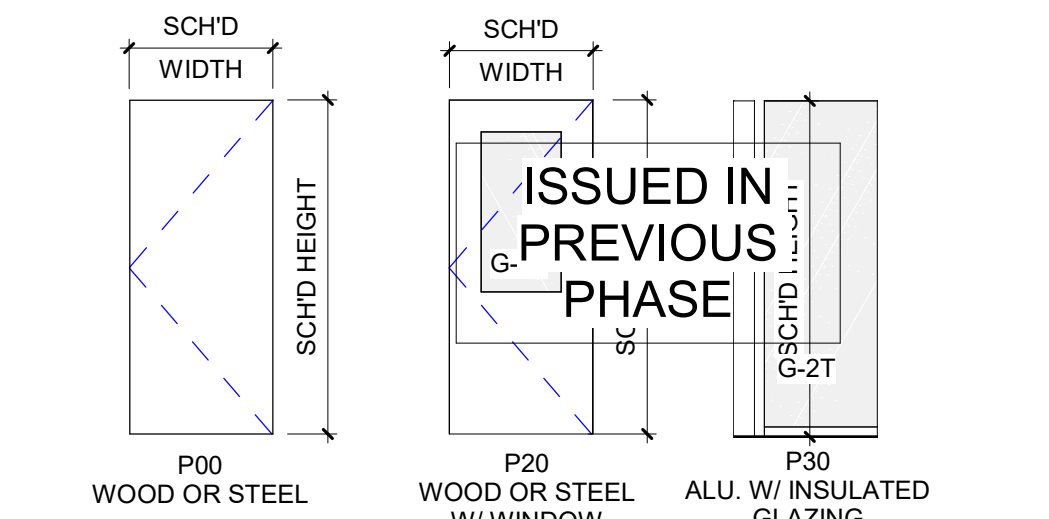


B3 INTERIOR WINDOW TYPES (HOLLOW METAL)
SCALE: 1/4" = 1'-0"

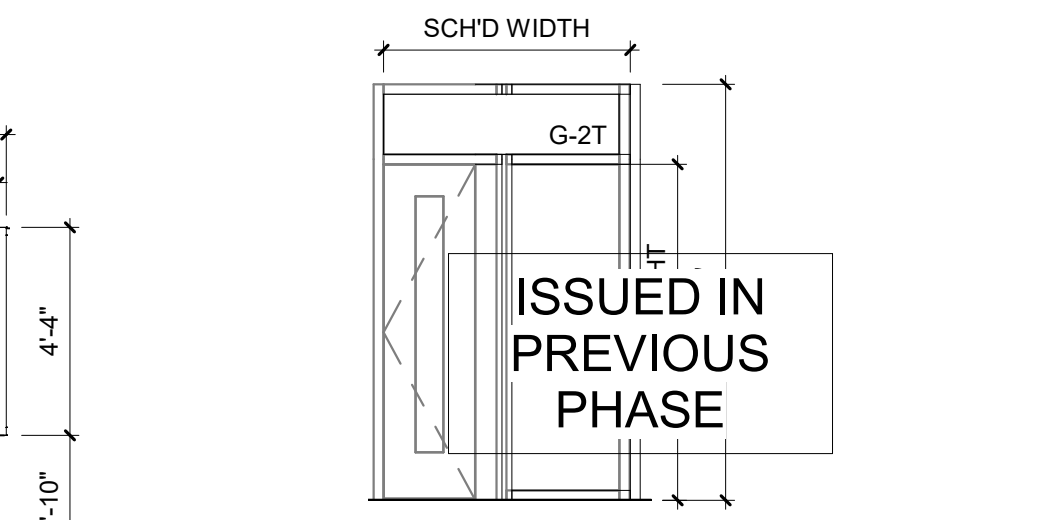
B4 EXTERIOR WINDOW TYPES (FIXED ALUMINUM)
SCALE: 1/4" = 1'-0"



A3 HOLLOW METAL DOOR FRAMES
SCALE: 1/4" = 1'-0"



B6 DOOR PANELS
SCALE: 1/4" = 1'-0"



A5 ALUMINIUM DOOR FRAME
SCALE: 1/4" = 1'-0"

PREVIOUSLY ISSUED WITH PHASE 3

DOOR AND FRAME SCHEDULE-PHASE 3

DOOR NUMBER	SIZE	DOOR	FRAME	FIRE RATING (MINUTES)	HARDWARE GROUP	NOTES*
OPERATING FLOOR						
109A	18'-0" x 7'-0"	P20	AL1	0		ISSUED IN PREVIOUS PHASE
110	3'-0" x 7'-0"	P01	F00	0		INSULATED SLAB WITH SOUND PROOF GLAZING
110A	3'-0" x 7'-0"	P20	F00	0		INSULATED SLAB WITH SOUND PROOF GLAZING
112	3'-0" x 7'-0"	P20	F00	0		INSULATED SLAB WITH SOUND PROOF GLAZING
112A	3'-0" x 7'-0"	P20	F22.1A	0		INSULATED SLAB WITH SOUND PROOF GLAZING
153	3'-0" x 7'-0"	P01	F00	0		INSULATED SLAB WITH SOUND PROOF GLAZING

DOOR AND FRAME SCHEDULE-PHASE 4

DOOR NUMBER	SIZE	DOOR	FRAME	FIRE RATING (MINUTES)	HARDWARE GROUP	NOTES*
OPERATING FLOOR						
100	6'19/32" x 7'-0"	P30	AL1	0		
100A	2'-0" x 7'-0"	P30	AL1	0		
101	5'11/4" x 7'-0"	P30	AL1	0		
101A	2'-0" x 7'-0"	P30	AL1	0		
102	3'-0" x 7'-0"	P20	F00	0		USE DOOR 109A FROM PH. 3 PR. #5
103	3'-0" x 7'-0"	P20	F21	0		USE DOOR 109A FROM PH. 3 PR. #5
105	3'-0" x 7'-0"	P00	F10	0		PROVIDE HARDWARE SIMILAR TO EXISTING DOOR
106	3'-0" x 7'-0"	P20	F21	0		
114	3'-0" x 7'-0"	P00	F00	0		
115	2'-8" x 7'-0"	P00	F00	0		
119	3'-0" x 7'-0"	P00	F00	0		
PIPING FLOOR						
201	13'-0" x 7'-0"	P00	F00	0		

DOOR AND FRAME SCHEDULE-PHASE 5

DOOR NUMBER	SIZE	DOOR	FRAME	FIRE RATING (MINUTES)	HARDWARE GROUP	NOTES*
OPERATING FLOOR						
116	2'-8" x 13'-3"	P00	F10-1	0		EXISTING OPENING, F.V. DIMENSION, HARDWARE SET TO MATCH EXISTING
118	19'-0" x 13'-3"	P68.0001	F65	0		EXT'G OPENING

DATUM NOTES

- THE ELEVATION MARKERS ON THE ARCH. STRUCT. MECH. ELEC. AND PLUMB. DRAWINGS ARE 3'-0" LOWER THAN THE SURVEY (UNIV. BENCHMARK). DO NOT USE THESE MARKERS OUTSIDE OF THE BUILDING ENVELOPE.
- THE CIVIL DRAWINGS ARE IN LINE WITH THE CURRENT UNIV. BENCHMARK.

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FAN SCHEDULE

TAG	SERVICE	TYPE	CFM	ESP	BHP	FAN RPM	DRIVE	MOTOR CONTROLLER	DAMPER		ELECTRICAL		WEIGHT LBS	MANUFACTURER & MODEL	NOTES
									TYPE	APD	HP	VPH			
EF-1	CIRCULATION	DOWNBLAST ROOF VENTILATOR	38000	0.25	9.9	453	BELT	STARTER/CONTACTOR			10	460/3	555	GREENHECK GB-540	1, 2, 3, 4, 8
EF-2	CIRCULATION	DOWNBLAST ROOF VENTILATOR	38000	0.25	9.9	453	BELT	STARTER/CONTACTOR			10	460/3	555	GREENHECK GB-540	1, 2, 3, 4, 8

GENERAL NOTES:

A. PERFORMANCE IS AT SITE CONDITIONS
 B. DAMPER APD IS MAX ALLOWED AND IS INCLUDED WITH ESP
 C. EQUIPMENT WITH 208V NAMEPLATES SHALL HAVE MOTORS SUITABLE FOR OPERATION AT 180 VOLTS OR PROVIDED WITH 200V TO 208V TRANSFORMERS
 D. FANS OTHER THAN ROOF VENTILATORS OVER 5 HP SHALL HAVE A FEG RATING OF 67 AND BE SELECTED WITHIN 15% OF PEAK EFFICIENCY

NOTES:

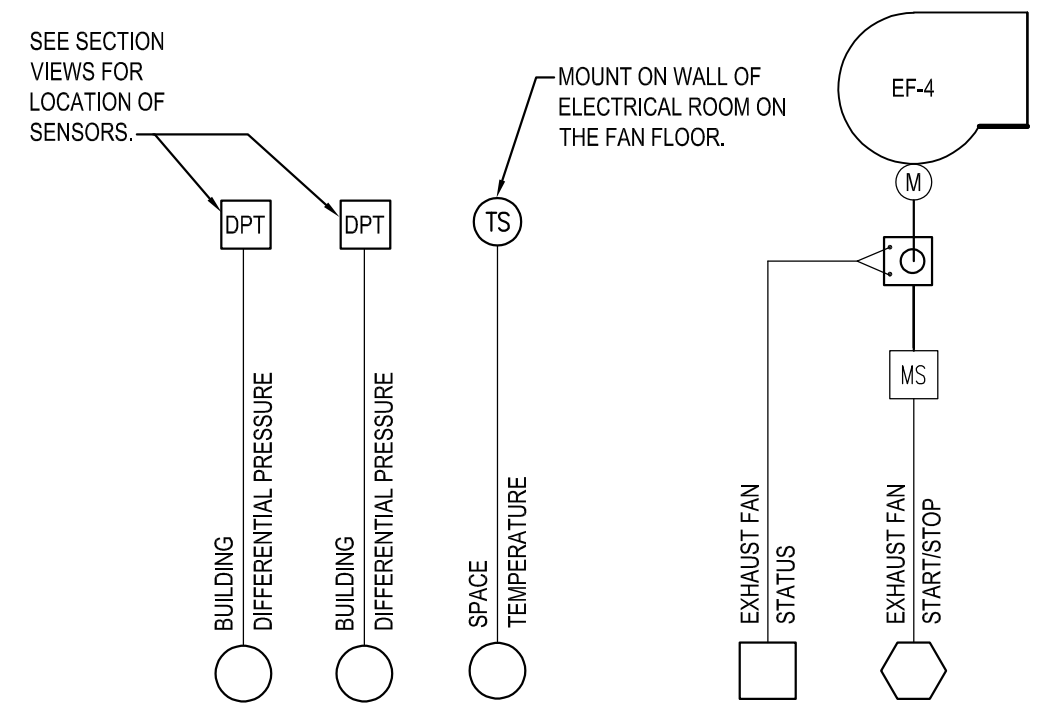
1. ROOF CURB
 2. INTEGRAL DISCONNECT
 3. GRAVITY BACKDRAFT DAMPER
 4. HINGED CURB BASE
 5. SCROLL DRAIN
 6. SCROLL CLEANOUT
 7. AMCA SPARK AB/C
 8. BASE BID. INSTALL WITH WEATHER TIGHT CAP ALTERNATE #1
 INSTALL FAN AS SHOWN.

GRILLE/REGISTER/DIFFUSER SCHEDULE

TAG	PURPOSE	TYPE	MOUNTING	SIZE	NC MAX	ACCESSORIES	MANUFACTURER & MODEL	NOTES
D	SUPPLY DIFFUSER	DUCT	WALL	8 X 8	40	CEB	PRICE \$10	

GENERAL NOTES:

A. ASSUMES 104B ROOM ABSORPTION



EXHAUST FAN EF-1, EF-2

SCALE: NONE
 NOTE: FANS AND CONTROLS ARE PART OF ALTERNATE #1.

EXHAUST FAN CONTROL SEQUENCE OF OPERATION:
 DESIGN INTENT: THE INTENT OF THESE FANS IS TO CONTROL TEMPERATURE BY EXHAUSTING HOT AIR FROM THE PLANT WITHOUT INTERFERING WITH COMBUSTION AIR FLOW TO THE BOILERS.

EXHAUST FAN CONTROL:

- EXHAUST FANS SHALL BE DE-ENERGIZED WHENEVER THE DIFFERENTIAL PRESSURE EXCEEDS (IS MORE NEGATIVE THAN) -0.2 INCHES OF WATER COLUMN AT EITHER OF THE TWO BUILDING DIFFERENTIAL PRESSURE SENSORS. THE MEASUREMENT SHALL BE MADE WITH AN AVERAGING ALGORITHM TO REDUCE THE IMPACTS OF WIND GUSTS ON THE READINGS.
- ANY TIME NEGATIVE BUILDING PRESSURE EXCEEDING -0.2 INCHES OF WATER COLUMN FOR MORE THAN 10 MINUTES INITIATE AN ALARM.
- WHEN NOT PROHIBITED BY DIFFERENTIAL PRESSURE THE FIRST EXHAUST FAN (EF-1) SHALL BE ENERGIZED AT 90F ON THE UPPER FLOOR AND THE SECOND EXHAUST SHALL BE ENERGIZED AT 95F.

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SALT LAKE CITY UTAH
PERMIT SET - 3-5-2024
ADDENDUM #1
3-22-2024

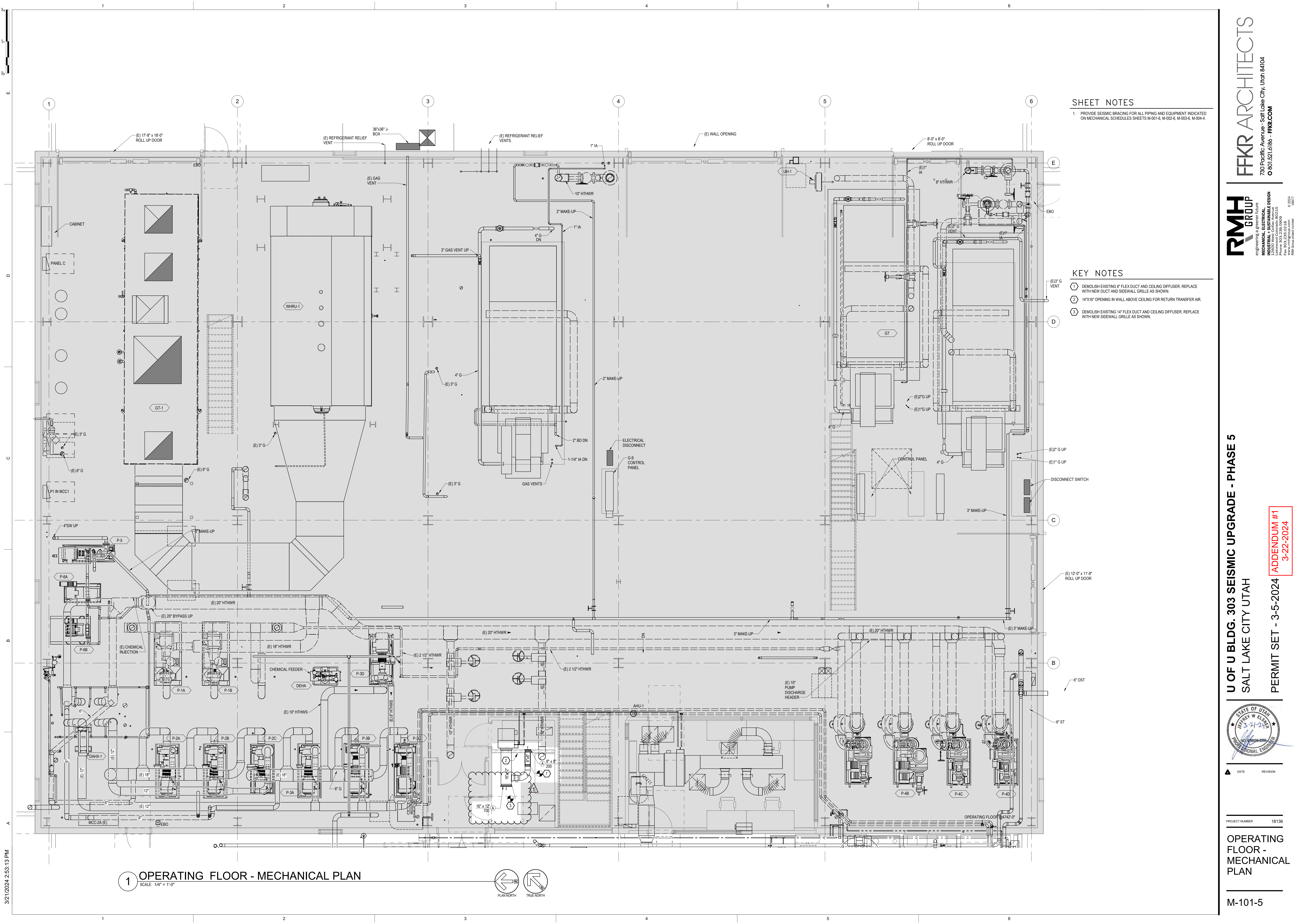


Δ	DATE	REVISION
1	03/19/24	ADD ALTERNATE #1

PROJECT NUMBER 21486 / 21632

EQUIPMENT SCHEDULES

M-001-5



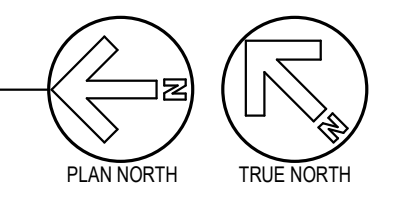
SHEET NOTES

1. PROVIDE SEISMIC BRACING FOR ALL PIPING AND EQUIPMENT INDICATED ON MECHANICAL SCHEDULES SHEETS M-001-6, M-002-6, M-003-6, M-004-4.

KEY NOTES

- 1 DEMOLISH EXISTING 8" FLEX DUCT AND CEILING DIFFUSER, REPLACE WITH NEW DUCT AND SIDEWALL GRILLE AS SHOWN.
- 2 14"x16" OPENING IN WALL ABOVE CEILING FOR RETURN TRANSFER AIR.
- 3 DEMOLISH EXISTING 14" FLEX DUCT AND CEILING DIFFUSER, REPLACE WITH NEW SIDEWALL GRILLE AS SHOWN.

1 OPERATING FLOOR - MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



DATE REVISION

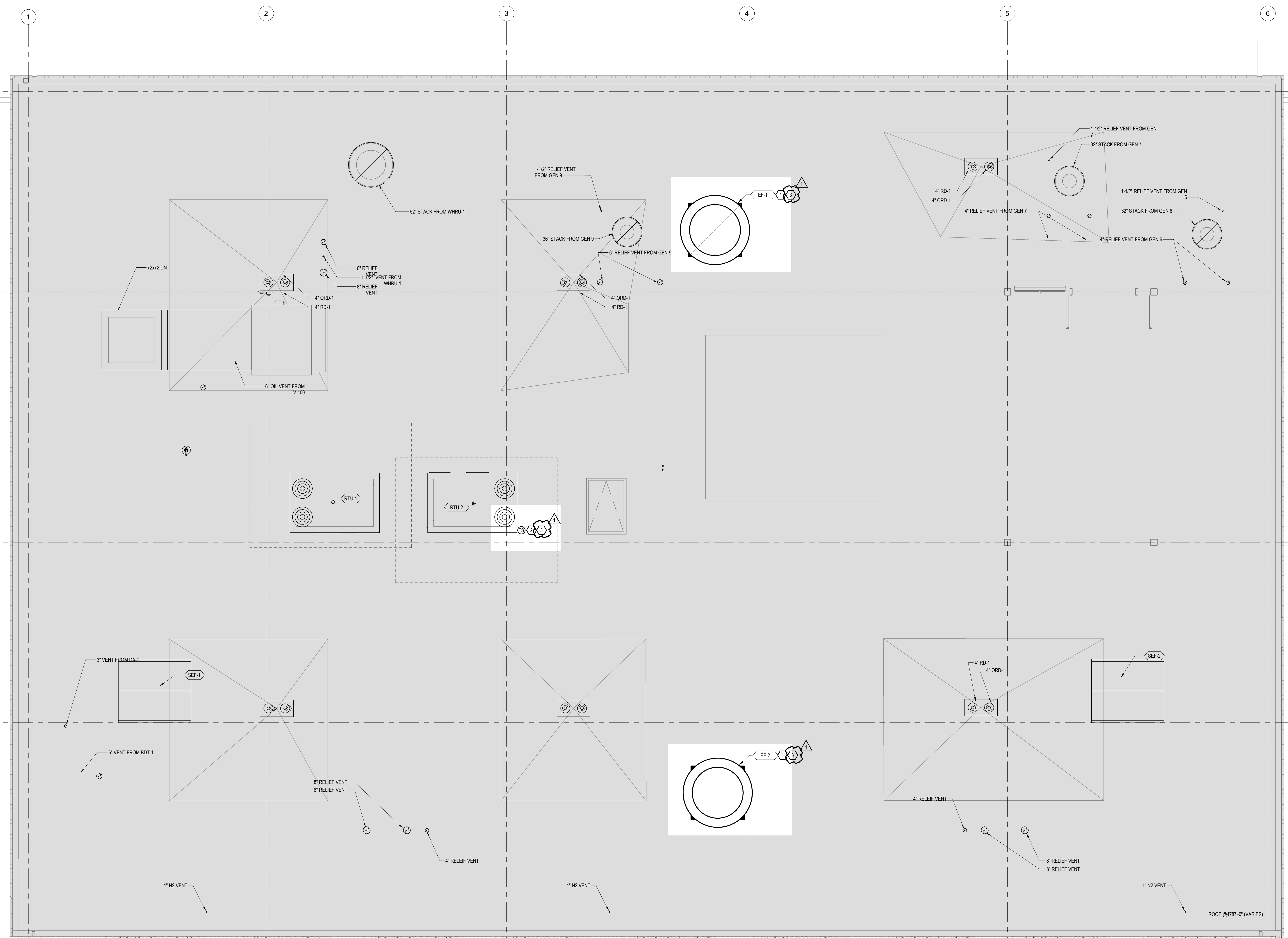
PROJECT NUMBER 18136

OPERATING FLOOR - MECHANICAL PLAN

M-101-5

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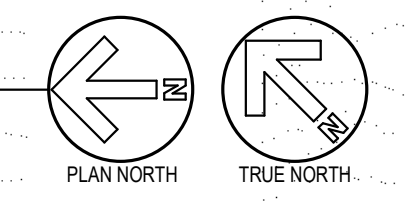
SHEET NOTES

1. REFER TO GENERAL NOTES ON COVER SHEET.
2. SEE ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR COORDINATION.

KEY NOTES

- 1 EXHAUST FAN INTAKE OPEN TO FLOOR BELOW.
- 2 PROVIDE NEW FAN FLOOR TEMPERATURE SENSOR ON THE OUTER WALL OF THE ELECTRICAL ROOM ON THE FLOOR BELOW.
- 3 BASE BID, INSTALL CURB WITH WEATHER TIGHT CAP, ALTERNATE #1 INSTALL FAN AS SHOWN.

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

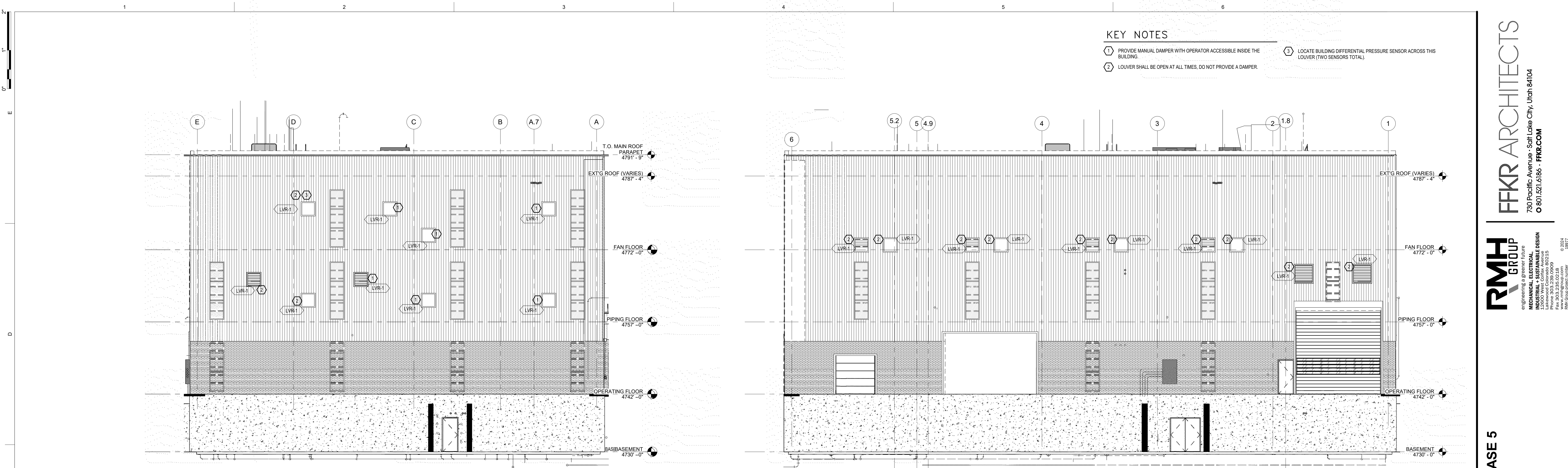


DATE	REVISION
03/19/24	ADD ALTERNATE 1

PROJECT NUMBER 18136

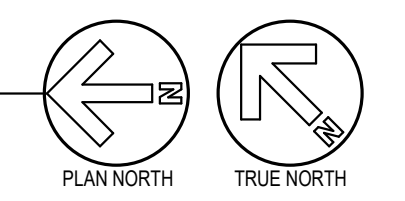
ROOF - MECHANICAL PLAN

M-104-5

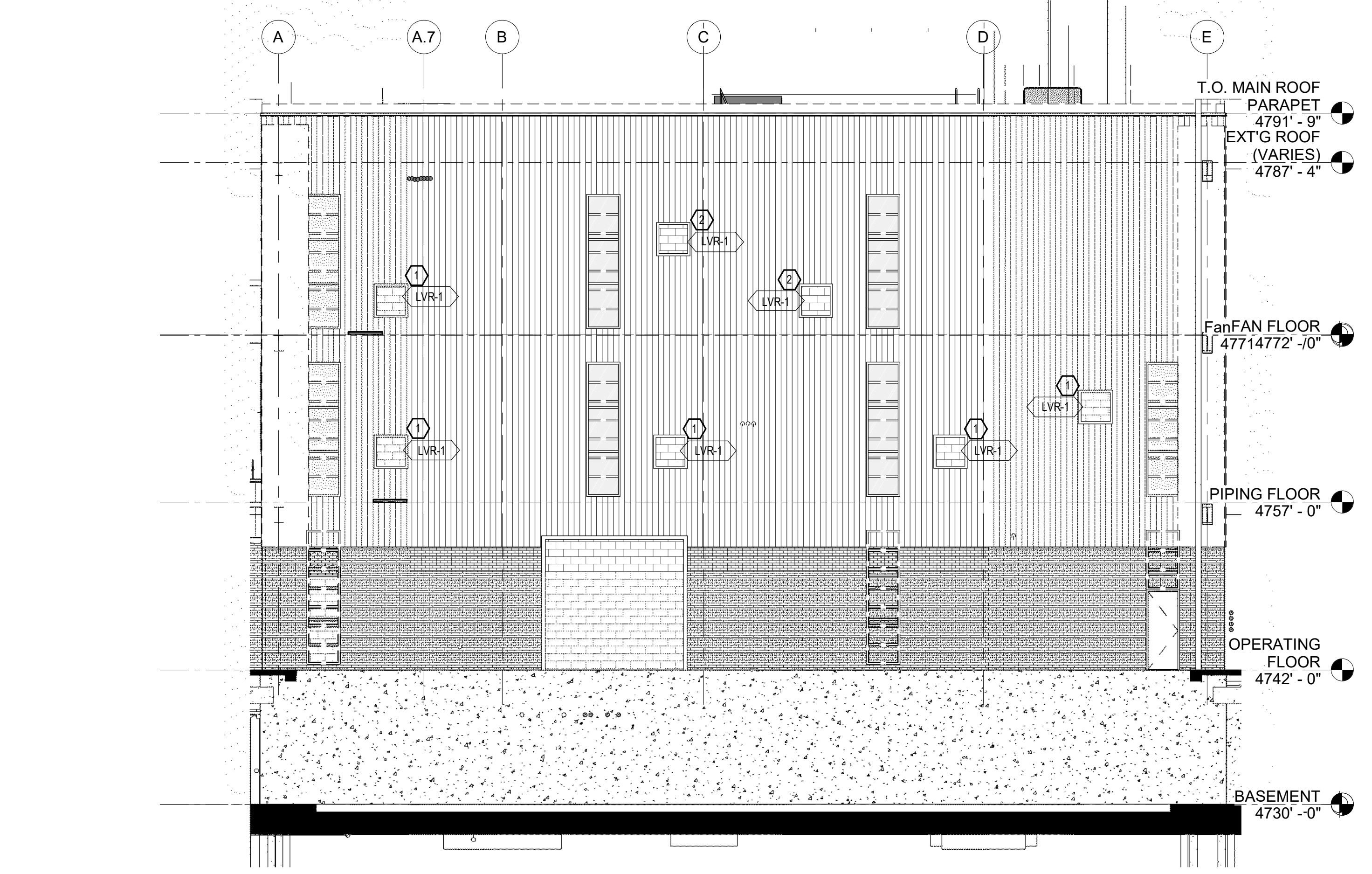
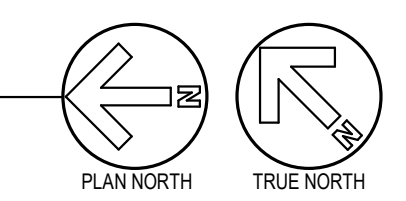


- KEY NOTES**
- 1 PROVIDE MANUAL DAMPER WITH OPERATOR ACCESSIBLE INSIDE THE BUILDING.
 - 2 LOUVER SHALL BE OPEN AT ALL TIMES. DO NOT PROVIDE A DAMPER.
 - 3 LOCATE BUILDING DIFFERENTIAL PRESSURE SENSOR ACROSS THIS LOUVER (TWO SENSORS TOTAL).

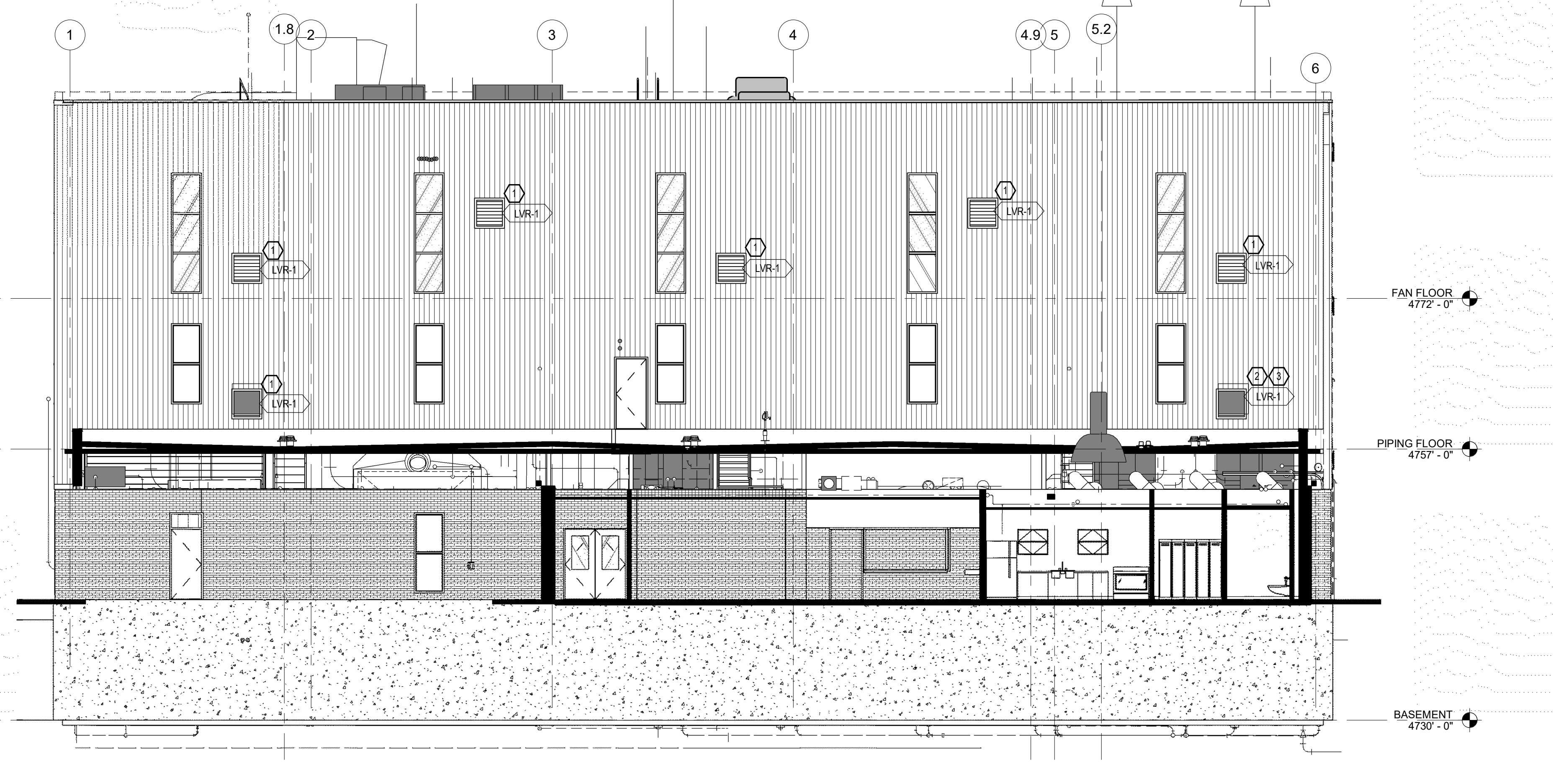
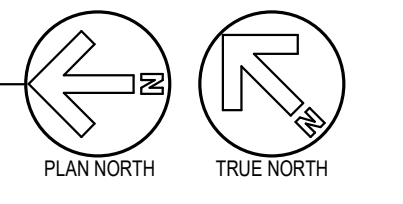
3 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



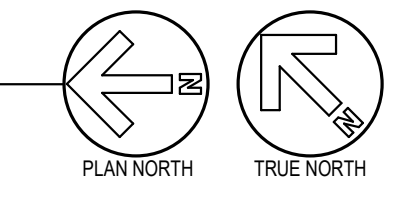
4 EAST ELEVATION
SCALE: 1/8" = 1'-0"



1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



2 WEST ELEVATION
SCALE: 1/8" = 1'-0"

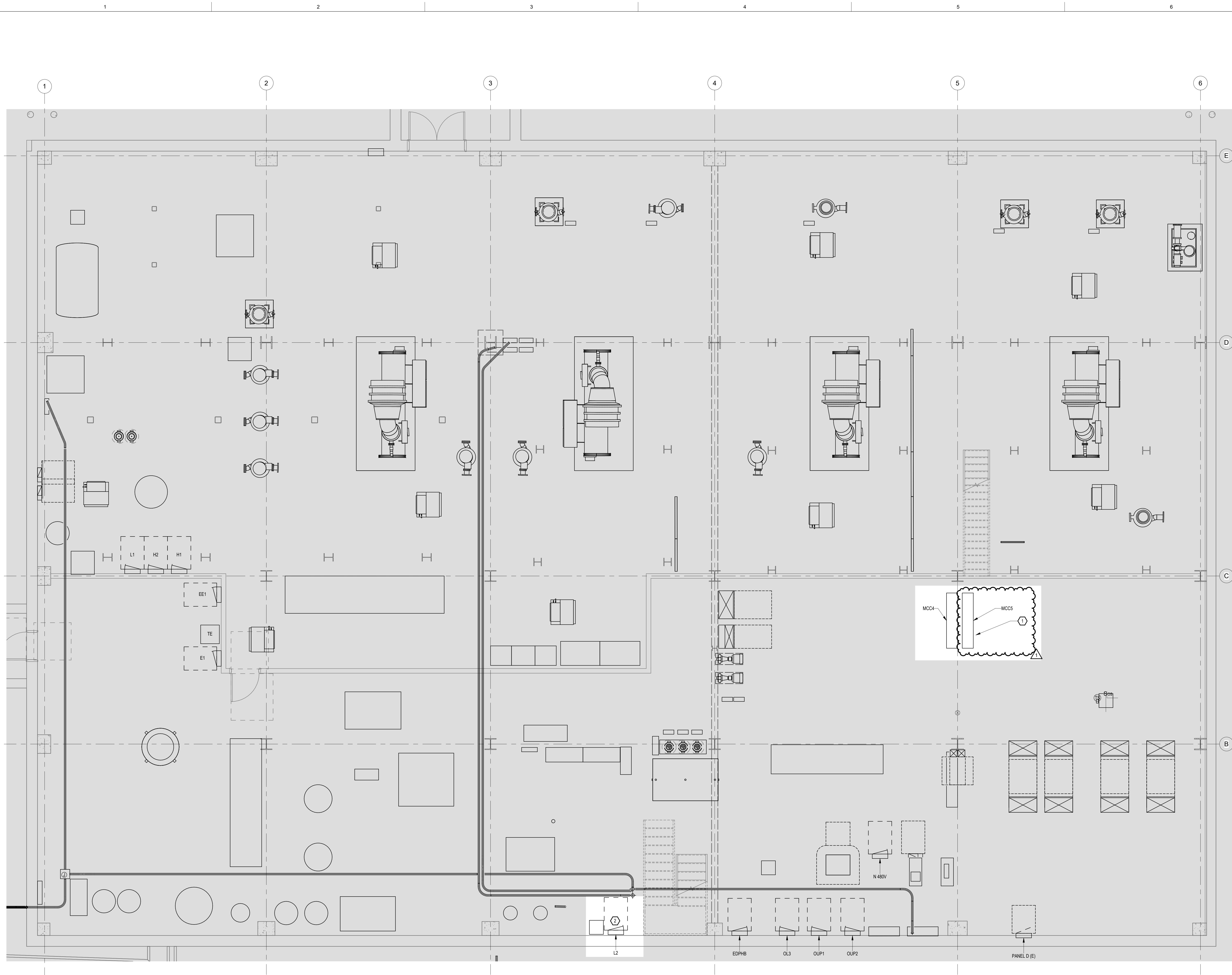


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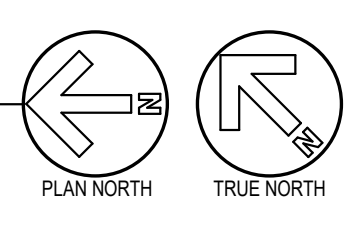
PROJECT NUMBER 18136

Elevations

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1 BASEMENT FLOOR - POWER PLAN
 SCALE: 1/4" = 1'-0"



- SHEET NOTES**
1. REFER TO GENERAL NOTES ON ELECTRICAL LEGEND SHEET.
 2. REFER TO SHEET E-110-S FOR ONE-LINE.
 3. REFER TO SHEET E-200-S ELECTRICAL SCHEDULES, AND EQUIPMENT SCHEDULE FOR FEEDER AND CONDUIT SIZES.
 4. REFER TO SHEET E-104-S FOR ROOF-MOUNTED EXHAUST FAN LOCATIONS.
 5. COORDINATE FAN CONTROLS WITH DIVISION 23 CONTROLS CONTRACTOR.

- KEY NOTES**
1. ADD ALTERNATE #1: PROVIDE 480V MOTOR CIRCUITS FROM EXISTING MCC-5. ROUTE FEEDERS IN CONDUIT FROM MCC TO NEW ROOF TOP EXHAUST FAN UNITS EF-1 AND EF-2 DISCONNECTS. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
 2. PROVIDE BRANCH CIRCUIT IN CONDUIT TO 20A DISCONNECT FOR THE NORTHEAST ROLL-UP DOOR. SEE ONE-LINE AND ELECTRICAL SCHEDULES FOR PANEL DETAILS AND SHEET E-101-S FOR DISCONNECT LOCATION.

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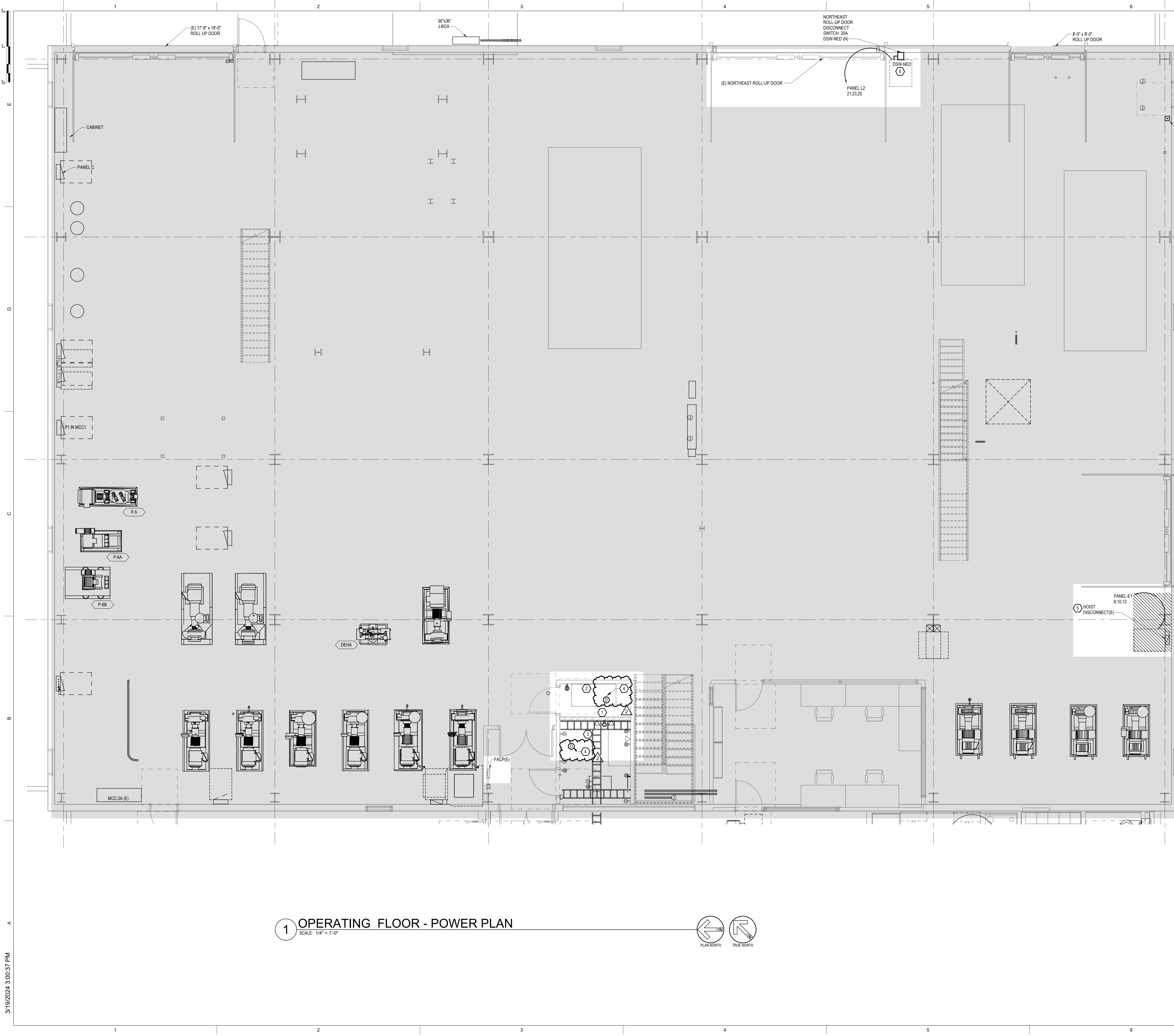
U OF U BLDG. 303 SEISMIC UPGRADE - PHASE 5
SALT LAKE CITY UTAH
PERMIT SET - 3-5-2024
ADDENDUM #1
3-22-2024



DATE	REVISION
03/19/24	ADD ALTERNATE
	1

PROJECT NUMBER: 18136
BASEMENT FLOOR - POWER PLAN

E-100-5



SHEET NOTES

1. REFER TO GENERAL NOTES ON COVER SHEET.
2. LIGHT LINE WEIGHT INDICATES EXISTING (E), HEAVY LINE WEIGHT INDICATES NEW CONSTRUCTION (N).
3. PLANT SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION TO SUPPLY HIGH-TEMPERATURE WATER AND CHILLED WATER TO THE CAMPUS. SEEK PERMISSION FROM PLANT PERSONNEL PRIOR TO SHUT-OFF OR TURN-ON ELECTRICAL POWER TO PLANT EQUIPMENT.
4. PROVIDE TEMPORARY POWER FOR SMALL TOOLS AND TASK LIGHTING.
5. PATCH AND PAINT ANY SURFACES DAMAGED DUE TO DEMOLITION AND CONSTRUCTION TO MATCH EXISTING CONDITIONS. SEAL ALL PENETRATIONS THROUGH FLOORS AND WALLS WITH UL LISTED SEALANTS AND FIRESTOPPING MATERIALS.
6. THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. DATA PRESENTED ON THIS DRAWING IS AS ACCURATE AS CAN BE DETERMINED, BUT ACCURACY IS NOT GUARANTEED. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ENGINEER IS NEITHER RESPONSIBLE FOR ITS ACCURACY, NOR ERRORS NOR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DOCUMENTS. FIELD VERIFICATION OF ALL AFFECTED COMPONENTS IS REQUIRED. MAINTAIN FIRE ALARM SYSTEM OPERATION IN ALL AREAS OUTSIDE OF THE AREA OF WORK DURING CONSTRUCTION.
7. SPlicing WIRES TO NEW OR EXISTING FIRE ALARM DEVICES IS NOT ACCEPTABLE WITHOUT WRITTEN PERMISSION FROM OWNER.
8. THIS DRAWING DEPICTS ANTICIPATED QUANTITIES AND LOCATIONS OF FIRE ALARM SYSTEM DEVICES AND IS NOT INTENDED TO ILLUSTRATE A COMPLETE, DESIGNED SYSTEM. FIRE ALARM SYSTEM CONTRACTOR SHALL FIELD INVESTIGATE, DESIGN, COORDINATE, INSTALL, PROGRAM, TEST, AND COMMISSION THE NEW FIRE ALARM SYSTEM AS DEFINED IN THE SPECIFICATIONS AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND OWNER STANDARDS. PROVIDE ALL FIRE ALARM SYSTEM COMPONENTS FOR A COMPLETE SYSTEM.
9. ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM.
10. THE LOCATIONS OF SMOKE DETECTORS ARE SHOWN DIAGRAMMATICALLY. FINAL LOCATIONS TO CONFORM WITH NFPA 72 AND MANUFACTURER'S REQUIREMENTS. IN FINISHED SPACES COORDINATE LOCATION OF FIRE ALARM SYSTEM COMPONENTS WITH ARCHITECT AND OWNER.
11. REFER TO SHEET E-100-5 FOR PANEL LOCATIONS.

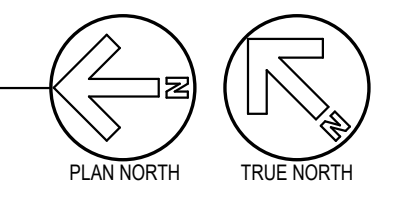
KEY NOTES

1. RELOCATE EXISTING RECEPTACLE AND DATA PORTS TO NEW PROGRAMMERS ROOM WALL. MAINTAIN BRANCH CIRCUIT FROM SAME PANEL.
2. RELOCATE EXISTING RECEPTACLE TO NEW LOCATION BY STORAGE ROOM ENTRY WAY. MAINTAIN BRANCH CIRCUIT FROM SAME PANEL.
3. EXTEND EXISTING CABLE TRAY TO NEW PROGRAMMERS ROOM WALL.
4. ADD ALTERNATE #2. PROVIDE SMOKE DETECTORS COMPATIBLE WITH THE INSTALLED BUILDING FIRE ALARM SYSTEM AND CONNECT TO THE LOCAL SIGNALING LINE CIRCUIT (SLC). PROVIDE PROGRAMMING INTO SYSTEM OF THE NEW SMOKE DETECTORS BY THE FIRE ALARM SERVICE COMPANY.
5. REMOVE EXISTING HOIST DISCONNECT SWITCH AND PRESERVE FOR RELOCATION. REPLACE WITH A JUNCTION BOX TO FACILITATE EXTENSION OF CIRCUIT TO NEW HOIST LOCATION. SEE SHEET E103-5 FOR NEW WORK.
6. BASE SCOPE PROVIDE NEW 20A DISCONNECT FOR NORTHEAST ROLL-UP DOOR. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE BRANCH CIRCUIT IN CONDUIT FROM EXISTING PANEL L2 ON THE BASEMENT FLOOR. SEE ONE-LINE AND ELECTRICAL SCHEDULES FOR PANEL DETAILS AND SHEET E-100-5 FOR PANEL LOCATION.

KEY PLAN



1 OPERATING FLOOR - POWER PLAN
SCALE: 1/4" = 1'-0"



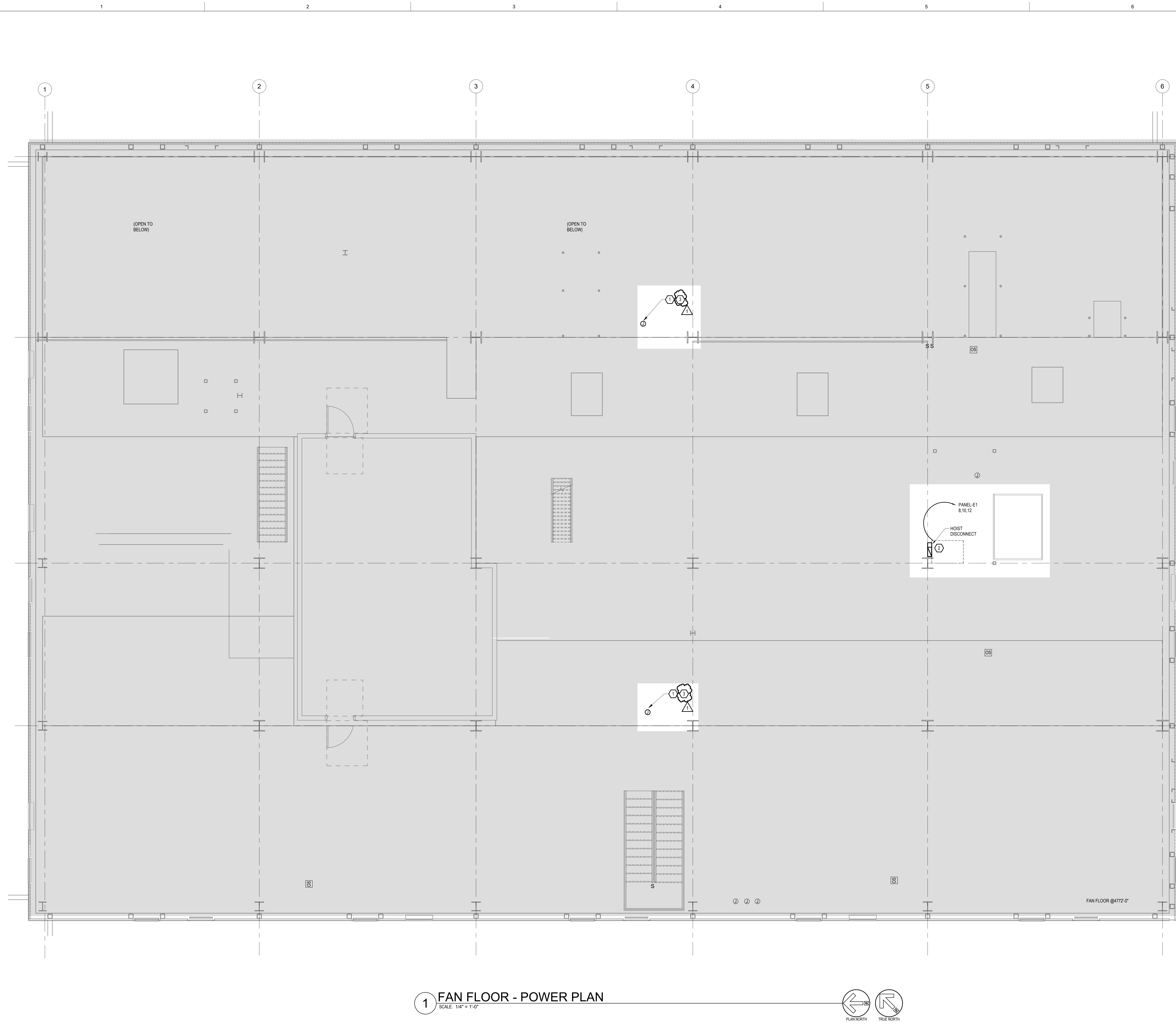
DATE	REVISION
03/19/24	ADD ALTERNATE 2

PROJECT NUMBER 18136

OPERATING FLOOR - POWER PLAN

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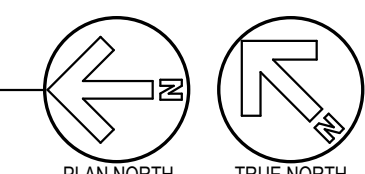
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- SHEET NOTES**
1. REFER TO GENERAL NOTES ON COVER SHEET.
 2. COORDINATE ALL ROOF PENETRATIONS WITH OWNER TO VERIFY WEATHERTIGHT SEAL AND ROOF COMPLIANCE.
 3. REFER TO SHEET E-110-5 FOR ONE-LINE.
 4. REFER TO SHEET E-200-5 EQUIPMENT SCHEDULE FOR FEEDER SIZES.

- KEY NOTES**
1. BASE SCOPE PROVIDE CONDUIT PENETRATION THROUGH ROOF TERMINATING IN JUNCTION BOXES ON EACH END FOR FUTURE ADD ALTERNATE 2 INSTALL.
 2. EXTEND EXISTING BRANCH CIRCUIT FROM FORMER DISCONNECT LOCATION TO RELOCATED HOIST DISCONNECT. COORDINATE DISCONNECT EXACT LOCATION WITH OWNER. SEE EQUIPMENT SCHEDULE FOR FEEDER SIZES.
 3. ADD ALTERNATE #1: PROVIDE NEW CIRCUITS FROM MCC-5 TO DISCONNECTS ON ROOF. SEE SHEET E-104-5 FOR NEW FAN LOCATIONS. SEE ONE LINE DIAGRAM FOR CIRCUIT SOURCE INFORMATION.

1 FAN FLOOR - POWER PLAN
SCALE: 1/4" = 1'-0"



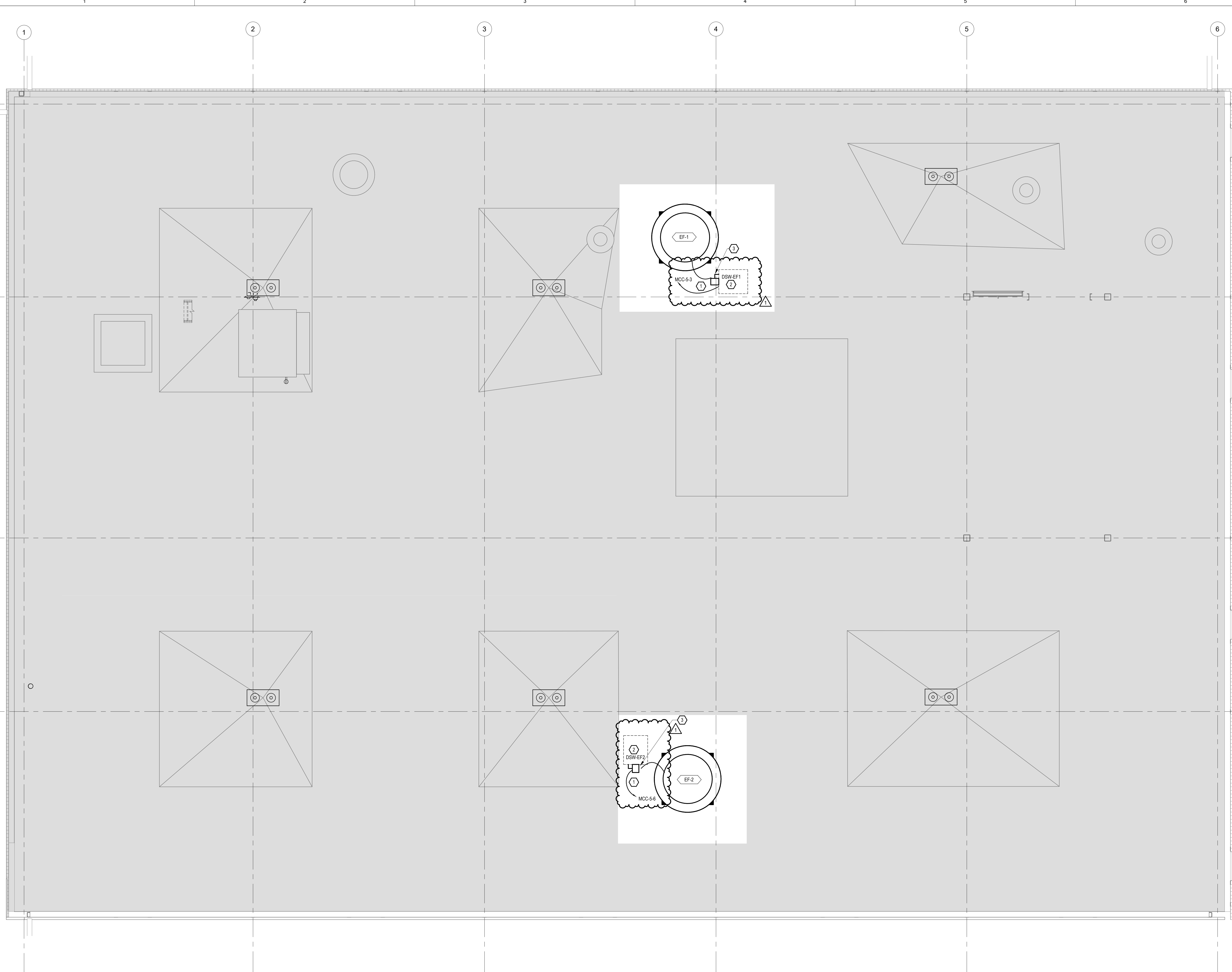
DATE	REVISION
03/19/24	ADD ALTERNATE 1

PROJECT NUMBER 18136

FAN FLOOR - POWER PLAN

E-103-5

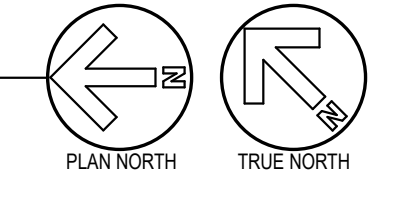
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- SHEET NOTES**
- REFER TO GENERAL NOTES ON COVER SHEET.
 - COORDINATE ALL ROOF PENETRATIONS WITH OWNER TO VERIFY SEAL AND ROOF WARRANTY COMPLIANCE.
 - REFER TO SHEET E-110-5 FOR ONE-LINE.
 - REFER TO SHEET E-200-5 EQUIPMENT SCHEDULE FOR FEEDER SIZES.
 - REFER TO SHEET E-100-5 FOR MCC-5 LOCATION.
 - COORDINATE FAN CONTROLS WITH DIVISION 23 CONTROLS CONTRACTOR.

- KEY NOTES**
- ADD ALTERNATE #1: PROVIDE WEATHER PROTECTED ROOF PENETRATION FOR 480V FEEDER IN CONDUIT FROM EXISTING MCC-5. ROUTE FEEDER TO NEW EXHAUST FAN UNIT DISCONNECT SWITCH AND CONTINUE TO FAN UNIT. SEAL ALL PENETRATIONS WEATHERTIGHT.
 - ADD ALTERNATE #1: COORDINATE WITH MECHANICAL EQUIPMENT INSTALLER TO PROVIDE FAN UNIT DISCONNECT SWITCH.
 - BASE SCOPE PROVIDE CONDUIT PENETRATION THROUGH ROOF. TERMINATE CONDUIT IN JUNCTION BOX IF ADD ALTERNATE #1 IS NOT ACCEPTED.

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



ADDENDUM #1
3-22-2024

PERMIT SET - 3-5-2024



DATE	REVISION
03/19/24	ADD ALTERNATE
	1

PROJECT NUMBER 18136

ROOF - POWER PLAN

Motor Control Center Schedule

Version: 05/19

NAME: MCC-5 (E) TYPE: INDOOR
 FED FROM: MCB-16 DEFECT: 20 INCHES
 VOLTAGE: 277/480 V. WIDTH: 20 INCHES PER SECTION
 PHASE 3: YES NEUTRAL BUS: YES
 WIRE 4 W GROUND BUS: YES
 HZ 60 GENERAL NOTES: 1. EXISTING MCC
 2. NEW CIRCUIT BREAKER/MOTOR STARTER
 3. ADD OVERLOADS BASED ON NAMEPLATE CURRENT
 4. ADJUST VOLTAGE

Circuit #	Equipment Identification (See Note 1)	Motor Data			Circuit Total kVA	Function Code(s)	NEMA Size	Breaker/Fuse Size	OCP	Remarks
		HP	Phase	Voltage						
1	SPACE									
2	P-5 EMERGENCY MAKE-UP	75	3	480	96.0	28.48	FVNR	4	MCP	225/1.3
3	EF-1 (N)	10	3	480	14.0	11.15	FVNR	1	MCP	30/1.3
4	EF-2 (N)	10	3	480	14.0	11.15	FVNR	1	MCP	30/1.3
5	P-3X (DEAERATOR PUMP [E])	3/4	3	480	1.6	1.27	FVNR	1	MCP	15/1.3
6	UNKNOWN									
7	P-8B (DEAERATOR PUMP [E])	3/4	3	480	1.6	1.27	FVNR	1	MCP	15/1.3

LOAD TYPE	CONNECTED LOAD	POWER FACTOR	DEMAND	NEC CALCULATED LOAD
INCANDESCENT	0.0 kW @ 100%	0.0	125%	0.0 kVA
INDUCTIVE	0.0 kW @ 95%	0.0	125%	0.0 kVA
RECEPTACLES	0.0 kW @ 95%	0.0	100%	0.0 kVA
MOTORS	61.2 kW @ 80%	76.5	125%	95.6 kVA
OTHER	0.0 kW @ 85%	0.0	100%	0.0 kVA
NONCONCIDENT	0.0 kW @ 95%	0.0	125%	0.0 kVA
PEAK LOAD	0.0 kW @ 95%	0.0	100%	0.0 kVA
0% SPARE	0.0 kW @ 95%	0.0	100%	0.0 kVA
TOTAL	81.0 kW	101 kVA	120 kVA	

PANEL: D (E) VOLTAGE: 120/240 V. TYPE: LIGHTING & APPLIANCE
 1 PH 3 W 60 HZ MOUNTING: SEE PLAN
 FED FROM: MCC-2A N/A AMP MAIN RATED AT 80% NEUTRAL BUS: YES
 M.C.O. AMP MAIN LUGS 100 AMP BUS ISOLATED GND: NO
 COPPER BUSING GROUND BUS: YES
 10000 SYMMETRICAL RMS AMPS NOTE: 1. EXISTING PANEL
 2. ADD FIXTURE TO CIRCUIT
 3. NEW BRANCH CIRCUIT RELOCATION

NOTE	DESCRIPTION	CCT	BREAKER	CCT	DESCRIPTION	NOTE
VA	AMP / P	P	CCT	AMP / P	VA	
	JCBO LR PANEL BASEMENT	200	20 / 1	1 A 2	20 / 1	
	JCBO CONSOLE CONTROL ROOM	800	20 / 1	3 B 4	20 / 1	
	LTG PIPING FL HIGH BAG	200	20 / 1	5 A 6	20 / 1	
	LTG OPERATING FL GEN #4	450	20 / 1	7 B 9	20 / 1	
	LTG STAIRWAY	450	20 / 1	9 A 10	20 / 1	
	LTG BASEMENT GEN #5	450	20 / 1	11 B 12	20 / 1	
	LTG BASEMENT GEN #4 & 5	450	20 / 1	13 C 14	20 / 1	
	LTG OPERATING FL SO WEST	450	20 / 1	15 D 16	20 / 1	
	LTG OPERATING FL SO WEST	450	20 / 1	17 A 18	20 / 1	
	LTG PIPING FL SO WEST	450	20 / 1	19 B 20	20 / 1	
	LTG FAN FL SO WEST	450	20 / 1	21 A 22	20 / 1	
	LTG FAN FL GEN #4	450	20 / 1	23 B 24	20 / 1	
	LTG FAN FL GEN #3	450	20 / 1	25 A 26	20 / 1	
	OZ ANALYZER GEN #3	300	20 / 1	27 B 28	20 / 1	
	OZ ANALYZER GEN #4	300	20 / 1	29 A 30	20 / 1	
	PLUGS FAN FL	350	20 / 1	31 B 32	20 / 1	
	PLUGS PIPING FL	350	20 / 1	33 A 34	20 / 1	
	OUTSIDE BLDG LTG	800	20 / 1	35 B 36	20 / 1	
	PLUGS BY ROLL UP DOOR	180	20 / 1	37 A 38	20 / 1	
	PLUGS OPERATING FL SO EAST	350	20 / 1	39 B 40	20 / 1	
	EXHAUST FAN CONTROL ROOM	350	20 / 1	41 A 42	20 / 1	

LOAD TYPE	PH A	PH B	PH C	TOTAL
INCANDESCENT	0.0	0.0	0.0	0.0 kVA
INDUCTIVE LTG	5.8	5.8	11.6	11.6 @ 125% = 14.5 kVA
RECEPTACLES	1.3	2.6	3.9	7.8 kVA
MOTORS	0.0	0.0	0.0	0.0 kVA
APPLIANCES	1.2	0.5	1.7	3.4 @ 95% = 3.6 @ 100% = 4.5 kVA
HEAT	0.0	0.0	0.0	0.0 kVA
COMPUTER	0.0	0.0	0.0	0.0 kVA
OTHER	0.0	0.0	0.0	0.0 kVA
NONCONCIDENT	0.0	0.0	0.0	0.0 kVA
HEAT	0.0	0.0	0.0	0.0 kVA
PEAK LOAD	0.0	0.0	0.0	0.0 kVA
0% SPARE	0.0	0.0	0.0	0.0 kVA
TOTAL	8.2	8.9	17.1	17.1 kVA

PANEL: L2(E) VOLTAGE: 120/208 V. TYPE: PANELBOARD
 3 PH 4 W 60 HZ MOUNTING: SEE PLAN
 FED FROM: T-12 N/A AMP MAIN RATED AT 80% NEUTRAL BUS: YES
 M.C.O. AMP MAIN LUGS 400 AMP BUS ISOLATED GND: NO
 COPPER BUSING GROUND BUS: YES
 10000 SYMMETRICAL RMS AMPS NOTE: 1. EXISTING PANEL BASEMENT FLOOR
 2. SERVED BY EXISTING MTS
 3. NEW BRANCH CIRCUIT RELOCATION

NOTE	DESCRIPTION	CCT	BREAKER	CCT	DESCRIPTION	NOTE
VA	AMP / P	P	CCT	AMP / P	VA	
	PANEL OLB	5000	100 / 1	1 A 2	100 / 1	0 SPARE
	UNKNOWN	9000	100 / 1	3 B 4	100 / 1	0 SPARE
	UNKNOWN	0	20 / 1	7 A 8	20 / 1	12000 PANEL B
	SPACE	0	20 / 1	9 B 10	100 / 1	12000 PANEL C
	SPACE	0	20 / 1	11 C 12	20 / 1	12000
	RECEPTACLES SERVER RM	540	20 / 1	13 A 14	20 / 1	900 UNKNOWN
	RECEPTACLES CTRL RM	900	20 / 1	15 B 16	30 / 1	3000 WELDING PLUG
	LIQUID RECEPTACLE CTRL RM	360	20 / 1	17 C 18	20 / 1	3000
	SPACE	0	20 / 1	19 A 20	100 / 1	0 SPARE
	OPERATING FLOOR	800	15 / 1	21 B 22	20 / 1	0 SPARE
	SPACE	0	20 / 1	23 C 24	20 / 1	0 SPARE
	SPACE	0	20 / 1	25 A 26	20 / 1	0 SPARE
	SPACE	0	20 / 1	27 B 28	20 / 1	0 SPARE
	SPACE	0	20 / 1	29 C 30	20 / 1	0 SPARE

LOAD TYPE	PH A	PH B	PH C	TOTAL
INCANDESCENT	0.0	0.0	0.0	0.0 kVA
INDUCTIVE LTG	0.0	0.0	0.0	0.0 kVA
RECEPTACLES	0.5	3.9	3.4	7.8 kVA
MOTORS	0.7	0.8	0.0	1.5 kVA
APPLIANCES	0.0	0.0	0.0	0.0 kVA
HEAT	0.0	0.0	0.0	0.0 kVA
COMPUTER	0.0	0.0	0.0	0.0 kVA
OTHER	21.9	21.0	33.0	75.9 kVA
NONCONCIDENT	0.0	0.0	0.0	0.0 kVA
PEAK LOAD	0.0	0.0	0.0	0.0 kVA
0% SPARE	0.0	0.0	0.0	0.0 kVA
TOTAL	23.1	25.7	36.4	85.0 kVA

PANEL: OUP1 (E) VOLTAGE: 120/240 V. TYPE: LIGHTING & APPLIANCE
 1 PH 3 W 60 HZ MOUNTING: SEE PLAN
 FED FROM: MTS (E) N/A AMP MAIN RATED AT 80% NEUTRAL BUS: YES
 M.C.O. AMP MAIN LUGS 100 AMP BUS ISOLATED GND: NO
 COPPER BUSING GROUND BUS: YES
 10000 SYMMETRICAL RMS AMPS NOTE: 1. EXISTING PANELBOARD
 2. SERVED BY EXISTING MTS
 3. NEW BRANCH CIRCUIT RELOCATION

NOTE	DESCRIPTION	CCT	BREAKER	CCT	DESCRIPTION	NOTE
VA	AMP / P	P	CCT	AMP / P	VA	
	PC & HMI REC	200	20 / 1	1 A 2	20 / 1	200 PANEL OUP2
	GEN 6 CONTROL	200	20 / 1	3 B 4	20 / 1	200
	FLOWMETER	200	20 / 1	5 A 6	30 / 1	RECEPTACLE CTRL RM
	FLOWMETER	200	20 / 1	7 B 8	20 / 1	RECEPTACLE CTRL RM
	GEN 7 CONTROL	200	20 / 1	9 A 10	20 / 1	RECEPTACLES CTRL RM
	CTRL & VALVE POWER	200	20 / 1	11 B 12	20 / 1	0 SPARE
	RECEPTACLE SERVER RM	1080	20 / 1	13 A 14	20 / 1	0 SPARE
	RECEPTACLE SERVER RM	1080	20 / 1	15 B 16	20 / 1	0 SPARE
	RECEPTACLE SERVER RM	3600	30 / 1	17 A 18	20 / 1	0 SPARE
	RECEPTACLE SERVER RM	3600	30 / 1	19 B 20	20 / 1	0 SPARE
	RECEPTACLE SERVER RM	3600	30 / 1	21 A 22	20 / 1	0 SPARE
	RECEPTACLE SERVER RM	3600	30 / 1	23 B 24	20 / 1	0 SPARE
	RECEPTACLE SERVER RM	360	20 / 1	25 A 26	20 / 1	0 SPARE
	SPACE	0	20 / 1	27 B 28	20 / 1	0 SPARE
	SPACE	0	20 / 1	29 C 30	20 / 1	0 SPARE

LOAD TYPE	PH A	PH B	PH C	TOTAL
INCANDESCENT	0.0	0.0	0.0	0.0 kVA
INDUCTIVE LTG	0.0	0.0	0.0	0.0 kVA
RECEPTACLES	12.1	11.9	24.0	48.0 kVA
MOTORS	0.0	0.0	0.0	0.0 kVA
APPLIANCES	0.0	0.0	0.0	0.0 kVA
HEAT	0.0	0.0	0.0	0.0 kVA
COMPUTER	0.0	0.0	0.0	0.0 kVA
OTHER	0.8	0.8	1.6	3.2 kVA
NONCONCIDENT	0.0	0.0	0.0	0.0 kVA
PEAK LOAD	0.0	0.0	0.0	0.0 kVA
0% SPARE	0.0	0.0	0.0	0.0 kVA
TOTAL	12.9	12.7	25.6	25.6 kVA

PANEL: E1 (E) VOLTAGE: 480Y/277V 3PH 4W TYPE: PANELBOARD
 LOCATION: BASEMENT FLOOR 60 HZ MOUNTING: SEE PLAN
 FED FROM: MDP-1A N/A AMP MAIN RATED AT 80% NEUTRAL BUS: YES
 M.C.O. AMP MAIN LUGS 225 AMP BUS ISOLATED GND: NO
 COPPER BUSING GROUND BUS: YES
 10000 SYMMETRICAL RMS AMPS NOTE: 1. EXISTING PANELBOARD
 2. SERVED BY EXISTING MTS
 3. NEW BRANCH CIRCUIT RELOCATION

NOTE	DESCRIPTION	CCT	BREAKER	CCT	DESCRIPTION	NOTE
VA	AMP / P	P	CCT	AMP / P	VA	
	LIGHTING	0	20 / 1	1 A 2	20 / 1	1200 COOL TWR DOCK LTG
	NIGHT LIGHTING	0	20 / 1	3 B 4	20 / 1	0 SPARE
	SPACE	0	20 / 1	5 C 6	20 / 1	0 SPARE
	SPACE	0	20 / 1	7 A	30 / 1	3500 HOIST DSW
	SPACE	0	20 / 1	9 B	20 / 1	3500 FAN FLOOR
	SPACE	0	30 / 1	11 C	20 / 1	3500
	1-EE1	5000	30 / 1	13 A 14	20 / 1	0 SPARE
	PANEL EE-1	5000	15 / 1	15 B 16	20 / 1	0 SPARE
	TRANSFORMER	0	20 / 1	17 C 18	20 / 1	0 SPARE
	CIRC PUMP P-16	503	15 / 1	19 A 20	20 / 1	SPACE
	2HP	503	15 / 1	21 B 22	20 / 1	SPACE
	CIRC PUMP P-17	503	15 / 1	23 C 24	20 / 1	SPACE
	2HP	503	15 / 1	25 A 26	20 / 1	SPACE
	2HP	503	15 / 1	27 B 28	20 / 1	SPACE
	2HP	503	15 / 1	29 C 30	20 / 1	SPACE

LOAD TYPE	PH A	PH B	PH C	TOTAL
LIGHTING	0.0	0.0	0.0	0.0 kVA
RECEPTACLE	1.2	0.0	0.0	1.2 kVA
COMPUTER	0.0	0.0	0.0	0.0 kVA
MOTOR	5.3	5.3	5.3	15.9 kVA
KITCHEN	0.0	0.0	0.0	0.0 kVA
HEAT	0.0	0.0	0.0	0.0 kVA
EQUIPMENT	0.0	0.0	0.0	0.0 kVA
OTHER	5.0	5.0	5.0	15.0 kVA
CONT LOAD	0.0	0.0	0.0	0.0 kVA
NONCONCIDENT	0.0	0.0	0.0	0.0 kVA
PEAK LOAD	0.0	0.0	0.0	0.0 kVA
0% SPARE	0.0	0.0	0.0	0.0 kVA
TOTAL	11.5	10.3	10.3	32.1 kVA

EQUIPMENT SCHEDULE

KEY	ITEM DESCRIPTION (SEE NOTE 1)	VOLTS	PH	HP	FLA	UNIT	PANEL (SEE NOTE 2)	BREAKER SIZE	MOTOR CIRCUIT KEY	MOTOR CIRCUIT	MINIMUM SCOR (SEE NOTE 1)	STARTER / CONTROLLER (SEE NOTE 1)	LOCAL DISC SW (SEE NOTE 3)	DISC LOCATION (SEE NOTE 4)	REMARKS
EF-1	ROOF MOUNTED EXHAUST FAN 1	480	3	10	14.0	11.2	MCC-5	30.0	30A3GM	3/4" C - 3/8" O, 1/4" IGS	1	FVNR	1	MCC	20A 3P AT UNIT ADD ALTERNATE #1
EF-2	ROOF MOUNTED EXHAUST FAN 2	480	3	10	14.0	11.2	MCC-5	30.0	30A3GM	3/4" C - 3/8" O, 1/4" IGS	1	FVNR	1	MCC	20A 3P AT UNIT ADD ALTERNATE #1
HOIST	HOIST (RELOCATED EXISTING)	480	3	20.0	15.7	12.7	E1	30.0	30A3GM	3/4" C - 3/8" O, 1/4" IGS	3			BY UNIT	

NOTES:
 1. COORDINATE ELECTRICAL EQUIPMENT REQUIREMENTS WITH THE ACTUAL MECHANICAL EQUIPMENT SUPPLIED. VERIFY THE COMPONENT OR EQUIPMENT MARKED NAMEPLATE SCOR IS EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT INDICATED. IF THE NAMEPLATE SCOR IS LESS THAN THE AVAILABLE FAULT CURRENT, PROTECT COMPONENT OR EQUIPMENT TO AVAILABLE SHORT-CIRCUIT CURRENT INDICATED ACCORDING TO ANSI/UL 508A SUPPLEMENT SB USING NRTL LISTED COMPONENTS. SUBMIT FOR REVIEW COMPONENTS DATA AND TIME-CURRENT CURVES SUBSTANTIATING COMPLIANCE.
 2. REFER TO PANEL SCHEDULES FOR EXACT CIRCUIT NUMBER.
 3. PROVIDE A NON-FUSED DISCONNECT UNLESS INDICATED OTHERWISE.

LUMINAIRE SCHEDULE

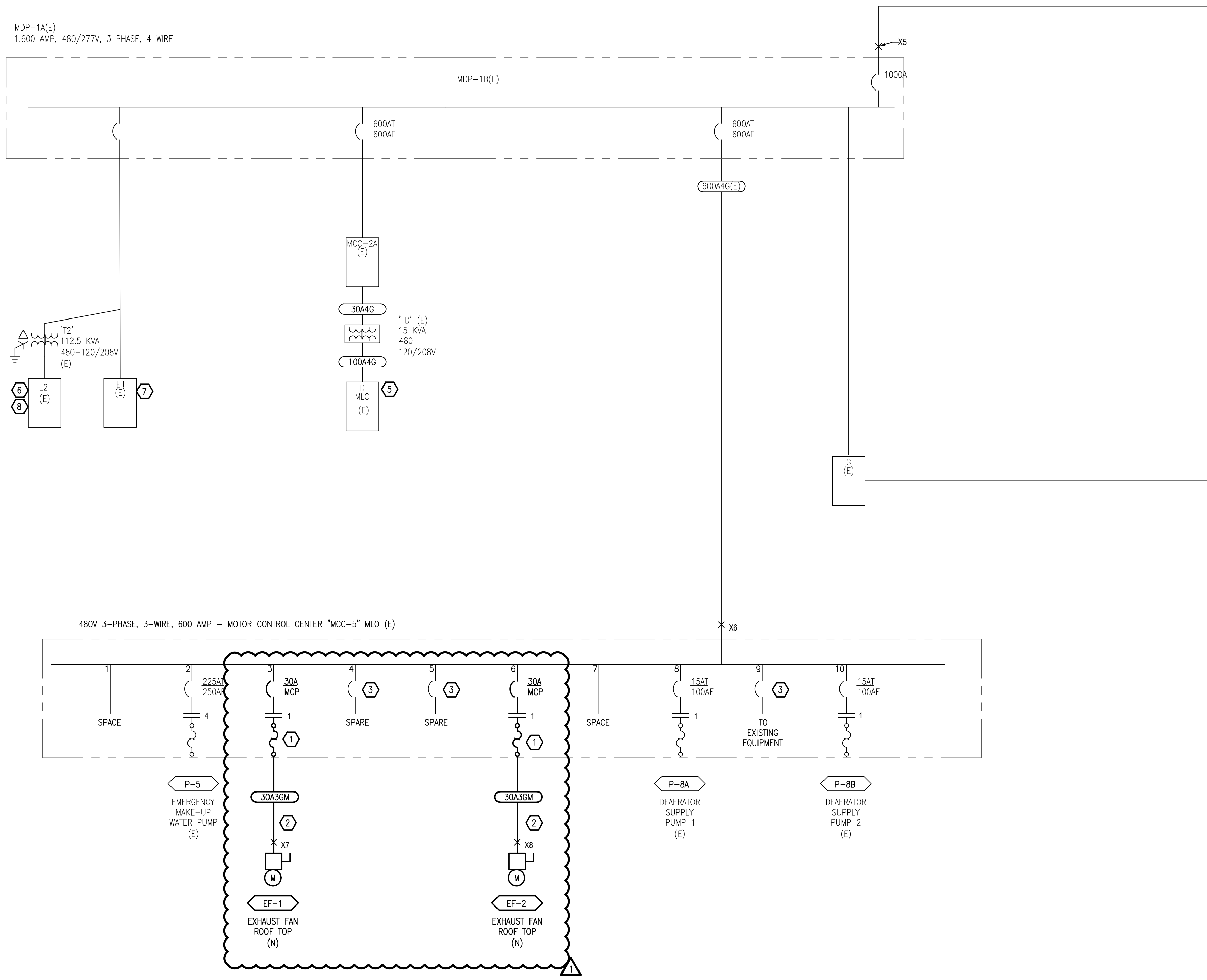
Version: 10/17

KEY	QTY	LAMP(S) TYPE	DESCRIPTION	FINISH	MOUNTING	MANUFACTURER	SPECIFICATION (NOTE 1)	VOLTS	WATTS	NOTES
A	NA	LED	SURFACE MOUNT LINEAR LED	WHITE	SURFACE	ALS	IL44-SM5C-WH-JD	100-277	44	SELECTABLE 44W AND 4000K CCT

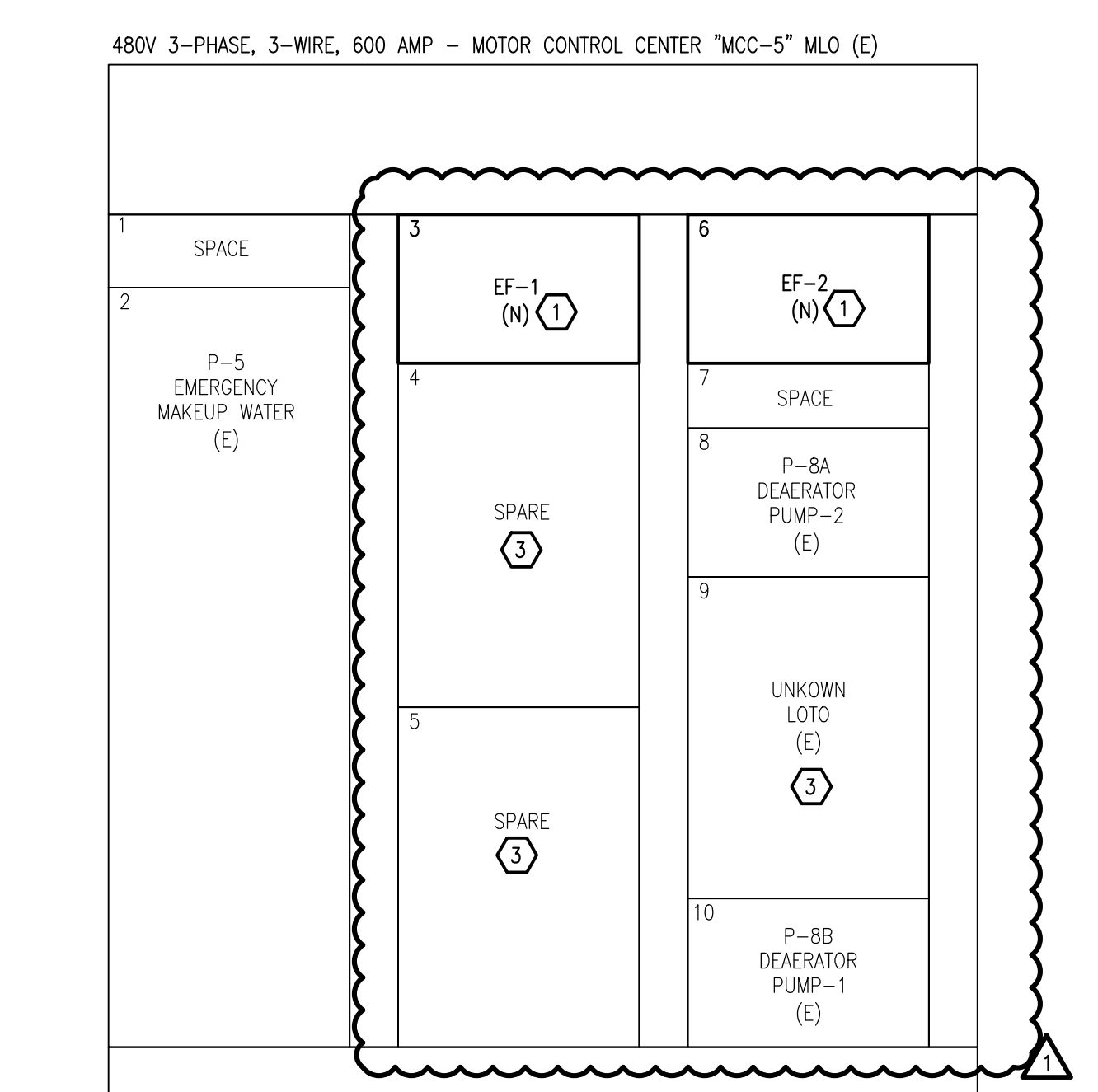
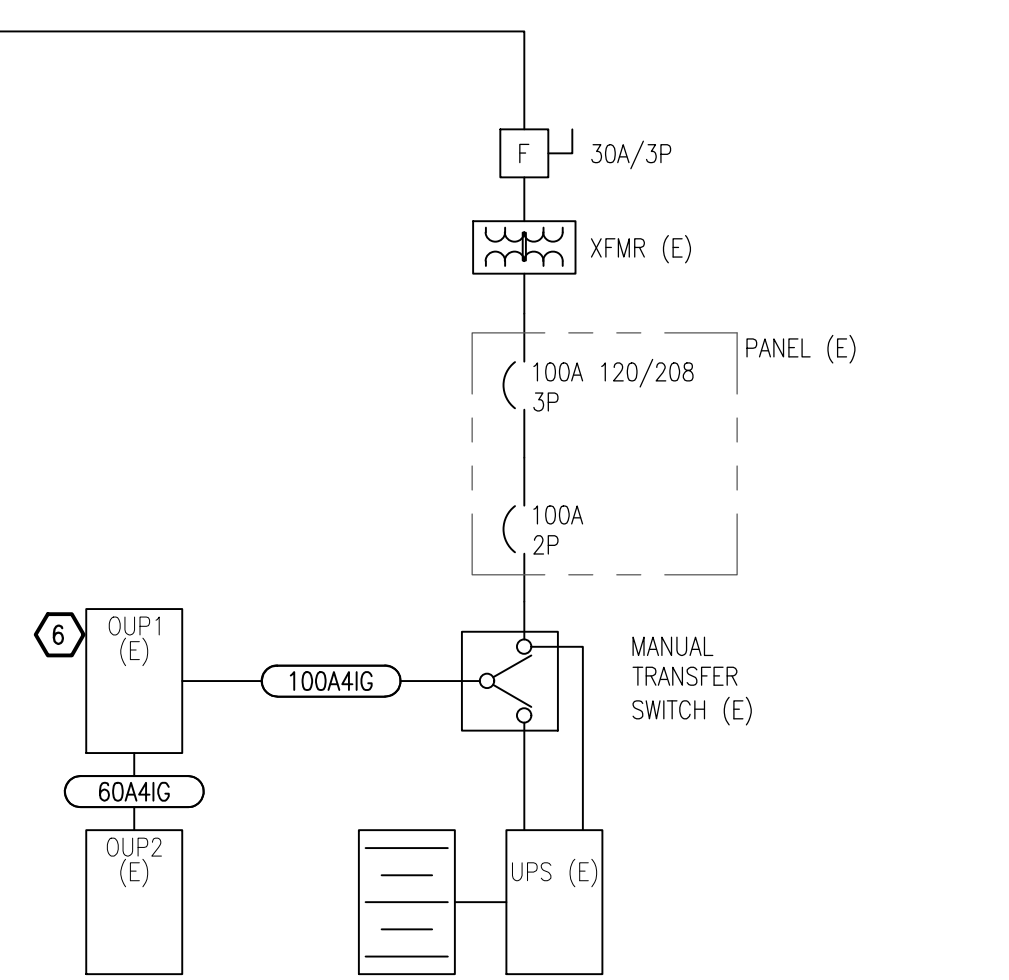
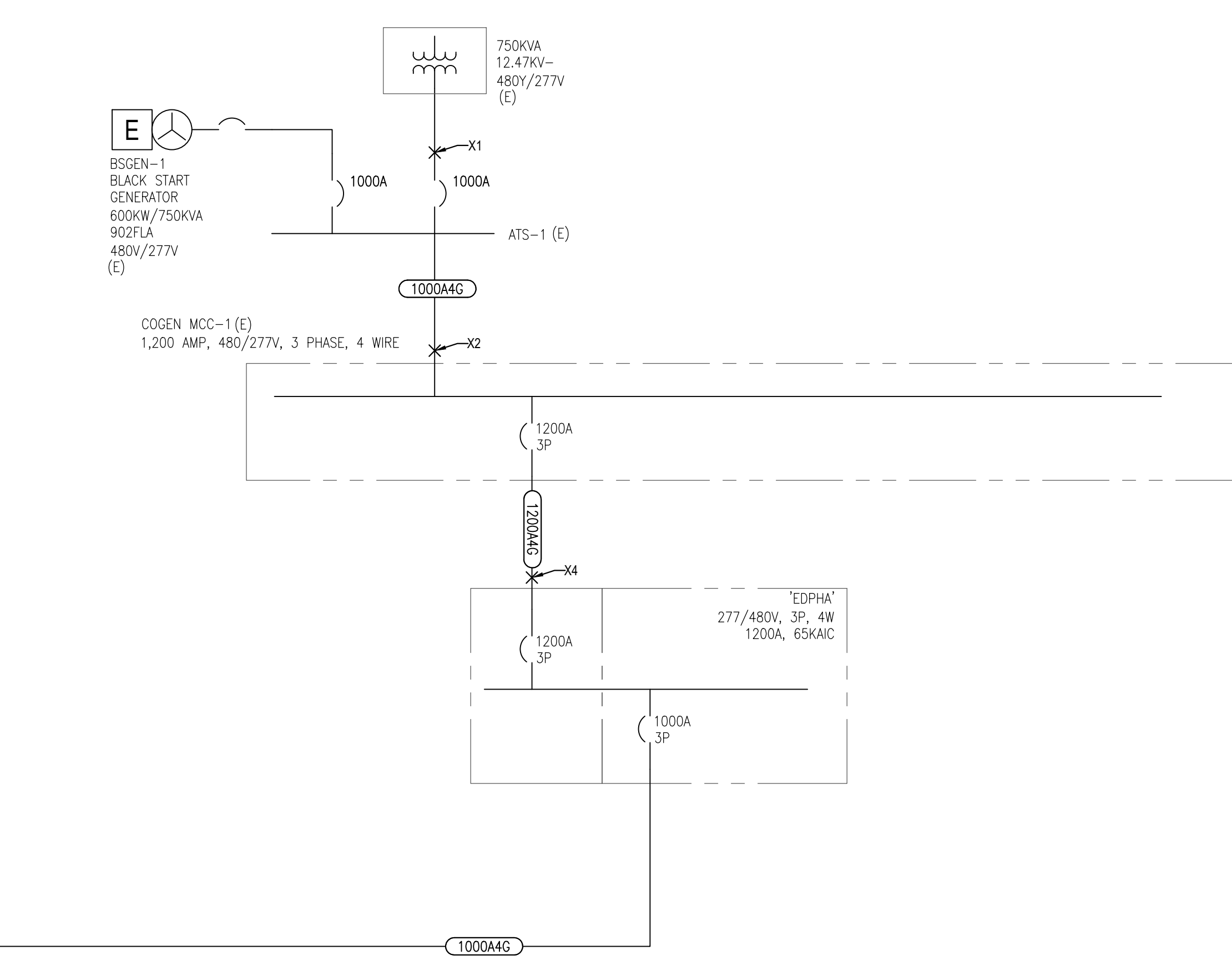
LIGHTING CONTROL SEQUENCE OF OPERATION SCHEDULE

KEY	DESCRIPTION	CONTROL SYSTEM TYPE	VACANCY (MANUAL ON, AUTO OFF)	OCCUPANCY (AUTO ON, AUTO OFF)	TIMELOCK	LOCAL SWITCHING	LOCAL DIMMING
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5/7/2019 11:13:15 AM



1 MOTOR CONTROL CENTER "MCC-5" ONE-LINE DIAGRAM
E110 SCALE: NONE



2 MOTOR CONTROL CENTER "MCC-5" ELEVATION DIAGRAM
E110 SCALE: NONE

FEEDER SCHEDULE		
KEY	CONDUIT & CONDUCTORS [SEE NOTE 1]	REMARKS
30A3GM	3/4" C - 3#10, 1#10G	NOTE 6
600A4G	2 [3" C - 4#350, 1#1G]	
1200A4G	4 [3" C - 4#350, 1#30G]	
60A3GM	1" C - 3#4, 1#10G	

FEEDER SCHEDULE NOTES:

1. THE NOMINAL CONDUCTOR AMPACITIES AND CONDUIT SIZES IN THIS FEEDER SCHEDULE ARE BASED ON COPPER CONDUCTORS, 90 DEGREE CENTIGRADE TERMINATIONS AND TYPE THW CONDUCTORS FOR SIZES #14 TO #1 AND 75 DEGREE CENTIGRADE TERMINATIONS AND TYPE THW CONDUCTORS FOR SIZES #10 AND LARGER. UNLESS NOTED OTHERWISE, CONDUIT IS SIZED BASED ON TYPE EMT CONDUIT. CONDUCTOR AMPACITIES ARE BASED ON 30 DEG C (86 DEG F) AMBIENT TEMPERATURE. USE OF OTHER CONDUIT, CONDUCTOR TYPES, AND AMBIENT TEMPERATURE CONDITIONS REQUIRES CONTRACTOR TO RE-EVALUATE CONDUCTOR AMPACITY AND CONDUIT SIZE. MODIFICATIONS MUST BE SUBMITTED FOR ENGINEER'S REVIEW AND CONFIRMATION.

SHORT CIRCUIT SCHEDULE				
Fault Contributions				
Utility contribution: 750 KVA, 480 V, 3 PH, 5.32%Z	16,957 A			
Total system motor contribution: 600 FLA	3,620 A			
Total fault current from all sources	20,577 A			
Point Fault Calculations				
POINT DESCRIPTION	Required Short Circuit Strength	Short Circuit I _{sc} 5YM RMS	Line-Line Voltage V (Note 1)	Length of Run (Note 1)
X1 Service Transformer to ATS	25,000	20,350	480	10
X2 ATS TO MCC-1	20,000	18,152	480	150
X3 MCC-1 TO TF FFP1A TF	14,000	9,779	480	50
X4 MCC-1 to SWBD EDPHA	20,000	16,489	480	140
X5 SWBD EDPHA to SWBD MDP	18,000	16,159	480	25
X6 SWBD MDP to MCC-5	18,000	15,196	480	50
X7 MCC-5 to EF-1	10,000	1,819	480	150
X8 MCC-5 to EF-2	10,000	1,819	480	150

SHEET NOTES

- LIGHT LINE WEIGHT INDICATES EXISTING (E). HEAVY LINE WEIGHT INDICATES NEW (N) CONSTRUCTION.
- POWER DISTRIBUTION LUG SIZES ARE NOT INDICATED ON THIS DRAWING. ENSURE THAT ALL LUGS ARE SIZED TO ACCOMMODATE THE FEEDERS LISTED IN THE FEEDER SCHEDULE BELOW.
- PATCH AND PAINT ANY SURFACES DAMAGED DUE TO DEMOLITION AND CONSTRUCTION TO MATCH EXISTING CONDITIONS. SEAL ALL PENETRATIONS THROUGH RATED FLOORS AND WALLS WITH UL LISTED SEALANTS AND FIRESTOPPING MATERIALS.
- THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. DATA PRESENTED ON THIS DRAWING IS AS ACCURATE AS CAN BE DETERMINED, BUT ACCURACY IS NOT GUARANTEED. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ENGINEER IS NEITHER RESPONSIBLE FOR ITS ACCURACY, NOR ERRORS NOR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DOCUMENTS. FIELD VERIFICATION OF ALL AFFECTED COMPONENTS IS REQUIRED.
- REFER TO SHEET E-200-5 FOR ELECTRICAL SCHEDULES AND EQUIPMENT SCHEDULE.
- REFER TO SHEETS E-100-5, E-101-5 AND E-104-5 FOR EQUIPMENT LOCATIONS.
- COORDINATE FAN CONTROLS WITH DIVISION 23 CONTROLS CONTRACTOR.

KEY NOTES

- ADD ALTERNATE #1: PROVIDE NEW NEMA SIZE 1 STARTER FOR NEW EXHAUST FAN IN EXISTING BUCKET SPACE. SIZE EQUIPMENT TO AIC RATING 18,000 AMPS MINIMUM.
- ADD ALTERNATE #1: PROVIDE NEW BRANCH CIRCUIT IN CONDUIT FROM MCC-5 FOR NEW 480V EXHAUST FAN. ROUTE BRANCH CIRCUIT IN CONDUIT TO FAN UNIT THROUGH DISCONNECT SWITCH.
- ADD ALTERNATE #1: DETERMINE BREAKER AND STARTER SIZE DURING OUTAGE AND UPDATE DRAWINGS.
- BRANCH CIRCUIT EXTENDED TO NEW LIGHT FIXTURE. REFER TO SHEET EL201-5 FOR DETAILS.
- RECEPTACLE RELOCATION TO MAINTAIN EXISTING BRANCH CIRCUIT IN TELECOM ROOM. REFER TO SHEET E-101-5 FOR DETAILS.
- EXISTING BRANCH CIRCUIT FOR HOIST EXTENDED TO THE FAN FLOOR. SEE EQUIPMENT SCHEDULE FOR BRANCH CIRCUIT SIZE.
- PROVIDE BRANCH CIRCUIT FROM PANEL IN CONDUIT TO DISCONNECT FOR THE NORTHEAST ROLL-UP DOOR. SEE ELECTRICAL SCHEDULE FOR PANEL DETAILS AND SHEET E-101-5 FOR DISCONNECT LOCATION.

OUTAGE NOTES

- COORDINATE AND SCHEDULE ALL ELECTRICAL OUTAGES AND OUTAGE TIME FRAMES WITH OWNER'S REPRESENTATIVE AT LEAST TWO WEEKS PRIOR TO OUTAGE.
- SUBMIT A DETAILED METHOD OF PROCEDURE (MOP) FOR OUTAGES FOUR WEEKS PRIOR TO OUTAGE.
- PERFORM OUTAGES DURING OFF HOURS AT A TIME ACCEPTABLE BY THE OWNER.
- ACCOMPLISH ALL PREP WORK PRIOR TO OUTAGE TO MINIMIZE THE OUTAGE TIME FRAME.
- PROVIDE TEMPORARY POWER FOR ALL CONSTRUCTION NEEDS.

FFKR ARCHITECTS
 730 Pacific Avenue - Salt Lake City, Utah 84104
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 MECHANICAL, ELECTRICAL, INDUSTRIAL & SUSTAINABLE DESIGN
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U OF U BLDG. 303 SEISMIC UPGRADE - PHASE 5
 SALT LAKE CITY UTAH

ADDENDUM #1
 3-22-2024

PERMIT SET - 3-5-2024



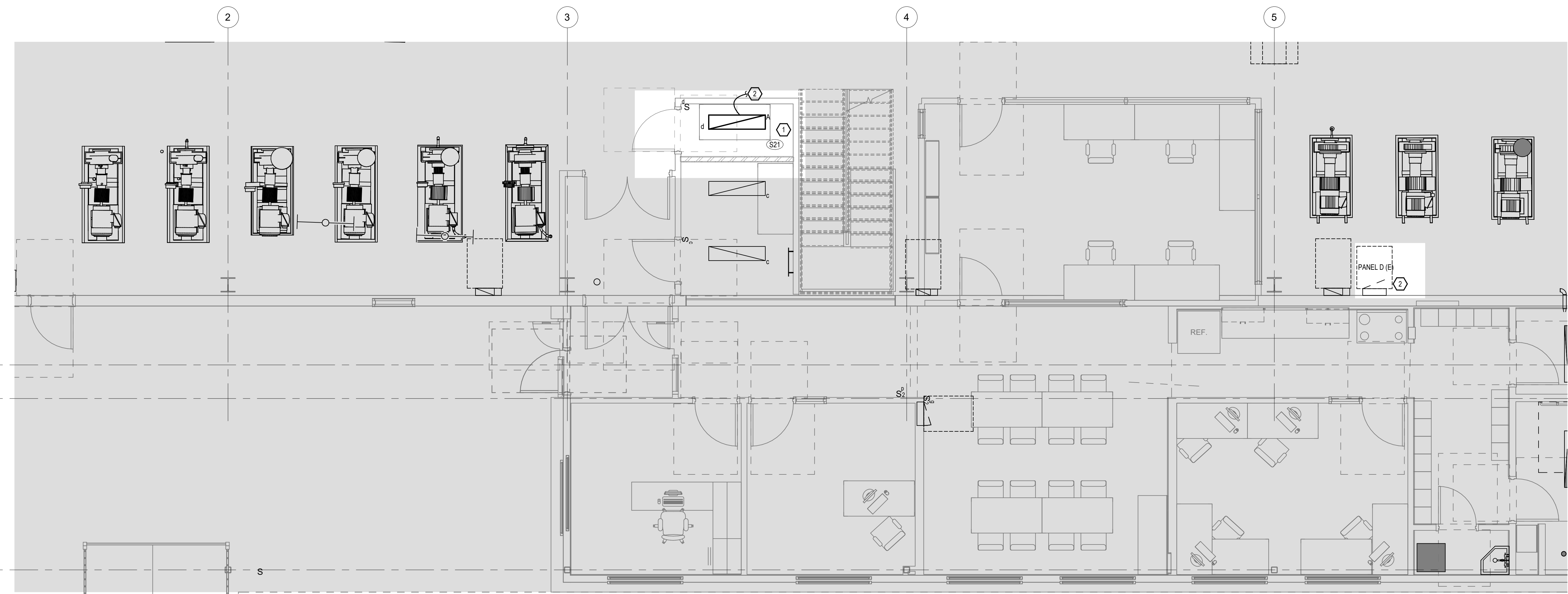
DATE	REVISION
1 03/04/24	ADD ALTERNATE 2

PROJECT NUMBER: 21486/21632

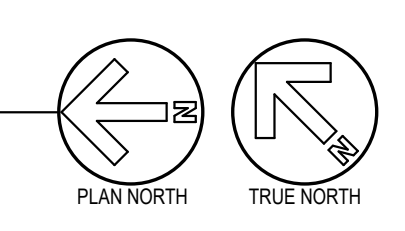
ELECTRICAL ONE-LINE

E-110-5

3/19/2024 3:00:41 PM



1 OPERATING FLOOR - ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"



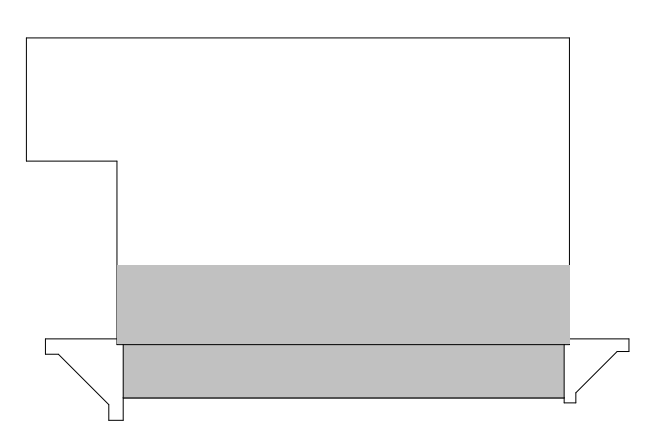
SHEET NOTES

1. LIGHT LINE WEIGHT INDICATES EXISTING (E). HEAVY LINE WEIGHT INDICATES NEW CONSTRUCTION (N).
2. PLANT SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION TO SUPPLY HIGH-TEMPERATURE WATER AND CHILLED WATER TO THE CAMPUS. SEEK PERMISSION FROM PLANT PERSONNEL PRIOR TO SHUT-OFF OR TURN-ON ELECTRICAL POWER TO PLANT EQUIPMENT.
3. PROVIDE TEMPORARY POWER FOR SMALL TOOLS AND TASK LIGHTING.
4. PATCH AND PAINT ANY SURFACES DAMAGED DUE TO DEMOLITION AND CONSTRUCTION TO MATCH EXISTING CONDITIONS. SEAL ALL PENETRATIONS THROUGH RATED FLOORS AND WALLS WITH UL LISTED SEALANTS AND FIRESTOPPING MATERIALS.
5. THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. DATA PRESENTED ON THIS DRAWING IS AS ACCURATE AS CAN BE DETERMINED, BUT ACCURACY IS NOT GUARANTEED. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ENGINEER IS NEITHER RESPONSIBLE FOR ITS ACCURACY, NOR ERRORS NOR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DOCUMENTS. FIELD VERIFICATION OF ALL AFFECTED COMPONENTS IS REQUIRED.
6. REFER TO SHEET E-110-S FOR ONE-LINE.
7. REFER TO SHEET E-200-S FOR PANEL SCHEDULES, LUMINAIRE SCHEDULE, AND LIGHTING CONTROL SEQUENCE OF OPERATION SCHEDULE.

KEY NOTES

1. PROVIDE NEW LIGHTING FIXTURE AND SWITCH IN STORAGE ROOM. PROVIDE LIGHTING CONTROLS COMPATIBLE WITH THE COOPER WAVELINK CONTROL SYSTEM CURRENTLY INSTALLED.
2. EXTEND EXISTING TELECOM ROOM LIGHTING BRANCH CIRCUIT.

KEY PLAN



U OF U BLDG. 303 SEISMIC UPGRADE, PROJ. #22436 - PHASE 5
SALT LAKE CITY UTAH

ADDENDUM #1
3-22-2024

PERMIT SET - 3-5-2024



DATE	REVISION

PROJECT NUMBER 18136

OPERATING FLOOR - ELECTRICAL LIGHTING PLAN

EL-201-5

FFKR ARCHITECTS
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