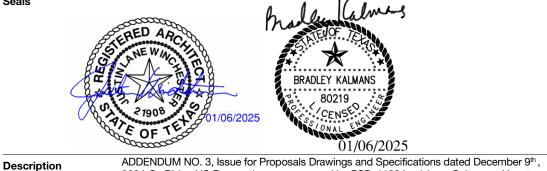
### **Addendum**

Distribution	🛛 Owner	Consultant(s)	Bidders	□ Other
From	Page South	res, AIA,NCARB erland Page, Inc. ana, Suite One K 77002	Owner	Cypress Fairbanks Independent School District
Project	2024 Cy Rid Renovation RFP 24-02-		Architect's Project No.	33AC23221
Date of Issue	6-January-2	2025	Addendum No.	003
Contract For	General Co	nstruction	For Bids Due	9-January-2025

Seals



2024 Cy Ridge HS Renovations; as prepared by PSP, 1100 Louisiana, Suite one, Houston, Texas

This ADDENDUM NO. 3 shall hereby be and become a part of the Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified and set forth in this ADDENDUM NO. 3.

Each Bidder shall acknowledge receipt of ADDENDUM NO. 3 in appropriate space on their bid form.

#### Technical Specifications – Project Manual

Se	ection No.		
1.	<ul> <li>BA - CONTRACT DOCUMENTS - A201-2017 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION AS AMENDED</li> <li>Replace the specification in its entirety.</li> <li>Revised to show deletions</li> </ul>		
2.	<ul><li>00 01 10 - TABLE OF CONTENTS</li><li>Replace the specification in its entirety</li></ul>		
3.	08 41 13 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS • Replace the specification in its entirety		
4.	<ul><li>09 51 00 - ACOUSTICAL CEILINGS</li><li>Replace the specification in its entirety</li></ul>		

5.	<ul> <li>09 65 16 - RESILIENT SHEET FLOORING</li> <li>Add the specification in its entirety</li> </ul>
6.	09 65 19 - RESILIENT TILE FLOORING
	Replace the specification in its entirety
7.	32 31 13 - CHAIN LINK FENCES AND GATES
	Add the specification in its entirety
8.	32 31 19 - DECORATIVE METAL FENCES AND GATES
	Add the specification in its entirety
9.	23 64 16 – CENTRIFUGAL LIQUID CHILLING MACHINE
	Part 2 Products, Article 2.1 Acceptable Manufacturers, Delete paragraph B. Daikin.
10.	28 10 00.05 – DOOR INTERCOM SYSTEM
	Part 2, Add the following:
	<ul> <li>Network Strobe Siren.</li> </ul>
	A. Axis D4100-E Network Strobe Siren.
	1. Connect Network Strobe Siren to associated 2N door station as indicated on
	drawings. Contractor to provide and install 1-18/4 conductor from 2N door station
	to strobe siren.
	2. When 2N door station is used the strobe shall turn green and a sound shall be
	played. Coordinate sound type and volume level with owner.
11.	28 40 00 – FIRE DETECTION AND ALARM SYSTEM
	Part 1, Revise the following
	1.1.C Expand existing fire alarm / voice evacuation system for remodel and addition. Verify and/or provide
	equipment and programming for Point-ID reporting to monitoring service
12.	27 41 16.20 – LOCAL SOUND REINFORCEMENT SYSTEMS
	Replace specification in its entirety

#### Drawings

ARCHITECTURAL				
ALL ARCHITECTURAL	01/06/2025	KEYNOTES	OMIT keynotes 198 and 199 from all sheets. Refer to the door hardware schedules on sheets A-621 – A-624.	
A-220	01/06/2025	REPLACE	ARCHITECTURAL - INTERIOR ELEVATIONS Detail 11 revised	
A-552	01/06/2025	REPLACE	ARCHITECTURAL - TRANSITION DETAILS Detail 10 revised	
A-681	01/06/2025	REPLACE	ARCHITECTURAL - INTERIORS FINISH SCHEDULE Finish Schedule was revised to remove "DCT-1"	
AC-101	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 01 & 02 Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"	
AC-101-A	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 01 – AREA A Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"	
AC-101-B	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 01 – AREA B Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"	

AC-101-C	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 01 – AREA C Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"
AC-101-D	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 01 – AREA D Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"
AC-101-E	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 01 – AREA E Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"
AC-101-F	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 01 – AREA F Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"
AC-101-G	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 01 – AREA G Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"
AC-101-H	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 01 – AREA H Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"
AC-101-I	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 01 – AREA I Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"
AC-101-J	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 01 – AREA J Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"
AC-101-K	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 01 – AREA K Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"
AC-102-A	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 02 – AREA A Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"
AC-102-B	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 02 – AREA B Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"

AC-102-C	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 02 – AREA C Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"
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AC-102-H & I	01/06/2025	REPLACE	ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 02 – AREA H & I Revised "CEILING PLAN GENERAL NOTES" Removed Keyed Notes from plan Revised "CEILING PLAN LEGEND"
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MEPT			
M-601	01/06/2025	REPLACE	MECHANICAL SCHEDULES Refer to revised sheet.
E-002-B	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA B Refer to revised sheet.
E-003-C	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA C Refer to revised sheet.
E-004-D	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA D Refer to revised sheet.
E-005-E	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA E Refer to revised sheet.
E-006-F	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA F Refer to revised sheet.
E-007-G	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA G Refer to revised sheet.

E-008-H	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA H
			Refer to revised sheet.
E-009-I	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA I Refer to revised sheet.
E-010-J	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA J Refer to revised sheet.
E-011-K	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA K Refer to revised sheet.
E-013-B	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 2 - AREA B Refer to revised sheet.
E-014-C	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 2 - AREA C Refer to revised sheet.
E-015-D	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 2 - AREA D Refer to revised sheet.
E-016-E	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 2 - AREA E Refer to revised sheet.
E-019-H	01/06/2025	REPLACE	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 2 - AREA H Refer to revised sheet.
E-103	01/06/2025	REPLACE	ELECTRICAL ENLARGED FLOOR PLANS – PRESSBOXES Refer to revised sheet.
E-104	01/06/2025	REPLACE	ELECTRICAL ENLARGED FLOOR PLANS – CONCESSIONS Refer to revised sheet.
E-105	01/06/2025	REPLACE	ELECTRICAL ENLARGED FLOOR PLANS - FIELD STORAGE Refer to revised sheet.
E-106	01/06/2025	REPLACE	ELECTRICAL DEMOLITION COMPOSITE FLOOR PLANS Refer to revised sheet.
E-107	01/06/2025	REPLACE	ELECTRICAL NEW COMPOSITE FLOOR PLANS Refer to revised sheet.
E-201- D	01/06/2025	REPLACE	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA D Refer to revised sheet.
E-202-F	01/06/2025	REPLACE	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA F Refer to revised sheet.
E-203-G	01/06/2025	REPLACE	ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA G Refer to revised sheet.

LEVEL 1 Refer to revised sheet.E-40101/06/2025REPLACEELECTRICAL ENLARGED DEMOLITION PLANS - LEVEL 2 Refer to revised sheet.E-40201/06/2025REPLACEELECTRICAL ENLARGED FLOOR PLANS - LEVEL 1 Refer to revised sheet.E-40301/06/2025REPLACEELECTRICAL ENLARGED FLOOR PLANS - LEVEL 1 Refer to revised sheet.E-40401/06/2025REPLACEELECTRICAL ENLARGED PLAOR PLANS - SERVICE YARD - 3 CELL Refer to revised sheet.E-40501/06/2025REPLACEELECTRICAL ENLARGED PLANS - SERVICE YARD - 3 CELL Refer to revised sheet.E-40501/06/2025REPLACEELECTRICAL ENLARGED PLANS - SERVICE YARD - 2 CELL Refer to revised sheet.E-50201/06/2025REPLACEELECTRICAL ENLARGED PLANS - SERVICE YARD - 2 CELL Refer to revised sheet.E-50301/06/2025REPLACEELECTRICAL NEW ONE-LINE Refer to revised sheet.E-50301/06/2025REPLACEELECTRICAL NEW EMERGENCY ONE-LINE Refer to revised sheet.E-60101/06/2025REPLACEELECTRICAL NEW EMERGENCY ONE-LINE Refer to revised sheet.E-60201/06/2025REPLACEELECTRICAL PANEL SCHEDULES Refer to revised sheet.E-60301/06/2025REPLACEELECTRICAL PANEL SCHEDULES Refer to revised sheet.				
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T-209-I	01/06/2025	REPLACE	TECHNOLOGY FLOOR PLAN – LEVEL 01 Refer to revised sheet.

#### END OF ADDENDUM

This Addendum is hereby incorporated into the Contract Documents for the Project referenced above, modifying and superseding any previously issued Contract Documents. Bidders must acknowledge receipt of **Addendum 2** in the bid form.

# **AIA** Document A201° – 2017

## General Conditions of the Contract for Construction

#### for the following PROJECT:

(Name and location or address)

2024 Cy Ridge HS Renovation CFISD Project Number: 24-02-5752R-RFP Architect Project No. 33AC23221

### **CAMPUS ADDRESS:**

7900 N. Eldridge Pkwy., Houston, Texas 77041

### THE OWNER:

(Name, legal status and address)

Cypress-Fairbanks Independent School District 11430-B Perry Road Houston, Texas 77064 Telephone Number: 281-897-4108 Fax Number: 281-897-3806

THE ARCHITECT: (Name, legal status and address)

**Page Architects** 1100 Louisiana Street, Suite One Houston, Texas 77002

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For guidance in modifying this document to include supplementary conditions, see AIA Document A503<sup>™</sup>, Guide for Supplementary Conditions

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#### ARTICLE 1 **GENERAL PROVISIONS**

§ 1.1 Basic Definitions

#### § 1.1.1 The Contract Documents

The Contract Documents are enumerated in the Agreement between the Owner and Contractor as amended (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract, as amended (General, Supplementary and other Conditions), Performance Bond, Labor and Materials Payment Bond and Proof of Insurance, Contractor's Proposal, Drawings, Specifications, all Addenda issued prior to execution of the Agreement and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive or a Change Proposal Request, or (4) a written order for a minor change in the Work issued by the Architect.

#### § 1.1.2 The Contract

The Contract Documents form the Contract for Construction. This agreement, as amended, represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Construction Documents become part of the Contract when accepted by the Owner. All sections of the Project Manual shall be a part of the Contract, including any Proposal signed by the Contractor, and any Request for Proposals for the Project ("RFP"). The Contract may be amended or modified only by a written Modification signed by the Owner. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

#### § 1.1.3 The Work

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

It also includes all supplies, skill, supervision, transportation services, storage requirements and other facilities and things necessary, proper or incidental to the carrying out and completion of the terms of the contract and all other items of cost or value needed to produce, construct and fully complete the public work identified by the Contract Documents.

#### § 1.1.4 The Project

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by Separate Contractors.

#### § 1.1.5 The Drawings

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.

#### § 1.1.6 The Specifications

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

#### (Paragraphs deleted)

#### § 1.1.7 The Project Manual

The Project Manual is a volume assembled for the Work which may include the bidding or proposal requirements, sample forms, Conditions of the Contract and Specifications.

#### § 1.1.8 Addenda

Addenda are written or graphic instruments issued prior to the execution of the Contract which modify or interpret the Proposal Documents, including Drawings and Specifications, by additions, deletions, clarifications or corrections. Addenda will become part of the Contract Documents when the Construction agreement is executed. The successful Contractor and his Subcontractors shall post all addendum items on their sets of Drawings and Specifications.

#### § 1.1.9 Approved Equal, Approved Equivalent or Equal

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The terms Approved and Approved Equivalent relate to the substitution of products or systems approved in writing by the Architect. Refer to Paragraph 3.19 Substitution of Products and Systems for procedure which must be followed.

#### § 1.1.10 Proposal Documents

Proposal Documents consist of all documents bound into or referenced in the Project Manual, the Drawings, and Addenda related thereto. The Project Manual contains the Proposal Requirements, Sample Forms, Conditions of the Contract, the Specifications, and a list of Drawings, and Schedules, some of which are bound into the Project Manual (Other Drawings and Schedules are bound separately).

#### § 1.1.11 Miscellaneous Other Words

The terms "Bids" or "Bidding" mean Competitive Sealed Proposal, which by definition allows the Owner to accept the "best value" for the school district, based on factors other than cost.

#### § 1.2 Correlation and Intent of the Contract Documents

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

#### (Paragraph deleted)

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

#### § 1.2.4 Precedence of the Contract Documents

The most recent issued Document takes precedence over the previous issued forms of the same Document. The order of precedence is as follows with the highest authority listed first.

- .1 The Agreement
- .2 The Addenda

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.3 Conditions of the Contract, Drawings and Specifications shall have equal authority. Should these documents disagree in themselves, the Architect will select the appropriate method for performing the work at no additional increase in the Contract Cost.

In the case of an inconsistency between the Drawings and Specifications or within either set of Documents discovered prior to Proposal Time but too late to be clarified by an Addendum, the better quality or greater quantity of work shall be included in the proposal. Clarification of the inconsistency will be accomplished with Contractor after award of the Contract, and if necessary, an appropriate reduction in the Contract will be accomplished by Change Order.

#### § 1.2 5 Relation of Specifications and Drawings

The Drawings and Specifications are correlative and have equal authority and priority. Should they disagree in themselves, or with each other, base the proposals on the most expensive combination of quality or quantity of work indicated. The appropriate method of performing the Work, in the event of the above-mentioned disagreements, will be made by the Architect.

#### § 1.2.6 Optional Materials, Brands and Processes

When more than one is specified for a particular item of Work, the choice shall be the Contractor's. The final selection of color and pattern will be made by the Architect from the range available within the option selected by the Contractor, unless the item is specified to match a specific color or sample furnished. Where particular items are specified only products of those named manufacturers are acceptable. Certain specified construction and equipment details may not be regularly included as part of the named manufacturer's standard catalog equipment but shall be provided by the manufacturer as required for the proper functioning of the equipment. Reasonable minor variations in equipment are expected and will be acceptable; however, indicated and specified performance and material requirements are minimum, and will be required in addition to standard accessories. The Architect reserves the right to determine the equality of equipment and materials that deviate from any of the indicated and specified requirements.

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#### § 1.2.7 Standards and Requirements

When the Contract Documents refer to standards, building codes, manufacturers' instructions, or other documents, unless otherwise specified, then the current edition as of the date of execution of the Agreement by the last party to execute said Agreement shall apply. It shall be the responsibility of the Architect to address revisions or amendments to applicable codes or standards which arise after the date of execution of the Agreement and until Final Completion, pursuant to the terms of the Agreement between Owner and Architect. Requirements of public authorities apply as minimum requirements only and do not supersede more stringent specified requirements.

#### § 1.3 Capitalization

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles, or (3) the titles of other documents published by the American Institute of Architects.

#### § 1.4 Interpretation

In the interest of brevity, the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

#### § 1.5 Execution of Contract Documents

§ 1.5.1 The Contract Documents shall be signed by the Owner and Contractor. If either the Owner or Contractor or both do not sign all the Contract Documents, the Architect shall identify such unsigned Documents upon request.

§ 1.5.2 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements to the Contract Documents. If an approved Contact Document requiring Contractor's signature has not been signed, then the missing signature shall be provided within a reasonable period of time. Failure of Contractor to sign an approved Contract Document after notice and a reasonable opportunity to sign, shall be considered a material breach of the Contract by Contractor.

#### § 1.6 Ownership and Use of Drawings, Specifications and Other Instruments of Service

§ 1.6.1 The Drawings, Specifications and other documents, including those in electronic form, prepared by the Architect and the Architect's consultants are Construction Documents through which the Work to be executed by the Contractor is described. All ownership rights, whether common law, statutory, or other reserved rights, including copyright ownership of the Construction Documents, are controlled by the Agreement between the Owner and Architect. The Contractor may retain one record set. Neither the Contractor nor any Subcontractor, Sub-subcontractor or material or equipment supplier shall own or claim a copyright in the Drawings, Specifications and other documents prepared by the Architect or the Architect's consultants. The Drawings, Specifications and other documents prepared by the Architect and the Architect's consultants, and copies thereof furnished to the Contractor, are for use solely with respect to this Project. They are not to be used by the Contractor or any Subcontractor, Sub-subcontractor or material or equipment supplier on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner. The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are authorized to use and reproduce applicable portions of the Drawings, Specifications and other documents prepared by the Architect and the Architect's consultants appropriate to and for use in the execution of their Work under the Contract Documents. All copies made under this authorization shall bear the statutory copyright notice, if any, shown on the Drawings, Specifications and other documents prepared by the Architect and the Architect's consultants. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of any copyrights or other reserved rights.

#### (Paragraphs deleted)

#### § 1.7 Miscellaneous Other Definitions

#### § 1.7.1 Alternate Proposal(s)

A separate amount stated on the Proposal Form which, if accepted by the Owner, will be added to or deducted from the Base Proposal. If accepted, the work that corresponds to the alternate proposal will become part of the Agreement between Owner and Contractor. Alternate proposals shall remain valid for a period of 120 days after receipt of proposals, unless otherwise modified, regardless if an Owner Contractor Agreement has been executed, unless indicated otherwise herein.

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#### § 1.7.2 Base Proposal

The Contractor's proposal for the Work, not including any Alternates.

#### § 1.7.3 Contract Time

The period of time which is established in the Contract Documents for Substantial Completion of the Work. This period of time is not subject to adjustment or extension without the written permission of the Owner.

#### § 1.7.4 Date of Agreement

The date the Owner formally awards a Contract for Construction of the Work. This date will be inserted on the first page of the Agreement Between Owner and Contractor and shall be referenced in Performance Bond and Payment Bond forms. See also Date of Commencement of the Work.

#### § 1.7.5 Date of Commencement of the Work

The commencement date shall be the date the contract award is approved by the CFISD Board of Trustees. This date constitutes day zero ("0") of Contract Time.

#### § 1.7.6 Date of Final Completion

The end of construction. Refer to Section 9.10.

#### § 1.7.7 Day

The following days are referenced in the documents:

- Calendar Days: The days of the Gregorian Calendar. The Contract Time is established in Calendar .1 Days and extensions of time granted for Regular Work Days lost, in excess of anticipated delay day allowance, will be converted to Calendar Days.
- .2 Holidays: The days officially recognized by the construction industry and/or Owner approved holidays, in this area as a holiday; normally limited to the observance days of New Year's Day, Martin Luther King, Jr. Day, Good Friday, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and the Friday after, Christmas Eve, Christmas Day and New Year's Eve day.
- .3 Regular Work Days: All calendar days except holidays, Saturdays, and Sundays. Requests for extensions of time shall be requested, after expenditure of the Anticipated Delay Day Allowance, on the basis of Regular Work Days, and those days, if approved; will be converted to calendar days by multiplying by a factor of one and four-tenths (1.4). The Contractor is advised to refer to Section 01 35 23.1, Special Owner Requirements regarding after hours use of the premises.
- .4 Anticipated Delay Days Allowance: An allowance of Fifteen (15) Regular Work Days per year (or two (2) regular work days per month, whichever is less) is established as probable days lost due to delays beyond the Contractor's control. This allowance includes District testing dates and any other days the district directs the contractor to not perform work due to unspecified campus events. This additional Delay day allowance does not include anticipated weather days as indicated in section 8.3., also does not include Holidays as indicated in Section 1.7.7.2. These days for weather and holidays are to be added to this additional delay day allowance and are to be calculated in accordance with their respective section as indicated elsewhere in these general conditions to establish the grand total of the anticipated delay day allowance.
- Evaluation of Delay Days: The Architect and Owner will evaluate delays claimed by the Contractor based on the Critical Path of the Contractor's construction schedule, and if the Architect is in agreement that a Critical Path task has been delayed due to circumstances beyond the Contractor's control, the accepted delay days will be deducted from the Anticipated Delay Day Allowance.
- .6 Delay Days: Regular Work Days when circumstances beyond the Contractor's control prevent progress on major portions of the Work as described in Paragraph 8.3, Delays and Extensions of Time, in the General Conditions of the Contract for Construction.

#### § 1.7.8 Notice to Proceed

A notice that may be given on behalf of the Owner to the Contractor, through the Architect, that directs the Contractor to start the Work. It also establishes the Date of Commencement of the Work.

#### § 1.7.9 Provide

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Whenever the word "provide" is used in these documents, it shall mean the same as "furnish and install."

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#### § 1.7.10 Punch List

A comprehensive list prepared by the Contractor prior to Substantial Completion to establish all items to be completed or corrected; this list may be supplemented by the Architect or Owner. Refer to Article 9.8.

#### ARTICLE 2 OWNER

### § 2.1 General

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§ 2.1.1 The Owner is the independent school district identified in the Contract Documents. The Board of Trustees, by majority vote, is the only representative of the Owner, an independent school district, having the power to: enter into a contract; amend a contract; approve changes in the scope of the Work; approve and execute a Change Order or Construction Change Directive modifying the Contract Sum; agree to an extension to the date of Substantial or Final Completion; or terminate a contract. The Board designates authorized representatives to act on its behalf for day-to-day operations under the Contract. Unless otherwise designated in the Contract Documents, Owner's authorized representative shall be the Superintendent of Schools, who may delegate responsibilities as appropriate. Owner's Board of Trustees hereby delegates to the Superintendent of Schools or designee the authority to approve changes to the Work where such changes are within the Owner's Betterment Allowance or other designated Allowances stipulated in the Contract Documents and also the authority to approve any Change Order which does not exceed \$249,999.99 and the authority to approve any and all time extensions to the Contract. Any Change Order that is valued at or above \$250,000 shall require Board approval in accordance with Local Board Policy. Except as otherwise provided in the Contract Documents, the Architect does not have such authority. Neither Architect nor Contractor may rely upon the direction of any employee of Owner who has not been designated in writing in the Contract Documents. Owner shall not be financially responsible for actions taken by the Architect or Contractor in reliance upon direction from unauthorized persons.

§ 2.1.2 It shall be distinctly understood that by virtue of this Contract, neither the Contractor nor any contractor, subcontractor, sub-subcontractor, consultant, design professional, mechanic, material person, artisan, or laborer, skilled or unskilled, shall ever in any manner have, claim, or acquire any lien upon the buildings or any of the improvements of whatsoever nature or kind so erected or to be erected by virtue of this Contract or upon any of the land on which said buildings or any of the improvements are so erected, built, or situated. It shall be further understood that this Contract is not written for the benefit of third parties nor shall it be construed to create any third party beneficiaries.

#### § 2.2 Information and Services Required of the Owner

§ 2.2.1 Prior to commencement of the Work, the Contractor may request in writing that the Owner provide reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. Thereafter, the Contractor may only request such evidence if (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) a change in the Work materially changes the Contract Sum; or (3) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due. The Owner shall furnish such evidence as a condition precedent to commencement or continuation of the Work or the portion of the Work affected by a material change. After the Owner furnishes the evidence, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.2 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.2.3 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to reasonably rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work, shall exercise due diligence in attempting to located underground utilities, and shall notify the Owner and Architect of any discrepancies between the surveys and actual conditions of the site that Contractor observes or should observe in the exercise of ordinary care.

§ 2.2.4 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and

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relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.2.5 Refer to Section CB, Supplementary Conditions, for quantities of plans and project specifications to be furnished to the Contractor.

#### § 2.3 Owner's Right to Stop the Work

#### (Paragraphs deleted)

§ 2.3.1 If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

#### § 2.4 Owner's Right to Carry Out the Work

§ 2.4.1 If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within seven (7) Calendar Days after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, immediately correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect or failure. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner.

#### § 2.5 Owner's Right to Occupy the Project

§ 2.5.1 The Owner shall have the right to occupy or use without prejudice to the right of either party, any completed or largely completed portions of the project, notwithstanding the time for completing the entire work or such portions may not have expired. Such occupancy and use shall not constitute acceptance of any work not in accordance with the Contract Documents and Contractor shall be responsible for insurance, utilities and security until Substantial Completion of the entire project.

§ 2.5.2 Refer to Article 11 - Insurance and Bonds regarding property insurance requirements in the event of such occupancy.

#### **ARTICLE 3** CONTRACTOR

#### § 3.1 General

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents in a good and workmanlike manner and in an expeditious and economical manner consistent with the interest of the Owner; shall exercise the degree of care, skill, and diligence in the performance of the Work in accordance with and consistent with industry standards for similar projects; shall utilize its best skill, effort, and judgment in diligently performing the Work; and shall furnish efficient business administration and supervision. Workmanship shall be of a quality to produce satisfactory results.

§ 3.1.3 The Contractor shall not be relieved of its obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

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#### § 3.2 Review of Contract Documents and Field Conditions by Contractor

§ 3.2.1 The Contractor shall carefully study and compare the Agreement, Conditions of the Contract, Drawings, Specifications, Addenda, Modifications, and information provided by the Owner and shall at once report to the Architect any error, inconsistency, or omission he may discover. Contractor shall be liable for any damage to Owner for failure to report any error, inconsistency or omission he may discover or should have discovered, but he shall not be liable to Owner or Architect for any damage resulting for such error, inconsistency or omission which he did discover and at once so reported. Contractor shall not perform any work without approved Drawings and Specifications issued by the Architect.

§ 3.2.2 Any design errors or omissions noted by the Contractor during this review shall be reported promptly to the Architect, but it is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional unless otherwise specifically provided in the Contract Documents. The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, building codes, and rules and regulations, but any nonconformity discovered by or made known to the Contractor shall be reported promptly to the Architect.

§ 3.2.3 If the Contractor believes that additional cost or time is involved because of clarifications or instructions issued by the Architect in response to the Contractor's notices or requests for information pursuant to Sections 3.2.1 and 3.2.2, the Contractor shall make Claims as provided in Sections 4.3.6 and 4.3.7. If the Contractor fails to perform the obligations of Sections 3.2.1 and 3.2.2, the Contractor shall pay such costs and damages to the Owner as would have been avoided if the Contractor had performed such obligations. The Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents or for differences between field measurements or conditions and the Contract Documents unless the Contractor recognized such error, inconsistency, omission or difference and knowingly failed to report it to the Architect.

#### (Paragraphs deleted)

§ 3.2.4 The Contractor shall take field measurements and verify field conditions and shall carefully compare such fields measurements and conditions and other information known to the Contractor with the Contract documents before commencing activities. Errors, inconsistencies or omissions discovered shall be reported to the Architect at once.

§ 3.2.5 The Contractor shall not be entitled to additional compensation for the "rework portion" of any additional work caused by his failure to carefully study and compare the contract documents prior to execution of the Work.

§ 3.2.6 The Contractor shall make a reasonable attempt to interpret the Contract Documents before asking the Architect for assistance in interpretation. The Contractor shall not ask the Architect for observation of work prior to the Contractor's field superintendent's personal inspection of the work and his determination that the work complies with the Contract Documents. The Contractor shall arrange meetings prior to commencement of the work of all major subcontractors to allow the subcontractor to demonstrate his understanding of the documents to the Architect/Owner and to allow the subcontractor to ask for any interpretation he may require.

§ 3.2.7 If, in the opinion of the architect, the Contractor does not make a reasonable effort to comply with the above requirements of the Contract Documents and this causes the Architect or his Consultants to expend an unreasonable amount of time in the discharge of the duties imposed on him by the Contract Documents, then the Contractor shall bear the cost of compensation for the Architect's additional services made necessary by such failure. The Architect will give the Contractor prior notice of intent to bill for additional services related to above requirements before additional services are performed.

§ 3.2.8 If the Contractor has knowledge that any of the products or systems specified will perform in a manner that will limit the Contractor's ability to satisfactorily perform the work or to honor his Warranty, he shall promptly notify the Architect in writing, providing substantiation for his position. Any necessary changes, including substitution of materials, shall be accomplished by appropriate Modification.

#### § 3.3 Supervision and Construction Procedures

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. If the Contract Documents give specific instructions concerning

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construction means, methods, techniques, sequences or procedures, the Contractor shall evaluate the jobsite safety thereof and, except as stated below, shall be fully and solely responsible for the jobsite safety of such means, methods, techniques, sequences or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely written notice to the Owner and Architect and shall not proceed with that portion of the Work without further written instructions from the Architect. If the Contractor is then instructed to proceed with the required means, methods, techniques, sequences or procedures without acceptance of changes proposed by the Contractor, the Contractor shall not be responsible for any resulting loss or damage arising solely from those Owner-required means, methods, techniques, sequences or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.3.1 The Contractor is especially cautioned to coordinate the routing of all mechanical, plumbing and electrical items and provide coordinating drawings in accordance with provisions of the Contract Documents prior to commencing these operations.

§ 3.3.4 Contractor shall document existing facility conditions and systems onsite prior to performing any work with video recording and/or photographs and shall test said systems to identify any pre-existing deficiencies in the presence of the Owner, Architect/Engineer. Any items not noted or identified in this documentation or brought the attention of the Owner in writing will be assumed to be in working order and any problems with such systems will be the responsibility of the Contractor to correct and repair to the pre-contract condition or better.

§ 3.3.5 Prior to performing any work, the Contractor shall locate all utility lines as shown on the plans and specifications, including telephone company lines and cables, sewer lines, water pipes, gas lines, and electrical lines, and shall perform the Work in such a manner as to avoid damaging any such lines, cables, pipes and pipelines. In addition, the Contractor shall independently determine the location of same.

#### § 3.4 Labor and Materials

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, eligible to work in accordance with state and federal law. In addition, unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work authorized by the Architect in accordance with Sections 3.12.8 or 7.4, the Contractor may make substitutions only with prior written consent of the Owner, after evaluation by the Architect and in accordance with a Change Order, Construction Change Directive, or Change Proposal Request.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

#### § 3.5 Warranty

#### (Paragraphs deleted)

§ 3.5.1 The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

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The Contractor is solely responsible for, and shall provide written proof of maintenance, service, and protection of materials and equipment installed prior to Substantial Completion.

§ 3.5.2 In the event of failure of materials, products, or workmanship, either during construction or the warranty period (as specified in Section 3.5.5), the Contractor shall take appropriate measures to assure correction or replacement of the defective items, whether notified by the Owner or Architect. Items of work first performed after Substantial Completion shall have their warranties extended by the period of time between Substantial Completion and the actual performance of the Work. Such warranties shall be submitted to owner in writing, documenting such time extensions. This warranty period shall not restrict or modify extended warranties called for or provided on systems, equipment or other specific portions of the work.

§ 3.5.3 Contractor shall establish a spreadsheet-type Warranty Work tracking format included in the Project Manual and shall verify and certify completion of each warranty work item.

§ 3.5.4 Approximately six (6) and eleven (11) months after Substantial Completion, the Contractor shall accompany the Owner and Architect on a complete re-inspection of the Project and be responsible for correcting any additional deficiencies observed or reported, including any uncompleted Punch List Items or outstanding or incomplete Warranty Items.

§ 3.5.5 The Warranty Period for this Project is One (1) Year from the date of Substantial Completion except for any extended warranties as specified herewith in the Contract Documents

§ 3.5.6 The warranty period shall extend one (1) year on specific items of work (materials and labor) if warranty work is performed on a specific item or work that requires the issuance of a second warranty work request within ninety (90) days after the original warranty work request was issued.

§ 3.5.7 Warranty work shall be performed within ten (10) working days after the Contractor receives a request for warranty work, except where immediate responses are required as described below:

- .1 For work which is identified as affecting life safety, fire alarm or security of the occupants and/or the facility on the warranty request, on-site corrective work shall begin immediately after receipt of the warranty work request by the Contractor, 365 days per year, twenty-four (24) hours per day.
- .2 For work affecting the operation of the HVAC system, domestic water heaters, elevators and food service equipment (except walk-in refrigeration and/or freezer equipment), on-site corrective work shall begin within six (6) hours of Contractor's receipt of warranty work, 365 days per year 24 hours per day.
- .3 For walk-in refrigeration and/or freezer equipment, on-site corrective work shall begin within four (4) hours of Contractor's receipt of warranty work, 365 days per year, 24 hours per day.

§ 3.5.8 For warranty work requiring immediate response as described in 3.5.7 above, the Contractor shall maintain or contract for an answering service available 365 days per year, 24 hours per day.

§ 3.5.9 Warranty work shall be completed within six (6) hours after the initiation of on-site corrective work unless additional time is reasonably required, and the Owner has agreed on the additional time frame deemed necessary by the Contractor.

§ 3.5.10 The Owner reserves the right to complete any warranty work that Contractor fails to complete in the specified time period. Owner will backcharge Contractor for the cost of such work, including Consultants' fees.

#### § 3.6 Taxes

§ 3.6.1 The Owner is exempt from the Texas Sales Tax on any purchase of tangible personal property and utilities and will issue Certificates of Exemption from the Texas Sales Tax on materials furnished by Contractors on School Construction projects. The Contractor shall give a written statement to the Owner (with a copy to the Architect) as to the proration of costs of skilled crafts, labor and materials for the project prior to awarding of a Construction Contract. The Contractors shall obtain Certificates of Resale from their suppliers in order to avoid payment of the State Sales Tax on materials incorporated in School jobs. Failure of the Contractor to obtain Certificates of Resale from their suppliers shall make the Contractor responsible for absorbing the tax.

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#### § 3.7 Permits, Fees, Notices and Compliance with Laws

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.1.1 The Owner will pay directly or to the governing authority directly from the Allowance, the cost of all permanent connection charges, including water and sewer tap charges and the provision and installation of the irrigation meter and the domestic water meter and vault. The Owner will pay directly to the governing authority the cost of all non-taxable entity fees, capacity charges, drainage impact fees and permanent utility account deposits.

§ 3.7.1.2 The Contractor shall pay directly all temporary utility connection charges, including utility district/company inspection, survey, and permit fees for both temporary and permanent connections.

§ 3.7.1.3 The Contractor shall include in the Base Proposal, the cost for providing all backflow preventers, fire sprinkler system backflow preventers, meters, vaults, valves, taps, and piping from taps for domestic water, irrigation, and fire sprinkler systems.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 It is neither the Contractor's responsibility nor the Owner's responsibility to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations. However, if the Contractor observes or should have observed, that portions of the Contract Documents are at variance therewith, the Contractor shall promptly notify the Architect and Owner in writing, and necessary changes shall be accomplished by appropriate modification.

#### (Paragraphs deleted)

§ 3.7.4 If the Contractor performs Work which he knew or should have known it to be contrary to laws, statutes, ordinances, building codes, and rules and regulations without such notice to the Architect and Owner, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

#### § 3.8 Allowances

§ 3.8.1 The General Contractor shall include in his proposal all allowances stated in the Specifications.

These stated allowances represent the cost estimate of the materials and equipment delivered and unloaded at the site. The Contractor's supervision, handling costs, estimating costs, miscellaneous fees, overhead, profit, clean-up, as-builts, warranty, and other expenses contemplated for the allowance material and equipment shall be included in allowances only where called for in the various sections of these specifications.

The Contractor shall purchase the allowance materials and equipment as directed by the Architect, upon approval by the Owner, on the basis of the lowest reasonable proposal of at least three (3) competitive proposals unless otherwise directed by Owner. If the actual cost of the materials and equipment delivered and unloaded at the site is more than all the allowance estimates, the Contract Sum will be adjusted by Change Order.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

- Allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and .1 all required taxes, less applicable trade discounts;
- .2 Contractor's costs for unloading and handling at the site, labor, installation costs, miscellaneous fees, overhead, profit and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and
- .3 Whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner in sufficient time to avoid delay of the Work.

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#### § 3.9 Superintendent

§ 3.9.1 The General Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work including punch list work. The Superintendents and Project Manager shall be satisfactory to the Owner and Architect and shall not be changed except with the consent of the Owner and Architect, unless the Superintendent leaves the employment of the Contractor. No increase in Contract Time or Contract Sum shall be allowed in the event the Owner or Architects objects to any nominated superintendent or project manager. The superintendent and project manager shall represent the Contractor, and communications given to the superintendent and/or project manager shall be as binding as if given to the Contractor.

#### (Paragraphs deleted)

§ 3.9.2 The Contractor shall furnish to the Owner and the Architect in writing the names and professional qualifications of the persons proposed by the Contractor as the project manager and superintendent with the submitted proposal. The Contractor shall not assign nor substitute any person as the project manager or superintendent to whom the Owner or the Architect has made reasonable objection. No increase in Contract Time or Contract Sum shall be allowed in the event the Owner or Architect objects to any nominated project manager and/or superintendent. The Contractor's submittal of the project manager and superintendent's professional qualifications with his proposal represent the Contractor's acknowledgement that the selection committee's evaluation of the Contractor's proposal includes said superintendent's qualifications and the understanding that said job superintendent will remain on site, full time, until the Architect and Owner have agreed that all punch list work has been completed. See also, Specification Section 01 35 23 - Special Owner Requirements, for additional job superintendent requirements. In addition, the Owner reserves the right to perform a criminal records history review of the proposed superintendent and other Contractor personnel prior to the Contract Award as may be deemed necessary.

§ 3.9.3 Contractor will be required to keep the job superintendents on each job-site during the course of the construction until completion of all punch list items. In the event the job superintendents is absent from any job site at any time during the project contract time or during punch list completion and an agreed upon substitute is not provided, the Owner may backcharge the Contractor \$250.00 per occurrence.

§ 3.9.4 The Contractor shall notify the Owner and Architect at the beginning of the work day if the superintendent is out sick. If the superintendent is to be out for any other reason, the Owner and Architect are to be notified at least 24 hours in advance. In both cases the Owner and Architect are to be informed of the name of the acting superintendent.

#### § 3.10 Contractor's Construction Schedules

§ 3.10.1 The Contractor shall, within the time frame specified in Section 01 32 16, prepare and submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall not exceed time limits current under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

§ 3.10.2 The Contractor shall prepare a submittal schedule, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, and shall submit the schedule(s) for the Architect's approval. The Architect's approval shall not unreasonably be delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.10.4 The Contractor will provide a detailed critical path construction schedule including milestones for this project within the time frame specified in 01 32 16. This schedule shall be prepared using "Suretrak, Primavera, Microsoft Project" or other similar scheduling software. In addition, the Contractor shall submit to the Owner and Architect with each monthly Application for Payment a copy of the progress schedule showing all modifications required to have the schedule reflect appropriate revisions and shall take whatever action is necessary to assure that the project completion schedule is met. The Contractor is required to attend and to give a schedule update at each weekly construction administration meeting and shall provide a detailed 3 week work ahead schedule. The progress schedule will include

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percentages of work completed to date along with percentages of work remaining to be completed. These percentages will be used in the verification of the Contractor's monthly Application for Payment. Pay Applications will not be processed by the Owner unless accompanied by an updated progress schedule. If the project is behind schedule, specific input will be required from the Contractor on how he intends to make up the time. If the project remains behind schedule for more than ten (10) working days, for any reason, the Owner, Architect, and Consultants and their associated personnel, shall be compensated by the Contractor, at their standard hourly billing rate, which will be provided as required, until such time as the Contractor can successfully demonstrate to all parties that the project is back on the agreed schedule. Contractor shall provide two (2) large format color prints one (1) for Owner and one (1) for jobsite of the construction schedule monthly with all items showing current status and original baseline schedule.

#### § 3.11 Documents and Samples at the Site

The Contractor shall maintain at the site for the Owner one (1) copy of the Drawings, Specifications, Addenda, Change Orders and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and one (1) copy of approved Shop Drawings, Product Data, Samples and similar required submittals. These shall be available to the Architect and shall be delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

#### § 3.12 Shop Drawings, Product Data and Samples

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§ 3.12.1 Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. Their purpose is to demonstrate the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Architect Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so, (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents, and (4) coordinated said shop drawings, product data, samples and submittals with adjacent work and its related submittals to be compatible and not in conflict for installation.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Architect in writing of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued

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authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect's approval thereof, except for any such errors or omissions which are within the Architect's statutory or contractual design responsibility.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such written notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. The Contractor shall not be required to provide professional services in violation of applicable law. If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall cause such services or certifications to be provided by a properly licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor all performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review, approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Contractor shall not be responsible for the adequacy of the performance and design criteria specified in the Contract Documents.

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§ 3.12.11 If, in the opinion of the Architect, the Shop Drawings are incomplete, indicate an inadequate understanding of the work covered by the Shop Drawings, or indicate a lack of study and review by the Contractor prior to submittal to the Architect, the Shop Drawings will be returned, unchecked, to the Contractor for correction of any of the above deficiencies and subsequent resubmittal. Additional service charges may be charged to the Contractor by the Architect in this event.

§ 3.12.12 The Contractor shall submit drawings, data and samples to the Architect at least fifteen (15) Regular Work Days prior to the date the Contractor needs the reviewed submittals returned. The Architect and his consultants will be allowed fifteen (15) Regular Work Days for checking from date of submission of shop drawings that are acceptable and do not require re-submission in the opinion of the Architect. Where colors are to be selected by the Architect, submit all product color samples in adequate time to allow the Architect to prepare a complete selection schedule. In general, all submittals requiring color selection shall be submitted to the Architect within eight (8) weeks [four (4) weeks for a summer remodel] of the Contractor's receipt of Notice to Proceed on the Project.

§ 3.12.13 The Contractor shall submit the number of copies of product data and samples which the Contractor and his subcontractors need for their use PLUS two (2) additional sets for the Architect, two (2) additional set for the Owner; one (1) additional set for each of the Architect's consultants involved with the particular Section of Work; (1) additional set of all mechanical shop drawings for TAB and one (1) additional set to be added to each copy of the Owner's Operation and Maintenance manuals at substantial completion. If, in the opinion of the Architect, the Shop Drawings are incomplete; indicate an inadequate understanding of the work covered by the Shop Drawings; or indicate a lack of study and review by the Contractor prior to submittal to the Architect, the Shop Drawings will be returned, unchecked, to the Contractor for correction of these deficiencies and subsequent resubmittal. Additional service charges as outlined in Article 3.2.7 may be charged to the Contractor by the Architect in this event.

§ 3.12.13.1 Where shop drawings are involved, submit one (1) high quality reproducible transparency and one (1) opaque print of the shop drawing for the Architect plus one (1) additional opaque print for each of the Architect's consultants involved with the particular Section of Work and one (1) additional print for each copy of the Owner's Operation and Maintenance Manuals to be submitted at Substantial Completion. The reproducible transparency will be marked by the Architect and/or his consultants and returned to the contractor for his use, distribution, correction or resubmittal, as

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required. After final review and correction of the submittal, the Contractor shall send one (1) corrected set to the Architect and one (1) to each of the Architect's consultants involved with the particular Section of Work. Contractor shall also retain one (1) set of all reviewed Mechanical submittals to be transmitted to the HVAC Test and Balance agency selected by Owner.

§ 3.12.14 The Contractor shall deliver in one (1) submittal, all material samples requiring a color selection by the Architect, within eight (8) weeks [four (4) weeks for summer remodel] of the Contractor's receipt of a Notice to Proceed on the Project. The Architect will return material color selections within six (6) weeks [three (3) weeks for summer remodel] of receipt of the color samples from the Contractor.

§ 3.12.15 The Contractor shall produce and submit for review, composite coordination drawings within four (4) weeks of the Contractor's receipt of a Notice to Proceed on the Project. The composite coordination drawings shall depict the coordination of all structural and architectural elements with HVAC piping, ductwork, mechanical equipment, electrical conduit, low voltage systems cabling, lighting, electrical switchgear and panels, security systems, domestic water piping, roof drains and storm sewer piping, sanitary sewer piping and fire sprinkler piping in a composite above ceiling plan and a composite mechanical and electrical equipment room floor plan. Plans shall be produced at a scale of one-quarter (1/4") per foot and shall include larger scale sections with vertical elevations of elements required to confirm coordination of all elements. A schedule value for the production of the composite coordination drawings shall be included in the Continuation Sheet of the Application and Certificate for Payment for each of the Divisions of trade. Refer to specification section 01 31 13 for detail coordination document requirements.

#### § 3.13 Use of Site

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.13.1 Contractor shall ensure that the Work, at all times, is performed in a manner that affords Owner reasonable access, both vehicular and pedestrian, to the site of the work and all adjacent areas. The Work shall be performed in such a manner that public areas adjacent to the site of the Work shall be free from all debris, building material and equipment likely to cause hazardous conditions. Without limitation of any other provision of the Contract Documents, Contractor shall use its best efforts to minimize any interference with the occupancy or beneficial use of any area of the building adjacent to the site of the Work, or the building, in the event of partial occupancy.

§ 3.13.2 Without prior approval of the Owner, the Contractor shall not permit any workers to use any existing facilities at the Project site, including without limitation, lavatories, toilets, entrances, and parking areas, other than those designated by the Owner. The Contractor shall comply with all rules and regulations established by the Owner in connection with the use and occupancy of the Project site and the Building.

#### § 3.14 Cutting and Patching

§ 3.14.1 The Contractor shall be responsible for cutting, fitting or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting and patching shall be restored to the condition existing prior to the cutting, fitting and patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or separate contractors by cutting, patching or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter such construction by the Owner or a separate contractor except with written consent of the Owner and of such separate contractor; such consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold from the Owner or a separate contractor the Contractor's consent to cutting or otherwise altering the Work.

#### § 3.15 Cleaning Up

§ 3.15.1 The Contractor shall, on a daily basis, keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials from and about the Project. See specification section 01 71 50 for specific requirements of final cleaning.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and Owner shall be entitled to reimbursement from the Contractor.

#### (Paragraphs deleted)

§ 3.15.3 Prior to the Architect's inspection for Substantial Completion, the Contractor shall clean exterior and interior surfaces exposed to view; remove temporary labels, stains, and foreign substances; polish transparent and glossy surfaces; clean equipment and fixtures to a sanitary condition; clean roofs; clean site; sweep paved areas and rake clean other surfaces; remove trash and surplus materials from the site.

#### § 3.16 Access to Work

The Contractor shall provide the Owner and Architect a job site plan and access to the Work, in preparation and progress wherever located.

#### § 3.17 Royalties, Patents and Copyrights

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for such defense or loss when a particular design, process or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications or other documents prepared by the Owner or Architect. However, if the Contractor has reason to believe that the required design, process or product is an infringement of a copyright or a patent, the Contractor shall be responsible for such loss unless such information is promptly furnished to the Architect.

#### § 3.18 Indemnification

§ 3.18.1 To the fullest extent permitted by law and to the extent claims, damages, losses or expenses are not covered by Project Management Protective Liability insurance purchased by the Contractor in accordance with Section 11.3, the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, Third Party consultants, utility service providers involved with the project, and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

#### § 3.19 Substitutions of Materials, Products, or Systems

§ 3.19.1 The materials, products, and the systems covered by these specifications have been selected as a standard because of quality, particular suitability, or record of satisfactory performance. It is not intended to preclude the use of equivalent or better materials, products, or systems provided that same meets the requirements of the particular project and is approved in an addendum as a substitution prior to the submission of proposals. If prior written approval has not been obtained, it will be assumed that the Proposal is based upon the materials, products, and systems described in the Proposal Documents and no substitutions will be permitted, except as provided hereinafter.

§ 3.19.2 If, prior to submitting his Proposal, a Proposer at any level determines that any of the materials, products, or systems specified will perform in a manner that will limit the Contractor's ability to satisfactorily perform the work or to honor the Warranty, the Proposer shall promptly notify the Architect in writing, providing substantiation for his position. Any necessary changes shall be set forth in an addendum.

§ 3.19.3 The Architect does not bind himself to consider a substitution during the proposal period unless written

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request has been submitted to the Architect for approval at least ten (10) days prior to the date for receipt of Proposals. Each such request shall include a "side-by-side" comparison which may include but is not limited to the following; a complete description of the proposed substitute, the name of the material, project, or system for which it is proposed to be substituted, drawings, cuts, performance and test data and any other data or information necessary for a complete evaluation. Incomplete submittals will not be evaluated. If the Architect approves any proposed substitution, such approval will be set forth in an Addendum.

§ 3.19.4 If, after award of contract, the Contractor or one of his Subcontractors or Suppliers determine that any of the products or systems specified will perform in a manner that will limit the Contractor's ability to satisfactorily perform the work or to honor the Warranty, the Contractor shall promptly notify the Architect, in writing, providing detailed substantiation for his position. Any changes deemed necessary by the Owner and Architect, including substitution of materials and change in Contract Sum, either upward or downward, if any, shall be accomplished by appropriate modification.

#### § 3.20 Record Drawings

§ 3.20.1 Within seven (7) days after substantial completion of the project, the Contractor shall submit two (2) sets of full-size photocopies of the Job Superintendent's field set of marked plans and specifications.

§ 3.20.2 The Contractor shall provide the Owner with Electronic Record Drawings on a thumb drive or solid-state media drive. Drawings shall mirror the construction document sheets with any additions and changes made during the course of the project. Drawings shall be in both AutoCAD version 18 or later, and PDF or Tiff Format. CAD files shall have all referenced drawings in the same directory or folder. The record drawings shall include electronically all changes made during construction, clouded and keyed to identify the instrument of the change, Change Proposal Request or Change Order. For underground utility piping, revised locations shall also be dimensioned from the column grid lines. The record drawings must be delivered to the Architect at least thirty (30) days prior to receipt of the Contractor's Final Application for Payment. The record drawings shall have a statement added to indicate the purpose of the drawings (i.e. "RECORD DRAWINGS") and shall delete the Architects and/or Engineers seal. See additional requirements in Form 'AO'.

§ 3.20.3 The Contractor is to provide the Owner with Record Specifications (one (1) PDF format on thumb drive or solid-state media drive) which denotes the manufacture of materials incorporated into the Project where more than one acceptable manufacturer is listed, and shall include all changes made during construction, clouded and keyed to identify the instrument of change. The record specifications shall have a statement added to indicate the purpose of the specifications (i.e. "RECORD SPECIFICATIONS"). See additional requirements in Form 'AO'.

#### § 3.21 Antitrust Violations

§ 3.21.1 To permit the Owner to recover damages suffered; in antitrust violations, the Owner/Contractor Agreement shall include the following wording, "Contractor hereby assigns to Owner any and all claims for overcharges associated with this contract which are under the antitrust laws of the United States, 15 U.S.C.A., Sec. 1 et.seq. (1973)". The Contractor shall include this provision in his agreements with each subcontractor and supplier. Each subcontractor shall include such provisions in agreements with sub-subcontractors and suppliers

#### § 3.22 Prevailing Wage Rates

§ 3.22.1 No employee used in this construction may be paid less than the minimum wage rate provided herein in Article 15.

#### **Construction Progress Photographs** § 3.23

§ 3.23.1 Contractor shall provide color construction progress photographs during the construction period on a monthly basis to the Architect and Owner. Photographs and digital files on thumb drive or solid-state media drive of photos shall be provided. Construction progress monthly photographs (24 minimum per month, showing all aspects of work accomplished during that month) shall be provided with each and every application for payment.

§ 3.23.2 For New Construction, Building Additions and Miscellaneous Renovations provide (Digital files on thumb drive or solid-state media drive):

- Two (2) aerial photographs prior to construction
- Two (2) aerial photographs after Final Completion, and
- Two (2) aerial photographs of the District facility site each month that there is a change in appearance of the

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building exterior and site, or as requested by the Owner.

#### ARTICLE 4 ADMINISTRATION OF THE CONTRACT

#### § 4.1 Architect

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§ 4.1.1 The Architect is the person lawfully licensed to practice architecture or an entity lawfully practicing architecture identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The term "Architect" means the Architect or the Architect's authorized representative.

§ 4.1.2 Duties, responsibilities and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified or extended without written consent of the Owner, Contractor and Architect. Consent shall not be unreasonably withheld.

§ 4.1.3 If the employment of the Architect is terminated, the Owner shall employ a new Architect against whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the former Architect.

§ 4.1.4 Except as expressly provided herein, the Contractor shall not be relieved of Contractor's obligation to perform the Work in strict accordance with the Construction Documents and the Contract Documents by the duties, responsibilities, or activities of the Architect.

#### § 4.2 Architect's Administration of the Contract

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative (1) during construction, (2) until final payment is due and (3) with the Owner's concurrence, from time to time during the one-year period for correction of Work described in Section 12.2. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents unless otherwise modified in writing in accordance with other provisions of the Contract.

§ 4.2.2 The Architect shall visit the site at least twice per week (or more per week when deemed necessary by the Owner's Superintendent or Designee or when necessary to protect Owner's interests) and at any other intervals appropriate to the stage of construction, to inspect the progress, quantity and quality of the Work completed, to reject any observed nonconforming Work, and to determine if the Work is being performed in a manner indicating that the Work, when completed, will be in accordance with the Construction Documents and the Contract Documents and on time. Furthermore, a minimum of two job site meetings per month from commencement of construction through Final Completion will be initiated by the Architect and attended by the Contractor. Attendees will include Owner, the Contractor's project manager and/or superintendent, Architect's project representative, and Architect. The Architect, Owner and their representatives shall at all times have access to the Work. Architect, or its structural consultant will provide on-site observation prior to and during all concrete pours that contribute to the structural integrity of the building, including all pours of concrete piers, footings, grade beams, floor slabs, and concrete superstructure components, if applicable. In addition, Architect or its structural consultant will provide on-site observation prior to covering up or closing up of portions of the construction, which if covered, would conceal problems with the structural integrity of the Project. Contractor shall not close or cover said Work until said observations have occurred. Contractor or Architect will advise Owner of the need for any third-party laboratory or testing services to assist the Architect and Owner. On the basis of the on-site observations by Architect, Architect shall keep Owner and Contractor informed of the progress and the quality of the Work, through Architect's field reports, and shall guard Owner against defects and deficiencies in the Work. Architect shall promptly notify Owner and Contractor, orally, regarding any defect or nonconforming Work, which shall be followed by notice in writing of defects or nonconforming Work noted and corrective action taken or recommended. The Architect, however, shall not have control over, or responsibility for the Contractor's construction means, methods, techniques, sequences, procedures, or safety programs, but this does not relieve Architect of Architect's responsibilities under this Agreement. Any services by Contractor made necessary by Contractor's construction defect or nonconforming Work, shall be performed at no additional cost to Owner.

§ 4.2.3 The Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and report to the Owner (1) known deviations from the Contract Documents and from the most recent construction schedule submitted by the Contractor, and (2) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of and will not be responsible for acts or

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omissions of the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work. The Architect shall endeavor to guard the Owner against defects and deficiencies in the Work.

#### § 4.2.4 Communications Facilitating Contract Administration

Except as otherwise provided in the Contract Documents or when direct communications have been specially authorized, the Owner and Contractor shall endeavor to communicate with each other through the Architect about matters arising out of or relating to the Contract. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and material suppliers shall be through the Contractor. Communications by and with separate contractors shall be through the Owner.

§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require additional inspection or testing of the Work in accordance with Sections 13.5.2 and 13.5.3, whether or not such Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, material and equipment suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness as to cause no delay in the work or in the activities of the Owner, Contractor, or Subcontractor, while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5 and 3.12. The Architect's review shall not constitute approval of safety precautions or, unless otherwise specifically stated by the Architect, of any construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Architect will prepare Change Orders, Change Proposal Requests, and Construction Change Directives, and may authorize minor changes in the Work as provided in Section 7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; will receive and forward to the Owner for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor, and will issue a final Certificate for Payment upon compliance with the requirements of the Contract Documents.

§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more project representatives to assist in carrying out the Architect's responsibilities at the site.

§ 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If no agreement is made concerning the time within which interpretations required of the Architect shall be furnished in compliance with this Section 4.2, then delay shall not be recognized on account of failure by the Architect to furnish such interpretations until 15 days after written request is made for them.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either and will not be liable for results of interpretations or decisions rendered in good faith.

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§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Contractor shall not cover up any work without the Architect and Owner performing an observation of such work. The Contractor will be responsible for any and all associated costs to allow for observations of the work, uncovered, by the Architect and Owner if the Contractor covers work without either the consent of the Architect and Owner or without providing the Architect and Owner with reasonable opportunity to observe the work, whether or not such work is found to be acceptable by the Architect or Owner.

#### § 4.3 Claims and Disputes

§ 4.3.1 Definition. A Claim is a demand or assertion by one of the parties seeking, as a matter of right, adjustment or interpretation of Contract terms, payment of money, extension of time or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner, Architect and Contractor arising out of or relating to the Contract. Claims must be initiated by written notice. The responsibility to substantiate Claims shall rest with the party making the Claim.

§ 4.3.2 Time Limits on Claims. Claims by either party must be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later. Claims must be initiated by written notice to the Architect and the other party.

§ 4.3.3 Continuing Contract Performance. Pending final resolution of a Claim unless as otherwise agreed in writing, the Contractor shall proceed diligently with performance of the Contract.

§ 4.3.4 Claims for Concealed or Unknown Conditions. If conditions are encountered at the site which are (1) subsurface or otherwise concealed physical conditions which differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature, which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, then notice by the observing party shall be given to the other party promptly before conditions are disturbed and in no event later than 21 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend an equitable adjustment in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall so notify the Owner and Contractor in writing, stating the reasons. Claims by either party in opposition to such determination must be made within twenty-one (21) days after the Architect has given notice of the decision. If the conditions encountered are materially different, the Contract Sum and Contract Time shall be equitably adjusted, but if the Owner and Contractor cannot agree on an adjustment in the Contract Sum or Contract Time, the adjustment shall be referred to the Architect for initial determination, subject to further proceedings pursuant to Section 4.4.

§ 4.3.5 Claims for Additional Cost. If the Contractor wishes to make Claim for an increase in the Contract Sum, written notice as provided herein shall be given before proceeding to execute the Work. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.6.

§ 4.3.6 If the Contractor believes additional cost is involved for reasons including but not limited to (1) a written interpretation from the Architect, (2) an order by the Owner to stop the Work where the Contractor was not at fault, (3) a written order for a minor change in the Work issued by the Architect, (4) failure of payment by the Owner, (5) termination of the Contract by the Owner, (6) Owner's suspension or (7) other reasonable grounds, Claim shall be filed in accordance with this Section 4.3.

#### § 4.3.7 Claims For Additional Time

§ 4.3.7.1 If the Contractor wishes to make Claim for an increase in the Contract Time, written notice as provided herein shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay only one Claim is necessary.

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§ 4.3.7.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated and had an adverse effect on the scheduled construction.

§ 4.3.8 Injury or Damage to Person or Property. If either party to the Contract suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, written notice of such injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 4.3.9 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed in a proposed Change Order or Construction Change Directive so that application of such unit prices to quantities of Work proposed will cause substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 4.3.10 Claims for Consequential Damages. The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes without limitation:

- damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and
- .2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 4.3.10 shall be deemed to preclude an award of liquidated direct damages, when applicable, in accordance with the requirements of the Contract Documents.

## § 4.4 Resolution of Claims and Disputes

§ 4.4.1 Decision of Architect. Claims, including those alleging an error or omission by the Architect, shall be referred initially to the Architect for recommendation. If the parties are unable to agree, an appeal may be submitted as stated in Section 4.4.1.1 below.

§ 4.4.1.1 Any claim, disputes or matters arising out of this contract between the Architect, Owner and Contractor or any combination of those parties shall be submitted to a court of appropriate jurisdiction.

§ 4.4.2 The Architect will review Claims and within ten (10) days of the receipt of the Claim take one or more of the following preliminary actions: within ten (10) days of receipt of claim: (1) request additional supporting data from the claimant, (2) submit a schedule to the parties indicating when the Architect expects to take action, (3) reject the Claim in whole or in part, stating the reasons for rejection, (4) recommend approval of the Claim by the other party, or (5) suggest a compromise.

§ 4.4.3 In evaluating Claims, the Architect may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Architect in rendering a decision. The Architect may request the Owner to authorize retention of such persons at the Owner's expense.

§ 4.4.4 If the Architect requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten (10) days after receipt of such request, and shall either provide a response on the requested supporting data, advise the Architect when the response or supporting data will be furnished or advise the Architect that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Architect will either reject or approve the Claim in whole or in part.

§ 4.4.5 The Architect will approve or reject Claims by written decision, which shall state the reasons therefore and which shall notify the parties of any change in the Contract Sum or Contract Time or both. The approval or rejection of a Claim by the Architect shall be final and binding on the parties but subject to mediation.

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§ 4.4.6 Upon receipt of a Claim against the Contractor or at any time thereafter, the Architect or the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Architect or the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 4.4.7 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines prior to resolution of the Claim by the Architect, or by mediation.

§ 4.4.8 If a Claim has not been resolved after consideration of the foregoing and of further evidence presented by the parties or requested by the Architect, the Architect will notify the parties in writing that the Architect's decision will be made within seven (7) days.

Upon expiration of such time period, the Architect will render to the parties the Architect's written decision relative to the Claim, including any change in the Contract Sum or Contract Time or both. If there is a surety and there appears to be possibility of a Contractor's default, the Architect shall notify the surety and request the surety's assistance in resolving the Claim.

## § 4.5 Mediation

§ 4.5.1 Any Claim arising out of or related to the Contract, except Claims relating to aesthetic effect and except those waived as provided for in Sections 4.3.10, 9.10.4 and 9.10.5 shall, after initial decision by the Architect or 30 days after submission of the Claim to the Architect, be subject to mediation only upon the mutual consent of both parties. In the event that mutual consent is not achieved, the parties are free to pursue any claims, disputes or matters in any manner allowed by law.

§ 4.5.2 Mediation, unless the parties mutually agree otherwise, shall be in accordance with the Construction Industry Mediation Rules of the American Arbitration Association currently in effect. Request for mediation shall be filed in writing with the other party to the Contract and with the American Arbitration Association.

§ 4.5.3 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

#### **ARTICLE 5** SUBCONTRACTORS

### § 5.1 Definitions

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a Separate Contractor or the subcontractors of a Separate Contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

## § 5.2 Award of Subcontracts and Other Contracts for Portions of the Work

### (Paragraph deleted)

§ 5.2.1 As soon as practicable after award of the Contract, but not later than five (5) days prior to the submittal date for the Contractor's first Application for Payment, the Contractor shall furnish in writing to the Owner and the Architect the names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for each principal portion of the Work. Where subcontractors have been listed in the Specifications or on the Contractor's Proposal Form, the proposed entities shall be those firms listed in the Specifications and on the Contractor's Proposal Form, unless an agreement has been reached with the Owner to accept a proposed substitute(s). The Architect will promptly reply to the Contractor in writing stating whether or not the Owner or the Architect, after due investigation, has reasonable objection to any such proposed person or entity. Failure of the Owner or Architect to reply promptly shall constitute notice of no objection. Failure of the Contractor to submit the subject names in a timely manner will delay processing of the Contractor's Application for Payment.

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§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made a timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made an objection under provisions of Subparagraph 5.2.1.

§ 5.2.3 If the Contractor has acted promptly and responsibly in submitting names as required, and the Owner or Architect objects to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no objection. The Contract Sum shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work.

§ 5.2.4 Prior to any substitution of a subcontractor by the Contractor, the Contractor shall notify the Architect of his intent and reasons for such proposed substitutions. The Contractor shall not substitute a Subcontractor, person or entity previously selected if the Owner or Architect objects to such change.

### (Paragraphs deleted)

§ 5.2.5 The Contractor shall submit the list of proposed Subcontractors on AIA Document G805 or the form provided in the Project Manual.

§ 5.2.6 The Contractor is required to visit the site and completely familiarize himself with the existing conditions prior to the proposal. Neither additional increase in the Contract Sum nor extension in Contract Time will be granted when existing or known conditions require a certain amount of work to comply with the intent of the Contract Documents.

### § 5.3 Subcontractual Relations

By appropriate agreement, written where legally required for validity, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor, by these Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. The Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors. Each subcontractor shall provide proof of insurance to Contractor consistent with the Contractor's insurance to Owner and in an amount commensurate with the Work to be performed by the Subcontractor.

### § 5.4 Contingent Assignment of Subcontracts

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

- assignment is effective only after termination of the Contract by the Owner for cause pursuant to .1 Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor in writing; and
- .2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.

### (Paragraph deleted)

§ 5.5 Neither the Owner nor the Architect shall be obligated to pay or to ensure the payment of any monies to subcontractors due to any non-payment to the Contractor or non-payment of subcontractors by the Contractor.

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#### ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

## § 6.1 Owner's Right to Perform Construction and to Award Separate Contracts

§ 6.1.1 The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other construction or operations on the site under Conditions of the Contract identical or substantially similar to these including those portions related to insurance and waiver of subrogation. If the Contractor claims that delay or additional cost is involved because of such action by the Owner, the Contractor shall make such Claim as provided in Section 4.3.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each separate contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with other separate contractors and the Owner in reviewing their construction schedules when directed to do so. The Contractor shall make any revisions to the construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, separate contractors and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces, the Owner shall be deemed to be subject to the same obligations and to have the same rights that apply to the Contractor under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6 and Articles 10, 11 and 12.

### § 6.2 Mutual Responsibility

§ 6.2.1 The Contractor shall afford the Owner and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a separate contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly report to the Architect apparent discrepancies or defects in such other construction that would render it unsuitable for such proper execution and results. Failure of the Contractor so to report shall constitute an acknowledgment that the Owner's or separate contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work, except as to defects not then reasonably discoverable.

§ 6.2.3 The Owner shall be reimbursed by the Contractor for costs incurred by the Owner which are payable to a separate contractor because of delays, improperly timed activities or defective construction of the Contractor. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of delays, improperly timed activities, damage to the Work or defective construction of a separate contractor.

§ 6.2.4 The Contractor shall promptly remedy damage that the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or Separate Contractor as provided in Section 10.2.5.

§ 6.2.5 The Owner and each Separate Contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

## § 6.3 Owner's Right to Clean Up

If a dispute arises among the Contractor, Separate Contractors, and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

## ARTICLE 7 CHANGES IN THE WORK

## § 7.1 General

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Change Proposal Request, Construction Change Directive, order for a minor change in the

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Work, or a Change Proposal Request issued by Architect or Contractor, signed by Owner, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

§ 7.1.2 All Change Orders and Change Proposal Requests shall be based upon agreement among the Owner, Contractor and Architect; a Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor; an order for a minor change in the Work may be issued by the Architect alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents, and the Contractor shall proceed promptly, unless otherwise provided in the Change Order, Change Proposal Request Construction Change Directive or order for a minor change in the Work.

## § 7.2 Change Orders

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor, and Architect stating their agreement upon all of the following:

- The change in the Work; .1
- .2 The amount of the adjustment, if any, in the Contract Sum; and
- .3 The extent of the adjustment, if any, in the Contract Time.

§ 7.2.2 The parties mutually may agree upon a Change Order that adjusts Contract Time and/or Contract Sum based on a change in the Scope of Work requested by the Owner or that results from unanticipated, extraordinary adverse weather conditions as described in Article 15 of these General Conditions. The parties further agree that Contractor shall proceed with the Work only as set forth in a Change Order upon Contractor's physical receipt of a Change Order duly executed by the Owner. Contractor shall be entitled to reimbursement of a previously agreed to cost for estimating services.

§ 7.2.3 If a change in the Work is to be ordered, a written request shall be issued by Owner to Contractor describing the change and requesting the submission of a Change Order Request. When time does not permit the processing of a Change Order in advance of commencing the change in the Work, upon receipt of a written authorization from Owner, Contractor shall proceed with a change in the Work pursuant to a Construction Change Directive and Contractor shall concurrently proceed with submission of a Change Order Request.

§ 7.2.4 Within thirty (30) days following receipt of a written request, Contractor shall submit a Change Order Request to Owner together with the revised or new documents which, if approved, will become part of the Contract Documents setting forth any requested adjustment in the Contract Sum or the Contract Time, and including an itemization of all costs of material and labor with extensions listing quantities and total costs, and a substantiation of any Claim for an extension of the Contract Time. Any Change Order for a change in the work must be signed by the Owner before the Owner is obligated for payment related to the Change Order. If Contractor is unable to submit the above information within the time limit, it shall notify Owner in writing, setting forth for Owner's approval a date by which Contractor will submit the information as well as a schedule for the performance of the Work for which a Change Order Request will be forthcoming. If within the 30 days the Construction Manager cannot ascertain the financial or time impact of a claim a letter alerting the Owner of a forthcoming claim will suffice. This must be sent during this 30-day window.

§ 7.2.5 If Owner accepts a Change Order Request submitted by Contractor, Contractor shall prepare a Change Order that is based upon such Change Order Request for execution by Contractor and Owner and to the extent that the Owner and Contractor agree, the Contract Sum and Contract Time shall be adjusted as provided in the Change Order upon execution of such Change Order.

§ 7.2.6 Nothing contained herein shall limit the right of Owner to order changes in Work by Change Orders that have not been signed by Contractor, and Contractor shall promptly perform all Work required under the Contract Documents or a Change Order despite its failure to execute the Change Order. However, the Owner shall issue and execute a Change Order authorizing payment for all undisputed amounts.

§ 7.2.7 No change in the Work shall be the basis of an addition to the Contract Sum or a change in the Contract Time unless and until such change has been authorized by a Change Order executed and issued by the Owner in accordance with the Contract Documents. Changes in the Work may be made without notice to Contractor's sureties and absence of such notice shall not relieve such sureties of any of their obligations to Owner.

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§ 7.2.8 Acceptance of a Change Order by the Contractor shall constitute full accord and satisfaction for any and all Claims, whether direct or indirect, including but not limited to, impact or delay damages, arising from the subject matter of the Change Order; or attorneys' fees and costs arising from a dispute with a Subcontractor over the Change Order.

§ 7.2.9 Methods used in determining adjustments to the Contract Sum shall be those listed in Section 7.3.3.

## § 7.3 Construction Change Directives

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive and/or Change Proposal Request shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 The cost or credit to the Owner resulting from a change in the Work shall be determined in one or more ways listed below. The first method listed shall be used unless the Architect determines that the method is inappropriate, in which case another method shall be selected:

By mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data .1 to permit evaluation. Contractor shall provide on company letterhead backup documentation and submit proposal cost and/or by either using unit costs method with attached supporting data or by using labor, materials and equipment method with attached supporting data. One form shall be utilized by each trade involved in the change in the work with an overall summary form by the Contractor for the entire change. Where additional Work is involved, the lump sum shall represent the estimated cost of labor and materials; plus markups to cover miscellaneous fees and profit if not funded by an allowance:

To compensate the Contractor or Subcontractor actually performing a part of the Work for the combined cost of miscellaneous fees and profit, the performing party shall be entitled to a single markup not to exceed 15% of the estimated cost of that part of the Work.

To compensate the Contractor for the combined cost of miscellaneous fees and profit on work performed by Subcontractors, the Contractor shall be entitled to a single markup not to exceed 10% of the subcontract amount if not funded from an allowance. (Contractor shall not be allowed a markup for miscellaneous fees and profit if change is funded by an allowance.)

When a Sub-subcontractor performs the Work of a change, the 15% markup for combined miscellaneous fees and profit shall be used only by the Sub-subcontractor. The Subcontractor and Contractor would each be entitled to a single markup not to exceed 10% of the cost to them from the Subcontractor and sub-subcontractor respectively if not funded by an allowance. (Contractor shall not be allowed a markup for miscellaneous fees and profit if change is funded by an allowance.)

- By unit prices stated in the Contract Documents or subsequently agreed upon; Additional markups for miscellaneous fees, and profit will not be allowed in Unit Price Work;
- .3 By cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
- .4 As provided in Subsection 7.3.6.

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- .5 In order to facilitate checking of quotations for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including labor, materials, and Subcontracts. Labor and materials shall be itemized in the manner prescribed above on company letterhead. Where major cost items are Subcontracts, they shall be itemized also. In no case will a change be approved without such itemization.
- For changes in the work the Contractor, Owner and Architect agree to be bound by the below stated .6 required time lines.

Upon issuance of a Change document, Contractors, Subcontractors and Sub-subcontractors shall provide the proposed pricing on company letterhead with the required supporting back up

documentation no later than fifteen (15) business days after receipt of the proposed change document. Architect and Owner shall review Contractor's pricing and within ten (10) business days accept pricing as submitted by the Contractor or reject the pricing and return to the Contractor with specific reasons for rejections. If pricing is rejected, Contractor shall review the specific rejections and modify pricing to address the specific rejection and resubmit to the Architect and Owner comments within two (2) business days after receipt of rejection comments. The Architect and Owner shall review the revised pricing and either accept the revised pricing, or if pricing is still in dispute, the Architect shall issue a Construction Change Directive.

### § 7.3.4

## (Paragraphs deleted)

Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.5 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.6 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect or Owner shall determine the method and the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount for miscellaneous fees, overhead and profit except if funded by Allowance. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.7 shall be limited to the following:

- costs of labor, including social security, retirement and unemployment insurance, fringe benefits .1 required by agreement or custom, and workers' compensation insurance;
- .2 costs of materials, supplies and equipment, including cost of transportation, whether incorporated or consumed:
- .3 rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others, and;
- .4 additional costs of supervision and field office personnel directly attributable to the change.

§ 7.3.7 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for miscellaneous fees and profit shall be figured on the basis of net increase or decrease, if any, with respect to that change.

§ 7.3.8 Pending final determination of the total cost of a Construction Change Directive to the Owner, amounts not in dispute for such changes in the Work shall be included in Applications for Payment accompanied by an approved Change Order or Change Proposal Request indicating the parties' agreement with part or all of such costs. For any portion of such costs that remains in dispute, the Architect will make an interim determination for purposes of monthly certification for payment for those costs. The determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 4.

§ 7.3.9 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and shall be recorded by preparation and execution of an appropriate Change Order.

### (Paragraph deleted)

### § 7.4 Minor Changes in the Work

§ 7.4.1 The Architect has authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the Contract Documents with Owner's written approval. Such changes will be effected by written order and shall be binding on the Owner and Contractor. The Contractor shall carry out such written orders promptly with Owner's written approval.

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#### **Changes Funded by Allowances** § 7.5

§ 7.5.1 Allowance balances may be used to fund changes in the work. The Contractor will not be allowed a mark-up for overhead and profit when changes in the work are funded by one of the Allowances. Cost for changes funded by allowances shall be determined by methods described in Article 7.3.3. Miscellaneous fees and profit mark-up shall be allowed on work performed by Subcontractors, Sub-subcontractors and the Contractor's own forces, in accordance with Section 7.2 and 7.3.

§ 7.5.2 Changes funded by Allowances shall require back-up documentation per Section 7.3.3.

## ARTICLE 8 TIME

### § 8.1 Definitions

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 8.1.2 Unless agreed otherwise, the date inserted on the Agreement form and the Date of Commencement constitute "0" (zero) of the stated Completion Time.

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined. The term "regular working day" as used in the Contract Documents shall mean any day from Monday through Friday, exclusive of those holidays normally recognized in the construction industry and/or approved by District-approved calendar.

### § 8.2 Progress and Completion

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, prematurely commence operations on the site or elsewhere prior to the effective date of insurance required by Article 11 to be furnished by the Contractor and Owner, and approved by the Owner. The date of commencement of the Work shall not be changed by the effective date of such insurance. Unless the date of commencement is established by the Contract Documents or a notice to proceed given by the Owner, the Contractor shall notify the Owner in writing not less than five (5) days or other agreed period before commencing the Work to permit the timely filing of mortgages, mechanic's liens and other security interests.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

### § 8.3 Delays and Extensions of Time

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by an act or neglect of the Owner or Architect, or of an employee of either, or of a separate contractor employed by the Owner; or by changes ordered in the Work; or by fire, or other causes beyond the Contractor's control; or by delay authorized by the Owner pending mediation and arbitration; or by other causes that the Architect and Owner determines may justify delay, then the Contract Time shall be extended by Change Order for such reasonable time as the Architect and Owner may determine.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 4.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

§ 8.3.4 Extensions of time granted for causes described herein will be granted on the basis of one Regular Working Day extension for each Regular Working Day lost (i.e. seven (7) Calendar Days extension will be granted after five (5) Regular Work Days are lost except as modified by the provisions contained herein related to Anticipated Weather days).

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§ 8.3.5 Each Proposer shall include in his proposed construction schedule an allowance of regular work days per year as defined in 1.7.7.4, in which work is delayed for student testing or other unspecified campus events. In addition, each proposer shall include an allowance of Anticipated Weather Days in accordance with following:

January	5	July	8
February	5	August	8
March	5	September	7
April	4	October	4
May	7	November	6
June	7	December	5

Number of anticipated Weather Days (These are regular working days)

§ 8.3.6 Weather Days shall pertain to such items as rain, flooding, snow, unusually high winds, excessively wet grounds, or the like which prevent progress on major portions of the work on regular working days only. If such situations occur on more than the number of Anticipated Weather Days indicated above and if those additional days prevent the Contractor from performing critical portions of the scheduled work, extensions of time cause by inclement weather may be requested as enumerated hereinafter: if the inclement weather is rain related, the rain at the site must have been in excess of 0.5 inch in 24 hours.

§ 8.3.7 At the beginning of each month the Contractor shall submit a status report for the preceding month, showing 1) the scheduled number of Anticipated Weather Days for the particular month, 2) the actual Weather Days requested, and 3) the Net Weather Days (plus, minus, or no change). At times deemed appropriate by the Architect or when requested in writing by the Contractor, the Contract time will be adjusted by Change Order if the total of Net Weather Days is substantially greater than "0". Unused Anticipated Weather Days may be accumulated during the Contract Time and may be used to offset Actual Weather days in other months. If the Contractor fails to submit said monthly status report, it will be assumed that none of the Anticipated Weather Days were used for that month and that they shall accumulate for possible future offset against Net Weather Days; however, if at the end of the project all Anticipated Weather days have not been used, the contract completion time will not be reduced. An example of the monthly schedule to be submitted is as follows:

Month	Anticipated Weather Days (Regular)	Actual Weather Days (Regular) Requested	Net Weather Days (Regular)
January	5	11	6
February	5	0	-5
March	5	2	-3
April	4	2	-2
May	7	12	5
June	7	11	4
Totals	33	38	5

Using this example (and assuming that all requested days were approved) there were 5 Net Weather Days (regular) for the six (6) months of the project and the extension of Contract Time would be seven (7) Calendar Days).

§ 8.3.8 Extensions of the Contract Time will only be considered after the number of anticipated delay days has been expended through mutual agreement by the Owner, Architect and Contractor.

§ 8.3.9 The following is a requirement of the Contract and will be included in the Agreement Between Owner and Contractor under Time of Completion and the blank spaces will be completed indicating the completion date as stated on the Proposal Form.

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§ 8.3.10 The Work to be performed under this Contract shall be commenced in accordance with Section 8.1.2 and the following Substantial Completion Date(s) must be achieved. Refer to the Project Manual for description of Phasing, if any.

1. Refer to Document A101-2017 Standard Form of Agreement Between Owner and Contractor as amended, Article 3.3 for required substantial completion date(s).

The parties hereto agree that time is of the essence of this Contract and that the pecuniary damages which would be suffered by the Owner, if the Contractor does not achieve the phased construction completion called for in the Contract Documents by the specified dates, are in their very nature difficult to ascertain. Refer to Section 8.4 for Liquidated Damages.

## § 8.4 Liquidated Damages

§ 8.4.1 The parties hereto agree that time is of the essence of this Contract and that the pecuniary damages which would be suffered by the Owner, if the Contractor does not achieve the phased construction completion called for in the Contract Documents by the specified dates, are in their very nature difficult of ascertainment. The sums per Calendar Day to be paid in consideration of all actual costs such as rental costs, additional supplies, labor, overtime, and especially disruption of the educational programs and lost administrative time, which cannot be readily determined are as follows:

Elementary Schools (New Construction and/or Renovations):	\$1,000.00/Calendar Day
Middle Schools (New Construction and/or Renovations):	\$2,000.00/Calendar Day
High Schools (New Construction and/or Renovations):	\$3,000.00/Calendar Day
Athletic Fields (New Construction and/or Renovations):	\$1,000.00/Calendar Day
Miscellaneous Facilities (New Construction and/or Renovations):	\$1,000.00/Calendar Day

§ 8.4.1.1 It is therefore expressly agreed as a part of the consideration inducing the Owner to execute this Contract that the Owner may deduct from the Final Payment made to the Contractor an equitable sum per Calendar Day for each and every Calendar Day beyond the specified date of Substantial Completion, which the Contractor shall require for Substantial Completion of the Work included in this Contract. It is expressly understood that said sum per day is agreed upon as a fair estimate of the pecuniary damages which will be sustained by the Owner in the event that the work is not completed within the agreed time, or within the legally extended time, if any, otherwise provided for herein. Said sum shall be considered as Liquidated Damages only and in no sense shall be considered a penalty, said damages being caused by additional compensation to personnel, for loss of interest on money, and other increased costs, all of which are by their nature difficult of exact ascertainment.

§ 8.4.1.2 If the Contractor fails to complete all requirements of Final Completion within ninety (90) days after the actual Substantial Completion date, Contractor shall be required to attend weekly meetings at the job site or Owner's office until such time as the close-out documents and all punch list items are completed and accepted by Owner. During this time the General Contractor will be charged for the Owner's, Architect's, and any consultant's time. Billable time will include without limitation travel time, meeting time, document preparation, document review, and re-inspection of on-site conditions. These weekly meetings shall include a minimum two (2) hour charge per participant. Costs will be deducted from Contractor's Final Payment. Hourly rates shall be as follows:

### **Consultants:**

•	Principal Architect/Engineer/Consultant:	\$175.00
•	Project Architect/Engineer/Consultant	\$150.00
•	Staff Architect/Engineer/Consultant	\$120.00
•	Field Representative/Architect/Engineer/Consultant	\$100.00
•	Secretarial	\$ 50.00

### **Project Owner:**

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•	Associate Superintendent	\$225.00
٠	Assistant Superintendent	\$200.00
•	Director	\$175.00
•	Senior Project Manager	\$165.00
•	Project Manager	\$150.00
•	Project Coordinator	\$120.00
•	Secretarial	\$ 50.00
•	Maintenance Technician	\$ 50.00
•	Operations Personnel	\$ 33.00

#### **ARTICLE 9** PAYMENTS AND COMPLETION

## § 9.1 Contract Sum

§ 9.1.1 The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

### (Paragraph deleted)

### § 9.2 Schedule of Values

§ 9.2.1 Before the first Application for Payment, the Contractor shall submit to the Architect a schedule of values allocated to various portions of the Work, prepared in such form and supported by such data to substantiate its accuracy as the Architect and Owner may require. This schedule, unless objected to by the Architect or Owner, shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 9.2.2 In order to facilitate the review of Applications for Payment, the Schedule of Values shall be submitted on AIA Documents G702 and G703 or other similar forms approved by the Owner, and shall include the following:

- General Contractor's costs for Contractor's fee, bonds and insurance, mobilization, project close-out .1 etc., shall be listed as individual line items.
- .2 Contractor's costs for various construction items shall be detailed. For example, concrete Work shall be subdivided into footings, grade beams, floor slabs, paving, etc. These subdivisions shall appear as individual line items.
- .3 On major subcontracts, such as mechanical, electrical, plumbing, and low voltage, the schedule shall indicate line items and amounts in detail (e.g. underground, major equipment, fixtures, installation of fixtures, start up, close-out, etc.)
- Costs for subcontract Work shall be listed without any addition of General Contractor's costs for miscellaneous fees, profit or supervision.
- .5 Where payment for stored materials may be requested prior to installation, material and labor shall be listed as separate line items. Stored materials will only be paid for the amount of actual invoices of same materials.
- .6 Sample pages from an approved schedule of values are included in Section 01 29 73 of the project specifications.
- .7 Where work occurs at more than one building, for the Owner's accounting purposes and to facilitate the checking and verification of the Contractor's Application for Payment, cost shall be scheduled separately for each building on the G703 Continuation Sheets. Building additions and renovations shall be listed separately.
- .8 All work outside the building envelope excluding overhangs and canopies shall be listed separately under Site work.

## § 9.3 Applications for Payment

§ 9.3.1 At least ten (10) days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment for operations completed in accordance with the schedule of values.

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Prior to this submittal, the Contractor shall contact the Architect's Field Department and Owner for on-site review of the proposed application. On-site reviews shall include review of all lien releases and stored materials. See project manual for additional requirements. Upon approval by the Architect's Field Department and Owner, the Application for Payment shall be notarized and submitted to the Architect. Included shall be data required to support lien releases, Application for Payment Checklist (Section CA), invoices and/or receipts. Such application shall be notarized, if required, and supported by such data substantiating the Contractor's right to payment as the Owner or Architect may require, such as copies of requisitions from Subcontractors and material suppliers, and reflecting retainage if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 7.3.8, such applications may include requests for payment on account of changes in the Work that have been properly authorized by Change Proposal Requests, but not yet included in Change Orders.

### (Paragraph deleted)

§ 9.3.2 Payments will be made on account of materials or equipment 1) incorporated in the Work and 2) Suitably stored at the site or 3) suitably stored at some off-site location provided the following conditions are met for off-site storage:

- The location must be agreed to, in writing, by the Owner and Surety. .1
- .2 The location must be a bonded warehouse.
- .3 Surety must agree, in writing, to each request for payment.
- .4 The Contractor must bear the cost of the Owner's and Architect's expenses related to visiting the off-site storage area.
- .5 All items shall be marked and clearly tagged as property of the Owner.

Payments for materials or equipment stored on or off the site shall be conditioned upon submission by the Contractor of bills of sale or such other procedures satisfactory to the Owner to establish the Owner's title to such materials or equipment or otherwise protect the Owner's interest, including applicable insurance (naming the Owner as insured) and transportation to the site for those materials and equipment. Under no circumstances will the Owner reimburse the Contractor for down payments, deposits, or other advance payments for materials or equipment. Contractor shall only be paid for the amount of the actual invoices submitted as backup for stored materials.

The Contractor acknowledges that the review of materials stored off site is an additional service of the Architect and shall be charged for that service. The cost for that service will be established by the Architect and is not subject to appeal.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work.

§ 9.3.4 Contractor's progress payment draws for fees and general conditions (including miscellaneous fees and profit) shall not exceed the percentage completion of the Work in place for the entire Project as indicated on the Application for Payment.

§ 9.3.4.1 By signing each Application for Payment, Contractor stipulates and certifies the following: that the information presented is true, accurate, and complete; that the Contractor has made the necessary detailed examinations, audits, and arithmetic verifications that the submitted Work has been completed to the extent represented in the Application for Payment, that the materials and supplies identified in the Application for Payment have been purchased, paid for, and received; that the subcontractors have been paid as identified in the Application for Payment or that the Contractor has been invoiced for same; that he has made the necessary on-site inspections to confirm the accuracy of the Application for Payment; that there are no known mechanics' or materialmens' liens outstanding at the date of this requisition; that all due and payable bills with respect to the Work have been paid to date or are included in the amount requested in the current application; that except for such bills not paid but so included, there is no known basis for the filing of any mechanics' or materialmens' liens on the Work; that the Payment Application includes only Work self-performed by Contractor of for which Contractor has been invoiced; and that releases from all subcontractors and materialmen have been obtained in such a form as to constitute an effective release of lien under the laws of the State of Texas covering all Work performed and for which payment has been made by the Owner to the Contractor.

§ 9.3.5 Contractors shall submit digitally one (1) application using AIA Document G702 and G703, Application and

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Certificate for Payment, 1992 Edition. All blanks in the form must be completed and signatures of Contractor and Notary Public must be original on each form.

§ 9.3.6 Contractor shall submit Application to the Architect in sufficient time (no later than Thursday at noon) to ensure that the Architect submits Application to the Owner on the first Monday of the Month (or previous business day if Monday is a Holiday as defined in this Agreement), prior to 12:00 pm. Applications will not be accepted on any other day of the week.

### § 9.4 Certificates for Payment

§ 9.4.1 The Architect will, within seven (7) days after receipt of the Contractor's Application for Payment, either issue to the Owner a Certificate for Payment, with a copy to the Contractor, for such amount as the Architect determines is properly due, or notify the Contractor and Owner in writing of the Architect's reasons for withholding certification in whole or in part as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data comprising the Application for Payment, that, to the best of the Architect's knowledge, information and belief, the Work has progressed to the point indicated and that the quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion and to specific qualifications expressed by the Architect. The issuance of a Certificate for Payment will further constitute a representation that the Contractor is entitled to payment in the amount certified. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work, (2) reviewed construction means, methods, techniques, sequences or procedures, (3) reviewed copies of requisitions received from Subcontractors and material suppliers and other data requested by the Owner to substantiate the Contractor's right to payment, or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.4.3 The Architect will affix his signature to the same form described in Paragraph 9.3.4 to signify his certification of payment provided the application is otherwise satisfactory.

§ 9.4.4 The issuance of a Certificate for Payment shall constitute a recommendation to the Owner regarding the amount to be paid, this recommendation is not binding on the Owner if the Owner knows of other reasons under the Contract Documents why payment should be withheld.

### § 9.5 Decisions to Withhold Certification

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§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- .1 defective Work not remedied;
- .2 third party claims filed or reasonable evidence indicating probable filing of such claims, unless security acceptable to the Owner is provided by the Contractor;
- .3 failure of the Contractor to make payments properly to Subcontractors or for labor, materials or equipment;
- .4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- .5 damage to the Owner or a Separate Contractor;
- reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid .6 balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- .7 persistent failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When the above reasons for withholding certification are removed, certification will be made for amounts previously withheld.

### (Paragraphs deleted)

### § 9.6 Progress Payments

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

§ 9.6.2 The Contractor shall pay each Subcontractor, no later than seven (7) days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 Neither the Owner nor Architect shall have an obligation to pay or to see to the payment of money to a Subcontractor except as may otherwise be required by law.

§ 9.6.5 Payments to material and equipment suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors and suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, shall create any fiduciary liability or tort liability on the part of the Contractor for breach of trust or shall entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

### (Paragraph deleted)

§ 9.6.8 Based upon Applications for Payment and supporting documents including monthly updates of record drawings submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided in the conditions of the Contract as follows:

95% of the proportion of the Contract Sum properly allocable to labor, materials and equipment incorporated in the Work and 95% of the portion of the Contract Sum properly allocable to materials and equipment suitably stored at the site or at some other location agreed upon in writing by the parties; less the aggregate of previous payments in each case; and upon Substantial Completion of the entire work, a sum sufficient to increase the total payments to 95% of the Contract Sum less such retainages as the Architect shall determine for all incomplete work and unsettled claims.

Owner reserves the right to require that conditional Lien Releases be submitted by the Contractor and all subcontractors, sub-subcontractors and major suppliers with each Application for Payment after the first Application for Payment for which payment was made by the Owner for the certified amount for all previous applications for payments. Owner may withhold payment on-line items for which a lien or claim (or similar notice of intent) has been filed, until satisfactory release has been received by Owner.

Contractor shall not withhold as retainage a greater percentage for the Subcontractors or materialmen than the percentage that Owner withheld as retainage from payments to the Contractor.

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# § 9.7 Failure of Payment

If the Architect does not issue a Certificate for Payment or notify Contractor of rejection, through no fault of the Contractor, within seven (7) days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven (7) days after the date established in the Contract Documents the amount certified by the Architect, then the Contractor may, upon seven (7) additional days' written notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shut-down, delay and start-up, plus interest as provided for in the Contract Documents.

§ 9.7.1 If the Owner is entitled to reimbursement or payment from the Contractor under or pursuant to the Contract Documents, then such payment shall be made promptly upon demand by the Owner. Any payments that are past due more than thirty (30) days after the Owner's invoice date may result in owner's rejection of Application for Payment.

#### **Substantial Completion** § 9.8

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work is sufficiently complete for the Owner to occupy, operate, and maintain the Work. Owner and Architect shall make the final determination as to which provisions of the Contract Documents are necessary to meet this criteria, whether or not such requirements are specifically enumerated in this Section or in other portions of the Contract Documents as being specifically required for Substantial Completion.

§ 9.8.1.1 The following items are a partial list of requirements, as applicable to the Project, that must be completed prior to the established Substantial Completion. This is not intended to be an exhaustive list, but a guideline:

- All fire alarm system components must be completed and demonstrated to the Owner. 1.
- All inspections by government authorities having jurisdiction over the project must have been 2. finalized, any remedial work required by them must have been completed, and Certificates of Occupancy, local fire marshal and health department approval certificates and similar governmental approval forms must have been issued and copies delivered to the Owner and Architect.
- All exterior clean-up and landscaping must be complete, including required stand of grass mowed, 3. edged, weeded, and fertilized.
- 4. All interior shall have been completed and cleaned except minor items which, if complete after occupancy, will not, in the Owner's opinion, cause interference to the Owner's use of the building or any portion thereof. Contractor shall provide list of these specific items, which include punch list and completion items. A significantly large number of items to be completed or corrected will preclude the Architect from issuing a Certificate of Substantial Completion. The Owner and Architect shall be the sole judge of what constitutes a significantly large number of items.
- 5. All third-party HVAC air and water balancing must be complete.
- 6. All energy management systems must be complete, fully operational and demonstrated to the Owner, with graphics transferred to the main server.
- All emergency/standby generator and low voltage lighting control systems must be complete, fully 7. operational and demonstrated to the Owner.
- All security systems must be complete, fully operational and demonstrated to the Owner, and must be 8. monitorable from the District's central Police/Security Center.
- All school communications equipment, telephone systems and P.A. systems must be complete and 9. demonstrated to the Owner.
- 10. All final lockset cores must be installed and all final Owner directed keying completed.
- 11. All room plaques and exterior signage must be complete.
- 12. All Owner demonstrations must be completed including kitchen equipment, HVAC equipment, plumbing equipment, and electrical equipment and all life safety systems.
- 13. A final certificate of occupancy must be signed by the Contractor and delivered to the Owner.
- 14. All operation and maintenance manuals are delivered and approved by Architect and Owner ("D-slant" ring binders in duplicate).
- 15. Health Department Inspections and Municipal Utility District (MUD) and Drainage District and County approvals must be provided.
- All other reports, testing results, certifications, studies, etc. required by Contract Documents. 16.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of

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items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy, operate, and maintain the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion, shall establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate.

### § 9.9 Partial Occupancy or Use

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer as required under Article 11 and authorized by public authorities having jurisdiction over the Work. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor, and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

### § 9.10 Final Completion and Final Payment

§ 9.10.1 Upon receipt of the Contractor's written notice that the Work is ready for final inspection and acceptance, the Architect will promptly make such inspection. When the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, and the Owner agrees that all closeout requirements have been fulfilled, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with terms and conditions of the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner, (3) a written statement that the Contractor

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knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment and (5), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner.

§ 9.10.3 Prior to final payment, the Contractor shall submit in triplicate (one (1) original and two (2) copies) to the Architect the following completed forms:

- Contractor's Affidavit of Payment of Debts and Claims, AIA Document G706. 1.
- 2. Contractor's Affidavit of Release of Liens, AIA Document G706A
- 3. Consent of Surety to Final Payment, AIA Document G707.
- 4. General Contractor's Guarantee - notarized
- 5. Subcontractor's Warrantees from each Subcontractor on Final Subcontractor List
- 6. All Subcontractors and suppliers and also any other parties that had submitted claims of non-payment shall submit Conditional Lien Releases - notarized. Executed document shall be dated within thirty (30) days of submission of final pay application.
- 7. Each Offeror (and Subcontractor and supplier submitting a proposal to an Offeror) shall submit a notarized affidavit stating that no asbestos, PCB or lead containing building materials were used on Owner's form.
- 8. Maintenance, inspection and warranty manuals. Two (2) sets of each bound in a 3-inch "D-slant" ring binder.
- 9. Record drawings. See Section 3.20.
- 10. Final Subcontractor List.
- Refer to Specification Section 01 77 00, Guarantees, Certificates and Project Closeout for any 11. additional information and requirements.
- 12. Executed TEA Project Compliance Certificate Form (Form 'AL').
- 13. Executed project Close-Out Form (Form 'AO'), and any additional provisions stated on Form 'AO' as being the responsibility of Contractor.

Documents identified as affidavit must be notarized. All documents requiring signatures must have original signatures (no stamps), and must indicate printed name of signer. All manuals will contain an index listing the information submitted. The index sections will be divided and identified by tabbing each section as listed in the index.

All Manufacturers' warranties must be on manufacturer's original form, indicating project name, and length of warranty.

The Owner may accept certain portions of the work as being complete prior to the acceptance of the entire project. If certain areas are accepted by the Owner as being complete, and if the Contractor has completed all of the requirements for final payment of that portion of work, the Owner may release retainage for that area/portion of work. Amounts of retainage shall be agreed upon by both Owner and Contractor prior to final acceptance of these areas.

Refer to Project Manual for additional requirements.

## § 9.10.4

### (Paragraphs deleted)

If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

§ 9.10.5 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

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- liens, Claims, security interests or encumbrances arising out of the Contract and unsettled; .1
- .2 failure of the Work to comply with the requirements of the Contract Documents; or
- .3 terms of special warranties required by the Contract Documents.

§ 9.10.6 Acceptance of final payment by the Contractor, a Subcontractor or material supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

#### ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

## § 10.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.1.1 Contractor's employees, agents, and Subcontractors and Sub-subcontractors shall not perform any service under this Contract while under the influence of alcohol or any controlled substance. Contractor, its employees, agents, and Subcontractors shall not use, possess, distribute, or sell illicit or unprescribed controlled drugs or drug paraphernalia, or misuse legitimate prescription drugs while performing the Work. Contractor, its employees, agents, and Subcontractors shall not use, possess, distribute, or sell alcoholic beverages while performing the Work.

§ 10.1.2 Contractor has adopted or will adopt its own policy to assure a drug and alcohol-free workplace while performing the Work. Contractor will remove any of its employees from performing the Work any time there is suspicion of alcohol and/or drug use, possession, or impairment involving such employee, and at any time an incident occurs where drug or alcohol use could have been a contributing factor. Owner has the right to require Contractor to remove employees from performing the Work any time cause exists to suspect alcohol or drug use. In such cases, Contractor's employees may only be considered for return to work after the Contractor certifies as a result of a for-cause test, conducted immediately following removal that said employee was in compliance with this Contract. Contractor will not use an employee to perform the Work who either refuses to take, or tests positive in any alcohol or drug test.

§ 10.1.3 Contractor will comply with all applicable federal, state, and local drug and alcohol related laws and regulations (e.g., Department of Transportation regulations, Department of Defense Drug-free Work-free Workforce Policy, Drug-Free Workplace Act of 1988). Owner has also banned the presence of all weapons on the Project Site, whether or not the owner thereof has a permit for a concealed weapon.

## § 10.2 Safety of Persons and Property

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury, or loss to

- employees on the Work and other persons who may be affected thereby; .1
- .2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody, or control of the Contractor, a Subcontractor, or a Sub-subcontractor; and
- .3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

§ 10.2.2 The Contractor shall comply with, and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, bearing on safety of persons or property or their protection from damage, injury, or loss.

§ 10.2.3 The Contractor shall erect and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent sites and utilities.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel. When use or storage of explosives or other Hazardous Substances (as hereinafter defined) or equipment or unusual construction methods are necessary, the Contractor shall give the Owner reasonable advance notice of the presence or use of such materials, equipment, or methods. Contractor shall be

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responsible for any Hazardous Substances Contractor or Contractor's employees, contractors, consultants, subcontractors, sub-subcontractors, materialmen, and suppliers use, store, or otherwise introduce to the Premises.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3, except damage or loss attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

### (Paragraphs deleted)

§ 10.2.8 The Contractor shall be responsible for taking all precautions necessary to protect the work in place from any weather conditions including without limitations to flooding, freezing, high winds, tropical storms, hurricanes, etc. which could cause any potential damage to portions or all work in place. The Contractor shall be responsible for performing all repairs and/or replacement of any work that results from such weather conditions.

### § 10.3 Hazardous Materials

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to the Owner and Architect in writing.

§ 10.3.2 If requested in writing by the Contractor, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to verify that it has been rendered harmless. If requested in writing by the Contractor or Architect, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of such material or substance or who are to perform the task of removal or safe containment of such material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection.

### (Paragraphs deleted)

§ 10.4 The Owner shall not be responsible under this Section 10.3 for materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents.

### § 10.5 Emergencies

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Section 4.3.7.

### § 10.6 Asbestos, Lead or PCBs Containing Materials

§ 10.6.1 The contractor and each subcontractor, sub-subcontractor and suppliers prior to final payment, shall submit an original notarized statement on their letterhead certifying "to the best of their information, knowledge, and belief asbestos-, lead-, and PCB-containing materials, and have not been used or incorporated into the Work and lead or lead-bearing materials have not been incorporated into potable water systems." For the purpose of definition as used in

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this statement, the term "potable water systems" includes, but is not limited to, those water systems for drinking fountains, all sinks, showers, bath tubs, residential and commercial kitchen equipment, ice machines, and hose bibs, as applicable to the project.

§ 10.6.2 To the best knowledge of the Owner, the Architect and his consultants, no products or materials containing asbestos or polychlorinated biphenyl (PCB) or other toxic substances have been specified for this project. No products or materials containing asbestos or PCB are to be incorporated in this project. In the event the Contractor or his Sub-contractors become aware that any products or materials specified, ordered, scheduled for or already incorporated in the work on this project, contain asbestos, or PCB, the situation shall be reported immediately to the Owner and Architect in writing. An acceptable, equal substitute for the product or material in question shall be proposed by the Contractor and the product or material in question, if already onsite or incorporated in the work, shall be removed from the site immediately and returned to the supplier or manufacturer.

#### ARTICLE 11 **INSURANCE AND BONDS**

### § 11.1 Contractor's Liability Insurance

### (Paragraph deleted)

§ 11.1.1 Refer to Section BD - Insurance and Bonds Requirements for Contractors and Facility Renters Cypress-Fairbanks Independent School District Insurance Management. The Contractor and Contractor's Subcontractors shall purchase and maintain, in a company or companies licensed and admitted by the Texas Department of Insurance to engage in the business of furnishing insurance in the State of Texas, the types and amounts of insurance as set forth in Section BD of the Agreement to protect it and the Owner from claims that may arise out of, or result from, the Contractor's operations under the Contract, whether such operations be by itself, or by any Subcontractor, or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. All insurance companies shall have an "A-VIII" in Best's Rating Guide and shall be satisfactory to the Owner. No Work will be commenced until all requirements of this Article have been approved by the Owner in writing.

§ 11.1.2 The insurance required by Section BD - Insurance and Bonds Requirements for Contractors and Facility Renters Cypress-Fairbanks Independent School District Insurance Management shall be written for not less than limits of liability specified in the Contract Documents or required by law, whichever coverage is greater. Coverages, whether written on an occurrence or claims-made basis, shall be maintained without interruption from date of commencement of the Work until dates specified in Section BD.

§ 11.1.3 Original Certificates of insurance acceptable to the Owner shall be filed with the Owner prior to commencement of the Work. These certificates and the insurance policies required by this Section BD - Insurance and Bonds Requirements for Contractors and Facility Renters Cypress-Fairbanks Independent School District Insurance Management shall contain a provision that coverages afforded under the policies will not be canceled or allowed to expire until at least thirty (30) days prior written notice has been given to the Owner. If any of the foregoing insurance coverages are required to remain in force after final payment and are reasonably available, an additional certificate evidencing continuation of such coverage shall be submitted with the Final Application for Payment as required by Section 9.10.2. Information concerning reduction of coverage on account of revised limits or claims paid under the General Aggregate, or both, shall be furnished by the Contractor with reasonable promptness in accordance with the Contractor's information and belief.

### (Paragraphs deleted)

### § 11.2 Owner's Liability Insurance

§ 11.2.1 The Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance.

### (Paragraphs deleted)

### § 11.3 Project Management Protective Liability Insurance

§ 11.3.1 Optionally, the Owner may require the Contractor to purchase and maintain Project Management Protective Liability insurance from the Contractor's usual sources as primary coverage for the Owner's, Contractor's and Architect's vicarious liability for construction operations under the Contract. Unless otherwise required by the Contract Documents, the Owner shall reimburse the Contractor by increasing the Contract Sum to pay the cost of purchasing and maintaining such optional insurance coverage, and the Contractor shall not be responsible for purchasing any other liability insurance on behalf of the Owner. The minimum limits of liability purchased with such coverage shall be equal to the aggregate of the limits required for Contractor's Liability Insurance under Section 11.1.

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## (Paragraphs deleted)

§ 11.3.2 To the extent damages are covered by Project Management Protective Liability insurance, the Owner, Contractor and Architect waive all rights against each other for damages, except such rights as they may have to the proceeds of such insurance. The policy shall provide for such waivers of subrogation by endorsement or otherwise.

## § 11.4 Performance Bond and Payment Bond

§ 11.4.1 The Owner requires the Contractor to furnish payment and performance bonds covering faithful performance of the Contract and payment of obligations arising thereunder as stipulated in bidding requirements or specifically required in the Contract Documents on the date of execution of the Contract in a total amount equal to 100% of the Contract Sum and in conformity with applicable law. All bonds shall be issued by a surety company licensed, listed, and authorized to issue bonds in the State of Texas by the Texas Department of Insurance. The surety company may be required by the Owner to have a rating of not less than "B" in the latest edition of Best's Insurance Reports, Property-Casualty. The surety company shall provide, if requested, information on bonding capacity, other projects under coverage and shall provide proof to establish adequate financial capacity for the Project. Should the bond amount be in excess of ten percent (10%) of the surety company's capital and surplus, the surety company issuing the bond shall certify that the surety company has acquired reinsurance, in a form and amount acceptable to the Owner, to reinsure the portion of the risk that exceeds ten percent (10%) of the surety company's capital and surplus with one or more reinsurers who are duly authorized and admitted to do business in Texas and that amount reinsured by a reinsurer does not exceed ten percent (10%) of the reinsurers capital and surplus.

§ 11.4.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall permit a copy to be made.

§ 11.4.3 The Contractor shall deliver the required Bonds to the Owner not later than the date of the preconstruction meeting if the Contract has been executed by Owner. All Bonds will be reviewed and approved by the Owner for compliance with the Contract Documents prior to the Contractor mobilizing onsite. Upon Owner approval, the Contractor will be allowed to mobilize onsite.

§ 11.4.4 All bonds shall be originals. The Contractor shall require the attorney in fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of the power of attorney. The name, address, and telephone number of a contact person for the Bonding Company shall be provided.

§ 11.4.5 Bonds shall guarantee the faithful performance of all the covenants, stipulations, and agreements of the Contract. Bonds shall be signed by an agent resident in the State of Texas and date of bond shall be the date of execution of the Contract. If at any time during the continuance of the Contract, the surety of the Contractor's bonds becomes insufficient, the Owner shall have the right to require additional and sufficient sureties which the Contractor shall furnish to the satisfaction of the Owner within ten (10) days after notice to do so. In default thereof, all payment or money due to the Contractor may be withheld until Contractor provides additional surety.

§ 11.4.6 It is distinctly understood that no mechanic, contractor, Contractor, materialman, vendor, artisan or laborer, skilled or unskilled, shall have, claim or acquire any lien upon the Project or any of the improvements in the Project, nor upon any of the land upon which the Project is located.

### ARTICLE 12 UNCOVERING AND CORRECTION OF WORK § 12.1 Uncovering of Work

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be at the Owner's expense. If such Work is not in accordance with the Contract Documents, such costs and the cost of correction shall be at the Contractor's expense unless the condition was caused by the Owner or a separate contractor in which event the Owner shall be responsible for payment of such costs.

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### § 12.2 Correction of Work

## § 12.2.1 Before or After Substantial Completion

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

### § 12.2.2 After Substantial Completion

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one (1) year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.4.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

### (Paragraph deleted)

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of the Owner or separate contractors caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

### § 12.3 Acceptance of Nonconforming Work

§ 12.3.1 If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

## ARTICLE 13 MISCELLANEOUS PROVISIONS

### § 13.1 Governing Law

Init.

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§ 13.1.1 The Contract shall be governed by Texas law and mandatory and exclusive venue for any disputes shall be in Harris County, Texas.

### § 13.2 Successors and Assigns

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns and legal representatives to the other party hereto and to partners, successors, assigns and legal representatives of such other party in respect to covenants, agreements and obligations contained in the Contract Documents. Neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make such

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an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

### (Paragraph deleted)

### § 13.3 Written Notice

Written notice shall be deemed to have been duly served if delivered in person to the individual, to a member of the firm or entity, or to an officer of the corporation for which it was intended; or if delivered at, or sent by registered or certified mail or by courier service providing proof of delivery to, the last business address known to the party giving notice.

### (Paragraphs deleted)

### § 13.4 Rights and Remedies

§ 13.4.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law.

§ 13.4.2 No action or failure to act by the Owner, Architect or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach there under, except as may be specifically agreed in writing.

### (Paragraphs deleted)

### § 13.5 Tests and Inspections

§ 13.5.1 Tests, inspections and approvals of portions of the Work required by the Contract Documents or by laws, ordinances, rules, regulations or orders of public authorities having jurisdiction shall be made at an appropriate time. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of tests, inspections or approvals which do not become requirements until after bids are received or negotiations concluded.

§ 13.5.2 If the Architect, Owner or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection or approval not included under Section 13.5.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection or approval by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.5.3, shall be at the Owner's expense.

§ 13.5.3 If such procedures for testing, inspection or approval under Sections 13.5.1 and 13.5.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure including those of repeated procedures and compensation for the Architect, their Consultants, or Owner's Third Party Consultant services, and expenses shall be at the Contractor's expense.

§ 13.5.4 Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.5.5 If the Architect is to observe tests, inspections or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.5.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

### § 13.6 Commencement of Statutory Limitation Period

- § 13.6.1 As between the Owner and Contractor:
  - .1 Before Substantial Completion. As to acts or failures to act occurring prior to the relevant date of Substantial Completion, any applicable statute of limitations shall commence to run and any alleged

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cause of action shall be deemed to have accrued in any and all events not later than such date of Substantial Completion;

- .2 Between Substantial Completion and Final Certificate for Payment. As to acts or failures to act occurring subsequent to the relevant date of Substantial Completion and prior to issuance of the final Certificate for Payment, any applicable statute of limitations shall commence to run and any alleged cause of action shall be deemed to have accrued in any and all events not later than the date of issuance of the final Certificate for Payment; and
- .3 After Final Certificate for Payment. As to acts or failures to act occurring after the relevant date of issuance of the final Certificate for Payment, any applicable statute of limitations shall commence to run and any alleged cause of action shall be deemed to have accrued in any and all events not later than the date of any act or failure to act by the Contractor pursuant to any Warranty provided under Section 3.5, the date of any correction of the Work or failure to correct the Work by the Contractor under Section 12.2, or the date of actual commission of any other act or failure to perform any duty or obligation by the Contractor or Owner, whichever occurs last.

§ 13.7 Refer to Specification Sections 01 35 23, 01 35 23.1 and 01 35 23.2 - Special Owner Requirements for additional requirements to be included as part of the Contract.

§ 13.8 The Owner shall have the right to examine, copy and/or audit the books and other records in possession of the Contractor relating to this Contract at any time deemed necessary by the Owner.

## ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

### § 14.1 Termination by the Contractor

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of sixty (60) consecutive days through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, for any of the following reasons:

- Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be .1 stopped;
- .2 An act of government, such as a declaration of national emergency, that requires all Work to be stopped;
- .3 Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or
- .4 The Owner has failed to furnish to the Contractor promptly, upon the Contractor's request, reasonable evidence as required by Section 2.2.1.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, repeated suspensions, delays or interruptions of the entire Work by the Owner as described in Section 14.3 constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven (7) days' written notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work properly executed and for proven loss with respect to materials, equipment, tools, and construction equipment and machinery, including reasonable miscellaneous fees, profit, and damages.

§ 14.1.4 If the Work is stopped for a period of sixty (60) consecutive Calendar Days through no act or fault of the Contractor or a Subcontractor or their agents or employees or any other persons performing portions of the Work under contract with the Contractor because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven (7) additional days' written notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

# § 14.2 TERMINATION BY THE OWNER FOR CAUSE

(Paragraphs deleted)

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### § 14.2.1 The Owner may terminate the Contract if the Contractor

- repeatedly refuses or fails to supply enough properly skilled workers or proper materials; .1
- .2 fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
- .3 repeatedly disregards laws, ordinances, or rules and regulations, or orders of a public authority having jurisdiction; or
- otherwise is guilty of substantial breach of a provision of the Contract Documents. .4
- .5 fails to furnish the Owner, upon written request, with assurances satisfactory to the Owner, evidencing the Contractor's ability to complete the Work in compliance with all the requirements of the Contract Documents;
- .6 engages in serious or repeated worker misconduct in violation of Article 3.3.2;
- .7 engages in conduct that would constitute a violation of state or federal criminal law, including but not limited to, the laws prohibiting certain gifts to public servants, or engages in conduct that would constitute a violation of the Owner's ethics or conflict of interest policies; or
- 8. fails to proceed continuously and diligently with the construction and completion of the Work, except as permitted under the Contact Documents.

§ 14.2.2 When any of the above reasons exist, the Owner may without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven (7) days' written notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

- Exclude the Contractor from the site and take possession of the site and all materials, equipment, tools, .1 and construction equipment and machinery thereon owned by the Contractor;
- .2 Accept assignment of subcontracts pursuant to Section 5.4; and
- .3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

## (Paragraph deleted)

§ 14.2.3 The parties hereby agree that: 1) if an order for relief is entered on behalf of the Contractor, pursuant to Chapter 11 of the U.S. Bankruptcy Code; 2) if any other similar order is entered under any debtor relief laws; 3) if Contractor makes assignments for the benefit of one or more of its creditors; 4) if a receiver is appointed for the benefit of its creditors; or 5) if a receiver is appointed on account of its insolvency, any such event could impair or frustrate Contractor's performance of the Contract Documents. Accordingly, it is agreed that upon occurrence of any such event, Owner shall be entitled to request of Contractor or its successor in interest, adequate assurance of future performance in accordance with the terms and conditions of the Contract Documents. Failure to comply with such request within ten (10) days of delivery of the request shall entitle Owner to terminate the Contract and to the accompanying rights set forth in Subparagraphs 14.2.1 through 14.2.6. In all events, pending receipt of adequate assurance of performance and actual performance in accordance with the Contract Documents, Owner shall be entitled to proceed with the Work with Owner's own forces or with other Contractors on a time and material or other appropriate basis, the cost of which will be charged against the Contract Sum.

§ 14.2.4 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.5 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Architect, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.2.6 Contractor hereby assigns the Owner any and all claims for overcharges associated with this Contract which arise under the antitrust laws of the United States, 15 U.S.C.A. Section 1 ET.SEQ. (1973).

## § 14.3 Suspension by the Owner for Convenience

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work, in whole or in part for such period of time as the Owner may determine.

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§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay or interruption as described in Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

- .1 that performance is, was, or would have been, so suspended, delayed, or interrupted, by another cause for which the Contractor is responsible; or
- .2 that an equitable adjustment is made or denied under another provision of the Contract.

### § 14.4 Termination by the Owner for Convenience

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of written notice from the Owner of such termination for the Owner's convenience, the Contractor shall

- .1 cease operations as directed by the Owner in the notice;
- .2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and
- .3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Contractor shall be entitled to receive payment from the Owner on the same basis provided in Section 14.1.3.

### (Paragraphs deleted)

### ARTICLE 15 LABOR STANDARDS (Paragraphs deleted) § 15.1 PREVAILING WAGE RATES

### (Paragraphs deleted)

§ 15.1.1. Contractor, Contractor's Subcontractors and Sub-subcontractors shall pay all workers not less than the general prevailing rate of per diem wages for work of a similar character where the project is located as detailed in the "Minimum Wage Schedule" in section CB of the specifications, or as otherwise provided in the Contract Document. Wages listed are minimum rates only. However, no claims for additional compensation above the Contract Sum shall be considered by the Owner because of payments of wage rates in excess of the applicable rate provided herein. Texas Government Code § 2258.001 et seq.

### (Paragraphs deleted)

§ 15.1.2 Contractor shall forfeit, as a penalty to the Owner, \$60 for each laborer, worker, or mechanic, employed for each calendar day or part of the day that the worker is paid less than the wage rates stipulated in the Contract Documents.

### (Paragraphs deleted)

§ 15.1.3 Owner reserves the right to receive and review payroll records, payment records, and earning statements of employees of Contractor, and of Contractor's Subcontractors and Sub-subcontractors.

### (Paragraphs deleted)

§ 15.1.4 If no prevailing wage rate schedule is made part of the Contract Documents, then the parties shall use the wage rate determined by the U.S. Department of Labor in accordance with the Davis-Bacon Act, 40 U.S.C. § 276a. (Paragraphs deleted)

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## SECTION 08 41 13 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. Exterior and interior aluminum-framed storefronts.
- B. Exterior and interior manual-swing aluminum doors.
- C. Related Sections include the following:
  - 1. Division 07 Section "Joint Sealants" for installation of joint sealants installed with aluminum-framed systems and for sealants to the extent not specified in this Section.
  - 2. Division 08 Section "Door Hardware" for hardware to the extent not specified in this Section.
  - 3. Division 08 Section "Glazing" for glazing requirements to the extent not specified in this Section.
  - 4. Division 26 Sections for electrical connections including conduit and wiring for door controls and operators installed on frames with factory installed electrical knock out boxes.

### 1.2 ACTION SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components, manufacturer's specifications, technical product data, performance values, standard details for the products specified, manufacturer's recommendation for installation and certification of the Installation Subcontractor, and profiles, and finishes for each type of product indicated
- B. Shop Drawings: For aluminum-framed systems. Include plans, elevations, sections, details, and attachments to other work prepared by the aluminum entrance manufacturer.
  - 1. Include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation. Data shall include deflection and stress analysis, joinery attachment analysis, and perimeter anchorage for each unique perimeter attachment condition.
  - 2. Include details of provisions for system expansion and contraction and for draining moisture occurring within the system to the exterior.
  - 3. For entrances, include hardware schedule and indicate operating hardware types, functions, quantities, and locations.
  - 4. Indicate location of each door type, component dimensions and field verified openings. Continue the door numbering system established in the Architectural Drawings. Elevations of each unit, drawn at 1/2-inch = 1'-0" scale. Indicate frame joinery. Full size section details of every typical member. Anchorage fastener type and location, straps/plates, and reinforcing steel as required by structural calculations.Glass and glazing.Perimeter sealants. Show connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
- C. Samples for Verification: For each type of exposed finish required, in manufacturer's standard sizes.

- D. Fabrication Sample: Of each vertical-to-horizontal intersection of assemblies, made from 12-inch lengths of full-size components and showing details of the following:
  - 1. Joinery, including concealed welds.
  - 2. Anchorage.
  - 3. Expansion provisions.
  - 4. Glazing.
  - 5. Flashing and drainage.Structural Calculations: Submit structural calculations and anchorage details prepared by an independent structural engineer registered in the State of Texas, indicating adequacy of all installed materials, to meet the structural load requirements as required by the uniform load structural test and the uniform load deflection test.
- F. Entrance Door Hardware Schedule: Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.
  - 1. Door manufacturer shall confirm that they have received approved hardware shop drawings and associated cut outs and templates for proper door preparation
- G. Delegated-Design Submittal: For aluminum-framed entrances and storefronts indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

## 1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and testing agency.
- B. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for aluminum-framed systems.
- C. Energy Performance Certificates: For aluminum-framed entrances and storefronts, accessories, and components, from manufacturer.
  - 1. Basis for Certification: NFRC-certified energy performance values for each aluminum-framed entrance and storefront.
- D. Quality-Control Program: Developed specifically for Project, including fabrication and installation, according to recommendations in ASTM C 1401. Include periodic quality-control reports.
- E. Welding certificates.
- F. Operation and Maintenance Manuals: Submit manufacturer's operating and maintenance manuals for entrance hardware per requirements of Division 01.
- G. Warranties: Special warranties specified in this Section.

### 1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Manufacturer capable of providing structural calculations, applicable independent product test reports, installation instructions, a review of the application method, customer approval and periodic field service representation during construction.

- B. Installer Qualifications: Capable of assuming engineering responsibility and performing work of this Section and who is acceptable to manufacturer.
  - 1. Engineering Responsibility: Preparation of data for aluminum-framed systems including Shop Drawings based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project and submission of reports of tests performed on manufacturer's standard assemblies.
- C. Source Limitations: Obtain each type of aluminum windows, entrance and storefront system and glazed aluminum curtain walls through one source from a single manufacturer of units identical to those specified.
- D. Testing Agency Qualifications: An independent agency qualified according to ASTM E 699 for testing indicated.
- E. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
  - 1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.
- F. Welding: Qualify procedures and personnel according to AWS D1.2, "Structural Welding Code--Aluminum.
- G. Installer's Certification: The Installation Subcontractor shall be a firm with a minimum of five years experience specializing in the proper installation of the specified aluminum entrance assemblies.
- H. Manufacturer's Certification: Manufacturers shall submit written certification that the Installation Subcontractors have been approved by them to install their products.
- I. Pre- Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and procedures for installing aluminum framed entrances and storefronts and to verify installation of electrical knockout boxes and conduit at frames with electrified or access control hardware.

# 1.5 PROJECT CONDITIONS

- A. Field Measurements: Verify actual locations of structural supports for aluminum-framed systems by field measurements before fabrication and indicate measurements on Shop Drawings.
  - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating aluminum-framed systems without field measurements. Coordinate construction to ensure that actual dimensions correspond to established dimensions.

### 1.6 WARRANTY

- A. Special Assembly Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of aluminum-framed systems that do not comply with requirements or that deteriorate as defined in this Section within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Structural failures including, but not limited to, excessive deflection.
    - b. Noise or vibration caused by thermal movements.
    - c. Deterioration of metals and other materials beyond normal weathering.
    - d. Water leakage (weathertight) through fixed glazing and framing areas.
    - e. Failure of operating components to function properly.
- B. Warranty Period: Five years from date of Substantial Completion.
- C. Special Finish Warranty: Standard form in which manufacturer agrees to repair finishes or replace aluminum that shows evidence of deterioration of factory-applied finishes within specified warranty period.
  - 1. Deterioration includes, but is not limited to, the following:
    - a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
    - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
    - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
- D. Warranty Period: 20 years from date of Substantial Completion.

#### PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Section 01 40 00 "Quality Requirements," to design aluminum-framed entrances and storefronts.
- B. General: Provide aluminum-framed systems tested within the last five years on a representative entrance assembly of the type, size and model proposed for this Project, including anchorage, capable of withstanding, without failure, the effects of the following:
  - 1. Structural loads.
  - 2. Thermal movements.
  - 3. Movements of supporting structure indicated on Drawings including, but not limited to, story drift and deflection from uniformly distributed and concentrated live loads.
  - 4. Dimensional tolerances of building frame and other adjacent construction.
  - 5. Failure includes the following:
    - a. Deflection exceeding specified limits.
    - b. Thermal stresses transferred to building structure.
    - c. Framing members transferring stresses, including those caused by thermal and structural movements, to glazing.
    - d. Noise or vibration created by wind and thermal and structural movements.
    - e. Loosening or weakening of fasteners, attachments, and other components.
    - f. Sealant failure.
    - g. Failure of operating units to function properly.
    - h. Glazing-to-glazing contact.
- C. Structural Loads:

- D. Provide system that is identical to systems that have been successfully tested by a qualified testing and inspecting agency to resist uplift pressure calculated according to IBC 2012 and the structural drawings based on the following criteria:
  - 1. Design Wind Pressures: Refer to structural drawings
- E. Deflection of Framing Members:
  - 1. Deflection Normal to Wall Plane: Limited to 1/175 of clear span for spans up to 13 feet 6 inches and to 1/240 of clear span plus 1/4 inch for spans greater than 13 feet 6 inches
  - 2. Deflection Parallel to Glazing Plane: Limited to amount not exceeding that which reduces glazing bite to less than 75 percent of design dimension and that which reduces edge clearance between framing members and glazing or other fixed components directly below to less than 1/8 inch and clearance between members and operable units directly below to less than 1/16 inch.
- F. Structural-Test Performance: Provide aluminum-framed systems tested according to ASTM E 330 as follows:
  - 1. When tested at positive and negative wind-load design pressures, systems do not evidence deflection exceeding specified limits.
  - 2. When tested at 150 percent of positive and negative wind-load design pressures, systems, including anchorage, do not evidence material failures, structural distress, and permanent deformation of main framing members exceeding 0.2 percent of span.
  - 3. Test Durations: As required by design wind velocity but not less than 10 seconds.
- G. Air Infiltration: Provide aluminum-framed systems with maximum air leakage through fixed glazing and framing areas of 0.06 cfm/sq. ft. of fixed wall area when tested according to ASTM E 283 at a minimum static-air-pressure difference of 6.24 lbf/sq. ft.
- H. Water Penetration Under Static Pressure: Provide aluminum-framed systems that do not evidence water penetration through fixed glazing and framing areas when tested according to ASTM E 331 at a minimum static-air-pressure difference of 20 percent of positive wind-load design pressure, but not less than 8.0 lbf/sq..
- I. Energy Performance: Certify and label energy performance according to NFRC as follows:
  - 1. Average Thermal Conductance: Provide aluminum-framed systems with fixed glazing and framing areas having average U-factor of not more than 0.69 Btu/sq. ft. x h x deg F (3.92 W/sq. m x K) when tested according to AAMA 1503.
  - 2. Solar Heat Gain Coefficient: Fixed glazing and framing areas shall have a solar heat gain coefficient of no greater than 0.40 as determined according to NFRC 200.
  - 3. Condensation Resistance: Provide aluminum-framed systems with fixed glazing and framing areas having condensation-resistance factor (CRF) of not less than 53 when tested according to AAMA 1503.
- J. Thermal Movements: Provide aluminum-framed systems, including anchorage, that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
  - 1. Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
  - Test Performance: No buckling; stress on glass; sealant failure; excess stress on framing, anchors, and fasteners; noise or vibrations, and other detrimental effects or reduction of performance when tested according to AAMA 501.5.

- a. Test High Exterior Ambient-Air Temperature: That which produces an exterior metal-surface temperature of 240 deg F
- b. Test Low Exterior Ambient-Air Temperature: 30 deg F
- c. Test Interior Ambient-Air Temperature: 75 deg F

### 2.2 MANUFACTURERS

- A. Basis-of-Design Product: The design for aluminum-framed systems is based on named products by the Kawneer Company as listed. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:
  - 1. Kawneer
  - 2. Oldcastle
  - 3. Atlas Architectural Metals
  - 4. EFCO Corporation
  - 5. TRACO
  - 6. Vistawall
  - 7. ARCH Aluminum & Glass, Amarlite
- B. Source Limitations: Obtain all components of aluminum-framed entrance and storefront system, including framing and accessories, from single manufacturer.

### C. Named Products:

- 1. <u>Type SF-01: Kawneer Trifab 451T Storefront, 2 inch by 4-1/2 inch, pre-assembled.</u>
- Storefront: Kawneer IR 500/501 Framing System as required to accommodate indicated glazing thicknesses from 1/4 to 1-5/16 inch; center glazed.
   4.a. Size: 2-1/2 x 5 inch.

# 2.3 MATERIALS

- A. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
  - 1. Sheet and Plate: ASTM B 209 5005 H34 (anodic).
  - 2. Extruded Bars, Rods, Profiles, and Tubes: Prime billet 6063T6 ASTM B 221.
  - 3. Extruded Structural Pipe and Tubes: ASTM B 429.
  - 4. Structural Profiles: ASTM B 308/B 308M.
  - 5. Welding Rods and Bare Electrodes: AWS A5.10/A5.10M.
- B. Steel Reinforcement: Manufacturer's standard zinc-rich, corrosion-resistant primer, complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM and prepare surfaces according to applicable SSPC standard.
  - 1. Structural Shapes, Plates, and Bars: ASTM A 36/A 36M.
  - 2. Cold-Rolled Sheet and Strip: ASTM A 1008/A 1008M.
  - 3. Hot-Rolled Sheet and Strip: ASTM A 1011/A 1011M.

### 2.4 FRAMING SYSTEMS

A. Framing Members: Manufacturer's standard extruded-aluminum framing members of thickness required and reinforced as required to support imposed loads.

- 1. Construction: Framing members are composite assemblies of two separate extruded-aluminum components permanently bonded by an elastomeric material of low thermal conductance or Framing members are one-piece members that are internally slotted at regular intervals.
- B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.
- C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
  - 1. Where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration, use self-locking devices.
  - 2. Reinforce members as required to receive fastener threads.
- D. Masonry Inserts: Hot-dip galvanized cast-iron, malleable-iron, or steel inserts complying with ASTM A 123/A 123M or ASTM A 153/A 153M requirements.
- E. Flashing: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding flashing compatible with adjacent materials. Form exposed flashing from sheet aluminum finished to match framing and of sufficient thickness to maintain a flat appearance without visible deflection.
  - 1. Provide sill flashing with end dams.
- F. Framing System Gaskets and Sealants: Manufacturer's standard recommended by manufacturer for joint type.
- G. Shims: PVC horseshoe shims in non-load bearing conditions and Korolath of New England, Inc. multipolymer plastic bearing shims per structural calculations and final shop drawing set. Frame Anchors: Anchors, heavy duty sleeve style, vibration resistant and removable, used to secure frame to concrete and grout filled concrete block shall be stainless steel. Type, size and spacing shall be per Project's structural requirements.

# 2.5 ENTRANCE DOOR SYSTEMS

A. Entrance Doors: Manufacturer's standard heavy wall glazed entrance doors for manual-swing operation.

### 1. Products:

- <u>a.</u> Exterior Doors: Kawneer 500 Heavy Wall IR Entrance for 1-5/16 inch thick glazing.
   <u>b.</u> Interior Doors: Kawneer 500 Heavy Wall Entrance.
- 4.2. Door Construction: 2-to 2-1/4-inch overall thickness, with minimum 0.125 0.188-inch- thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
- 2.3. Door Design: Wide stile, modified; 4-1/2 5-inch nominal width stiles and top rail; 3-inch top rail; 8-1/4 inch intermediate rail; 10-inch bottom rail.
- 3.4. Glazing Stops and Gaskets: Square, snap-on, extruded-aluminum stops and preformed gaskets. a. Provide nonremovable glazing stops on outside of door.

# 2.6 ENTRANCE DOOR HARDWARE

A. Door Hardware: As specified in Division 08 Section "Door Hardware."

- B. Weather Stripping: Manufacturer's standard replaceable components.
  - 1. Compression Type: Made of ASTM D 2000, molded neoprene, or ASTM D 2287, molded PVC.
  - 2. Sliding Type: AAMA 701/702, made of wool, polypropylene, or nylon woven pile with nylon-fabric or aluminum-strip backing.

### 2.7 GLAZING SYSTEMS

- A. Glazing: As specified in Division 08 Section "Glazing."
- B. Glazing Gaskets: Manufacturer's standard compression types, replaceable, molded or extruded, that maintain uniform pressure and watertight seal.
- C. Spacers and Setting Blocks: Manufacturer's standard elastomeric types.
- D. Weatherseal Sealants: ASTM C 920 for Type S; Grade NS; Class 25; Uses NT, G, A, and O; chemically curing silicone formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and structural-sealant-glazed storefront manufacturers for this use.

### 2.8 ACCESSORIES

- A. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
- B. Anchors: Three-way adjustable anchors that accommodate fabrication and installation tolerances in material and finish compatible with adjoining materials and recommended by manufacturer.
- C. Mullion Extensions: Provide 11-1/2 inch rectangular cover projections in both vertical and horizontal applications as indicated on the Drawings.
- D. Window Stools: Provide manufacturer's standard window stools as indicated on the Drawings.
- E. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in Division 07 Section "Joint Sealants."
- F. Bituminous Paint: Cold-applied asphalt-mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos, formulated for 30-mil thickness per coat.

### 2.9 FABRICATION

- A. Form or extrude aluminum shapes before finishing.
- B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.
- C. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:
  - 1. Profiles that are sharp, straight, and free of defects or deformations.
  - 2. Accurately fitted joints with ends coped or mitered.

- 3. Means to drain water passing joints, condensation occurring within framing members, and moisture migrating within the system to exterior.
- 4. Physical and thermal isolation of glazing from framing members.
- 5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
- 6. Provisions for field replacement of glazing from interior.
- 7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
- D. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.
- E. Door Frames: Reinforce as required to support loads imposed by door operation and for installing door hardware.
  - 1. At exterior doors, provide compression weather stripping at fixed stops.
  - 2. At interior doors, provide silencers at stops to prevent metal-to-metal contact. Install three silencers on strike jamb of single-door frames and two silencers on head of frames for pairs of doors.
  - 3. Electrical Wiring: Provide framing receiving electrified hardware with concealed wiring harness and standardized Molex<sup>™</sup> plug connectors on one end to accommodate up to twelve wires. Coordinate connectors on end of the wiring harness to plug directly into the electric through wire hinge or pivot specified in hardware sets in Division 08 Section "Door Hardware."
- F. Doors: Reinforce doors as required for installing door hardware.
  - 1. At pairs of exterior doors, provide sliding-type weather stripping retained in adjustable strip and mortised into door edge.
  - 2. Electrical Wiring: Provide doors receiving electrified hardware with concealed wiring harness and standardized Molex<sup>™</sup> plug connectors on both ends to accommodate up to twelve wires. Coordinate connectors on end of the wiring harness to plug directly into the electrified hardware and the electric thru wire hinge or pivot specified in hardware sets in Division 08 Section "Door Hardware."
- G. Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.
- H. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.
- 2.10 GENERAL FINISH REQUIREMENTS
  - A. Comply with NAAMM's "Metal Finishes Manual" for recommendations for applying and designating finishes.
  - B. Certified to meet AAMA 2604
  - C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

D. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

### 2.11 ALUMINUM FINISHES

- A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- B. High-Performance Organic Finish: AAMA 2605; two-coat fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
  - 1. Match curtain wall framing.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
  - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. General:
  - 1. Comply with manufacturer's written instructions.
  - 2. Do not install damaged components.
  - 3. Fit joints to produce hairline joints free of burrs and distortion.
  - 4. Rigidly secure nonmovement joints.
  - 5. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.
  - 6. Seal perimeter and other joints watertight unless otherwise indicated.
- B. Metal Protection:
  - 1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
  - 2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
- C. Install components to drain water passing joints, condensation occurring within framing members, and moisture migrating within the system to exterior.
- D. Set continuous sill members and flashing in full sealant bed as specified in Section 07 92 00 "Joint Sealants" to produce weathertight installation.
- E. Install components plumb and true in alignment with established lines and grades, without warp or rack.

- F. Install operable units level and plumb, securely anchored, and without distortion. Adjust weather-stripping contact and hardware movement to produce proper operation.
- G. Install glazing as specified in Division 08 Section "Glazing."
- H. Entrances: Install doors to produce smooth operation and tight fit at contact points.
  - 1. Exterior Doors: Install to produce weathertight enclosure and tight fit at weather stripping.
  - 2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware according to door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.
- I. Entrance Installation Subcontractor shall furnish and supply isolation, caulking, and sealant materials required to caulk joints between entrance frames and other construction to provide a completely thermal broke, weathertight installation.
- J. Provide positive connection between wall damp proofing and window frame with a waterproofing/damp proofing material.
- K. Snap on glass stops shall be beveled type square stops are to be fastened (door window stops).
- L. Protect exterior glass from breakage immediately upon installation. Do not apply markers to substrates of glass. Remove nonpermanent labels and clean surfaces. Wash glass on both faces not more than 4 days prior to date scheduled for inspections indicated to establish date of substantial completion in each area of project. Wash glass by method recommended by glass manufacturer.
- N. Erection Tolerances: Install aluminum-framed systems to comply with the following maximum tolerances:
  - 1. Location and Plane: Limit variation from true location and plane to 1/8 inch in 12 feet; 1/4 inch over total length.
  - 2. Alignment:
    - a. Where surfaces abut in line, limit offset from true alignment to 1/16 inch.
    - b. Where surfaces meet at corners, limit offset from true alignment to 1/32 inch.
- O. Diagonal Measurements: Limit difference between diagonal measurements to 1/8 inch.

### 3.3 ADJUSTING

- A. Entrances: Adjust operating hardware for smooth operation according to hardware manufacturers' written instructions.
  - 1. For doors accessible to people with disabilities, adjust closers to provide a 3-second closer sweep period for doors to move from a 70-degree open position to 3 inches from the latch measured to the leading door edge.

### 3.4 FIELD QUALITY CONTROL

A. Provide the services of the manufacturer's field representative to observe installation and make report. Report shall include date, time of day, weather conditions, and relevant information regarding installation observations and deficiencies corrected.

- B. See Section 01 40 00 Quality Requirements, for independent testing and inspection requirements. Inspection will monitor quality of installation and glazing.
- C. Test installed storefront for water leakage in accordance with AAMA 501.2 as required for remediation of any known water leakage.
- D. Test randomly 3 each of installed storefront at 10 percent, 50 percent and 90 percent for the following:
  - 1. Water leakage in accordance with ASTM E 1105 with a uniform test pressure difference of 8.00 lbf/sq ft . Test shall include storefront assembly and joint and flashing between storefront and adjacent construction.
  - 2. In addition, test same installed units for air leakage of 1.5 times the rate specified for laboratory testing under "Performance Requirements" Article, but not more than 0.09 cfm/sq. ft., of fixed wall area when tested according to ASTM E 783 at a minimum static-air-pressure difference of 6.24 lbf/sq. ft.
- E. Any remedial measures conducted on the test specimens to achieve passing results are to be incorporated into previous and future installations and reflected in the as-built shop drawings.

## 3.5 MAINTENANCE SERVICE

- A. Door Hardware:
  - 1. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of entrance door hardware.
  - 2. Initial Maintenance Service: Beginning at Substantial Completion, provide six months' full maintenance by skilled employees of entrance door hardware Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper entrance door hardware operation at rated speed and capacity. Use parts and supplies that are the same as those used in the manufacture and installation of original equipment.

# **END OF SECTION**

## SECTION 09 51 00 - ACOUSTICAL CEILINGS

### PART 1 - GENERAL

- 1.1 SECTION INCLUDES
  - A. Suspended metal grid ceiling system.
  - B. Lay-in acoustical ceiling units.

### 1.2 RELATED REQUIREMENTS

A. Section 07 90 05 - Joint Sealers: Acoustical sealant.

#### 1.3 ADMINISTRATIVE REQUIREMENTS

- A. Sequence work to ensure acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved.
- B. Do not install acoustical units until after interior wet work is dry.

#### 1.4 SUBMITTALS

- A. Product Data: Provide data on suspension system components and acoustical units.
- B. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

#### 1.5 QUALITY ASSURANCE

A. Non rated and Fire-Rated Assemblies: Complete assembly listed and classified by UL for the fire resistance indicated.

#### 1.61.5 FIELD CONDITIONS

A. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

#### 1.71.6 COORDINATION

A. Coordinate Work of this Section with work under Division 23, Mechanical for location of dampers in diffusers and other mechanical items penetrating ceiling, and Division 26, Electrical for location of light fixtures and other electrical items penetrating ceiling.

#### 1.81.7 WARRANTY

- A. Standard Ceiling Panels: warrant ceiling panels to be free from sagging, warping, shrinking, buckling, or delaminating as a result of manufacturing defects for a period of one (1) year from the date of Substantial Completion.
- B. Sag Resistant Ceiling Panels: warrant products to be free from sagging, warping, shrinking, buckling, or delaminating as a result of manufacturing defects for a period of ten (10) years from the date of Substantial Completion.
- C. Standard Suspension System: Suspension systems shall be warranted to be free from defects in material or factory workmanship and shall not incur 50 percent red rust as defined by ASTM B117 test procedures for a period of ten (10) years from the date of Substantial Completion.
- D. Suspension System / Ceiling Panels: Provide manufacturers standard 15 year warranty for suspension systems when used in combination with same manufacturers sag resistant ceiling panels. Ceiling panels to be free from sagging, warping, shrinking, buckling, or delaminating as a result of manufacturing defects. Suspension systems shall not incur 50 percent red rust as defined by ASTM B117 test during the period of the warranty.

#### PART 2 - PRODUCTS

#### 2.1 ACOUSTICAL UNITS

- A. Manufacturers:
  - 1. Armstrong World Industries, Inc: www.armstrong.com.
  - 2. CertainTeed Corporation: www.certainteed.com.
  - 3. USG: www.usg.com.
  - 4. Substitutions: Not permitted.
- B. Acoustical Units General: ASTM E 1264, Class A.
  - 1. Units for Installation in Non Fire-Rated Suspension System:
  - 2. Units for Installation in Fire-Rated Suspension System:
- C. Products: Subject to compliance with requirements, provide products listed on Finish Schedule, or comparable by alternate manufacturer.
- C. Acoustical Panels Type ACT-1: Painted fiberglass with acoustically transparent membrane, ASTM E 1264 Type-IV, Form 2, Pattern E with the following characteristics:
  - 1. Size: 24 x 24 inches.
  - 2. Thickness: 3/4 inches.
  - 3. NRC: 0.70, determined as specified in ASTM E 1264.
  - 4. Edge: Square.
  - 5. Surface Color: White.
  - 6. Surface Pattern: Fine.
  - 7. Product: Ultima #1910 by Armstrong World Industries with 15/16 inch grid; or Architect approved equalby listed manufacturer.
- D. Glass Fiber Acoustical Panels Type ACT- 2: Ceramic and mineral fiber composite, ASTM E 1264 Type XX, Pattern C E, with the following characteristics:

1. Size: 24 x 24 inches.

- 2. Thickness: 5/8 inches.
- 3. NRC: 0.55 determined as specified in ASTM E 1264.
- 4. Edge: Square.
- 5. Surface Color: White.
- 6. Surface Pattern: Fine fissured, non-perforated.
- 7. Product: Ceramaguard Fine Fissured No. 605 by Armstrong World Industries; or Architect approved equal by listed manufacturer
- E. Glass Fiber Acoustical Panels Type ACT- 3 (Tipps): Ceramic and mineral fiber composite, ASTM E 1264 Type-XX, Pattern C E, with the following characteristics:
  - 1. Size: 24 x 24 inches.
  - 2. Thickness: Match existing thickness.
  - 3. NRC: 0.55 determined as specified in ASTM E 1264.
  - 4. Edge: Square.
  - 5. Surface Color: Match existing color.
  - 6. Surface Pattern: Match existing pattern.
  - 7. Product: Match existing ceiling tile product
  - 8. One-hour Fire-rated to match existing.

#### 2.2 SUSPENSION SYSTEM(S)

- A. Manufacturers:
  - 1. Armstrong World Industries, Inc: www.armstrong.com.
  - 2. CertainTeed Corporation: www.certainteed.com.
  - 3. Chicago Metallic Corporation: www.chicagometallic.com.
  - 4. USG: www.usg.com.
  - 5. Substitutions: Not permitted.
- B. Suspension Systems General: ASTM C 635; die cut and interlocking components, with stabilizer bars, clips, splices, perimeter moldings, and hold down clips as required.
- C. Exposed Suspension System: Formed galvanized steel, commercial quality cold rolled; intermediate-duty.
  - 1. Profile: Tee; 15/16 inch wide face
  - 2. Construction: Double web.
  - 3. Finish: White painted, typical; black painted at Black Box.
  - 4. Fire-rated for One-hour roof-ceiling assembly at (Tipps)
  - 5.4. Product: Prelude XL by Armstrong World Industries; or Architect approved equal by listed manufacturers.

### 2.3 ACCESSORIES

- A. Support Channels and Hangers: Galvanized steel; size and type to suit application and ceiling system flatness requirement specified.
- B. Powder-Driven Fasteners: 0.300 inch Headed Fasteners with 0.145 inch Shank Diameter pre-assembled ceiling clips.
- C. Perimeter Moldings: Same material and finish as grid.
  - 1. At Exposed Grid: Provide W-shaped shadow molding for mounting at same elevation as face of grid.

- D. Acoustical Insulation: Specified in Section 07 21 00.
- E. Acoustical Sealant For Perimeter Moldings: Specified in Section 07 90 05.
- F. Gasket For Perimeter Moldings: Closed cell rubber sponge tape.
- G. Touch-up Paint: Type and color to match acoustical and grid units.
- H. Ceiling Edge Treatment:
  - 1. Armstrong Axiom Classic Trim; height as indicated on drawings. Include field trim, inside and outside corner posts and corners, drywall trim where indicated, and other accessories for completion of work.

## PART 3 - EXECUTION

- 3.1 EXAMINATION
  - A. Verify existing conditions before starting work.
  - B. Verify that layout of hangers will not interfere with other work.

### 3.2 INSTALLATION - SUSPENSION SYSTEM

- A. Install suspension system in accordance with ASTM C 636/C 636M and manufacturer's instructions and as supplemented in this section.
- B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- C. Locate system on room axis according to reflected ceiling plan.
- D. Install after major above-ceiling work is complete. Coordinate the location of hangers with other work.
- E. Provide hanger clips during steel deck erection. Provide additional hangers and inserts as required.
- F. Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
- G. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- H. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- I. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.
- J. Do not eccentrically load system or induce rotation of runners.

- K. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
  - 1. Use longest practical lengths.
  - 2. Miter corners.
- L. Form expansion joints where indicated. Maintain visual closure.
- M. Install light fixture boxes constructed of gypsum board above light fixtures in accordance with fire rated assemblyrequirements and light fixture ventilation requirements.
- N. Install Cloud ceiling tight to layin ceiling above.

# 3.3 INSTALLATION - ACOUSTICAL UNITS

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Fit border trim neatly against abutting surfaces.
- D. Install units after above-ceiling work is complete.
- E. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- F. Cutting Acoustical Units:
  - 1. Make field cut edges of same profile as factory edges.
- G. Where round obstructions occur, provide preformed closures to match perimeter molding.
- H. Lay acoustical insulation for a distance of 48 inches either side of acoustical partitions as indicated.
- I. Install hold-down clips on each panel to retain panels tight to grid system; comply with fire rating requirements.
- J.I. Install hold-down clips on panels within 20 ft of an exterior door.

### 3.4 TOLERANCES

- A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.
- B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees.

### END OF SECTION

# SECTION 09 65 16 - RESILIENT SHEET FLOORING

## PART 1 - GENERAL

- 1.1 SUMMARY
  - A. Section includes:
    - 1. Unbacked vinyl sheet flooring.

## 1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For each type of flooring. Include flooring layouts, locations of seams, edges, columns, doorways, enclosing partitions, built-in furniture, cabinets, and cutouts.
  - 1. Show details of special patterns.
- C. Samples: For each exposed product and for each color and texture specified in manufacturer's standard size, but not less than 6-by-9-inchsections.
  - 1. For heat-welding bead, manufacturer's standard-size Samples, but not less than 9 inches long, of each color required.
- 1.3 INFORMATIONAL SUBMITTALS
  - A. Product test reports.
- 1.4 CLOSEOUT SUBMITTALS
  - A. Maintenance data.

# PART 2 - PRODUCTS

- 2.1 PERFORMANCE REQUIREMENTS
  - A. Fire-Test-Response Characteristics: For resilient sheet flooring, as determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
    - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.
- 2.2 UNBACKED VINYL SHEET FLOORING
  - A. Products: Subject to compliance with requirements, provide products listed on Finish Schedule, or comparable by alternate manufacturer.
  - B. Product Standard: ASTM F 1913.
  - C. Thickness: 0.080 inch.

- D. Wearing Surface: Smooth.
- E. Sheet Width: As standard with manufacturer.
- F. Seamless-Installation Method: Heat welded.
- G. Colors and Patterns: As scheduled.
- 2.3 INSTALLATION MATERIALS
  - A. Trowelable Leveling and Patching Compounds: As specified in Section 09 05 61 "Common Work Results for Flooring Preparation."
  - B. Adhesives: Water-resistant type recommended by flooring and adhesive manufacturers to suit resilient sheet flooring and substrate conditions indicated; maximum VOC of 50 g/L
  - C. Seamless-Installation Accessories:
    - Heat-Welding Bead: Manufacturer's solid-strand product for heat welding seams.
       a. Color: Match flooring.

# PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
  - 1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of floor tile.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Prepare and test concrete substrates in accordance with Section 09 05 61 "Common Work Results for Flooring Preparation" and the following:
  - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
  - 2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by resilient sheet flooring manufacturer. Do not use solvents.
  - 3. Verify that substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.
  - 4. Verify that substrate moisture vapor emission and internal relative humidity values are withinn flooring manufacturer's written recommendations.
  - 5. Fill cracks, holes, and depressions in substrates and remove bumps and ridges to produce a uniform and smooth substrate.
  - 6. Do not install flooring until it is the same temperature as the space where it is to be installed.
    - a. At least 48 hours in advance of installation, move flooring and installation materials into spaces where they will be installed.

7. Immediately before installation, sweep and vacuum clean substrates to be covered by flooring.

# 3.3 RESILIENT SHEET FLOORING INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient sheet flooring.
- B. Unroll resilient sheet flooring and allow it to stabilize before cutting and fitting.
- C. Lay out resilient sheet flooring as follows:
  - 1. Maintain uniformity of flooring direction.
  - 2. Minimize number of seams; place seams in inconspicuous and low-traffic areas, at least 6 inches away from parallel joints in flooring substrates.
  - 3. Match edges of flooring for color shading at seams.
  - 4. Avoid cross seams.
- D. Scribe and cut resilient sheet flooring to butt neatly and tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, and door frames.
- E. Extend resilient sheet flooring into toe spaces, door reveals, closets, and similar openings.
- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on resilient sheet flooring as marked on substrates. Use chalk or other nonpermanent marking device.
- G. Adhere resilient sheet flooring to substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.
- H. Seamless Installation:
  - 1. Heat-Welded Seams: Comply with ASTM F 1516. Rout joints and heat weld with welding bead to permanently fuse sections into a seamless flooring. Prepare, weld, and finish seams to produce surfaces flush with adjoining flooring surfaces.

# 3.4 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protecting resilient sheet flooring.
- B. Cover resilient sheet flooring until Substantial Completion.

# **END OF SECTION**

# SECTION 09 65 19 - RESILIENT TILE FLOORING

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. Section Includes:
  - 1. High Performance Luxury Vinyl composition floor tile.

### 1.2 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of floor tile to include in maintenance manuals.

### 1.3 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Floor Tile: Furnish one box for every 50 boxes or fraction thereof, of each type, color, and pattern of floor tile installed.

### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who employs workers for this Project who are competent in techniques required by manufacturer for floor tile installation and seaming method indicated.
  - 1. Engage an installer who employs workers for this Project who are trained or certified by floor tile manufacturer for installation techniques required.

### 1.5 DELIVERY, STORAGE, AND HANDLING

A. Store floor tile and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F. Store floor tiles on flat surfaces.

### 1.6 FIELD CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 95 deg F, in spaces to receive floor tile during the following time periods:
  - 1. 48 hours before installation.
  - 2. During installation.
  - 3. 48 hours after installation.
- B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.
- C. Close spaces to traffic during floor tile installation.
- D. Close spaces to traffic for 48 hours after floor tile installation.

- E. Install floor tile after other finishing operations, including painting, have been completed.
- 1.7 WARRANTY
  - A. Provide floor preparation system warranty specified in Section 09 05 61 Common Work Results for Flooring Preparation.

### PART 2 - PRODUCTS

- 2.1 PERFORMANCE REQUIREMENTS
  - A. Fire-Test-Response Characteristics: For resilient tile flooring, as determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
    - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

## 2.2 VINYL COMPOSITION FLOOR TILE (LVT - 1)

- A. Products: Subject to compliance with requirements, provide one of the following as scheduled:
   1. Tandus Centiva (High performance Luxury Vinyl Tile)
- B. Tile Standard: ASTM F 1700, Class III, Type B standard emboss.
- C. Wearing Surface: Smooth, factory applied urethane.
- D. Thickness: 20 Mil.
- E. Size: 15.24 CM x 91.44 CM. (6" wide x 36" long)
- F. Multiple Colors and Patterns: As selected by Architect from manufacturer's full range.
- G. Static Load: 1500 psi

### 2.2 LUXURY VINYL FLOOR TILE

- A. Products: Subject to compliance with requirements, provide products listed on Finish Schedule, or comparable by alternate manufacturer.
- B. Tile Standard: ASTM F 1700, Class III, Type B standard emboss.
- C. Wearing Surface: Smooth, factory applied urethane, minimum 20 mils thick.
- D. Total Thickness: Minimum 3 mm.
- E. Size: As indicated.
- F. Colors and Patterns: As indicated.
- 2.3 INSTALLATION MATERIALS
  - A. Floor Leveler and Underlayment: (As required): Refer to Section 09 05 61.

- B. Glue Down Adhesives: Type specified in Section 09 05 61 and as approved by flooring manufacturer.
  - Adhesives shall comply with the following limits for VOC content:
     a. Vinyl Tile Adhesives: 50 g/L or less.
  - 2. Provide specified system warranty.

# **PART 3 - EXECUTION**

## 3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
  - 1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of floor tile.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

## 3.2 PREPARATION

- A. Prepare substrate according to Section 09 05 61 and floor tile manufacturer's written instructions to achieve specified system warranty.
- B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch wide or wider and protrusions more than 1/32 inch unless more stringent requirements are required by manufacturer's written instructions. Use self-leveling compound for larger areas or areas with more extensive deformations in the concrete.

### 3.3 FLOOR TILE INSTALLATION

- A. Comply with manufacturer's written instructions for installing floor tile.
- B. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.
  - 1. Lay tiles square with room axis.
- C. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles.
  - 1. Lay vinyl composition tiles in pattern as selected by the Architect
- D. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.
- E. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings.

- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk or other nonpermanent marking device.
- G. Install floor tiles on covers for telephone and electrical ducts, building expansion-joint covers, and similar items in finished floor areas. Maintain overall continuity of color and pattern between pieces of tile installed on covers and adjoining tiles. Tightly adhere tile edges to substrates that abut covers and to cover perimeters.
- H. Adhere floor tiles to flooring substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

# 3.4 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protecting floor tile.
- B. Perform the following operations immediately after completing floor tile installation:
  - 1. Remove adhesive and other blemishes from exposed surfaces.
  - 2. Sweep and vacuum surfaces thoroughly.
  - 3. Damp-mop surfaces to remove marks and soil.
- C. Protect floor tile from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
- D. Cover floor tile until Substantial Completion.

### END OF SECTION

# SECTION 32 31 13 - CHAIN LINK FENCES AND GATES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Work included: Provide chain link fence system where shown on the Drawings, as specified herein, and as needed for a complete and proper installation.
- B. Related work:
  - 1. Section 32 18 28 "Tennis Courts" for chain link fencing at tennis courts.
  - 2. Section 32 31 19 "Decorative Metal Fences and Gates" for decorative metal fences.

#### 1.2 QUALITY ASSURANCE

A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

#### 1.3 SUBMITTALS

- A. Comply with pertinent provisions of Section 01 30 00 Administrative Requirements.
- B. Product data: Within 15 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:
  - 1. Materials list of items proposed to be provided under this Section;
  - 2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements;
  - 3. Shop Drawings in sufficient detail to show fabrication, installation, anchorage, and interface of the work of this Section with the work of adjacent trades;
  - 4. Manufacturer's recommended installation procedures which, when approved by the Architect, will become the basis for accepting or rejecting actual installation procedures used on the Work.
  - 5. Samples: Accompanying the submittal described above, submit Samples of each sealant, each backing material, each primer, and each bond breaker proposed to be used.

#### 1.4 PRODUCT HANDLING

A. Comply with pertinent provisions of Section 01 60 00 – Product Requirements.

### PART 2 - PRODUCTS

- 2.1 DIMENSIONAL DATA
  - A. General:
    - 1. Pipe sizes indicated are commercial pipe sizes.
    - 2. Tube sizes indicated are nominal outside dimensions.
    - 3. H-section sizes indicated are normal flange dimensions.

4. Roll-formed section sizes indicated are the nominal outside dimensions.

### 2.2 GALVANIZING

- A. On steel framework and appurtenances, provide galvanized finish with not less than the following weight of zinc per sq. ft.
  - 1. Pipe: 1.8 oz, complying with ASTM A120.
  - 2. H-sections and square tubing: 2.0 oz, complying with ASTM A123.
  - 3. Hardware and accessories: Comply with Table 1 of ASTM A153.
  - 4. Fabric: 2.0 oz, complying with class II of ASTM A121.

## 2.3 FABRIC

- A. Provide number 9 gage or 0.148" wires in 2" or 2-1/4" mesh (match existing), with top knuckled and bottom selvages twisted and barbed.
- B. Provide fabric in one piece widths.
- 2.4 POSTS, RAILS, AND ASSOCIATED ITEMS
  - A. Where vinyl coated fabric is specified, all post, rails and associated items shall be vinyl coated to match.
  - B. End, corner, slope, and pull posts: Provide at least the following minimum sizes and weights:
    - 1. Material and dimensions:
      - a. Pipe, 3" outside dimension, Lbs. per lin ft: 5.79
      - b. Tubing, 2-1/2" square, Lbs per lin ft: 5.70
      - c. Roll-formed section, 3-1/2" x 3-1/2", Lbs per lin ft: 5.14
  - C. Line posts: Provide minimum sizes and weights as follows:
    - 1. Material and dimensions:
      - a. Pipe, 2.5" outside dimension, Lbs. per lin ft: 3.65,
      - b. H-section, 2.25" x 1.95" x 0.143", Lbs per lin ft: 10.10
  - D. Corner post: Provide 3" outside dimension, /lbs. per lin ft: 5.79
    - 1. All gate corners shall be welded and coated with a zinc base paint.
  - E. Gate posts: Provide gate posts for supporting single gate leaf, or one leaf of a double gate installation, for nominal gate widths as follows:
    - 1. Material and dimension:
      - a. Pipe, 4" outside dimension: Lbs. per lin ft: 9.10
      - b. Tubing, 3" square:, Lbs. per lin ft: 9.10
      - c. H-section, 4", Lbs. per lin ft: 14.00
        - 1) Over 13 feet wide, and up to 18 feet wide: Use 6.625" outside diameter pipe weighing 14.0 lbs. per lin ft.
        - 2) Over 18 feet wide: Use 8.625" outside diameter pipe weighing 24.70 lbs. per lin ft.
  - F. Top rails:
    - 1. Use 1.625" outside diameter pipe weighing 1.80 lbs. per lin ft; or

- 2. Use 1.625" x 1.25" roll-formed sections weighing 1.35 lbs. per lin ft.
- 3. Provide in manufacturer's longest lengths, with expansion type couplings approximately 6" long for each joint.
- 4. Provide means for attaching top rail securely to each gate, corner, pull, slope, and end post.
- G. Center rail: Provide 1.625" outside diameter pipe 1.80 lbs. per lin ft; all around 4'-0" or taller.
- H. Post brace assemblies:
  - 1. Provide at end and gate posts, and at both sides of corner, slope, and pull posts, with the horizontal brace located at mid-height of the fabric.
  - 2. Use 1.625" outside diameter pipe weighing 1.80 lbs. per lin ft for horizontal brace.
  - 3. Use 3/8" diameter rod with turnbuckle for diagonal truss.
- I. Tension Brace: Provide 0.375 tension brace rod with adjustable fitting.
  - 1. Tenson rod to hook into brace rail cup or brace band as solid unit fitting.
- J. Tension wire: Provide number 9 gage galvanized coiled spring wire at bottom of fabric.
  - 1. Tension wire shall be fastened to every line post with heavy gauge steel.
- K. Post tops:
  - 1. Provide steel, wrought iron, or malleable iron, designed as weathertight closure cap.
  - 2. Provide one cap for each post.
  - 3. Provide caps with openings to permit through passage of top rail.
- L. Stretcher bars:
  - 1. Provide one-piece lengths equal to full height of fabric, with a minimum cross-section of 3/16"x 3/4" unless otherwise noted.
  - 2. Provide one stretcher bar for each gate and end post, and two for each corner, slope, and pull post, except where fabric is woven integrally into the post.
- M. Stretcher bar bands:
  - 1. Provide steel, wrought iron, or malleable iron, to secure stretcher bars to end, corner, pull, slope, and gate posts.
  - 2. Bands may be used also with special fittings for securing rails to end, corner, pull, slope, and gate posts.

# 2.5 GATES

- A. General:
  - 1. Fabricate gate perimeter frames of tubular members.
  - 2. Provide additional horizontal and vertical members to assure proper operation of the gate, and for attachment of fabric, hardware, and accessories.
  - 3. Space so frame members are not more than 8 feet apart.
  - 4. Fabricate gate frames from:
    - a. Materials and dimension:
      - 1) Pipe 1.90" outside diameter, Lbs. per lin ft: 2.72
      - 2) Tubing, 2" square, Lbs. per lin ft: 2.60
- B. Fabrication:

- 1. Assemble gate frames by welding with special malleable or pressed steel fittings and rivets for rigid connections.
- 2. Use same fabric as used in the fence.
- 3. Install fabric with stretcher bars at vertical edges as a minimum.
- 4. Attach stretchers to gate frame at not more than 15" on centers.
- 5. Attach hardware with rivets or by other means which will provide security against removal and breakage.
- 6. Provide diagonal cross-bracing consisting of 3/8" diameter adjustable length truss rods on gates where required to provide frame rigidity without sag or twist.
- C. Gate hardware: Provide following for each gate:
  - 1. Hinges:
    - a. Pressed or forged steel, or malleable iron, to suit the gate size; non-lift-off type, offset to permit 180 degree opening.
    - b. Provide 1-1/2 pr of hinges for each leaf.
  - 2. Latches:
    - a. Provide forked type or plunger-bar type to permit operation from either side of the gate.
    - b. Provide padlock eye as integral part of latch.
  - 3. Keeper: Provide keeper for vehicle gates, which automatically engages the gate leaf and holds it in the open position until manually released.
  - 4. Double gates:
    - a. Provide gate stops for double gates consisting of mushroom or flush plate, with anchors.
    - b. Set in concrete to engage the center drop rod or plunger bar.
    - c. Provide locking device and padlock eyes as an integral part of the latch, requiring one padlock for locking both gate leaves.
  - 5. Security gates:
    - a. For each leaf, top hinge shall be Locinox; MAMMOTH-180 Hydraulic Gate Closer & Hinge In One in Silver.
    - b. For additional security hardware refer to 08 7100 Door Hardware.

# 2.6 MISCELLANEOUS MATERIALS AND ACCESSORIES

- A. Wire ties:
  - 1. For tying fabric to line posts, use number 9 gage wire ties spaced 15" on centers with 6 per post.
  - 2. For tying fabric to rails and braces, use number 9 gage wire ties spaced 18" on centers.
  - 3. For tying fabric to tension wire, use number II gage hog rings spaced 18" on centers.
  - 4. Manufacturer's standard wire ties will be acceptable if of equal strength and durability.
- B. Concrete: Comply with provisions of Section 03 30 00 Cast-in-Place Concrete for 2500 psi concrete.

## **PART 3 - EXECUTION**

#### 3.1 SURFACE CONDITIONS

A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

#### 3.2 GUARANTEE

A. The contractor shall furnish a written guarantee warranting all materials, devices, and workmanship to be free of defects for a period of one year from the date of completion and acceptance. Any defects in materials, devices, and workmanship which become apparent within the guarantee period shall be repaired or replaced by the contractor at his own expense, and at no additional cost to the Owner.

### 3.3 INSTALLATION

- A. General:
  - 1. Install posts at a maximum spacing of 10 feet on centers.
  - 2. Install corner or slope posts where changes in line or grade exceed a 30 degree deflection.

# B. Excavating:

- 1. Drill holes for post footings in firm, undisturbed or compacted soil, strictly adhering to the dimensions and spacing shown.
- 2. Post hole dimensions:
  - a. Provide 30" deep by 8" diameter foundations for line posts for 5 foot fabric height and less.
  - b. Provide 36" deep by 8" diameter foundations for line posts for fabric heights exceeding 5 feet.
  - c. Provide 36" deep by 12" diameter foundations for all other posts.
- 3. Spread soil from excavations uniformly adjacent to the fence line, or on adjacent areas of the site if so directed.
- 4. When solid rock is encountered near the surface, drill into rock at least 12" for line posts and at least 18" for end, pull, gate, and corner posts. Drill hole at least 1" greater diameter than the largest dimension of the post to be placed.
- 5. If solid rock is below soil overburden, drill to full depth required, except penetration into rock need not exceed minimum depths specified above.

#### C. Setting posts:

- 1. Remove loose and foreign materials from sides and bottoms of holes, and moisten soil prior to placing concrete.
- 2. Center and align posts in holes.
- 3. Place concrete around posts in a continuous pour, and vibrate or tamp for consolidation.
- 4. Check each post for vertical and top alignment, and hold in position during placement and finishing operations.
- 5. Trowel tops of footings, and slope or dome to direct water away from posts.
- 6. Extend footings for gate posts to the underside of bottom hinge.
- 7. Set keeps, stops, sleeves, and other accessories into concrete as required.

- 8. Keep exposed concrete surfaces moist for at least seven days after placement, or cure with membrane curing material or other curing method approved by the Architect.
- 9. Grout-in those posts which are set into sleeved holes, concrete constructions, or rock excavations, using non-shrink Portland cement grout or other grouting material approved by the Architect.
- D. Concrete strength:
  - 1. Allow concrete to attain at least 75% of its minimum 28-day strength before rails, tension wires, and/or fabric is installed.
  - 2. Do not, in any case, install such items in less than seven days after placement of concrete.
  - 3. Do not stretch and tension fabric and wire, and do not hang gates, until concrete has attained its full design strength.
- E. Rails and bracing:
  - 1. Install fence with a top rail and bottom tension wire.
  - 2. Install top rails continuously through post caps or extension arms, bending to radius for curved runs.
  - 3. Provide expansion couplings as recommended by the fencing manufacturer.
  - 4. Provide bracing to the midpoint of the nearest line post or posts at all end, corner, slope, pull, and gate posts.
  - 5. Install tension wires parallel to the line of fabric by weaving through the fabric, and tying to each post with not less than number 6 gage galvanized wire, or by securing the wire to the fabric.
- F. Installing fabric:
  - 1. Leave approximately 2" between finish grade and bottom selvage.
  - 2. Excavate high points in the ground to clear the bottom of the fence.
  - 3. Place and compact fill to within 1" of the bottom of the fabric in depressions.
  - 4. Pull fabric taut and tie to posts, rails, and tension wires.
  - 5. Install fabric on outward side facing side of fence, and anchor to framework so that the fabric remains in tension after pulling force is removed.
  - 6. Install stretcher bars by threading through or clamping to fabric on 4" centers, and secure to posts with metal bands spaced 15" on centers unless otherwise noted.
- G. Installing gates:
  - 1. Install gates plumb, level, and secure for full opening without interference.
  - 2. Install ground-set items in concrete for anchorage in accordance with the fence manufacturer's recommendations as approved by the Architect.
  - 3. Lubricate and adjust the hardware for smooth operation.
- H. Miscellaneous:
  - 1. Use U-shaped tie wires, conforming to diameter of pipe to which attached, clasping pipe and fabric firmly with ends twisted at least two full turns.
  - 2. Bend ends of wire to minimize hazards to persons and clothing.
  - 3. Fasteners:
    - a. Install nuts for tension band and hardware bolts on side of fence opposite fabric side.
    - b. Peen the ends of bolts to prevent removal of nuts.

4. Repair coatings damaged in the shop or field erection, using a hot-applied repair compound applied in accordance with its manufacturer's recommendations as approved by the Architect.

**END OF SECTION** 

## SECTION 32 31 19 DECORATIVE METAL FENCES AND GATES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Decorative steel fences.
  - 2. Swing gates.
- B. Related Requirements:
  - 1. Section 03 30 00 "Cast-in-Place Concrete."
  - 2. Section 32 18 28 "Tennis Courts" for chain link fences at tennis courts.
  - 3. Section 32 31 13 "Chain Link Fences and Gates."

### 1.2 REFERENCE STANDARDS

- A. ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc- Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2017.
- B. ASTM B117 Standard Practice for Operating Salt Spray (Fog) Apparatus 2016.
- C. ASTM D523 Standard Test Method for Specular Gloss 2014.
- D. ASTM D714 Standard Test Method for Evaluating Degree of Blistering of Paints 2002 (Reapproved 2009).
- E. ASTM D822/D822M Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings 2013.
- F. ASTM D1654 Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments 2008, with Editorial Revision (2017).
- G. ASTM D2244 Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates 2016.
- H. ASTM D2794 Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact) 1993 (Reapproved 2010).
- I. ASTM D3359 Standard Test Method for Rating Adhesion by Tape Test 2017.
- J. ASTM F2408 Standard Specification for Ornamental Fences Employing Galvanized Steel Tubular Pickets 2016.
- 1.3 ADMINISTRATIVE REQUIREMENTS
  - A. Preinstallation Meeting: Conduct a preinstallation meeting one week prior to start of work of this section; require attendance by affected installers.

### 1.4 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data: Submit manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. Shop Drawings:
  - 1. Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, gates, and schedule of components.
- D. Installer's Qualification Statement.
- E. Manufacturer's Warranty.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years experience.
- B. Installer Qualifications: Experienced with type of construction involved and materials and techniques specified and approved by fence manufacturer.
- 1.6 DELIVERY, STORAGE AND HANDLING
  - A. Store materials in a manner to ensure proper ventilation and drainage. Protect against damage, weather, vandalism and theft.
- 1.7 WARRANTY
  - A. See Section 01 78 00 Closeout Submittals, for additional warranty requirements.
  - B. Finish: 20 years.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Decorative Metal Fences and Gates:
  - 1. Ameristar Perimeter Security, USA: www.ameristarfence.com.
  - 2. Fortress Fence Products: www.FortressFence.com
  - 3. Master-Halco, Inc.: www.fenceonline.com
  - 4. Substitutions: See Section 01 60 00 Product Requirements.

## 2.2 FENCES

- A. Fences: Complete factory-fabricated system of posts and panels, accessories, fittings, and fasteners; finished with electrodeposition coating, and having the following performance characteristics:
  - 1. Capable of resisting vertical load, horizontal load and infill performance requirements for fence categories defined in ASTM F2408.
- B. Electro-Deposition Coating: Multi-stage pretreatment/wash with zinc phosphate, followed by epoxy primer and acrylic topcoat.
  - 1. Total Coating Thickness: 2 mils, minimum.
  - 2. Coating Performance: Comply with general requirements of ASTM F2408.
    - a. Adhesion: ASTM D3359 (Method B); Class 3B with 90 percent or more of coating remaining in tested area.
    - b. Corrosion Resistance: ASTM B117, ASTM D714 and ASTM D1654; 1/8 inch coating loss or medium No.8 blisters after 1,500 hours.
    - c. Impact Resistance: ASTM D2794; 60 inch pounds.
    - d. Weathering Resistance: ASTM D523, ASTM D822/D822M and ASTM D2244; less than 60 percent loss of gloss.
- C. Steel: ASTM A653/A653M; tensile strength 45,000 psi, minimum.
  - 1. Hot-dip galvanized; ASTM A653/A653M, G60.
  - 2. 62 percent recycled steel, minimum.

### 2.3 WELDED STEEL FENCE

- A. Basis of Design: Montage Plus, Majestic, Fence System as manufactured by Ameristar Perimeter Security, USA.
- B. Material sizes given are minimum sizes and shall be designed by the fence manufacturer.
- C. Provide fence meeting requirements for Industrial class as defined by ASTM F2408.
- D. All iron fencing and gates ahll be coated inside and outisde in complaiance with the 20 year manufacturer warranty.
- E. Fence Panels: 6 feet high by 8 feet long.
  - 1. Panel Style: Three rail.
  - 2. Attach panels to posts with manufacturer's standard panel brackets.
  - 3. All fence panels shall be bolted to posts and fully removable. No panels shall be welded to posts.
- F. Posts: Steel tube.
  - 1. Size: 3 inches square by 12 gage, 0.109 inch, with manufacturer's standard cap.
  - 2. Gate Size:
    - a. For gates 6 feet wide leaf or less, provide 4" x 4" 11 gage post.
    - b. For gates 6 feet and 10 feet wide leaf or less, provide 4" x 4" 1/4 thick metal post.
    - c. For gates greater than 10 feet wide leaf, provide 6" x 6" 1/4 thick metal post.
- G. Rails: Manufacturer's standard, double-wall steel channel 1-7/16 x 1-1/2 inch square by with pre-punched picket holes..

- 1. Picket Retaining Rods: 0.125 inch galvanized steel.
- 2. Picket-to-Rail Intersection Seals: PVC grommets.
- H. Pickets: Steel tube.
  - 1. Spacing: 3-3/4 inch clear.
  - 2. Size: 3/4 inch square by 16 gage.
  - 3. Style: Pickets with finial extend above top rail.
  - 4. Finial: Square Top.
- I. Flexibility: Capable of following variable slope of up to 1:2.
- J. Color: Black.
- K. Infil: As indicated on the drawings. Coat color to match fence.
- 2.4 SWING GATES
  - A. Gate Configuration: As indicated on Drawings.
  - B. Gate Frame Height: As indicated on Drawings.
  - C. Gate Opening Width: As indicated on Drawings.
  - D. Galvanized-Steel Frames: Fabricate members from rectangular tubes 2 by 4 inches formed from with 1/8 inch wall-thickness. Hot-dip galvanized after fabrication.
  - E. Frame Corner Construction: Welded.
  - F. Additional Rails: Provide as indicated, complying with requirements for fence rails.
  - G. Infill: Comply with requirements for adjacent fence.
  - H. Picket Size, Configuration, and Spacing: Comply with requirements for adjacent fence.
  - I. Hinges: BHMA A156.1, Grade 1, suitable for exterior use.
    - 1. Function: 39 Full surface, triple weight, antifriction bearing.
    - 2. Material: Wrought steel, forged steel, cast steel, or malleable iron; galvanized.
  - J. Closers and Exit Devices: As specified in Section 08 71 00 "Door Hardware."
  - K. Provide steel door stop plate welded to door frame header tube. Galvanize with header tube.
  - L. Finish exposed welds to comply with NOMMA Guideline 1, Finish #2 completely sanded joint, some undercutting and pinholes okay.
  - M. Galvanizing: For items other than hardware that are indicated to be galvanized, hot-dip galvanize to comply with ASTM A 123/A 123M. For hardware items, hot-dip galvanize to comply with ASTM A 153/A 153M.

### PART 3 - EXECUTION

- 3.1 EXAMINATION
  - A. Do not begin installation until substrates have been properly prepared.
  - B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- 3.2 PREPARATION
  - A. Clean surfaces thoroughly prior to installation.
- 3.3 INSTALLATION
  - A. Install in accordance with manufacturer's instructions.
  - B. Set fence posts in accordance with the manufacturer recommended spacing.
  - C. When cutting rails immediately seal the exposed surfaces by:
    - 1. Removing metal shavings from cut area.
    - 2. Apply zinc-rich primer to thoroughly cover cut edge and drilled hole; allow to dry.
    - 3. Apply two coats of custom finish spray paint matching fence color.
    - 4. Failure to seal exposed surfaces in accordance with manufacturer's instructions will negate manufacturer's warranty.
  - D. Space gate posts according to the manufacturers' drawings, dependent on standard out-to-out gate leaf dimensions and gate hardware selected.
    - 1. Base type and quantity of gate hinges for the application; weight, height, and number of gate cycles.
    - 2. Identify the necessary hardware required for the application on the manufacturer's gate drawings.
    - 3. Install hardware in compliance with manufacturer's recommendations.

### 3.4 ERECTION TOLERANCES

- A. Maximum Variation From Plumb: 1/4 inch.
- B. Maximum Offset From Indicated Position: 1 inch.
- C. Minimum Distance from Property Line: 6 inches.

### 3.5 CLEANING

- A. Leave immediate work area neat at end of each work day.
- B. Clean jobsite of excess materials; scatter excess material from post hole excavations uniformly away from posts. Remove excess material if required.
- C. Clean fence with mild household detergent and clean water rinse well.

- D. Remove mortar from exposed posts and other fencing material using a 10 percent solution of muriatic acid followed immediately by several rinses with clean water.
- E. Touch up scratched surfaces using materials recommended by manufacturer. Match touchup paint color to fence finish.

## 3.6 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair, or replace damaged products before Date of Substantial Completion.

### END OF SECTION

## SECTION 23 64 16 - CENTRIFUGAL LIQUID CHILLING MACHINE

#### PART 1 - GENERAL

- 1.1 WORK INCLUDED
  - A. Furnish and install a factory assembled, electric-driven, water-cooled, water chilling unit, with centrifugal compressor. Provide a packaged centrifugal water-cooled liquid chiller as specified with all controls and variable frequency drive necessary for automatic operation mounted on the machine.
  - B. Section includes design, performance criteria, refrigerants, controls, and installation requirements for water-cooled magnetic bearing chillers.

### 1.2 RELATED WORK

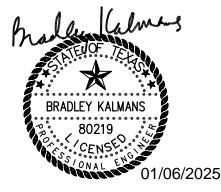
- A. Division 23 Mechanical
  - 1. Chilled Water Piping
  - 2. Condenser Water Piping
  - 3. Vibration Isolation
  - 4. Controls
  - 5. Electrical Provisions of Mechanical Work
- B. Comply with applicable Standard/Codes of ARI 550/590, ANSI/ASHRAE 15, ANSI B31.5, ASME Section VIII, ASTM, NEMA, NEC, UL984, and OSHA as adopted by the State.

### 1.3 PERFORMANCE

A. Furnish a unit with minimum capacity and characteristics as scheduled, allowing for 0.0001 fouling factor in the cooler and 0.00025 fouling factor in the condenser.

# 1.4 SUBMITTALS

- A. Submit manufacturer's certified computer generated performance and capacity data in accordance with specification requirements.
- B. Submit manufacturer's installation, start-up and service/maintenance instructions.
- C. Submit the following information:
  - 1. Manufacturer's installation instructions.
  - 2. Minimum Circuit Ampacity.
  - 3. Maximum Overcurrent Protection.
  - 4. Maximum conductor / Terminal Lug size.
  - 5. Minimum flow thru evaporator.
  - 6. Electrical interlocks.
- D. Submit recommended service clearance dimensions.
- E. Submit internal wiring diagram of Control Center.



- F. Submit product data on centrifugal chiller starter and harmonic filter.
- G. Submit AHRI certified performance data and energy consumption at design conditions and partial load operation of 25, 50, 75, and 100% loads with constant entering condenser water temperature at design conditions as specified.

- H. Submit a letter stating chiller being proposed meets the efficiency requirements of Centerpoint Energy's Score Program listed in Centerpoint Energy's Design Guide: HVAC Recommendations document.
- I. Submit shop drawings showing the placement of the water box connection after visiting the project. Match existing piping connections.
- J. Mark-up a copy of the specifications, indicating in the margin of each paragraph, the following: COMPLY, DO NOT COMPLY, NOT APPLICABLE.

#### 1.4 DELIVERY/STORAGE/HANDLING

- A. Ship machine without initial charge of refrigerant and lubricating oil. The initial charge shall be supplied, shipped in containers and cylinders for field installation by the Manufacturer's service technician.
- B. All equipment and accessories shall be suitably boxed, crated, covered with a tarp, and protected internally and externally to prevent shipping damage and damage from the weather.
- C. Manufacturer shall provide quick shipment options to minimize product lead times.

#### 1.6 WARRANTY

- A. The Chiller manufacturer shall provide a full machine parts, labor, and refrigerant warranty for a period of five (5) years from substantial completion.
  - 1. The warranty shall include, but not be limited to the compressor assemblies including motor, condensers, fans, variable frequency drives, controls, evaporator, condenser, refrigeration system and all other auxiliary components and accessories as well as refrigerant and oils in systems.
  - 2. In the event of failure, provide new or factory authorized rebuilt parts. Shop or job site rebuilt parts are not acceptable.
  - 3. On all manufacturers warranties the chiller manufacturer shall provide a factory certificate listing as a minimum chiller model, serial, and warranty information as specified above. Each chiller tag shall be provided with an individual and unique warranty certificate. Manufacturer's representative warranty letters are not acceptable as an alternative to the original manufacturer's certificates.
  - 4. The chiller manufacturer authorized service agency is required to perform any and all warranty service. Contractor warranty service is not authorized. Warranty work shall be performed with District Representative present.
- A. The Chiller manufacturer shall provide a compressor and motor parts only extended warranty for a total of 10 years.

#### 1.7 PREVENTATIVE MAINTENANCE SERVICE AGREEMENT

- A. Furnish service and maintenance agreement of chillers for a period of 5 years from date of substantial completion. Include quarterly system examinations, required adjustments, and control calibrations. Repair/replace parts in accordance with manufacturer's recommendations. All work performed by manufacturer technicians. Maintenance agreement shall include the following items as a minimum:
  - a. Analyze compressor fault log (quarterly)
  - b. Check IGV operation (quarterly)
  - c. Check controls settings for proper configuration (quarterly)
  - d. Verify transducers and sensors for accuracy (quarterly)
  - e. Analyze controls log and faults (quarterly)

- f. Confirm correct water flow and pressure drop for both evaporator and condenser (quarterly)
- g. Evaluate the test/performance (quarterly)
- h. Leak test entire unit (quarterly)
- i. Check and record line voltage (quarterly)
- j. Inspect power components for signs of overheating (quarterly)
- k. Check and tighten all electrical components (annually)
- I. Perform moisture prevention (annually)
- m. Clean and leak test condenser tubes (annually)
- n. Clean the evaporator and condenser flow sensor (annually)

#### PART 2 - PRODUCTS

- 2.1 ACCEPTABLE MANUFACTURERS
  - A. Carrier
  - B. Trane
- 2.2 HERMETIC MOTOR AND COMPRESSOR
  - A. Multiple single stage compressors.
  - B. Or single multi-stage high performance compressor.
  - C. Motor, transmission and compressor hermetically sealed into a common assembly.
  - D. Provide isolation valves to allow filter change with out removal of refrigerant charge.
  - E. Variable Evaporator Flow Capability: All chillers shall be applied in variable evaporator flow (VPF) system and able to withstand a chilled water flow rate-of-change of twenty-five percent (25%) per minute while maintaining plus or minus two (+/- 2 F) of design supply chilled water temperature, and fifty percent (50%) per minute at any load above the compressor minimum without cycling "off" on low load (low leaving water temperature) or evaporator refrigerant temperature limit.
  - F. Motors shall have winding RTD's for temperature sensing on each phase. Thermistors and thermal overloads are not acceptable. These temperatures shall be furnished to the unit control panel for monitoring and alarm.

#### 2.4 LIQUID COOLER

- A. Cooler Components
  - 1. Shell-and-tube heat exchanger.
  - 2. Cleanable copper tubes with continuous 0.025-inch thickness from tube root to root.
  - 3. Removable heads.
  - 4. Nonferrous tubes and baffles for maximum corrosion resistance.
  - 5. Provide 150 psig working pressure water side construction.
  - 6. Provide 1.5 times the working pressure refrigerant side construction.
- B. Select the cooler with the fouling factor shown in the schedule.
- C. Provide grooved connections for water boxes.
- D. Include pressure relief devices sized to meet the requirements of ASHRAE 15.

- E. The tubes shall be individually replaceable and secured to the intermediate supports without rolling or expanding to facilitate replacement if required.
- F. An electronic expansion valve shall control refrigerant flow to the evaporator.

#### 2.5 WATER COOLED CONDENSER

- A. Condenser components:
  - 1. Shell-and-tube heat exchanger.
  - 2. Cleanable copper tubes with continuous 0.025-inch thickness from tube root to root.
  - 3. Removable heads.
  - 4. Seamless internally and externally enhanced copper tubes. Tubes shall be removable from both ends.
  - 5. Provide 150 psig working pressure water side construction.
  - 6. Provide 1.5 times the working pressure refrigerant side construction.
- B. Select the condenser with the fouling factor shown in the schedule.
- C. Grooved connections for piping connections.
- D. Pressure relief devices sized to meet the requirements of ASHRAE 15.
- E. The tubes shall be individually replaceable and secured to the intermediate supports without rolling or expanding to facilitate replacement if required.

#### 2.6 PURGE UNIT

A. High efficiency purge unit with positive means for collection and return of refrigerant, removal of noncondensables, water vapor and shall confirm to requirements of ASHRAE 15. Provide indicating message on control panel of abnormal air leak or excessive purging. The purge unit shall be refrigerant cooled. Include operating controls, piping, and refrigerant service valves to isolate the purge unit from the chiller all factory installed. Purge unit shall automatically alarm (local and remote relay) if excess purging is detected.

#### 2.7 REFRIGERANT RELIEF VALVE

- A. All chiller relief points shall be installed as required by the manufacturer and latest edition of ASHRAE 15.
- B. Provide chillers with reseating relief valves or rupture disks per ASHRAE standard 15.

#### 2.8 POWER CONNECTIONS

- A. Power connection shall be single point to a factory-mounted disconnect switch.
- 2.9 CONTROLS AND INSTRUMENT PANEL
  - A. Operation. For constant flow applications, automatically modulate the compressor through controls actuated by changes in the temperature of water leaving the chiller. For variable flow applications, modulate each compressor through changes in the temperature of water leaving the chiller. Start the compressors unloaded.
  - B. Furnish a complete a microprocessor-based control system consisting of a 12.1-inch

color LCD touch-screen operator interface and a unit controller that is factory mounted, wired, and tested. The touch-screen shall display the unit operating parameters, accept setpoint changes (multi-level password protected) and be capable of resetting faults and alarms. The following parameters shall be displayed on the home screen and also as trend curves on the trend screen:

- 1. Chilled water temperatures supply and return.
- 2. Condenser water temperatures supply and return.
- 3. Refrigerant pressures evaporator and condenser.
- 4. Motor current in % full load amps.
- 5. Saturation temperatures evaporator and condenser.
- 6. Water flow indication.
- 7. Oil temperature.
- 8. Percent of capacity operation of compressor vanes position.
- 9. Three phase volts and three phase amps.
- 10. Elapsed time meter and number of compressor starts.
- 11. Oil pressure at compressor.
- 12. Alarm and failure messages.
- 13. Diagnostics Service Log
- 14. Motor winding temperature.
- 15. Bearing oil temperature.
- 16. Operating hours
- 17. Number of starts
- C. In addition to the trended items above, all other important real-time operating parameters shall also be shown on the touch-screen. These items shall be displayed on a chiller graphic showing each component. At a minimum, the following set points must be monitored:
  - 1. Chilled water supply temperature.
  - 2. Current limit.
  - 3. Pull down demand limit.
  - 4. Remote reset temperature range.
  - 5. Remote alarm contact.
  - 6. Compressor actual speed, maximum speed, percent speed
  - 7. Liquid line temperature
  - 8. Compressor and unit state and input and output digital and analog values

Any input that potentially harms the machine shall be rejected and the operator shall be advised via display message. All system shutdowns (safety or cycling) shall be preserved (until the system is reset with pass-word or restarted) in the microcomputer's memory for subsequent viewing on the alphanumeric display. The operator shall be continuously advised of system operating conditions by various background and warning messages. The keypad shall contain special service passwords for use by service technicians when performing system troubleshooting.

- D. Safety controls shall be annunciated through the alphanumeric display consisting of day, time of shutdown, cause of shutdown, and type of restart required. Safety controls with automatic unit shutdown shall be provided for:
  - 1. Sensor malfunction.
  - 2. High and low compressor oil pressure.
  - 3. High and low refrigerant pressure
  - 4. High compressor discharge temperature.
  - 5. Low evaporator pressure or high condenser pressure.
  - 6. Low chilled water temperature.
  - 7. High oil temperature.
  - 8. Starter fault.
  - 9. Unit shall not start without minimum flow through the evaporator or the

condenser.

- 10. Clogged oil filter.
- 11. Low oil pressure.
- 12. Freeze protection.
- 13. High discharge and low evaporator pressure cutout.
- 14. Chilled water freeze protection.
- 15. Loss of evaporator or condenser water flow.
- 16. Phase loss, phase reversal, phase imbalance, and under or over voltage protection.
- 17. Chilled water differential pressure switch to prove flow.
- 18. Condenser water differential pressure switch to prove flow.
- E. Battery backup shall be provided to keep all Setpoints in memory for minimum of one month in case of power failure. Control Center shall provide for an automatic restart of chiller after a momentary power failure. Provide battery backup for all volatile memory setpoints.
  - 1. Minimum of one month in case of power failure.
  - 2. Automatic battery recharging.
  - 3. Low battery charge alarm.
- F. Chilled water flow detection devices shall be provided to shut down unit when flow drops below minimum through evaporator or condenser.
- G. Security access shall be provided to prevent unauthorized change of Setpoints, reset failures and to allow local or remote control of the chiller.
- H. The Microcomputer Control Center shall provide interface that includes as a minimum:
  - 1. Remote start.
  - 2. Remote stop.
  - 3. Remote leaving chilled water temperature setpoint and reset.
  - 4. Remote current limit setpoint.
  - 5. Ready to start status contact.
  - 6. Safety shutdown status contacts.
  - 7. Cycling shutdown status contacts.
  - 8. Compressor run relay contacts.
  - 9. Common alarm contact.
  - 10. Purge Alarm Relay
  - 11. Head Pressure Relief Relay
  - 12. Provide BacNET interface
  - 13. Alarm Relay
  - 14. Percent of Running Load Amperage
- I. Provide a relay control to signal the chilled and condenser water pumps. Provide a 30 second time delay between sequential ancillary equipment starts.
- J. Provide an "auto restart after power failure" control with manual reset for oil temperature low limit control.
- K. Provide controls to enable chiller to operate with 57 degree entering condenser water temperature.
- L. The factory supplied VFD and controls should include the following:
  - 1. High short circuit panel rating of 65kA with a matching circuit breaker
  - 2. Phase loss protection
  - 3. Under/over voltage protection

- M. Energy saving software logic shall at a minimum offer the following
  - 1. User programmable compressor soft loading
  - 2. Chilled water reset
  - 3. Demand limit control
  - 4. Staging options lead lag between multiple compressors on a single chiller or on multiple chillers
  - 5. Plotting of historic trends for optimizing efficiency

#### 2.10 CAPACITY CONTROLS

- A. Solid state electronic.
- B. Fully automatic.
- C. Regulate chilled water temperature.
- D. Prevent motor overload by control of compressor guide vane positioner.
- E. Provide capacity modulation from 100% to 15% of full load under design conditions shown in the schedule. Provide chiller capable of operation without surge, cavitation, or undue vibration from full load to 15% load without hot gas bypass when supplied with design entering condenser water quantity. AHRI certified unloading report to be included in submittal.
- F. Provide leaving chilled water control within +/- 1.0°F (0.6°C) at a water flow rate change of 10% per minute and will stay online at a water flow rate change of 30% per minute.

#### 2.11 SAFETY CONTROLS

- A. Electric/electronic and fully automatic.
- B. Fail-safe.
- C. Provide machine shutdown for:
  - 1. Low oil pressure.
  - 2. Low chilled water temperature.
  - 3. Low cooler pressure.
  - 4. High condenser pressure.
  - 5. High bearing oil temperature.
  - 6. High compressor discharge temperature.
  - 7. High motor winding temperature (hermetic machines).
- D. Insure thorough lubrication of compressor prior to start and during coast down after machine stop signal.
- E. Protect motor against drawing more than rated full load amperes.
- F. Prevent machine restart until after a safe pre-set time.
- G. Provide a demand limiter device so that maximum current can be set to any percentage between 40 and 100% of full load amperes.
- H. Surge capacitors and Lighting Arrestor.
- I. Provide factory-mounted and wired, differential pressure flow switches on each vessel to prevent unit operation with no or low water flow.

#### 2.12 REMOTE MONITORING INSTRUMENTATION

- A. Provide non-energized auxiliary contacts for remote monitoring of chiller operating conditions extend wiring to identified terminal strip.
- B. Provide for normal system operation mode: Two normally open contacts.
- C. Provide for system safety shutdown mode: Two normally open contacts.
- D. Provide circuitry to allow remote discrimination between cycling and safety shutdown. Provide separate contact closure to indicate the chiller will start (all safeties and cycling devices satisfied) when a remote start signal is received.

#### 2.13 REFRIGERANT

A. Provide refrigerant type R-513a or R-514a as outlined in the project alternate bid Refrigerant shall comply with current ASHRAE Standard 15 and other governing authorities.

#### 2.14 VIBRATION ISOLATION

A. Provide with rubber isolation pads.

#### 2.15 VARIABLE SPEED DRIVES

- A. A refrigerant cooled variable speed drive shall be factory supplied and installed on the chiller. It shall vary the compressor motor speed by controlling the frequency and voltage of the electrical power to the motor. The package shall include adaptive capacity control logic to automatically adjust the motor speed and compressor pre-rotation vane position independently. The control system shall provide maximum operating efficiency at all loads and water temperatures by analyzing information fed to it via sensors located throughout the chiller. Drive shall be PWM type utilizing IGBT's with a power factor correction are not acceptable.
  - 1. The variable speed drive shall be unit mounted in a NEMA-1 enclosure with all power and control wiring between the drive and the chiller factory installed, including the power to the chiller pump. Field power wiring shall be a single point connection and electrical lugs for incoming power wiring shall be provided. The entire chiller/drive package shall be UL listed. To minimize motor peak voltages to within acceptable motor insulation design limits, motor lead limits shall not exceed 18". The chiller/drive assembly shall undergo an electrical and mechanical run test prior to shipment.
  - 2. The following features shall be provided:
    - a. A door interlocked circuit breaker capable of being padlocked.
      - 1) UL listed ground fault protection.
      - 2) Over voltage and under voltage protection.
      - 3) 3 phase sensing motor overcurrent protection.
      - 4) Single phase protection.
      - 5) Insensitive to phase rotation.
      - 6) Over temperature protection.
      - 7) Digital readout at the chiller unit control panel of:
        - (a) Output Frequency
          - i. Output Voltage
          - ii. 3 phase output current.
        - (b) Input Kilowatts (kW) and Kilowatt-hours(kWh)

i.

Self diagnostic service parameters.

#### 2.16 HARMONIC FILTER

- A. Provide factory unit Mounted harmonic filter that limits electrical power supply distortion to 5% TDD for current (5% TDD limits as defined by IEEE 519 specifications) from the variable speed drive. The filter shall be mounted in a NEMA -1 enclosure and shall be UL listed. The following digital readouts shall be provided at the chiller unit control panel as part of the filter package:
  - 1. Input KVA
    - a. Total power factor.
    - b. 3 phase input voltage
    - c. 3 phase input current
    - d. 3 phase input voltage total harmonic distortion (THD)
    - e. 3 phase input current total demand distortion (TDD)
    - f. Self diagnostic service parameters
  - 2. AHRI certified chiller performance shall take into account energy losses due to harmonic filtration.

#### PART 3 - EXECUTION

- 3.1 HANDLING & INSTALLATION
  - A. Install new chiller and align new chiller on concrete foundations, sole plates and sub-bases. Adjust and level chiller in alignment on supports and grout in place.
  - B. Provide neoprene vibration isolation bonded to steel.
  - C. Install the system in accordance with the manufacturer's installation instructions.
  - D. Arrange piping for easy dismantling to permit tube cleaning and service.
  - E. Pipe the chiller rupture disc to outdoors; size discharge piping as recommended by the chiller manufacturer.
  - F. Install condenser water modulating valve and controls to enable chiller to operate with 40 degree entering condenser water temperature.
  - G. Coordinate electrical installation with the electrical contractor.
  - H. Coordinate controls with the control contractor.
  - I. Provide all appurtenances required to ensure a fully operational and functional chiller.
  - J. Prior to chiller start-up, verify that the water treatment equipment has been properly installed and is in working condition. Do not operate the equipment for any reason until the complete circulating condenser water chemical treatment system is operational as specified.
  - K. Do not install paddle flow switches. Wet DP switches only. DP switches shall be installed per manufacturers recommendations.
  - L. Do not operate the equipment for any reason until the complete circulating condenser water temperature controls are operational.
  - M. All electrical conduits shall be connected to chiller in the bottom of electrical cabinet. Top

and side connections are not acceptable.

#### 3.2 INSULATION (FIELD APPLIED)

- A. Field applied after installation prior to start-up.
- B. Flexible closed cell foam. Two 3/4" layers, overlapping seams of the first layer.
- C. Apply insulation, vapor proof cement and enamel paint (color to match chiller) to:
  - 1. Cooler shell.
  - 2. Float chamber.
  - 3. End sheets.
  - 4. Waterboxes
  - 4. Suction connection.
  - 5. Motor cooling connection (hermetic machines).
  - 6. Necessary auxiliary tubing.
  - 7. Other components subject to surface condensation.
- D. Resistant Coating
  - 1. WB Armaflex Finish
  - 2. Apply weather protective finish on elastomeric insulation. Provide a minimum of three coats.
  - 3. Color to match chiller manufacturer's equipment.

#### 3.3 CHILLER MANUFACTURER START-UP SERVICE

- A. Provide the services of a factory trained service technician employed full time by the chiller manufacturer to start-up the system. Technicians, as required, shall be trained and experienced in the work they perform. (Contractor startup is unacceptable.) Sample forms shall be submitted for approval before starting work.
- B. The technician shall utilize comprehensive report forms to document results. Sample forms shall be submitted for review prior to commencing work.
- C. Upon completion of the work, the report forms shall be signed by the technician and included in the final report and Owner's manual.
- D. Submit four copies of the final report to the Architect/Engineer within 10 working days of start-up.
- E. Follow the manufacturer's start-up procedures.
  - 1. Verify interlocks.
  - 2. Test and verify operation of safety controls.
  - 3. Calibrate controls.
  - 4. Verify microprocessor based control operation.
  - 5. Test, calibrate, and set the chilled water temperature controls.
  - 6. Verify chilled water temperature reset sequence.
  - 7. Verify operation of the integrated control panel.
  - 8. Verify correct interface between Building Management Control System and chiller control panel.
- F. Measure and record the following data:
  - 1. Chilled and condenser water entering/leaving temperature.
  - 2. Chilled and condenser water flow through the chiller.
  - 3. Suction pressure/condensing pressure.
  - 4. Suction pressure/unloading steps.

- 5. Air entering/leaving cooling tower wet / dry bulb temperature.
- 6. Outdoor ambient; wet / dry bulb.
- 7. Motor nameplate voltage; phase and full load amperes.
- 8. Heater coil in starter (as applicable)
  - a. Rating in amperes.
  - b. Manufacturer's recommendation.
- 9. Power reading (voltage and amperes of legs at motor terminals).
- G. Test and calibrate the operation of the electronic ground current sensing devices.
- H. Measure the chiller control signal. Compare to the manufacturer's instructions. Calibrate and adjust the signal through all stages of operation.
- I. If the system has been shipped with a holding charge:
  - 1. Leak test.
  - 2. Refrigerant pressure test.
  - 3. Evacuate, dehydrate and charge.
- J. Verify that accessories are installed and performing the specified functions. Insert certification in Owner's manual.
- K. Instruct the Owner's operating personnel. Provide Owner with 8 hours of training prior to substantial completion after a complete startup procedure.
- L. Do not operate the equipment for any reason until the factory start-up service has been completed.
- M. Provide a printout from the unit microcomputer control system showing the correct operation of all system controls and components.
- N. Do not operate the equipment for any reason until the complete circulating condenser water chemical treatment system is operational as specified.

#### 3.4 TRAINING

- A. The manufacturer shall provide, as part of their proposal, training two Owner representatives for a two-day training session.
- B. Training shall include hands on and classroom type training which pertains to the purchased equipment. The training shall give the trainees the ability to completely tear down and overhaul the purchased equipment. Any and all literature, manual or information shall be given to the trainees.

#### 3.5 ADDITIONAL REQUIREMENTS

A. The manufacturer is to supply two complete sets of maintenance manuals for the chiller. The manual should be a complete overhaul and maintenance manual. Detailed drawings of all internal parts and complete parts list shall be provided with the chillers.

#### 3.6 FACTORY CERTIFIED TESTING

- A. Certified Capacity Testing
  - 1. Test each chiller at a test facility certified by AHRI.
  - 2. Perform certified tests in accordance with the current edition of AHRI Standard 550.

- 3. Chiller shall deliver at minimum the specified cooling capacity at design conditions and the maximum KW/ton shall not exceed 105% of the specified values.
- 4. The test shall include computations for adjusted test results to reflect the fouling factors as specified.
- 5. Completed test results for each chiller shall be submitted to the Engineer, certifying the design capacity and Maximum KW/ton at the design point.
- 6. The test results shall be certified by an officer of the Manufacturer.
- 7. If chiller fails to meet the scheduled capacity, the manufacturer shall revise the equipment to achieve the scheduled capacity requirements and conduct a new test after revisions to the equipment are made.
- B. Certified Tube Thickness Testing
  - 1. Perform certified eddy current testing on all tubes both the condenser and evaporator to certify tube thickness meets or exceed the specified thickness value from root to root. Provide certified report of testing to owner to use as a baseline for comparison to future testing.

#### 3.7 LIFE CYCLE COST ANALYSIS

- A. Manufacturer to provide efficiencies at the following four points to allow for an energy analysis to be performed by the engineer:
  - 1. A= KW/ton @ 95% load and 82.0 degrees ECWT (41%)
  - 2. B= KW/ton @ 75% load and 76.8 degrees ECWT (40%)
  - 3. C= KW/ton @ 50% load and 74.1 degrees ECWT (16%)
  - 4. D= KW/ton @ 25% load and 62.8 degrees ECWT (3%)

#### END OF SECTION

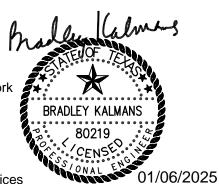
#### SECTION 28 10 00.05 - AUDIO / VIDEO INTERCOM (IP)

#### PART 1 - GENERAL

- 1.1 RELATED WORK
  - A. The following, in their entirety and as applicable, shall apply to this section. Including any associated drawings.
    - 1. Conditions of the Contract
    - 2. Division 1
    - 3. Division 26
    - 4. Division 27
    - 5. Division 28
- 1.2 SYSTEM DESCRIPTION
  - A. General Requirements:
    - 1. The specified unit shall be of manufacturer's official product line, designed for commercial and/or industrial 24/7/365 use.
    - 2. The specified unit shall be based upon standard components and proven technology using open and published protocols.
  - B. Sustainability
    - 1. The specified unit shall be manufactured in accordance with ISO 14001.
    - 2. The specified unit shall be compliant with the EU directives 2011/65/EU (RoHS) and 2012/19/EU (WEEE).
    - 3. The specified unit shall be compliant with the EU regulation 1907/2006 (REACH).

#### 1.3 CERTIFICATIONS AND STANDARDS

- A. General abbreviations and acronyms
  - 1. AES: Advanced Encryption Standard
  - 2. API: Application Programming Interface
  - 3. Bit Rate: The number of bits/time unit sent over a network
  - 4. DHCP: Dynamic Host Configuration Protocol
  - 5. DNS: Domain Name System
  - 6. FPS: Frames per Second
  - 7. FTP: File Transfer Protocol
  - 8. H.264 (Video Compression Format)
  - 9. IEEE 802.1x: Authentication framework for network devices
  - 10. IP: Internet Protocol
  - 11. IR light: Infrared light
  - 12. ISO: International Standards Organization
  - 13. JPEG: Joint Photographic Experts Group (image format)
  - 14. LAN: Local Area Network
  - 15. LED: Light Emitting Diode
  - 16. MPEG: Moving Picture Experts Group
  - 17. Multicast: Communication between a single sender and multiple receivers on a network
  - 18. NTP: Network Time Protocol
  - 19. ONVIF: Global standard for the interface of IP-based physical security products
  - 20. PACS: Physical Access Control System
  - 21. PoE: Power over Ethernet (IEEE 802.3af/at) standard for providing power over network cable
  - 22. Progressive scan: An image scanning technology which scans the entire picture
  - 23. QoS: Quality of Service



- 24. RPC: Remote Procedure Call
- 25. SIP: Session Initiation Protocol
- 26. SMTP: Simple Mail Transfer Protocol
- 27. SNMP: Simple Network Management Protocol
- 28. SSL: Secure Sockets Layer
- 29. TCP: Transmission Control Protocol
- 30. TLS: Transport Layer Security
- 31. Unicast: Communication between a single sender and single receiver on a network
- 32. UPS: Uninterruptible Power Supply
- 33. VBR: Variable Bit Rate
- 34. VMS: Video Management System
- 35. WDR: Wide dynamic range
- B. The specified unit shall carry the following EMC approvals:
  - 1. EN55032: 2012
  - 2. EN55024: 2010
  - 3. 2014/35/EU
  - 4. 2014/30/EU
  - 5. 2012/19/EU
  - 6. 2011/65/EU
  - 7. EN 55032 Class A
  - 8. EN 55032 Class B
  - 9. EN 55024
  - 10. FCC Part 15 Subpart B Class A
  - 11. FCC Part 15 Subpart B Class B
  - 12. FCC Part 15 Subpart B Class A + B
  - 13. ICES-003 Class A
  - 14. ICES-003 Class B
- C. The specified unit shall meet the following product safety standards:
  - 1. IEC/EN/UL 60950-1
- D. The specified unit shall meet the following standards
  - 1. Audio:
    - a. G.711
    - b. G.729
    - c. G.722 (wideband)
    - d. L16 / 16kHz (wideband)
  - 2. Video:
    - a. H.263+
      - b. H.263
      - c. H.264 (MPEG-4 AVC)
      - d. MPEG-4 Part 2
      - e. MJPEG
  - 3. Networking:
    - a. IEEE 802.3af/802.3at (Power over Ethernet) [applies to products with PoE]
    - b. IEEE 802.1X (Authentication)
    - c. IPv4 (RFC 791)
    - d. QoS
  - 4. Mechanical Environment:
    - a. IEC/EN 60529 IP54
    - b. IEC/EN 62262 IK08

#### 1.4 QUALITY ASSURANCE

- A. Contractor Qualifications:
  - 1. The system installer shall be the authorized representative of the manufacturer to sell, install, and service the proposed manufacturer's equipment. The system installer shall have represented the security alarm manufacturer's product for a minimum of five (5) years' with experience installing and servicing systems of similar scope and complexity and evidence that is completed at least three (3) projects of similar design and is currently engaged in the installation and maintenance of systems herein described.
  - 2. The system installer shall be licensed as required, by the State in which the project is located in, as a security services contractor to design, sell, install, and service security alarm systems.
  - 3. The system installer shall provide 24-hour, 365 days per year emergency service with factory trained service technicians.
  - 4. The installing firm shall have personnel on their staff that has been actively engaged in the business of designing, selling, installing, and servicing security systems for at least ten (10) years.
  - 5. The proposing contractor for this system and the installing contractor of this system shall be of the same organization. Absolutely no subcontracting of any portion of this system by the proposing contractor will be allowed.
  - 6. The proposing/installing contractor of this system must be an authorized dealer / integrator for the project's specified Access Control, Video Surveillance and the Intrusion Detection systems as well as the system specified in this section.
  - 7. Contractor must be a current integrator of solution in the closest major metropolitan area marketplace, have a permanent office located within 75-miles of the project, and be able to include information on current support staff to be able to service this client.
  - 8. All installation, configuration, setup, program and related work shall be performed by electronic technicians thoroughly trained by the manufacturer in the installation and service of the equipment provided.
  - 9. The system installer shall submit credentials of completed manufacturer certification, verified by a third-party organization, as proof of the knowledge.
  - 10. The Contractor shall provide four (4) current references from clients with systems of similar scope and complexity that became operational in the past three (3) years. At least three (3) of the references shall be utilizing the same system components, in a similar configuration as the proposed system
  - 11. Contractor must be in good standing with the Owner and have no outstanding performance or warranty items at the time of bid. Any outstanding items or issues is grounds to disqualify the Contractor for performing any work on the project.
- B. System Qualifications:
  - 1. The specified unit shall be manufactured in accordance with ISO9001.

#### 1.5 SUBMITTALS AND CLOSE-OUT

- A. Product Data:
  - 1. Within fourteen (14) days of Notice to Proceed, the system installer shall furnish the following in a single consolidated submittal:
    - a. Permits: The Contractor shall obtain all required permits and provide copies to the Owner / Architect / Engineer.
    - b. Product Literature: Complete manufacturer's product literature for all system equipment, power supplies, cable, termination components, cable supports, cable labels, field devices, and other products to be used

in the installation. In addition, whenever substitutions for recommended products are made, samples (when requested by the Owner/Designer) and the manufacturer's supporting documentation, demonstrating compatibility with other related products shall be included. The submittal shall have some type of distinguishing marker or pointer to indicated what specific product is to be submitted.

- c. Construction Schedule: A time-scaled Construction Schedule indicating general project deadlines and specific dates relating to the installation of the cable distribution system.
- d. Specification Compliance: A letter shall be provided stating, by section and subsection, that the system installer complies with the ENTIRE specification section. If the installer intends to deviate from any portion of the specifications, a detailed explanation of reason in which the installer would like to deviate shall be provided in addition to the specification compliance letter. No deviations shall be acceptable until they have been accepted by the project's technology consultant.
- e. Certifications: The contractor shall submit all of the following certifications and the certifications must contain dates which are valid from the date of proposal and not expirer any sooner than 12 months after substantial completion of the project.
  - Manufacturer's Authorized Dealer/Installer Certification: This certification must be held by the proposing/installing contractor and state that the proposing/installing contractor is and authorized dealer/installer of the system specified within the project specifications. The certification must have been obtained by the office that is within a 75-mile radius of the project's location.
  - 2) Installer Certification: This certification must be held by at least 25% of the, on-site, staff and be made available at the site if requested by the owner, architect, and/or project's technology consultant.
  - 3) Licenses: This includes all licenses required by the state in which the work is being performed, the federal government, local authorities having jurisdiction, and any organization in that governs the specific system
- B. Shop Drawings:
  - 1. Submit the following items, for Owner review and approval, within twenty-eight (28) days of notice to proceed:
    - a. Proposed circuit routing and circuit grouping plan prepared by a system registered designer. The designer's certification must be current. Identifiable, separate routing shall be shown for both the station cabling and any backbone trunk cabling.
    - b. In addition to the cable routing, the submitted drawings shall indicate the following, even if the following is expected to be provided by the project's electrical or general contractor:
      - 1) Location of all control equipment and remote power sources
      - 2) Locations of all field devices and outlets
      - 3) Location of wall penetrations (all penetrations shall be sleeved and contain protective bushings at both ends)
      - 4) Location of sleeved wall and/or floor pass-thru
      - 5) Size of sleeve at each location installed
      - 6) Quantity of cable passing through each sleeve
      - 7) Conduit routing, size, quantity, and stub-up locations for any floor mounted outlets or outlets installed in casework.

- c. Drawing Compliance: A letter shall be provided stating that the system installer complies with the entire project drawing, including all general, keyed, and notes to contractor. If the installer intends to deviate from any portion of the specifications, a detailed explanation of reason in which the installer would like to deviate shall be provided in addition to the specification compliance letter. No deviations shall be acceptable until they have been approved by the project's technology consultant.
- C. Close-out Procedures: For review and acceptance, furnish an electronic copy of the following documents to the Architect / Engineer. Upon acceptance of the submitted close-out documents, provide four (4) copies on an electronic storage media (CD or USD Flash Drive) Labeled with the project name, date of submission, and the name of the submitting firm. Final copies shall be delivered directly to the project's Technology Consultant. The closeout submittals shall include the following and be packaged in a storable container with the physical storage media and any physical items listed:
  - 1. Inspection and Test Reports: During the course of the Project, the Contractor shall maintain an adequate inspection system to ensure that the materials supplied, and the work performed, conform to contract requirements. The Contractor shall provide written documentation that indicates that materials acceptance testing was conducted as specified. The Contractor shall also provide documentation, which indicates that all cable termination testing was completed and that all irregularities were corrected prior to job completion.
  - 2. Provide complete test reports for all cabling and devices that comprise system as outlined in this document.
  - 3. Include the Name, address and telephone of the authorized factory representative with a 24-hour emergency service number.
  - 4. The manual shall also include Manufacturer's data sheets and installation manuals/instructions for all equipment installed and a list of recommended spare parts.
  - 5. Generic or typical owner's instruction and operation manual shall not be acceptable to fulfil this requirement.
  - 6. An up-to-date record ("as-built") set of approved shop drawing prints that have been revised to show each and every change made to the system from the original approved shop drawings.
  - 7. As-built Drawings shall include cable pathways; device locations with correct labeling, control equipment locations, remote power supply locations, cross connect locations, and lightning protection locations. The as-built drawings shall be prepared using AutoCAD 2014 or later.
  - 8. All drawings must reflect point to point wiring, device address and programmed characteristics as verified in the presence of the engineer and/or the end user unless device addressing is electronically generated, and automatically graphically self-documented by the system.
  - 9. A copy of the manufacturer's warranty on the installed system.
  - 10. Any keys to cabinets and/or equipment and special maintenance tools required to repair, maintain, or service the system.
  - 11. Operating and Maintenance Instructions for all devices within the system. These instructions shall reflect any changes made during the course of construction, and shall be provided to the Owner, for their use, in a three-ring binder labelled with the project name and description. (4 copies)
  - 12. Upon completion of the work and at a time designated by the Architect or owner, provide formal training sessions for the Owner's operating personnel to include location, operation, and maintenance of all included systems and equipment. Provide a video copy of the training session as well as all sign in and training sign off sheets
  - 13. One (1) 30" x 42" laminated floor plan sheets illustrating device locations, system

wiring configuration, and cable designation. Contractor shall provide one complete floor plan sheet at each panel location.

#### 1.6 WARRANTY

- A. All security system components and labor furnished by the contractor including wiring, software, hardware and custom parts shall be fully warranted for parts, materials, labor and travel expenses for a minimum of three (3) years start from the date of substantial completion.
- B. The manufacturer shall provide warranty and optional extended warranty for the unit for a total period of maximum five years. If enacted as part of the contract, the contractor will repair or replace parts and/or labor per the warranty for the length of this warranty at no cost to the client.

#### PART 2 - PRODUCTS

- 2.1 GENERAL
  - A. Intercoms shall be IP-based and comply with established network and video standards.
  - B. Intercoms shall be powered by the switch utilizing the network cable.
  - C. Intercoms shall be fully supported by an open and published API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third party applications.

#### 2.2 INTERCOM SCHEDULE

- A. Intercom types listed below describing various resolutions, form-factor and features shall be supplied by a single intercom manufacturer.
- B. The intercom manufacture and model numbers will be as follows:
  - 1. Modular IP intercom shall be 2N IP Verso with camera. Part # 02907-001
  - 2. IP intercom base station shall be 2N Indoor View. Part # 02088-001
    - a. 2N Base station stand required. Part # 02039-001
  - 3. 2N Combo Reader Module. Part # 016939-001
  - 4. 2N Secure Door Set Tamper. Part # 01975-001
  - 5. 2N Weigand Module. Part # 01259-001
  - 6. 2N Surface frame plate. Part # 01289-001
  - 7. 2N Surface back plate. Part # 01294-001

#### 2.3 INTERCOM

- A. Modular IP intercom
  - 1. The intercom shall meet or exceed the following design specifications:
    - a. Intercom shall include a built-in web server.
    - b. Intercom shall be able to perform defined local access control functionality without being connected to the network.
    - c. Intercom shall be of modular design, include a replaceable front-end frame, providing 1 or 2 additional slots for functional modules, and should support multiple frames stacked side by side. The intercom shall support at least 29 functional modules when fully expanded.
    - d. Intercoms' main unit shall be available with and without camera, and shall support the following functional modules:

- 1) ID card reader
- 2) Fingerprint reader
- 3) Keypad
- 4) Button module
- 5) Touch screen
- 6) Bluetooth
- 7) Wiegand interface
- e. The intercom shall be equipped with an IR-sensitive progressive scan megapixel sensor and be able to provide images also under dark conditions.
- f. The intercom shall be equipped with built-in power adaptive IRillumination/LED.
- g. The camera shall provide an automatic IR-cut filter, providing day/night functionality.
- 2. The intercom shall meet or exceed the following performance specifications:
  - a. Video
    - 1) The intercom shall provide video streams in 640x480 at up to 30 frames per second using H.264, H.263, H.263+ or up to 15 frames per second using MJPEG.
    - 2) The intercom camera shall provide images in resolutions up to 1280x960.
    - 3) The intercom shall support the following video encoding algorithms:
      - a) H.263+
      - b) H.263
      - c) H.264
      - d) MPEG-4 Part 2
      - e) MJPEG
    - 4) The intercom shall provide independently configured simultaneous H.264 and MJPEG streams.
    - 5) The intercom shall in H.263, H.263, H.264 support Constant Bit Rate (CBR) to protect the network from unexpected bit rate peaks.
    - 6) The intercom shall provide configurable compression levels.
    - 7) Support standard baseline profile H.264 with motion estimation.
    - 8) Support motion estimation in H.264/MPEG-4 Part 10/AVC.
    - 9) The intercom shall allow for video to be transported over:
      - a) HTTP (Unicast)
      - b) HTTPS (Unicast)
      - c) RTP (Unicast & Multicast)
      - d) RTP over RTSP (Unicast)
      - e) RTP over RTSP over HTTP (Unicast)
    - 10) The intercom shall support Quality of Service (QoS) to be able to prioritize traffic.
  - b. Image
    - 1) The camera shall incorporate automatic white balance.
      - 2) The camera shall support manually defined values for:
        - a) Color level
        - b) Brightness
  - c. Audio
    - 1) The intercom shall support two-way full duplex audio:
      - a) Input sources
        - (1) Internal microphone
      - b) Output sources
        - (1) Built-in speaker, 2W

- (2) Line out
- 2) The intercom shall support separately adjustable volume levels for:
  - a) Call
  - b) Key
  - c) Ring tones
  - d) Preloaded audio clips
  - e) Warning tones
  - f) Paging
- 3) The intercom shall support adaptive gain control.
- 4) Encoding
  - a) The intercom shall support:
    - (1) G.711
    - (2) G.722 (wideband)
    - (3) G.729
    - (4) L16 / 16kHz (wideband)
- 5) The intercom shall provide a sound pressure level of at least 78dB at 1kHz at 1m.
- 6) The intercom shall be equipped with active echo cancellation.
- 7) The intercom shall allow for audio to be transported over:
  - a) RTP (Unicast & Multicast)
  - b) RTP over RTSP (Unicast)
  - c) RTP over RTSP over HTTP (Unicast)
- 8) The intercom shall support Quality of Service (QoS) to be able to prioritize traffic.
- d. Call functionality
  - 1) The intercom shall support SIP for integration with VoIP, peer-topeer or integrated into SIP/PBX.
  - 2. The intercom shall support the use of SIP Proxy, which can be the same as the SIP registrar for outgoing calls.
  - 3) The intercom shall support dialing up to twelve separate numbers in sequence or as ring group.
- e. Access control functionality
  - 1) The intercoms' reader outputs shall be wired through the Weigand module to the existing access control system.
- f. User Interface
  - 1) Web server
    - a) The intercom shall contain a built-in web server making functionality and configuration available to multiple clients in a standard operating system and browser environment using HTTP, without the need for additional software.
  - 2) IP addresses
    - a) The intercom shall be set with dynamically assigned IP addresses provided by a Dynamic Host Control Protocol (DHCP) server.
    - b) The intercom shall allow for automatic detection of the intercom based on WS Discovery when using a computer with an operating system supporting this feature.
    - c) The intercom shall provide support for IPv4.
- g. Event functionality
  - 1) The intercom shall be equipped with an integrated event functionality, which can be triggered by:
    - a) Tamper / case open

- b) SIP Call state incl. incoming call
- c) Change of SIP registration status
- d) Video Motion Detection
- e) Noise Detection
- f) SIP DTMF sequences
- g) External input

i.

- h) Access control events such as code, card, fingerprint entered
  - Predefined time
- 2) Response to triggers shall include:
  - a) Send notification, using HTTP or email
  - b) Activate sound alarm
  - c) Make or end call
  - d) Send notification, using HTTP, HTTPS, Wiegand or email
  - e) Send images, using FTP or email
  - f) Activating external output
  - g) Play audio clip
- h. Protocol
  - 1) The intercom shall incorporate support for at least HTTP, HTTPS, SIP 2.0, TFTP, RTSP, RTP, SMTP, DHCP opt 66, NTP, Syslog.
  - 2) The SMTP implementation shall include support for SMTP authentication.
  - 3) The camera shall incorporate support for at least IPv4, HTTP, HTTPS, SIP, SSL/TLS, QoS Layer 3 DiffServ, TCP, ICMP, SNMPv2c, RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, ARP, DNS, NTP,
- i. Security
  - The intercom shall support the use of HTTPS and SSL/TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams.
  - 2) The intercom shall block its login page for 30 seconds after three faulty passwords have been submitted.
  - 3) The intercom shall force user to change admin password upon first installation.
  - 4) The intercom shall provide centralized certificate management, with the ability to upload CA certificates. The certificates shall be signed by an organization providing digital trust services.
  - 5) The intercom shall support IEEE 802.1X authentication.
  - 6) Selected services, such as RTSP or web config shall be configurable to only allow access from local devices.
  - 7) The intercom shall restrict access to the built-in web server by username and password.
  - 8) The intercom shall be equipped with tamper detection.
  - API support:

j.

- 1) The intercom shall be fully supported by an open and published API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third party applications.
- 2) The intercom shall conform to ONVIF profile S as defined by the ONVIF Organization.
  - a) For ONVIF profile specifications, see <u>www.onvif.org/</u>
- 3) The intercom shall be interoperable/certified with major PBX and

gateway manufacturers, including:

- a) Cisco
- b) Avaya
- c) Broadsoft
- k. Installation and maintenance
  - 1) The intercom shall support secure configuration using HTTPS.
  - 2) The intercom shall support the use of SNMP-based management tools according to SNMP v2c.
  - 3) The intercom shall allow updates of the software (firmware) over the network, using TFTP, HTTP or web interface.
  - 4) The intercom shall be time synchronized to the district NTP (Network Time Protocol) server.
  - 5) The intercom shall support back-up and restore of configuration.
  - 6) The intercom shall store all customer-specific settings in a nonvolatile memory that shall not be lost during power cuts or soft reset.
- I. Access log
  - 1) The intercom shall be able to log events such as codes, phone calls, RFID cards etc., and provide them using HTTP interface for monitoring.
  - 2) The administrator shall be able to set whether the particular messages are sent by the intercom immediately after any event occurs, or if the client registers for event logging and then asks for full report since last registration, all events at once.
  - 3) The client shall be able to select which messages are reported from event log.
- m. Intercom diagnostics
  - The intercom shall be equipped with LEDs, capable of providing visible status information. LEDs shall indicate the intercom's operational status and provide information about power, the network status and the intercom status.
  - 2) The intercom shall be monitored by a Watchdog functionality, which shall automatically re-initiate processes or restart the unit if a malfunction is detected.
- n. Hardware interfaces
  - 1) Network interface
    - a) The intercom shall be equipped with one 10BASE-T/100BASE-TX Fast Ethernet-port, using a standard RJ45 connector and shall support auto negotiation of network speed (100 MBit/s and 10 MBit/s) and transfer mode (full and half duplex).
  - 2) Doors
    - a) The intercom shall be equipped with programmable input supporting both short circuit activation or up to +30VDC for door monitor or Request to Exit (REX).
    - b) The intercom shall be equipped with two independent outputs for door control. One active providing at least 8VDC / 400mA and one NO/NC relay supporting up to 30V AC/DC 1A.
  - 3) Audio
    - a) The intercom shall be equipped with line output.
  - 4) Power
    - a) The intercom shall be equipped with a removable terminal block providing connectivity for external power.
  - 5) Multifunctional connector

- a) The camera shall, by using a "multi wire ribbon cable", provide connectivity between main unit and modules.
- o. Enclosure
  - 1) The intercom shall:
    - a) Be manufactured with IP54 rated housing, and be IK08 (IK07 when using Touchscreen module).
    - b) Be fitted with a tamper switch.
    - c) Be of modular design, supporting main unit and up to 29 additional modules.
    - d) Be available in black and brushed nickel versions.
- p. Power
  - 1) Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 0
    - 2) 12 V DC
      - a) Max: 2A
- q. Environmental
  - 1) The intercom shall:
    - a) Operate in a temperature range of -40 °C to +60 °C (-40 °F to 140 °F)
    - b) Operate in a humidity range of 10–95% RH (noncondensing).

#### 2.4 NETWORK STROBE SIREN

- A. Axis D4100-E Network Strobe Siren.
  - 1. Connect Network Strobe Siren to associated 2N door station as indicated on drawings. Contractor to provide and install 1-18/4 conductor from 2N door station to strobe siren.
  - 2. WHEN 2N DOOR STATION IS USED THE STROBE SHALL TURN GREEN AND A SOUND SHALL BE PLAYED. COORDINATE SOUND TYPE AND VOLUME LEVEL WITH OWNER

## PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. The Contractor shall carefully follow instructions in documentation provided by the manufacturer to ensure all steps have been taken to provide a reliable, easy-to-operate complete system.
- B. All equipment shall be configured in accordance with instructions provided by the manufacturer and systems administrator prior to district inspection.
- C. All firmware found in products shall be the latest and most up-to-date provided by the manufacturer.
- D. The contractor shall provide a 2N Indoor Touch 2.0 master station at the primary operator's desk with its appropriate stand.
- E. Contractor is responsible for working with other trades to ensure proper installation of all devices per recommended codes.
- F. All equipment requiring users to log on using a password shall be configured with district specific password. No system/product default passwords shall be allowed.

## END OF SECTION

#### SECTION 27 41 16.20 -LOCAL SOUND REINFORCEMENT SYSTEMS

#### PART 1 – GENERAL

- 1.1 RELATED WORK
  - The following sections shall associate with this specification as applicable. Α.
    - **General Conditions** 1.
    - 2. Supplementary Conditions
    - 3. Division 1
    - 4. Division 26 in its entirety.
    - 5. Division 27 in its entirety.
    - Division 28 in its entirety. 6.
- DESCRIPTION 1.2

BRADLEY KALMANS

Summary of Work: Α.

1.

2.

3.

- Provide all equipment specified well as all miscellaneous parts and materials required for the proper, complete, and functional Video and/or Sound Distribution System at the following Venues:
  - Competition Gym a.
  - Athletic Fields b.
    - Softball Pressbox 1)
    - 2) Football Pressbox
  - All applicable equipment shall bear the UL label.
- Governing Codes and Conflicts: If the requirements of these specifications or the Project Drawings exceed those of the governing codes and regulations, then the requirements of these specifications and the Drawings shall govern. However, nothing in the Drawings or Specifications shall be construed to permit work not 01/06/2025 conforming to all governing codes, regulations, and manufacturer installation requirements.
  - 4. Locate equipment to accommodate millwork, fixtures, marker boards and other room equipment at no additional cost to the owner.
  - 5. Plenum rated cable may be used as an option at the contractor's discretion. Wherever cabling is run exposed, conduit shall be used to cover and protect wirina.
  - These documents are conceptual in nature. It shall be the responsibility of the 6. approved installer to furnish a complete and functional system, including the items shown on the drawings, in the specifications, and items not designated in either. The installer's shop drawings and product data submittals shall represent a complete system and documents accepted do not relieve the installer from being required to provide any materials, equipment, or labor to furnish a complete and functional system as recognized by the Project's Technology Consultant and the Owner.

#### 1.3 QUALITY ASSURANCE

- Α. Installer Qualifications:
  - The contractor providing and installing the integrated audiovisual systems and 1. associated infrastructure shall be an authorized dealer of the specified projector manufacturer and be capable of providing the manufacturer's maximum available product warranty.
  - All individuals installing the audio-video system must be employees of the 2. authorized dealer and at least 75% of the installing staff shall have undergone a training class given by the manufacturer. Current certification indicating the successful completion of the training course shall be available upon request at

the project and submitted in the contractor's product submittals.

- 3. The proposing contractor and the installing contractor must be the same company. No subcontractor to the proposing audio-video contractor will be allowed for any portion of the audio-video scope of work.
- 4. The System Installer shall meet all applicable regulations of the State and Department of Labor insofar as they apply to this type of system. The bidder shall be a firm normally employed in the audio-video industry and shall provide a reference list of ten (10) projects of equivalent size or larger and contact names confirming successful completion of projection system installations.
- 5. The bidder shall have an authorized service center, within 75-miles of the project's location, for the brand of equipment that is submitted for bid. The Owner, Architect, and Consultant reserves the right to perform an onsite inspection as they deem necessary.
- 6. The bidder must produce a letter from the manufacturer guaranteeing the delivery of all the equipment outlined in the specification herein.
- 7. The bidder shall have a full-time local service personnel capable of servicing the projector system described herein.
- B. Pre-Construction Meeting:
  - 1. The successful Contractor shall attend a mandatory pre-construction meeting with individuals deemed necessary by the Owner's representative prior to the start of the work.
  - 2. The contractor shall provide a mockup of the complete integrated audiovisual system solution for each of the typical spaces below before implanting the installation in multiple like rooms. Mockup shall include all products listed in part 2 of this specification. Coordinate with G.C., Architect, Consultant, and Owner for scheduling and location of mockup.
  - 3. All proposing contractors must have ability to demonstrate a/v system being proposed and provide owner with completely installed system to evaluate performance and operation.
- C. Acceptance: The Owner's representative reserves the right to reject all, or a portion of the work performed, either on technical or aesthetic grounds.
- D. Warranty:
  - 1. The selected system installer shall be factory authorized service center and shall provide an end-to-end performance warranty of not less than one (1) year. The proposer shall provide current certification documentation. The performance warranty shall be issued by the manufacturer and shall warrant that video projection system projectors have been tested to the district's approval. This end-to-end warranty shall cover the labor associated with removing/reinstalling any associated hardware or equipment as well as the replacement of all defective equipment or hardware.
  - 2. The bidder shall also submit with the materials mentioned in section 1.5 submittals of this specification a written explanation outlining the terms and conditions of product warranty of all parts and service of the integrated a/v solutions.

#### 1.4 REGULATORY REQUIREMENTS

- A. Standards: All work shall be performed in accordance with the latest revisions of the following standards and codes:
  - 1. Latest Local Codes and Amendments
  - 2. National Electrical Code, current version
- B. Other References:

- 1. TIA/EIA-568-A Commercial Building Telecommunications Wiring Standard
- 2. EIA/TIA-569 Commercial Building Standard for Telecommunication Pathways and Spaces.
- 3. TIA/EIA-606 The Administration Standard for the Telecommunications Infrastructure of Commercial Buildings.
- 4. TIA/EIA-607 Commercial Building Grounding and Bonding Requirements for Telecommunications.
- 5. EIA/TIA 455-A Standard Test Procedure for Fiber Optic Fibers, Cables, Transducers, Sensors, Connecting and Terminating Devices and Other Fiber Optic Components.
- 6. TIA/EIA TSB 67 Transmission Performance Specification for Field Testing of Unshielded Twisted-Pair Cabling Systems.
- 7. TIA/EIA TSB 72 Centralized Optical Fiber Cabling Guidelines
- 8. ISO/IEC 1180 Generic Cabling Standard
- 9. EN 50173 Generic Cabling Standards for Customer Premises
- 10. ANSI/EIA/TIA 526-14 Optical Power Loss Measurements of Installed Multimode Fiber Cable Plan.
- C. Governing Codes and Conflicts: If the requirements of these specifications or the Project Drawings exceed those of the governing codes and regulations, then the requirements of these specifications and the Drawings shall govern. However, nothing in the Drawings or Specifications shall be construed to permit work not conforming to all governing codes and regulations.

#### 1.5 ABBREVIATIONS

- A. The following abbreviations are used in this document:
  - 1. AV-\*# Audiovisual input station / Presentation Station (Reference drawing legend) CMP Ceiling Mounted Projector LCD or LED Flat panel screen/monitor

## 1.6 SUBMITTALS

- A. Project Initiation: Within fourteen (14) days of Notice to Proceed, the projection system installer shall furnish the following in a single consolidated submittal:
  - 1. Permits: The Contractor shall obtain all required permits and provide copies to the Owner/Architect/Engineer.
  - 2. Product Literature: Complete manufacturer's product literature for all, speakers, amplifiers, cable, cross-connect blocks, cable supports, cable labels, outlet devices, and other products to be used in the installation. In addition, whenever substitutions for recommended products are made, samples (when requested by the Owner/Designer) and the manufacturer's supporting documentation demonstrating compatibility with other related products shall be included.
  - 3. Construction Schedule: A time-scaled Construction Schedule, using PERT/CPM, indicating general project deadlines and specific dates relating to the installation of the cable distribution system.
  - 4. Testing: Proposed Contractor test result forms, and a list of instrumentation to be used for systems testing.
  - 5. The contractor shall provide a letter from the manufacturer stating that the dealer is an authorized service center.
  - 6. The resume and contact information of the full-time service personnel responsible for the installed projection system.
  - 7. Specification Compliance: A letter shall be provided stating, by section and subsection, that the installer complies with the ENTIRE specification section. If the installer intends to deviate from any portion of the specifications, a detailed explanation of reason in which the installer would like to deviate shall be provided in addition to the specification compliance letter. No deviations shall be

- acceptable until they have been accepted by the project's technology consultant.
- 8. Certifications: The contractor shall submit all of the following certifications and the certifications must contain dates which are valid from the date of proposal and not expirer any sooner than 12 months after substantial completion of the project.
  - a. AMX authorized dealer certification
  - b. Installer training certification: 1) Provide specification with line-by-line acknowledgement of compliance.
- B. Shop Drawings: Submit the following items, for Owner review and approval, within twenty-eight (28) days of notice to proceed:
  - 1. Proposed wiring and connectivity diagram of the proposed projection system including all faceplates and sound reinforcing equipment
  - 2. In addition to the wiring/connectivity diagram, the submitted drawings shall indicate the following, even if the following is expected to be provided by the project's electrical or general contractor:
    - a. Location of wall penetrations (all penetrations shall be sleeved and contain protective bushings at both ends)
    - b. Location of sleeved wall pass-thru
    - c. Size of sleeve at each location installed
    - d. Quantity of cable passing through each sleeve
    - e. Location of drops in each room (quantity or labeling of drops are not required in the submittal plans. Labeling shall be provided in the closeout plans and quantities shall be as per the contract documents, addendums, and issued changes. Each drop shall be labeled for the type of outlet that it is)
    - f. Conduit routing, size, quantity, and stub-up locations for all floor mounted outlets.
  - 3. Drawing Compliance: A letter shall be provided stating that the installer complies with the ENTIRE project drawing, including all general, keyed, and notes to contractor. If the installer intends to deviate from any portion of the specifications, a detailed explanation of reason in which the installer would like to deviate shall be provided in addition to the specification compliance letter. NO DEVIATIONS SHALL BE ACCEPTABLE UNTIL THEY HAVE BEEN ACCEPTED BY THE PROJECT'S TECHNOLOGY CONSULTANT.
- C. Project Completion: As a condition for project acceptance, the Contractor shall submit the following for review and approval:
  - 1. Samples: Complete manufacturer's product literature and samples (if requested) for all pre-approved substitutions to the recommended products made during the course of the Project.
  - 2. Inspection and Test Reports: During the course of the project, the Contractor shall maintain an adequate inspection system to ensure that the materials supplied, and the work performed conform to Contract requirements. The contractor shall provide written documentation that indicates that materials acceptance testing was conducted as specified. The Contractor shall also provide documentation, which indicates that all cable termination testing was completed and that all irregularities were corrected prior to job completion.
  - 3. Operating and Maintenance Instructions: Operating and maintenance instructions for all devices within the system. These instructions shall reflect any changes made during the course of construction and shall be provided to the Owner for their use on disc or USB drive with the project name and description (2 copies).
  - 4. Provide schematic line diagram of system components as deployed in each installation.

#### PART 2 – PRODUCTS

#### 2.1 GENERAL

All products listed in this section shall be provided and installed by the contractor unless otherwise noted below. The following list is not intended to be a complete list of required equipment or cables as the project is to be Turnkey and may require equipment beyond the depth of this list. It is the contractor's responsibility to ensure that they are providing a complete and functional system with their proposal.

- Α. Installation: The cabling shall be installed per requirements of the manufacturer and the Project Documents utilizing materials meeting all applicable TIA/EIA standards. The Contractor is responsible for providing all incidental and/or miscellaneous hardware not explicitly specified below as required for a complete and operational system.
- B. Materials: Materials shall be as listed or shall be approved equivalent products of other manufacturers meeting the intent and quality level of the TIA/EIA specifications. All approved equivalent products will be published by addendum ten days prior to proposal for Architect / Engineer to review.
- C. Testing: All installed cabling shall be tested 100% good after installation by the Contractor.
- D. Ratings: All products shall be new and brought to the job site in the original manufacturer's packaging. Electrical components (including innerduct) shall bear the Underwriter's Laboratories label. All communications cable shall bear flammability testing ratings as follows:

**CM** Communications Cable **CMP Plenum Rated Communications Cable** CMR Riser-Rated Communications Cable

- E. Initial Cable Inspection: The Contractor shall inspect all cable prior to installation to verify that it is identified properly on the reel identification label, that it is of the proper gauge, containing the correct number of pairs, etc. Note any buckling of the jacket that would indicate possible problems. Damaged cable or any other components failing to meet specifications shall not be used in the installation.
- F. Cable Lubricants: Lubricants specifically designed for installing communications cable may be used to reduce pulling tension as necessary when pulling cable into conduit.
  - Approved Products 1.
    - Twisted-pair cable: Dyna-Blue a.
    - b/ American Polywater
- G. Fire Wall Sealant: Any penetration through firewalls (including those in sleeves) will be resealed with an Underwriter Laboratories (UL) approved sealant. 1.
  - Approved Products
  - 3M or a.
  - Pre-approved equal b.

#### 2.2 TRAINING

- Α. A minimum of eight hours for instruction in proper operation and routine maintenance of the system. Instruction shall cover all materials indicated in the Owner's operations manual.
- Β. Operational guidelines shall be given in written form in sufficient numbers so that all key personnel have operational instructions of programming; station use and special features. Copies of these instructions shall be provided for permanent record in the operations and

maintenance manuals.

#### 2.3 WARRANTY

A. One year from Date of Substantial Completion

#### 2.4 PRODUCTS AND MATERIALS

- A. Local Sound Reinforcement System (gymnasium)
  - 1. Rack Mount Amplifier: DSP & Amplifier by Harman or pre-approved equal. Three mic jacks, (1) in riser and (1) on either side of stage ATLAS S501-13C
  - 2. Three (3) Microphones Shure PGA 58-LC
  - 3. Three (3) Atlas MS-18C stand
  - 4. Three (3) Generic 25'-0" microphone chords
  - 5. One (1) Atlas DS-5 Desk Stand
  - 6. Digital Wireless Mic System Shure QLX/ULX Wireless
    - a. Two (2) receivers
    - b. Two (2) Handheld Transmitters
    - c. Two (2) Belt Pack Transmitter
    - d. Two (2) WH 30 Head worn Mic
    - e. Two (2) WL 185 Lapel Mic
    - f. Active Directional Antenna
  - 7. Wall Cabinet to house all local sound equipment.
- B. High School Gymnasium speakers:
  - 1. Full range speakers: JBL AM7215
  - 2. Low frequency speakers: JBL AL7115
  - 3. Coordinate color (Black/White) with owner prior to purchasing
- C. Athletic Field P.A. System: replace existing systems
  - 1. Amplifier: QSC 4-channel PLD 4.2 or similar product
  - 2. Rack: Middle Atlantic DTRK-718 or similar product
  - 3. Mixer: Art MX622 or similar product
  - 4. Wireless Microphones: Two (2) Shure QLX/ULX wireless mics
  - 5. Exterior mounted speakers- JBL AWC 129 BK
    - a. Mount speakers on front of press box: two speakers on each side, mounted horizontally one over the other. Speakers must be mounted to move left and right horizontally.
  - 6. Wall mounted equipment (in the knee space in center of press box)
    - a. One Mic Jack Plate
    - b. One L-R Aux input plate (2 RCA audio jacks)
- D. Hearing Assist System Provide hearing assist systems in areas are required by code. The hearing assist system is to consist of a FM transmitter with one antenna. The transmitter will broadcast in the FM band from 72.1 MHZ to 75.9 MHZ.
  - 1. Williams Sound PPA L157 system with PPAR35 receivers, one RPK005 rack mount kit and one ANT005 whip antenna
  - 2. Provide belt packs and mics in quantities required for space capacity as per ADA standards.

#### PART 3 – EXECUTION

- 3.1 GENERAL
  - A. Contractor is required to properly mount integrated A/V solutions and connect all ceiling

video / audio cables to projector component inputs.

- B. Contractor is required to thoroughly test and verify operation of all A/V inputs and video modes prior to project completion.
- C. Contractor is required to focus and adjust projector to properly project image on viewing surface (screen or multimedia board depending on location).
- D. Contractor shall provide owner with written verification test process and results once all projectors have been installed, tested, and placed in final condition.
- E. Damage: The Contractor shall replace or rework cables showing evidence of improper handling including stretches, kinks, short radius bends, over tightened bindings, loosely twisted and over-twisted pairs at terminals and cable sheath removed too far (over 1-1/2 inches).
- F. The Contractor shall replace any damaged ceiling tiles that are broken during cable installation.
- G. Clean Up: All clean up activity related to work performed will be the responsibility of the Contractor and must be completed daily before leaving the facility.

#### 3.2 DOCUMENTATION

- A. Contractor shall provide owner with detailed serial number listing and associated graphical room number designation equipment was installed. Contractor shall use actual graphical package room numbers not architectural plan numbers from construction set.
- 3.3 STATION WIRING INSTALLATION
  - A. General: All cable must be handled with care during installation so as not to change performance specifications. Factory twists of each individual pair must be maintained up to the connection points at both ends of all category 6 cable. There shall never be more than one and one-quarter inch of unsheathed enhanced Category6 UTP cable at either the wiring USB Transmitter or Receiver.
  - B. Exposed Cable: All cabling shall be installed inside walls or ceiling spaces whenever possible. Exposed station cable will only be run where indicated on the Drawings. Additional exposed cable runs will require Owner approval and will only be allowed when no other options exist.
  - C. Placement: All cabling and associated hardware shall be placed so as to make efficient use of available space. All cabling and associated hardware shall be placed so as not to impair the Owner's efficient use of their full capacity.
  - D. Cable Routes:
    - 1. All cabling placed in ceiling areas must be in conduit, cable tray or an approved J-Hook cable support. Cable supports shall be permanently anchored to building structure or substrates. Provide attachment hardware and anchors designed for the structure to which attached and that are suitably sized to carry the weight of the cables to be supported. Do not route cable through webbing of structural steel. Cabling must be supported in dedicated supports intended to support cabling as described in this section. Contractor shall adhere to the manufacturer's suggested fill ratio for each size cable support installed.
    - 2. Attaching cable to pipes or other mechanical items is not permitted. Communications cable shall be rerouted so as to provide a minimum of 18

inches spacing from light fixtures, sources of heat, power feeder conduits and EMI sources. Cabling shall not be attached to ceiling. Grid support wires. Cable runs shall be routed down the corridors; parallel or perpendicular to building structure. Multiple cables to be bundled together at and between each cable support installed.

3. Contractor shall be responsible for coordinating with other trades on the project so that the installed cable pathway does not interfere with the installation of other systems to ensure that mechanical ducts, pipes, conduits, or any other above ceiling systems are not putting unnecessary stress on any portion of the install audio-video cabling.

#### 3.4 STATION HARDWARE

- A. Flush mounted components: all components shall be inserted to a flush mounted faceplate unless designated otherwise.
- B. Placement: Where possible, the AV input outlets shall be located so that its centerline is 18 inches above floor level or 12 inches above permanent bench surfaces. Outlets shall not be mounted on temporary, movable, or removable surfaces, doors, or access hatches. The CMP outlet shall route directly to the rear of the projector and does not require any type of faceplates.

#### 3.5 PROGRAMMING

- A. Programming shall be coordinated with the Owner and Project's Consultant. Programming shall include, but not be limited to the following:
  - 1. AV Control Panel Configuration
  - 2. Audio routing from any source location through the DSP
  - 3. Projector and screen control via the Audio / Video Control panel
  - 4. Device resolution and over/under-scanning settings
  - 5. Incorporation of any Owner furnished source equipment (maximum of 3)

#### 3.6 FINAL TESTING REQUIREMENTS

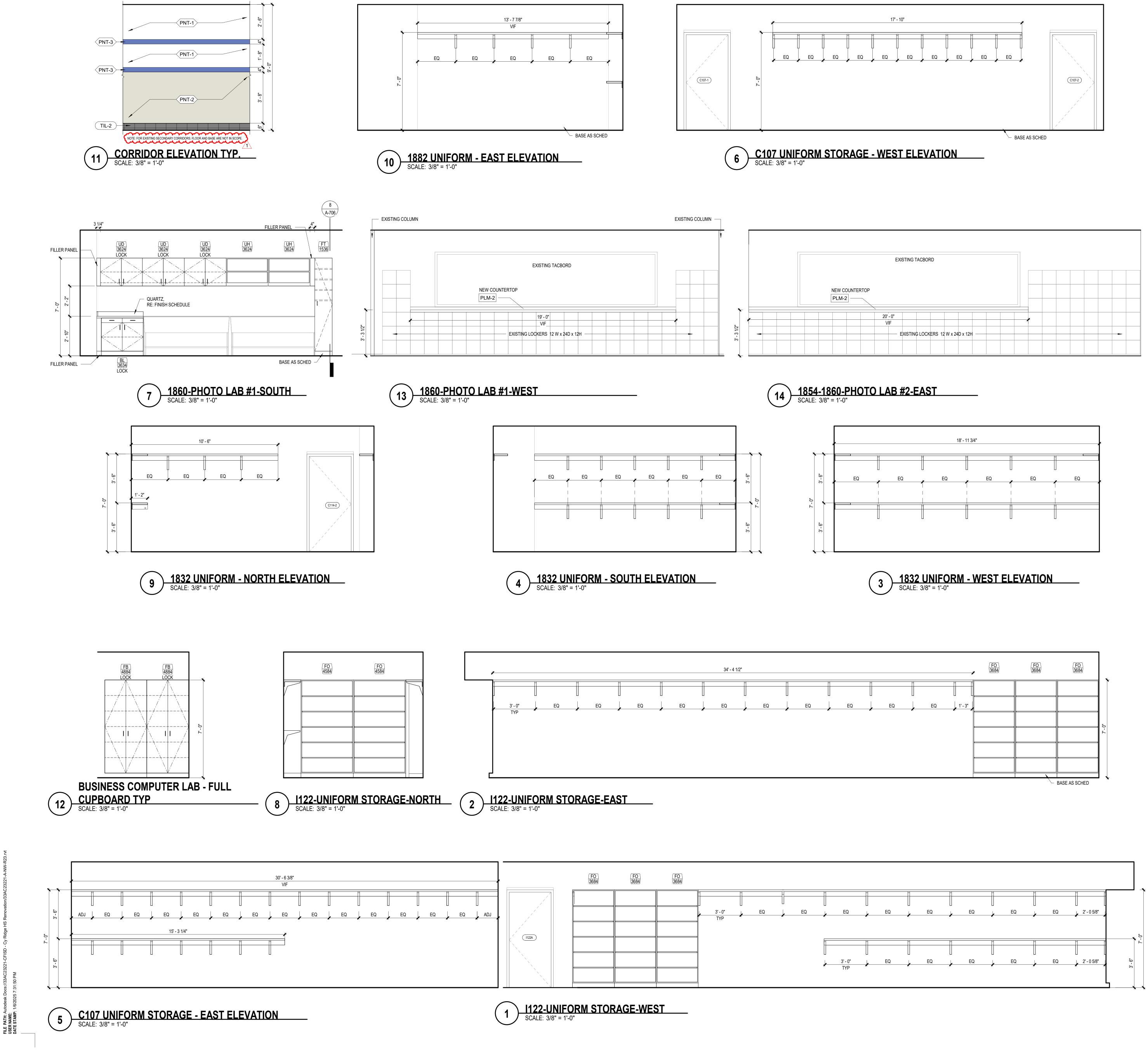
- A. Notification: The Owner and Engineer shall be notified one week prior to any testing so that the testing may be witnessed.
- B. Inspection: Before requesting a final inspection, the Contractor shall perform a series of end-to-end installation performance tests. The Contractor shall submit for approval a proposal describing the test procedures, test result forms and timetable for all copper and fiber optic cabling.
- C. Procedures: Trained personnel shall perform all testing. Acceptance of the test procedures discussed below is predicated on the Contractor's use of the recommended products and adherence to the inspection requirements and practices set forth. Acceptance of the completed installation will be evaluated in the context of each of these factors. Testing procedures shall consist of, but not me limited to the following:
  - 1. Input locations to be tested utilizing multiple types of source equipment. Equipment to include:
    - a. Personal Computer (laptop)
    - b. Apple iMac
    - c. Apple Mac Mini
    - d. Google Chromebook
    - e. Additional devices may be required at the time of testing
    - f. contractor to provide devices on a single cart, to roll between inputs during testing.

- 2. Routing of video, from any source to each projector and display simultaneously and independently.
- 3. Routing of audio, from any source to each audio channel simultaneously and independently.
- 4. Control of the entire system from each installed A/V Control Panel
- 5. Additional test requirements may be required at the Owner and/or Consultant's request.

#### 3.7 OWNER TRAINING AND DEMO

- A. A/V integrator shall provide demonstration of all integrated a/v solutions to owner's staff that have any stake with the operation and maintenance of the a/v solutions. Integrator shall produce sign in sheets for record of who was trained and when. Copies of sign in sheets shall be submitted with close out paperwork. Coordinate training dates with owner at project completion.
- B. Integrator shall provide factory training for owner's operations and maintenance personnel for each major component of the systems listed in the A/V solutions outlined in part 2 of these specifications. Training shall be a minimum of 4 hrs. per person. Re-training of staff shall be available, at no cost to the owner, to a maximum of 3 on-site training sessions up to 1 year from the date of project competition.
- C. All training is to be recorded via video recording and a copy of the recorded video shall be provided to the owner upon completion. All video recording equipment, for the recording of training, shall be provided by the integrator.

#### END OF SECTION



INTERIO	R ELEVATION GENERAL							
	NOTES							
ACCESSORIES INFORMA	FOR FLOOR PLAN INFORMATION. REFER TO A-100 SERIES FOR TION. REFER TO A-700 SERIES FOR CASEWORK DETAILS. FOR							
2. FOR PLUMBING FIXTURE FAUCETS SHOWN ARE F	O A-700 SERIES FOR TYP. DETAILS AND FINISH PLANS FOR FINISH. HEIGHTS, REFER TO PLUMBING DWG.SINKS, LAVATORIES AND OR REFERENCE ONLY. REFER TO PLBG DWGS FOR SCHED. ENTERED IN MILLWORK ELEVATION INDICATED U.N.O.							
<ol> <li>MILLWORK SHALL BE FINISHED WITH PLASTIC LAMINATE , REFER FINISH PLANS. FOR UPPER CABINETS, PLAM FINISH ON TOP UNLESS SOFFIT IS SCHEDULED.</li> </ol>								
<ol> <li>4. BASE CABINETS TO BE 24" DEEP U.N.O. UPPER CABINETS TO BE 14" DEEP U.N.O. ALL UNIT HEIGHTS AND WIDTH ARE INDICATED BY MILLWORK ELEVATION TAG, U.N.O.</li> </ol>								
5. INSTALL MATCHING FINISHED PANELS ON ALL EXPOSED ENDS AND SIDES. WHEN A FILLER PANEL EXISTS AT EACH END OF A CONTINUOUS RUN OF A CASEWORK, MAKE								
EACH PANEL EQUAL WIE 6. CABINET PULLS SHALL E	E LOCATED AS INDICATED ON DETAIL.							
	) LOWER CABINET HAVE FIXED ENDS HORIZONTALLY WITHIN 3" SHALL ALIGN VERTICALLY, U.N.O.							
UNLESS NOTED OTHERV U.N.O.	1/4" REVEAL CHANNEL SCREED BY FRY REGLETS OR EQUAL, VISE IN THE DRAWINGS. PAINT SAME COLOR AS WALL FINISH							
ACCESS TO POWER AND WITH ARCHITECT PRIOR	IETS AT ALL WORKSTATIONS WITH KNEE SPACES AND WHERE D/OR LOW VOLTAGE IS NEEDED. COORDINATE FINAL LOCATIONS TO INSTALLATION.							
NOT RELATE TO THE FLO	OOR PLAN AREA DESIGNATION.							
INSULATE EXPOSED PIP								
POWER & DATA OUTLET								
SHALL NOT PROTRUDE I 14. FOR TILE PLACEMENT, F								
15. AT EXPOSED EDGE OF (	GLAZING, PROVIDE STAINLESS STEEL END CHANNEL							
	'ED PNT-1 U.N.O. ALL MILLWORK TO BE PLM-1, U.N.O. ALL LM-2 U.N.O. ALL WALL BASE TO BE RB-1 U.N.O.							
	CHLUTER EDGE TRIM AT ALL EXPOSED TILE EDGES. CASEWORK TO BE SOLID WOOD; COUNTERTOPS TO BE EPOXY.							
PREPARATION AREA RE	BORATORY FURNITURE IN SCIENCE LABORATORY AND FER TO SPEC SECTION 12 35 53 LABORATORY CASEWORK G AND/OR ELECTRICAL REQUIREMENTS FOR APPLIANCES AND							
	NS AND CLEARANCE REQUIREMENTS FOR ALL FILE CABINETS,							
21. CONTINUE COUNTERTO	APPLIANCES AND EQUIPMENT PROVIDED BY CONTRACTOR AND/OR OWNER. 21. CONTINUE COUNTERTOP BACKSPLASH TO SIDEWALLS WHERE SUCH CONDITIONS							
	TALL CABINETS ARE TO BE LOCKABLE. LOCKS TO BE KEYED							
	OCKS TO BE KEYED DIFFERENT BETWEEN ROOMS.							
24. PROVIDE COUNTERTOP	SUPPORT BRACKETS AT 36" O.C. MAX. AT KNEE SPACES AND							
LAVATORY COUNTERS, UNLESS NOTED OTHERWISE. 25. EXPOSED CORNERS AT PLASTIC LAMINATE COUNTERTOPS TO HAVE 1" RADIUS								
CORNERS. EXPOSED CORNERS AT QUARTZ/SOLID SURFACE COUNTERTOPS TO HAVE 1/2" RADIUS CORNERS. EXCLUDES WATERFALL COUNTERTOP CONDITIONS. 26. PROVIDE WALL BASE FOR RECESSED TOE-KICKS AND BACK OF KNEE SPACE(S) UNLESS								
NOTED OTHERWISE 27. MILLWORK SHALL BE CA								
28. CLOSE TOP AND BOTTC WHERE BLIND CORNERS A	M VOIDS BETWEEN CORNER CABINETS AND FILLER PANELS RE NOT USED							
29. SPLICES ARE NOT PERM LONG.	/ITTED ON CONTERTOP LAMINATE MATERIAL LESS THAN 144"							
30. ENSURE FILE DRAWERS TABS FRONT TO REAR, TYP	S ACCOMMODATE 8 1/2"X11" PENDAFLEX HANGING FILES WITH							
INTERIC	OR ELEVATION LEGEND							
SYMBOL	DESCRIPTION							
BK 3034 LOCK	<ul> <li>MILLWORK ELEVATION TYPE; REF: A-700 SERIES FOR SECTION DETAILS</li> <li>NOMINAL WIDTH IN INCHES</li> <li>NOMINAL HEIGHT IN INCHES</li> </ul>							
[23]	ACCESSORY TAG							
	EQUIPMENT TAG, REFER TO FIXED EQUIPMENT, A-662							
H3 A-301	SECTION TAG REFER TO SECTION AS INDICATED							
H3 A-301 SIM	ELEVATION TAG REFER TO ELEVATION AS INDICATED							
< <b>88</b> >	REFERENCED NOTE TAG REFER TO REFERENCED NOTE ON THIS SHEET AS INDICATED							
	WOOD GRAIN DIRECTION INDICATOR							
RWB-1	WALL BASE FINISH TAG, REFER TO FINISH SCHEDULE WALL FINISH TAG, REFER TO FINISH SCHEDULE							
GLZ-1	GLASS INDICATOR							
- P.0.0.								
	FURNITURE PROJECTION							
	KEYED NOTES							
NUMBER D	DESCRIPTION							



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**REVISION HISTORY** 

1 ADDENDUM 03 REVISION DESCRIPTION PROFESSIONAL SEALS



01/06/2025

DATE

CLIENT



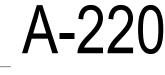
## PROJECT 2024 CY RIDGE HS RENOVATION

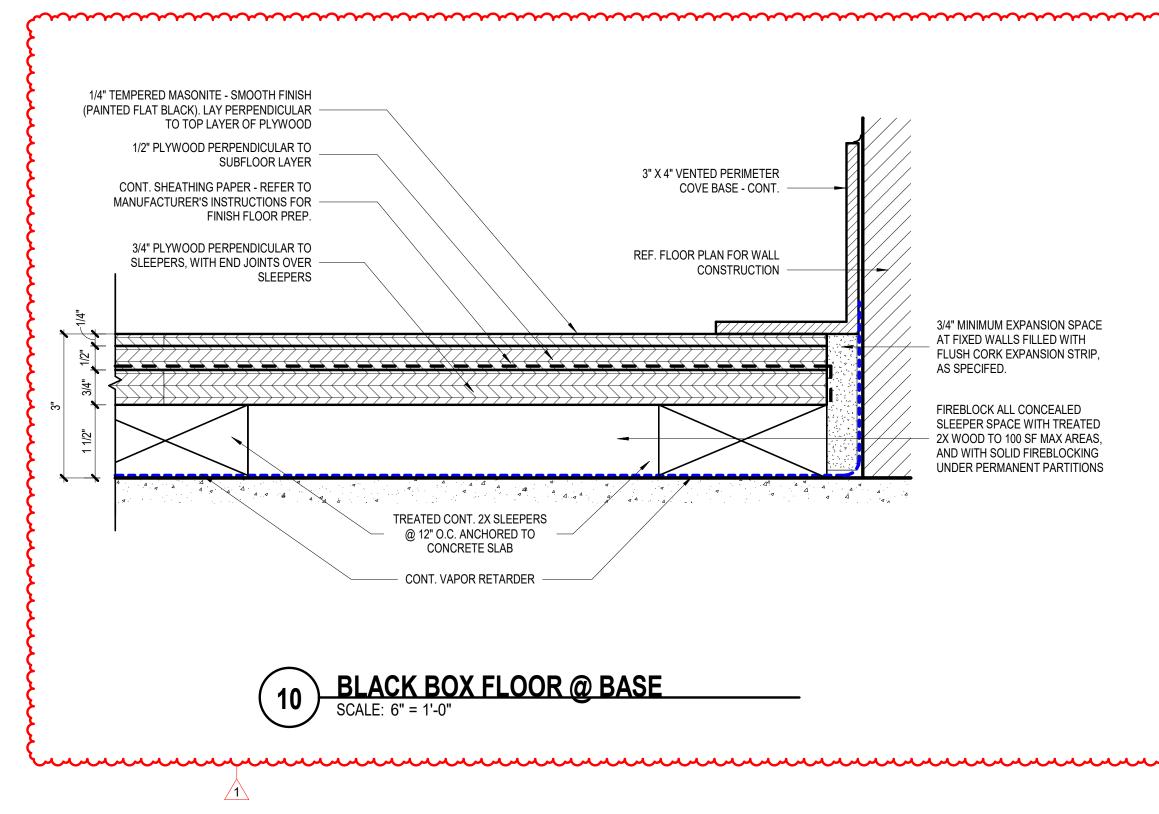
7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION 33AC23221

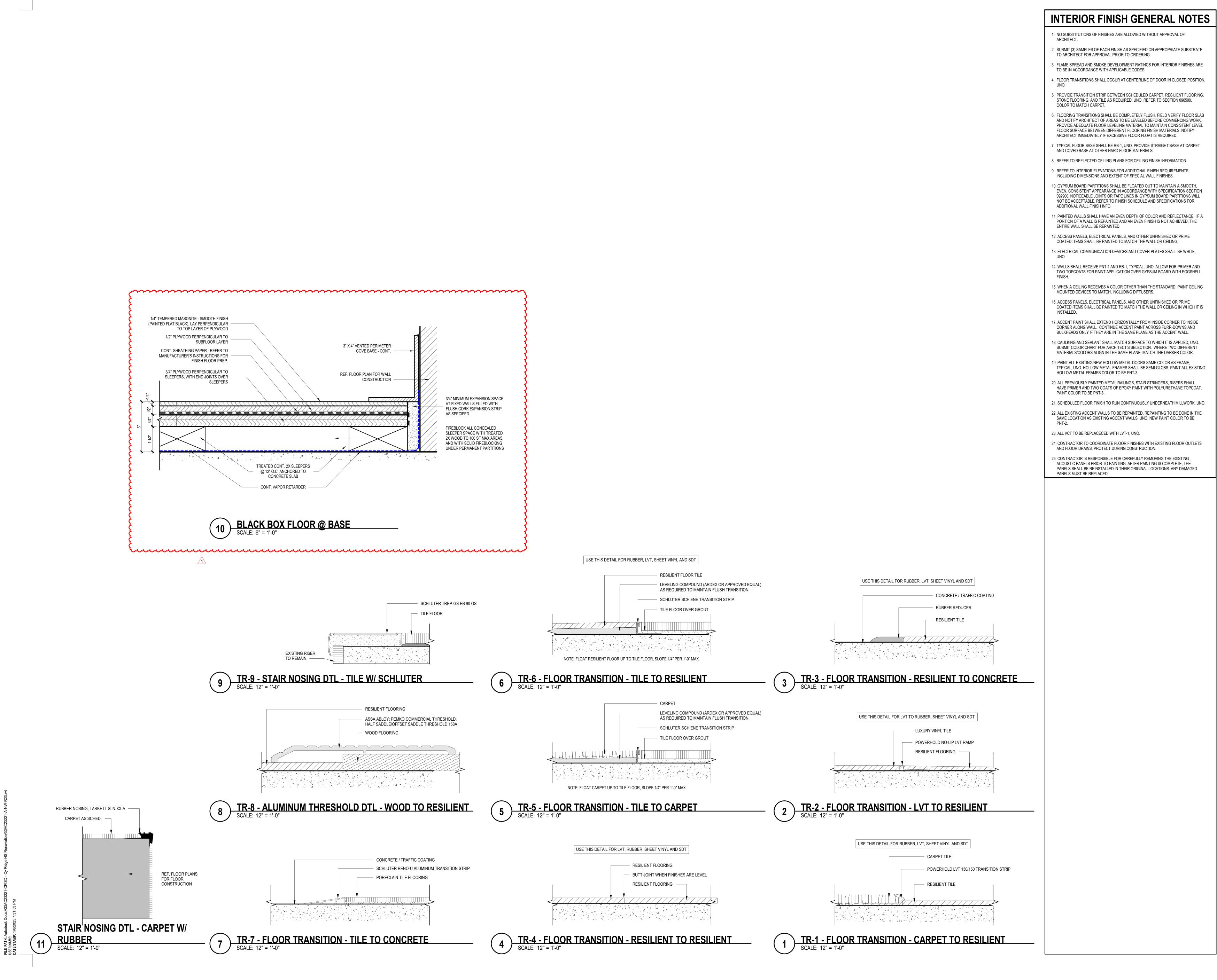
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**REVISION HISTORY** 1 ADDENDUM 03 01/06/2025 DATE REVISION DESCRIPTION PROFESSIONAL SEALS CLIENT **CYPRESS** • FAIRBANKS INDEPENDENT SCHOOL DISTRICT PROJECT

# 2024 CY RIDGE HS RENOVATION

7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION CFISD 33AC23221

DRAWN BY CHECKED BY Checker Author ORIGINAL ISSUE **ISSUE FOR PROPOSALS** DECEMBER 09, 2024

SHEET NAME **ARCHITECTURAL - TRANSITION** 

DETAILS SHEET NUMBER



							INTERIORS - FINISH SCHEDULE - NOTEBLOCK_SHAPES - SUSTAINABILITY							
								v4 EPD (OPT 1)		SOURCING OF RAW MATERIALS (OPT 2)	MFG		ITS (OPT 1)	-
ITEM CODE	ITEM DESIGNATION	MANUFACTURER	MODEL	COLOR	COLOR NUMBE	R FINISH, TEXTURE, PATTERN, SIZE	COMMENTS	v4 EPD OPT 1 EPD TYPE	PRODUCT TAKE BACK	BIO BASED MATERIALS FSC REUSE RE	CYCLED REPORT	PRODUCT CRADLE TO	DECLARE PRODUCT LENS	FINISH - REP CONTACT
Base RB-1	RUBBER BASE	ROPPE		BLACK BROWN		4" RUBBER BASE			•			•		JENNIFER BRAMMER
														JENNIFER.BRAMMER@PROFESSIONALF LOORING.COM (713) 957-8282 X 3947
TIL-3B	TILE BASE	DALTILE	VOLUME 1.0 P36C9	INTENSITY PEBBL	VL72	COVE BASE 6" X 12"	TILE BASE							FABIAN BROADEN FABIAN.BROADEN@DALTILE.COM
Ceiling ACT-1	ACOUSTICAL CEILING GRID TILE	ARMSTRONG	SCHOOL ZONE FINE FISSURED	WHITE; REFER TO RCP FOR LOCATION OF BLACK CEILING TILES (BLACK BOX)	:	NRC.70	CLASSROOM/LEARNING SPACES	PRODUCT     SPECIFIC	•	•	•	•		KATHERINE A. KIDD KAKIDD@ARMSTRONGCEILINGS.COM
ACT-2	ACOUSTICAL CEILING GRID TILE	ARMSTRONG	CORTEGA	WHITE; REFER TO RCP FOR LOCATION OF BLACK CEILING TILES (BLACK BOX)	770	NRC.55	CORRIDORS	PRODUCT     SPECIFIC	•		•	•	•	(713) 702-5955 KATHERINE A. KIDD KAKIDD@ARMSTRONGCEILINGS.COM
ACT-3	ACOUSTICAL CEILING GRID TILE	ARMSTRONG		WHITE		NRC.70 MINIMUM	LIBRARY							(713) 702-5955 KATHERINE A. KIDD KAKIDD@ARMSTRONGCEILINGS.COM
ACT-4	ACOUSTICAL CEILING GRID TILE	ARMSTRONG	CLEAN ROOM	WHITE	868		KITCHENS				•			(713) 702-5955 KATHERINE A. KIDD KAKIDD@ARMSTRONGCEILINGS.COM
2 EXP	EXPOSED DECK / STRUCTURE													(713) 702-5955
Floor CPT-1	CARPET	TARKETT	AFTERMATH	TAPESTRY	23512	6' POWERBOND	FIELD; TRANSITION TRIM SCHLUTER VINPRO-S ALUMINUM CARPET TO RESILIENT.	PRODUCT     SPECIFIC	•		•			KAREN PERUCKI KAREN.PERUCKI@TARKETT.COM
CPT-2 LVT-1	WALKOFF CARPET	TARKETT TARKETT	FABRICATE ID LATITUDE	FRENCH NAVY VILLA WHITE	36204	6' POWERBOND 18" X 18"	AT THEATER STEPS ONLY FIELD	PRODUCT	•		•			(832) 367-5109 KAREN PERUCKI
LVT-2	LUXURY VINYL TILE	TARKETT	ABSTRACT	LANDMARK	7565	18" X 18"	ACCENT	SPECIFIC     PRODUCT	•		•			KAREN.PERUCKI@TARKETT.COM (832) 367-5109 KAREN PERUCKI
LVT-3	LUXURY VINYL TILE	TARKETT	ABSTRACT	NIGHTFALL	7552	18" X 18"	ACCENT	PRODUCT						KAREN.PERUCKI@TARKETT.COM (832) 367-5109 KAREN PERUCKI
			ABSTRACT					SPECIFIC	•		•			KAREN.PERUCKI@TARKETT.COM (832) 367-5109
LVT-4	LUXURY VINYL TILE	TARKETT	EVENT STONE	CALDERA	11198	12" X 24"	DARK ROOM, STAGE RAMPS.	PRODUCT     SPECIFIC	•		•			KAREN PERUCKI KAREN.PERUCKI@TARKETT.COM (832) 367-5109
LVT-5 POC-1	LUXURY VINYL TILE CONCRETE - POLISHED	MOHAWK	MOLVENO STONES	CITYSCAPE	988	11.75" X 35.75"	PRESS BOX ART ROOMS, KILN, ART OFFICE	PRODUCT     SPECIFIC				•		PATTI SUE PATTISUE_BROWN@MOHAWKIND.COM
SEC-1 SF-1	CONCRETE - SEALED SPORTS FLOORING	REGUPOL	AKTIVPRO	MEAN GREEN	AK10106	ROLLED PRODUCT ONLY; 1" THICKNESS	MECHANICAL ROOM, METAL STORAGE BUILDING, IDF FIELD COLOR 20% SPECKLED							LENNY WACHOWIAK LENNY@GFRCONTRACT.COM
SF-2	SPORTS FLOORING	REGUPOL	AKTIVPRO	THUNDER GRAY	AK95102	ROLLED PRODUCT ONLY; 1" THICKNESS	PLATFORMS							(281) 757 4196 LENNY WACHOWIAK
SF-3	SPORTS FLOORING	REGUPOL CRASH	AKTIVPRO	CRASH BLACK	AK10100	ROLLED PRODUCT ONLY; 1" THICKNESS	CRASH PADS							LENNY@GFRCONTRACT.COM (281) 757 4196 LENNY WACHOWIAK
SVH-1	RESILIENT SHEET VINYL	TARKETT	IQ GRANIT	WARM LIGHT GREY	0234		CLINIC FIELD	PRODUCT	•		•			LENNY@GFRCONTRACT.COM (281) 757 4196 KAREN PERUCKI
SVH-2	RESILIENT SHEET VINYL	TARKETT	IQ GRANIT	WHITE SAND	0320		CLINIC ACCENT	SPECIFIC     PRODUCT	•		•			KAREN.PERUCKI@TARKETT.COM (832) 367-5109 KAREN PERUCKI
SVH-3	RESILIENT SHEET VINYL	TARKETT	IQ GRANIT	WARM CONCRETE	0297		CLINIC ACCENT	SPECIFIC     PRODUCT	•		•			KAREN.PERUCKI@TARKETT.COM (832) 367-5109 KAREN PERUCKI
		DALTILE		STEREO GREY		12" X 24"	FIELD; TRANSITION TRIM SCHLUTER RENO-U ALUMINUM TILE TO CONCRETE. TRANSITION TRIM	SPECIFIC	-		-			KAREN.PERUCKI@TARKETT.COM (832) 367-5109 FABIAN BROADEN
TIL-1 TIL-2	TILE	DALTILE	VOLUME 1.0 VOLUME 1.0	INTENSITY PEBBL	VL73 VL72	12" X 24"	SCHLUTER SCHIENE ALUMINUM TILE TO RESILIENT. ACCENT; TRANSITION TRIM SCHLUTER RENO-U ALUMINUM TILE TO CONCRETE.TRANSITION TRIM				•			FABIAN.BROADEN@DALTILE.COM FABIAN BROADEN
TIL-3	TILE	DALTILE	VOLUME 1.0	VAPOR	VL63	12" X 24"	SCHLUTER SCHIENE ALUMINUM TILE TO RESILIENT.         MAIN CORRIDOR ACCENT				•			FABIAN.BROADEN@DALTILE.COM FABIAN BROADEN FABIAN.BROADEN@DALTILE.COM
TIL-4 TIL-5	TILE	DALTILE	VOLUME 1.0 VOLUME 1.0	STEREO GREY	VL73 VL72	12" X 12" 12" X 12"	STAIRS; TRANSITION TRIM SCHLUTER RENO-U ALUMINUM TILE TO CONCRETE.TRANSITION TRIM SCHLUTER SCHIENE ALUMINUM TILE TO RESILIENT. STAIRS; TRANSITION TRIM SCHLUTER RENO-U ALUMINUM TILE TO CONCRETE.TRANSITION TRIM				•			FABIAN BROADEN FABIAN.BROADEN@DALTILE.COM FABIAN BROADEN
WD-2	HARDBOARD FACED PLYWOOD (MASONITE)						SCHLUTER SCHIENE ALUMINUM TILE TO RESILIENT. TO BE PAINTED PNT-6 IN BLACK BOX				-			FABIAN.BROADEN@DALTILE.COM
Millwork/Casework EPX-1 PLM-1	SURFACING PLASTIC LAMINATE	FORMICA		SILVER RIFTWOOD	6413-NG	GRAIN DIRECTION: VERTICAL	SCIENCE LAB COUNTERTOPS ALL VERTICAL SURFACES U.N.O.UPPER & LOWER CABINETS							AMY RITCHMOND
PLM-2	PLASTIC LAMINATE	FORMICA		COTTON CLOTH	8681-58	MATTE	ALL COUNTERTOPS U.N.O; SIGNAGE	PRODUCT		• •	•	•	•	AMY.RITCHMOND@FORMICA.COM (713) 658-5886 AMY RITCHMOND
PLM-3	PLASTIC LAMINATE	WILSONART		BLACK	1595-60	MATTE	COSMETOLOGY AND DARK ROOM. CONTROL ROOM AND BLACK BOX. VERTICAL SURFACES	SPECIFIC     PRODUCT		• •	•	•		AMY.RITCHMOND@FORMICA.COM (713) 658-5886 CASSIDY CAREY
PLM-4	PLASTIC LAMINATE	FORMICA		WILD CHERRY	5904-43	GRAIN DIRECTION: VERTICAL	MATCH EXISTING VERTICAL SURFACES AND DOORS	SPECIFIC						CAREYC@WILSONART.COM (281) 908-8611 AMY RITCHMOND
							CONTROL ROOM COUNTERTOP							AMY.RITCHMOND@FORMICA.COM (713) 658-5886 CASSIDY CAREY
PLM-5	PLASTIC LAMINATE	WILSONART		BLACKBIRD	5024K-19			PRODUCT     SPECIFIC		• •	•	•		CASSIDY CAREY CAREYC@WILSONART.COM (281) 908-8611
PLM-6 PLM-7 QTZ-1	PLASTIC LAMINATE PLASTIC LAMINATE SURFACING	FORMICA FORMICA CAMBRIA		TBD TBD HARROGATE			MATCH NAVY PAINT FOR SIGNAGE MATCH GREEN PAINT FOR SIGNAGE RECEPTION DESK					•	•	JOSIE WEST
QTZ-2	SURFACING	CAMBRIA		TEMPLETON			ART ROOM, DIGITAL MEDIA, COOKING LAB AND PRESSBOX					•		JOSIE.WEST@CAMBRIAUSA.COM (218) 591-7062 JOSIE WEST
QTZ-3	SURFACING	WILSONART		VESUVIUS	Q1017	MATTE						•		JOSIE.WEST@CAMBRIAUSA.COM (218) 591-7062 JOSIE WEST
		WEGGNART												JOSIE.WEST@CAMBRIAUSA.COM (218) 591-7062
Miscellaneous GR-1	GROUT	LATICRETE	N/A	DUSTY GREY	60		FLOOR GROUT							EMILY WOOD EMWOOD@LATICRETE.COM
TEX-1 TR-1	Textiles FLOOR TRANSITION - CARPET TO RESILIENT	SCHLUTER	VINPRO-S	ALUMINUM		CARPET TO RESILIENT								1(800) 243-4788 JOSIE JANSSEN
TR-2	FLOOR TRANSITION - LVT TO RESILIENT					LVT TO RESILIENT								JJANSSEN@SCHLUTER.COM (888) 473-5488 EXT. 4693
TR-3 TR-4	FLOOR TRANSITION - RESILIENT TO CONCRETE FLOOR TRANSITION - RESILIENT TO RESILIENT	•				RUBBER REDUCER RESILIENT TO RESILIENT								JOSIE JANSSEN
TR-5		SCHLUTER	SCHIENE	ALUMINUM										JJANSSEN@SCHLUTER.COM (888) 473-5488 EXT. 4693
TR-6	FLOOR TRANSITION - TILE TO RESILIENT	SCHLUTER	SCHIENE	ALUMINUM		TILE TO RESILIENT								JOSIE JANSSEN JJANSSEN@SCHLUTER.COM (888) 473-5488 EXT. 4693
TR-7		SCHLUTER	RENO-U	ALUMINUM		TILE TO CONCRETE								JOSIE JANSSEN JJANSSEN@SCHLUTER.COM (888) 473-5488 EXT. 4693
TR-8	FLOOR TRANSITION - ALUMINUM THRESHOLD DTL - WOOD TO RESILIENT	ASSA ABLOY	РЕМКО	ALUMINUM		WOOD TO RESILIENT								LAURIE BAKER LAURIE.BAKER@ASSAABLOY.COM (346) 257-9331
TR-9	STAIR NOSING PROFILE	SCHLUTER	TREP-G-S	BLACK	GS	11/32" H								JOSIE JANSSEN JJANSSEN@SCHLUTER.COM (888) 473-5488 EXT. 4693
Wall AWP-1	ACOUSTICAL WALL PANELING	GUILFORD OF MAINE	FR701 2100	BLUE PLUM	553		MAIN CORRIDOR				•			GUILFORDSALES@GUILFORDOFMAINE.
AWP-2	ACOUSTICAL WALL PANELING	GUILFORD OF MAINE	FR701 2100	FIR	743		MAIN CORRIDOR				•			COM GUILFORDSALES@GUILFORDOFMAINE. COM
PNT-1	PAINT	SHERWIN WILLIAMS		AGREEABLE GRAY	SW7029		FIELD	PRODUCT     SPECIFIC			•			JOY LACHELLE BABUR JOY.L.BABUR@SHERWIN.COM (713) 957-4209
PNT-2	PAINT	SHERWIN WILLIAMS		DORIAN GRAY	SW7017		NEUTRAL ACCENT	PRODUCT     SPECIFIC			•			JOY LACHELLE BABUR JOY.L.BABUR@SHERWIN.COM (713) 957-4209
PNT-3	PAINT	SHERWIN WILLIAMS		DRESS BLUE	SW9176		CORRIDOR ACCENT, STAIRS, DOOR FRAMES, RAILINGS	PRODUCT     SPECIFIC			•			JOY LACHELLE BABUR JOY.L.BABUR@SHERWIN.COM (713) 957-4209
PNT-4	PAINT	SHERWIN WILLIAMS		KALE GREEN	SW6460		GREEN ACCENT	PRODUCT     SPECIFIC			•			JOY LACHELLE BABUR JOY.L.BABUR@SHERWIN.COM
PNT-5	PAINT	SHERWIN WILLIAMS		PURE WHITE	SW7005		CEILING							(713) 957-4209 JOY LACHELLE BABUR JOY.L.BABUR@SHERWIN.COM
PNT-6	PAINT	SHERWIN WILLIAMS		BLACK MAGIC	SW6991		PAINT FLOORING IN AREA G - CONTROL ROOM AND BLACK BOX							(713) 957-4209 JOY LACHELLE BABUR JOY.L.BABUR@SHERWIN.COM
WP-1	FOLDING PARTITION	TBD					MARKERBOARDS TO HAVE HORIZONTAL TRIM; TRIM IS NOT ACCEPTABLE ON VERTICAL EDGES, TO PROVIDE UNINTERRUPTED WORK SURFACE. NO EXPOSED FASTENERS ON PARTITION WALL;							(713) 957-4209
							FASTENERS REQUIRED TOP, BOTTOM AND BOTH SIDES.							

# INTERIOR FINISH GENERAL NOTES

- 1. NO SUBSTITUTIONS OF FINISHES ARE ALLOWED WITHOUT APPROVAL OF ARCHITECT.
- 2. SUBMIT (3) SAMPLES OF EACH FINISH AS SPECIFIED ON APPROPRIATE SUBSTRATE TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
- 3. FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS FOR INTERIOR FINISHES ARE TO BE IN ACCORDANCE WITH APPLICABLE CODES.
- 4. FLOOR TRANSITIONS SHALL OCCUR AT CENTERLINE OF DOOR IN CLOSED POSITION, UNO.
- PROVIDE TRANSITION STRIP BETWEEN SCHEDULED CARPET, RESILIENT FLOORING, STONE FLOORING, AND TILE AS REQUIRED; UNO. REFER TO SECTION 096500. COLOR TO MATCH CARPET.
- 6. FLOORING TRANSITIONS SHALL BE COMPLETELY FLUSH. FIELD VERIFY FLOOR SLAB AND NOTIFY ARCHITECT OF AREAS TO BE LEVELED BEFORE COMMENCING WORK. PROVIDE ADEQUATE FLOOR LEVELING MATERIAL TO MAINTAIN CONSISTENT LEVEL FLOOR SURFACE BETWEEN DIFFERENT FLOORING FINISH MATERIALS. NOTIFY ARCHITECT IMMEDIATELY IF EXCESSIVE FLOOR FLOAT IS REQUIRED.
- 7. TYPICAL FLOOR BASE SHALL BE RB-1, UNO. PROVIDE STRAIGHT BASE AT CARPET AND COVED BASE AT OTHER HARD FLOOR MATERIALS.
- 8. REFER TO REFLECTED CEILING PLANS FOR CEILING FINISH INFORMATION.
- 9. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL FINISH REQUIREMENTS, INCLUDING DIMENSIONS AND EXTENT OF SPECIAL WALL FINISHES.
- 10. GYPSUM BOARD PARTITIONS SHALL BE FLOATED OUT TO MAINTAIN A SMOOTH, EVEN, CONSISTENT APPEARANCE IN ACCORDANCE WITH SPECIFICATION SECTION 092900. NOTICEABLE JOINTS OR TAPE LINES IN GYPSUM BOARD PARTITIONS WILL NOT BE ACCEPTABLE. REFER TO FINISH SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL WALL FINISH INFO.
- 11. PAINTED WALLS SHALL HAVE AN EVEN DEPTH OF COLOR AND REFLECTANCE. IF A PORTION OF A WALL IS REPAINTED AND AN EVEN FINISH IS NOT ACHIEVED, THE ENTIRE WALL SHALL BE REPAINTED.
- 12. ACCESS PANELS, ELECTRICAL PANELS, AND OTHER UNFINISHED OR PRIME COATED ITEMS SHALL BE PAINTED TO MATCH THE WALL OR CEILING.
- 13. ELECTRICAL COMMUNICATION DEVICES AND COVER PLATES SHALL BE WHITE, UNO.
- 14. WALLS SHALL RECEIVE PNT-1 AND RB-1, TYPICAL, UNO. ALLOW FOR PRIMER AND TWO TOPCOATS FOR PAINT APPLICATION OVER GYPSUM BOARD WITH EGGSHELL FINISH.
- 15. WHEN A CEILING RECEIVES A COLOR OTHER THAN THE STANDARD, PAINT CEILING MOUNTED DEVICES TO MATCH, INCLUDING DIFFUSERS.
- 16. ACCESS PANELS, ELECTRICAL PANELS, AND OTHER UNFINISHED OR PRIME COATED ITEMS SHALL BE PAINTED TO MATCH THE WALL OR CEILING IN WHICH IT IS INSTALLED.
- ACCENT PAINT SHALL EXTEND HORIZONTALLY FROM INSIDE CORNER TO INSIDE CORNER ALONG WALL. CONTINUE ACCENT PAINT ACROSS FURR-DOWNS AND BULKHEADS ONLY IF THEY ARE IN THE SAME PLANE AS THE ACCENT WALL.
   CAULKING AND SEALANT SHALL MATCH SURFACE TO WHICH IT IS APPLIED, UNO.
- SUBMIT COLOR CHART FOR ARCHITECT'S SELECTION. WHERE TWO DIFFERENT MATERIALS/COLORS ALIGN IN THE SAME PLANE, MATCH THE DARKER COLOR. 19. PAINT ALL EXISTING/NEW HOLLOW METAL DOORS SAME COLOR AS FRAME,
- TYPICAL, UNO. HOLLOW METAL FRAMES SHALL BE SEMI-GLOSS. PAINT ALL EXISTING HOLLOW METAL FRAMES COLOR TO BE PNT-3.20. ALL PREVIOUSLY PAINTED METAL RAILINGS, STAIR STRINGERS, RISERS SHALL
- HAVE PRIMER AND TWO COATS OF EPOXY PAINT WITH POLYURETHANE TOPCOAT. PAINT COLOR TO BE PNT-3. 21. SCHEDULED FLOOR FINISH TO RUN CONTINUOUSLY UNDERNEATH MILLWORK, UNO.
- 22. ALL EXISTING ACCENT WALLS TO BE REPAINTED. REPAINTING TO BE DONE IN THE SAME LOCATION AS EXISTING ACCENT WALLS, UNO. NEW PAINT COLOR TO BE PNT-2.
- 23. ALL VCT TO BE REPLACECED WITH LVT-1, UNO.
- 24. CONTRACTOR TO COORDINATE FLOOR FINISHES WITH EXISTING FLOOR OUTLETS AND FLOOR DRAINS, PROTECT DURING CONSTRUCTION.25. CONTRACTOR IS RESPONSIBLE FOR CAREFULLY REMOVING THE EXISTING
- 25. CONTRACTOR IS RESPONSIBLE FOR CAREFULLY REMOVING THE EXISTING ACOUSTIC PANELS PRIOR TO PAINTING. AFTER PAINTING IS COMPLETE, THE PANELS SHALL BE REINSTALLED IN THEIR ORIGINAL LOCATIONS. ANY DAMAGED PANELS MUST BE REPLACED.



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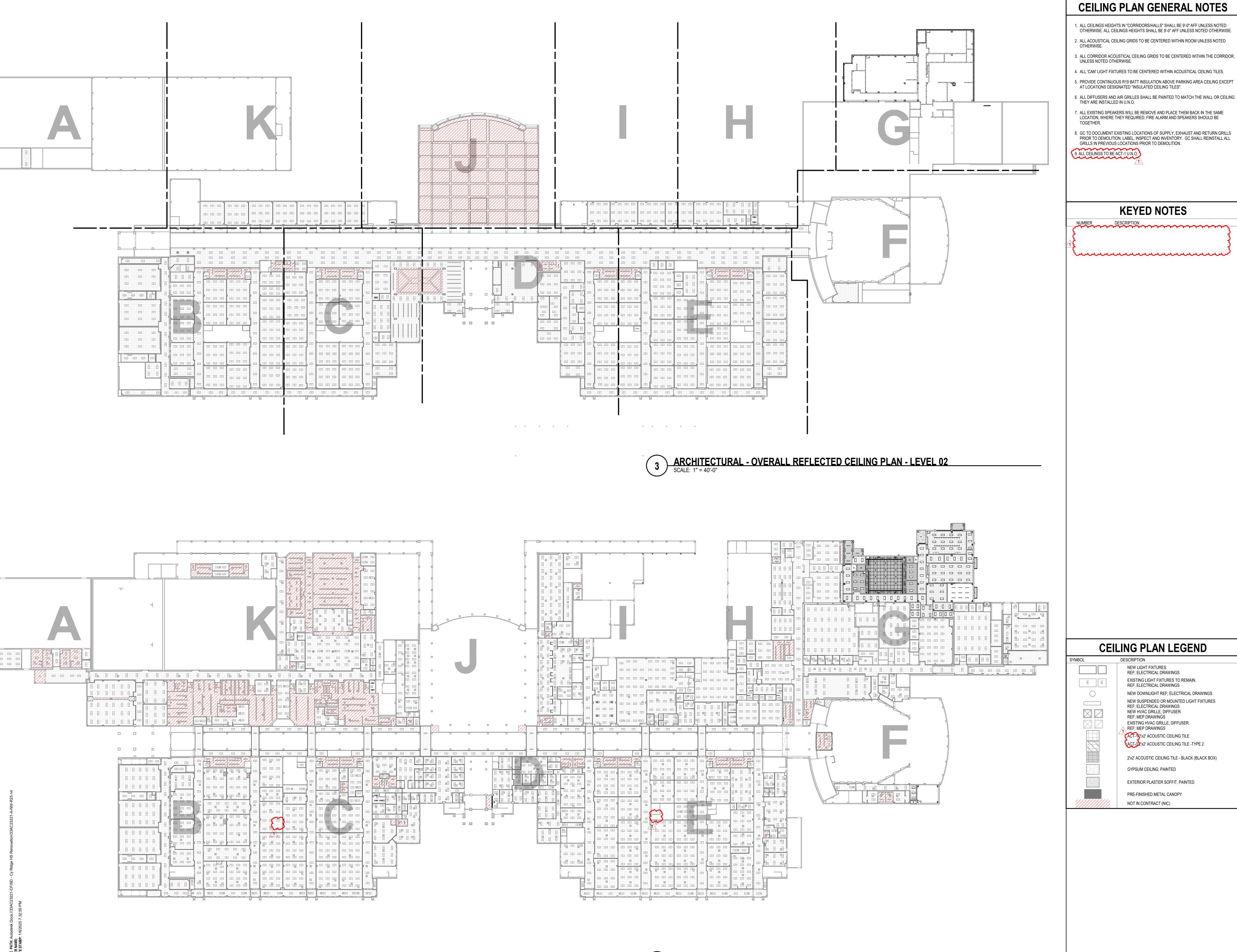
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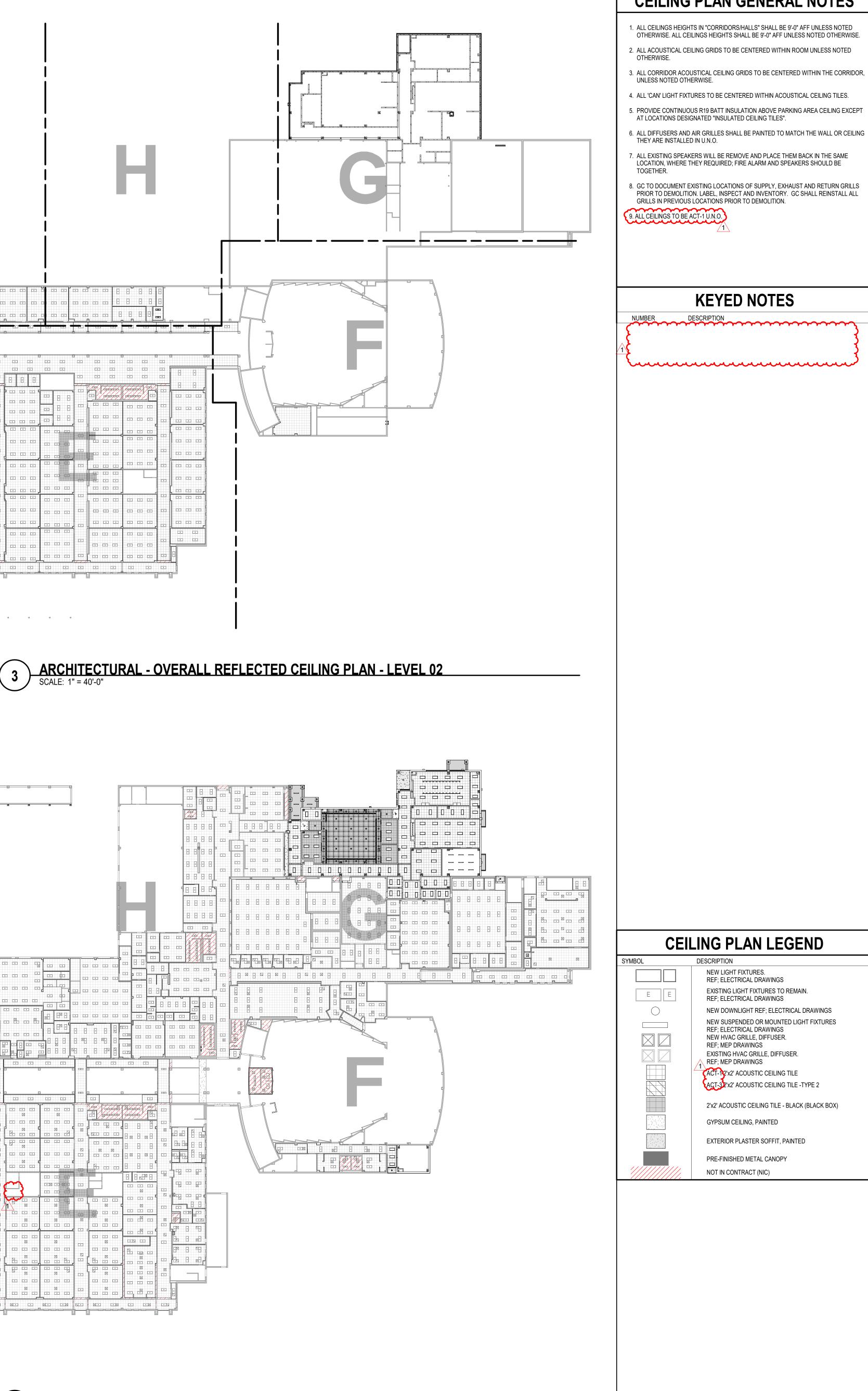
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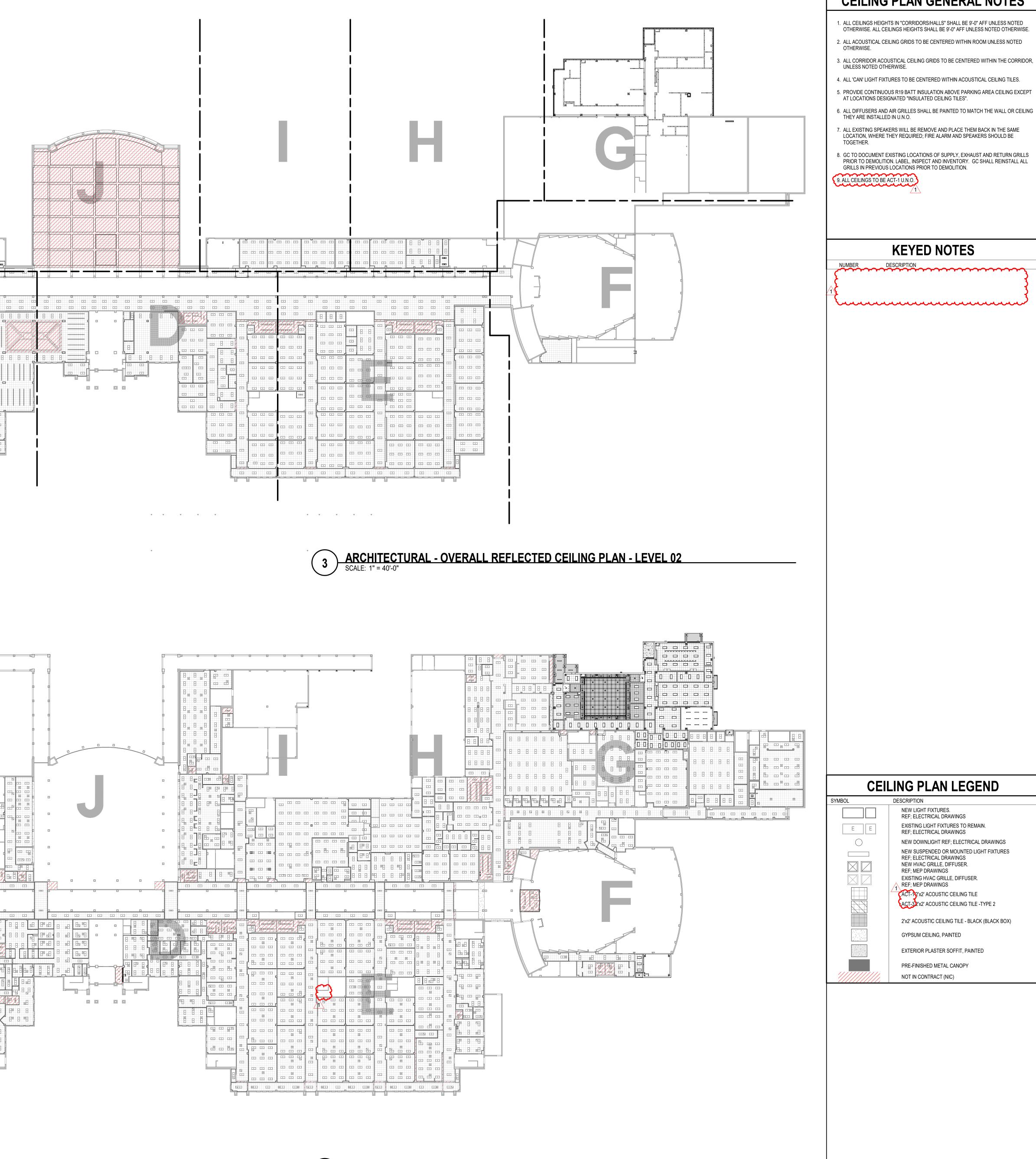
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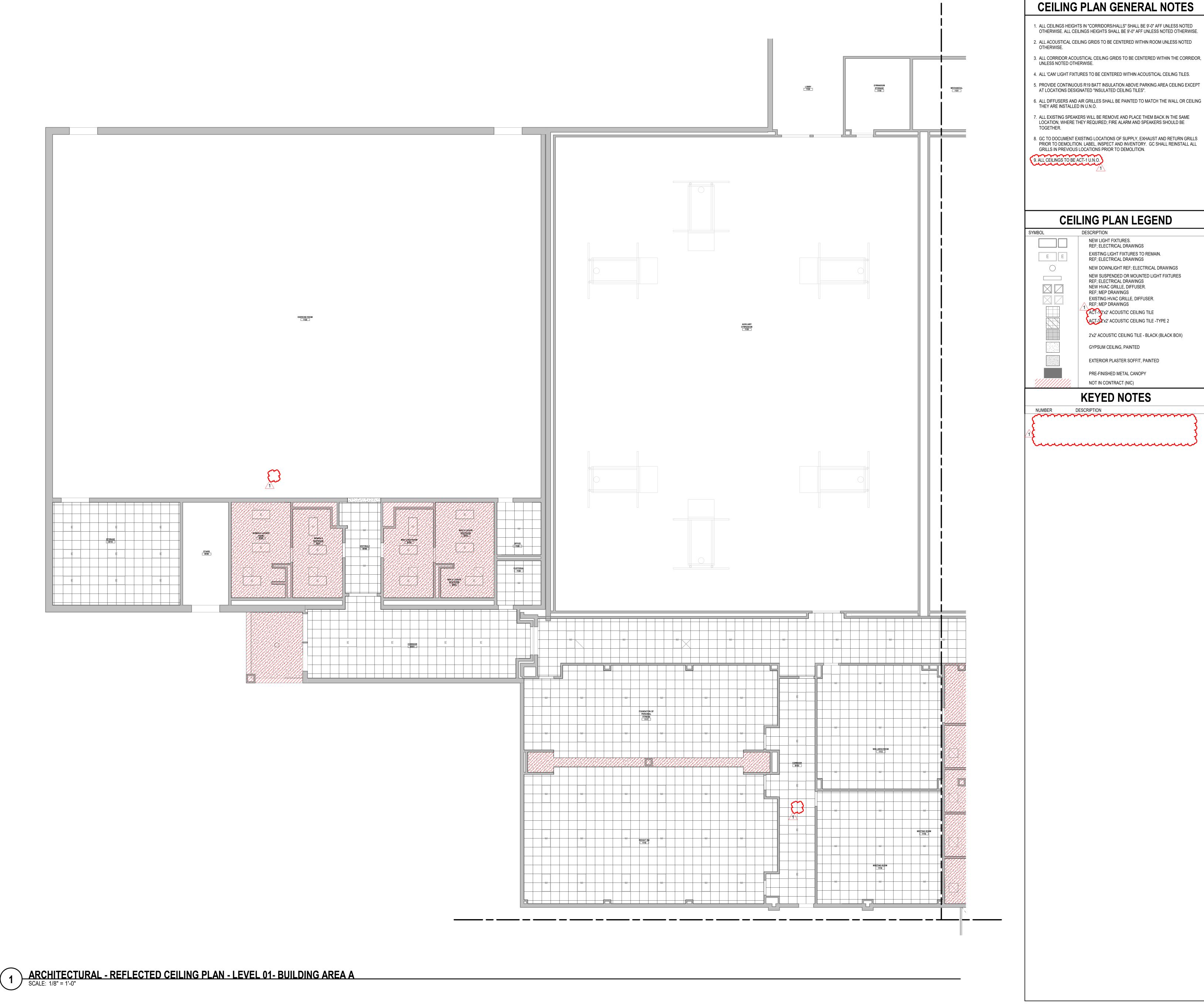
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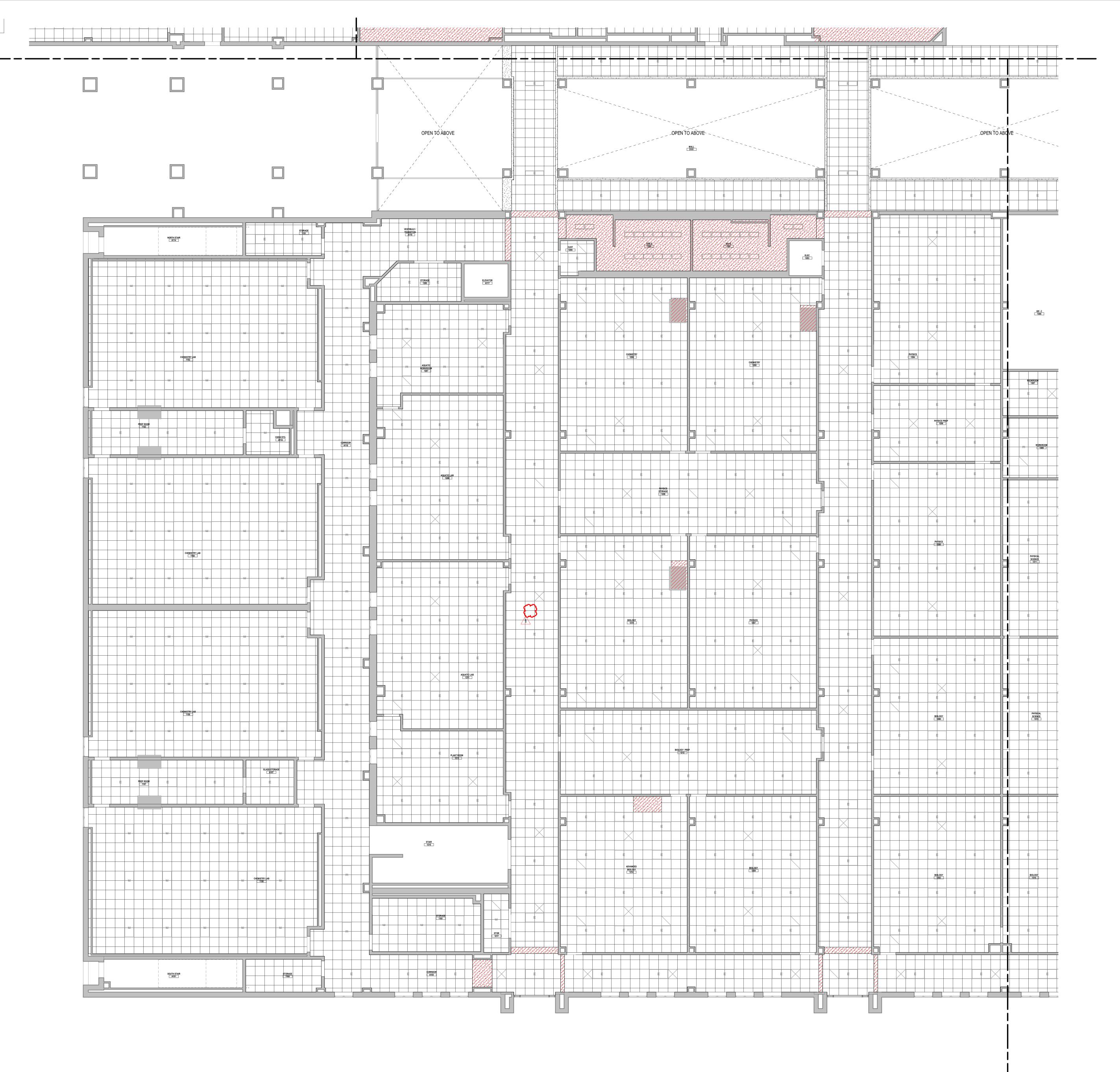
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	NOT IN CONTRACT (NIC)
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## **CEILING PLAN GENERAL NOTES**

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- 4. ALL 'CAN' LIGHT FIXTURES TO BE CENTERED WITHIN ACOUSTICAL CEILING TILES.
- 5. PROVIDE CONTINUOUS R19 BATT INSULATION ABOVE PARKING AREA CEILING EXCEPT AT LOCATIONS DESIGNATED "INSULATED CEILING TILES".
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## **CEILING PLAN LEGEND**

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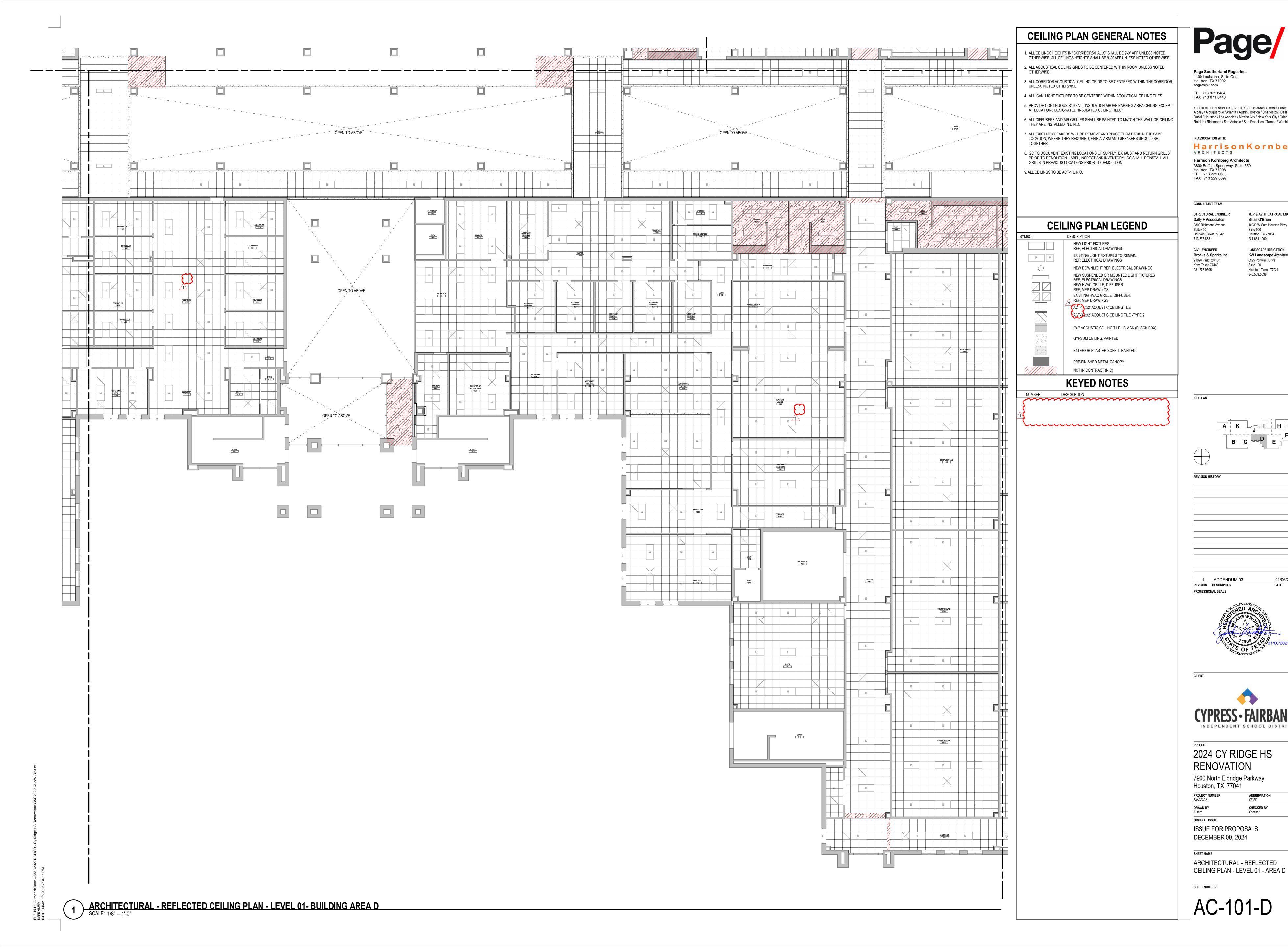
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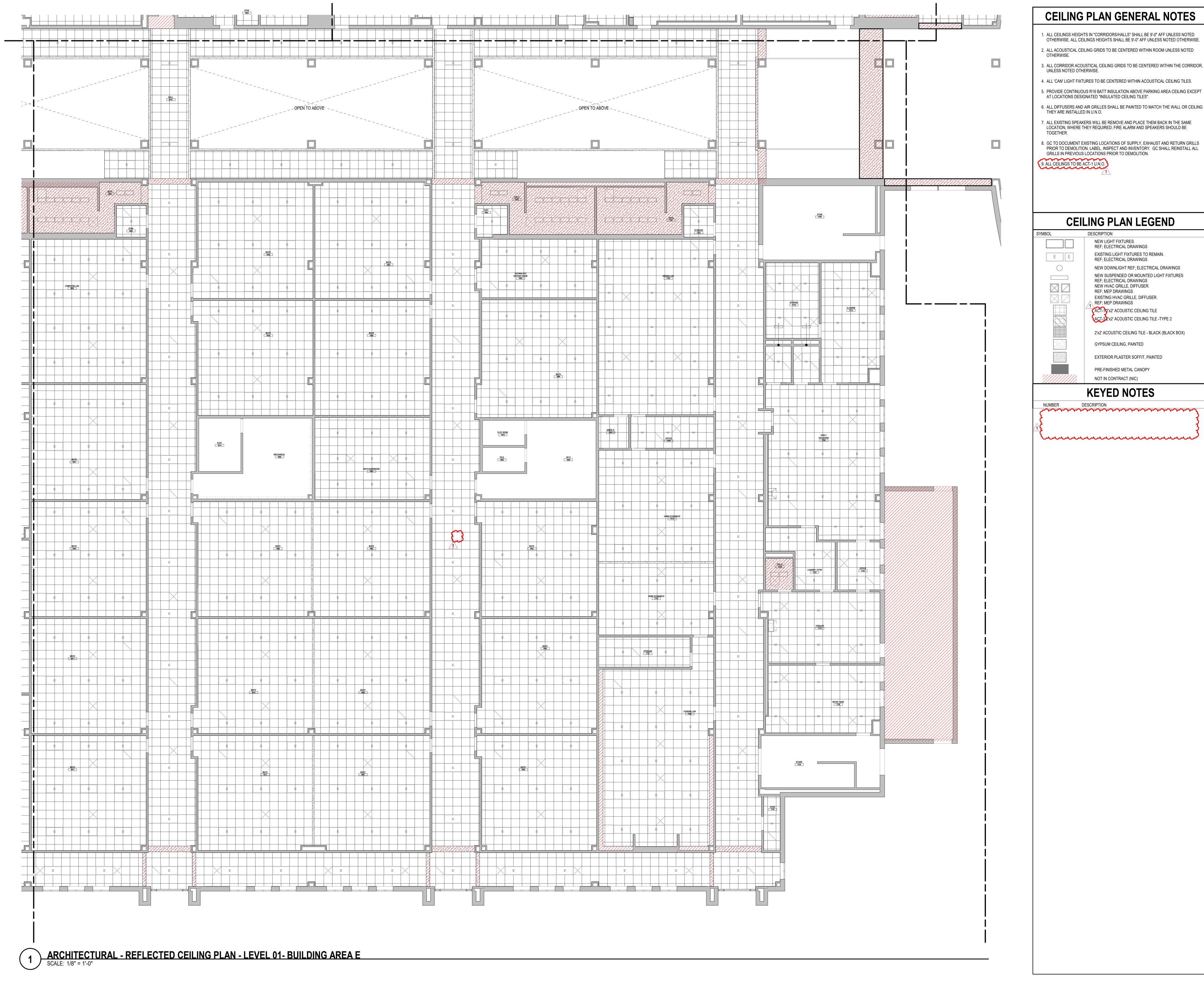
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#### **CEILING PLAN LEGEND** NEW LIGHT FIXTURES. REF; ELECTRICAL DRAWINGS EXISTING LIGHT FIXTURES TO REMAIN. REF; ELECTRICAL DRAWINGS NEW DOWNLIGHT REF; ELECTRICAL DRAWINGS NEW SUSPENDED OR MOUNTED LIGHT FIXTURES REF; ELECTRICAL DRAWINGS NEW HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS EXISTING HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS ACT-12'x2' ACOUSTIC CEILING TILE ACT-32'x2' ACOUSTIC CEILING TILE -TYPE 2 2'x2' ACOUSTIC CEILING TILE - BLACK (BLACK BOX) GYPSUM CEILING, PAINTED EXTERIOR PLASTER SOFFIT, PAINTED PRE-FINISHED METAL CANOPY NOT IN CONTRACT (NIC) **KEYED NOTES**



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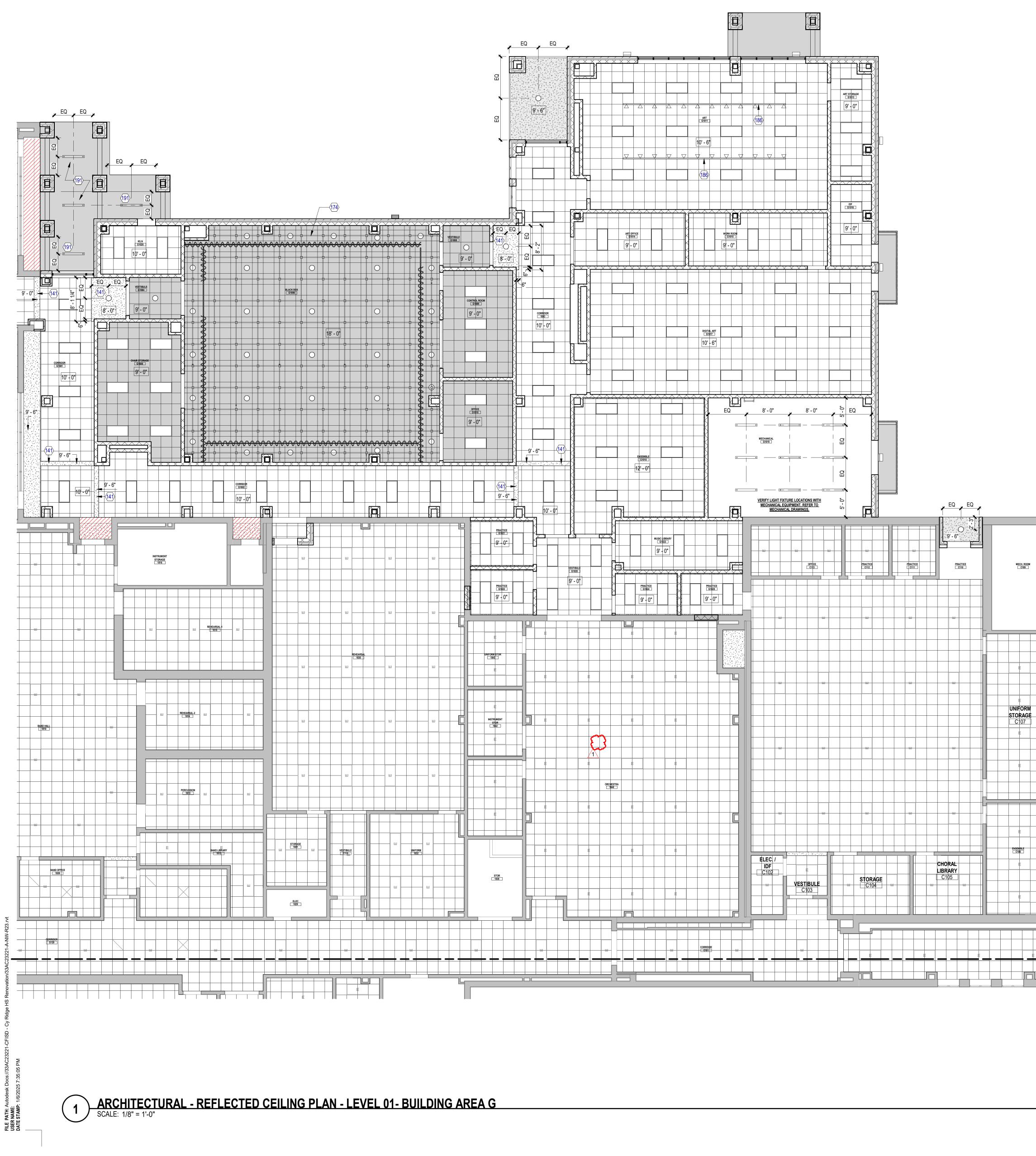
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**CEILING PLAN GENERAL NOTES** 

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#### **CEILING PLAN GENERAL NOTES** I. ALL CEILINGS HEIGHTS IN "CORRIDORS/HALLS" SHALL BE 9'-0" AFF UNLESS NOTED OTHERWISE. ALL CEILINGS HEIGHTS SHALL BE 9'-0" AFF UNLESS NOTED OTHERWISE. 2. ALL ACOUSTICAL CEILING GRIDS TO BE CENTERED WITHIN ROOM UNLESS NOTED OTHERWISE. 3. ALL CORRIDOR ACOUSTICAL CEILING GRIDS TO BE CENTERED WITHIN THE CORRIDOR, UNLESS NOTED OTHERWISE. 4. ALL 'CAN' LIGHT FIXTURES TO BE CENTERED WITHIN ACOUSTICAL CEILING TILES. 5. PROVIDE CONTINUOUS R19 BATT INSULATION ABOVE PARKING AREA CEILING EXCEPT AT LOCATIONS DESIGNATED "INSULATED CEILING TILES". 6. ALL DIFFUSERS AND AIR GRILLES SHALL BE PAINTED TO MATCH THE WALL OR CEILING THEY ARE INSTALLED IN U.N.O. 7. ALL EXISTING SPEAKERS WILL BE REMOVE AND PLACE THEM BACK IN THE SAME LOCATION, WHERE THEY REQUIRED; FIRE ALARM AND SPEAKERS SHOULD BE TOGETHER. 8. GC TO DOCUMENT EXISTING LOCATIONS OF SUPPLY, EXHAUST AND RETURN GRILLS PRIOR TO DEMOLITION. LABEL, INSPECT AND INVENTORY. GC SHALL REINSTALL ALL GRILLS IN PREVIOUS LOCATIONS PRIOR TO DEMOLITION. 9. ALL CEILINGS TO BE ACT-1 U.N.O. **CEILING PLAN LEGEND** SYMBOL DESCRIPTION NEW LIGHT FIXTURES. REF; ELECTRICAL DRAWINGS EE EXISTING LIGHT FIXTURES TO REMAIN. REF; ELECTRICAL DRAWINGS $\bigcirc$ NEW DOWNLIGHT REF; ELECTRICAL DRAWINGS NEW SUSPENDED OR MOUNTED LIGHT FIXTURES REF; ELECTRICAL DRAWINGS NEW HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS EXISTING HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS (ACT-12'x2' ACOUSTIC CEILING TILE ACT-32'x2' ACOUSTIC CEILING TILE -TYPE 2 2'x2' ACOUSTIC CEILING TILE - BLACK (BLACK BOX) GYPSUM CEILING, PAINTED - - - > < EXTERIOR PLASTER SOFFIT, PAINTED PRE-FINISHED METAL CANOPY NOT IN CONTRACT (NIC) **KEYED NOTES** NUMBER DESCRIPTION NEW GYPSUM BOARD FURR DOWN. REF; DETAIL 01 / 141 191 A-531 CANOPY MOUNTED LIGHTING. CONDUIT FOR LIGHTING SHALL NOT PENETRATE CANOPY. PAINT CONDUIT TO MATCH CANOPY COLOR.



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2024 CY RIDGE HS

RENOVATION

Houston, TX 77041

PROJECT NUMBER

33AC23221

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ORIGINAL ISSUE

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Author

7900 North Eldridge Parkway

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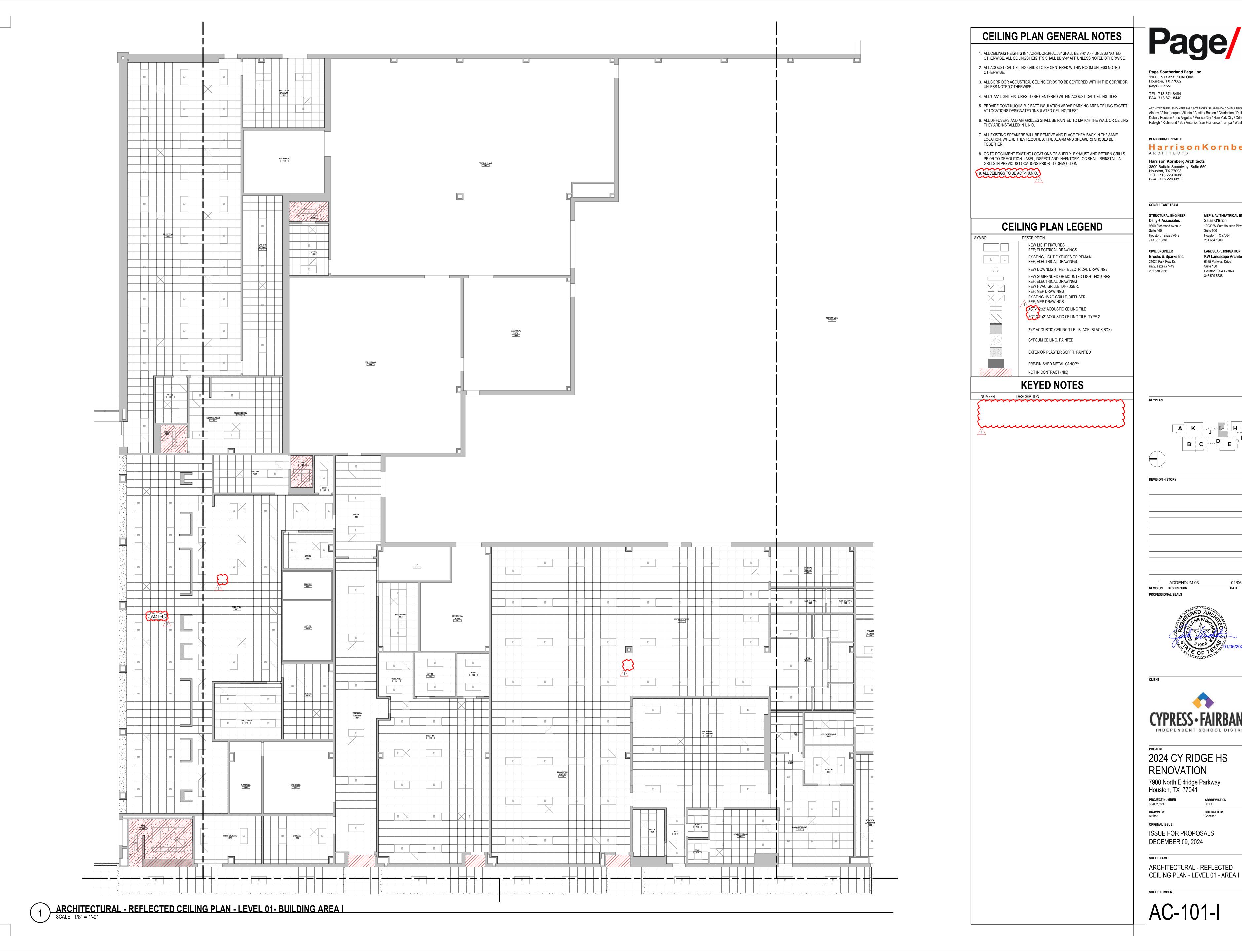
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CEILING PLAN - LEVEL 01 - AREA H

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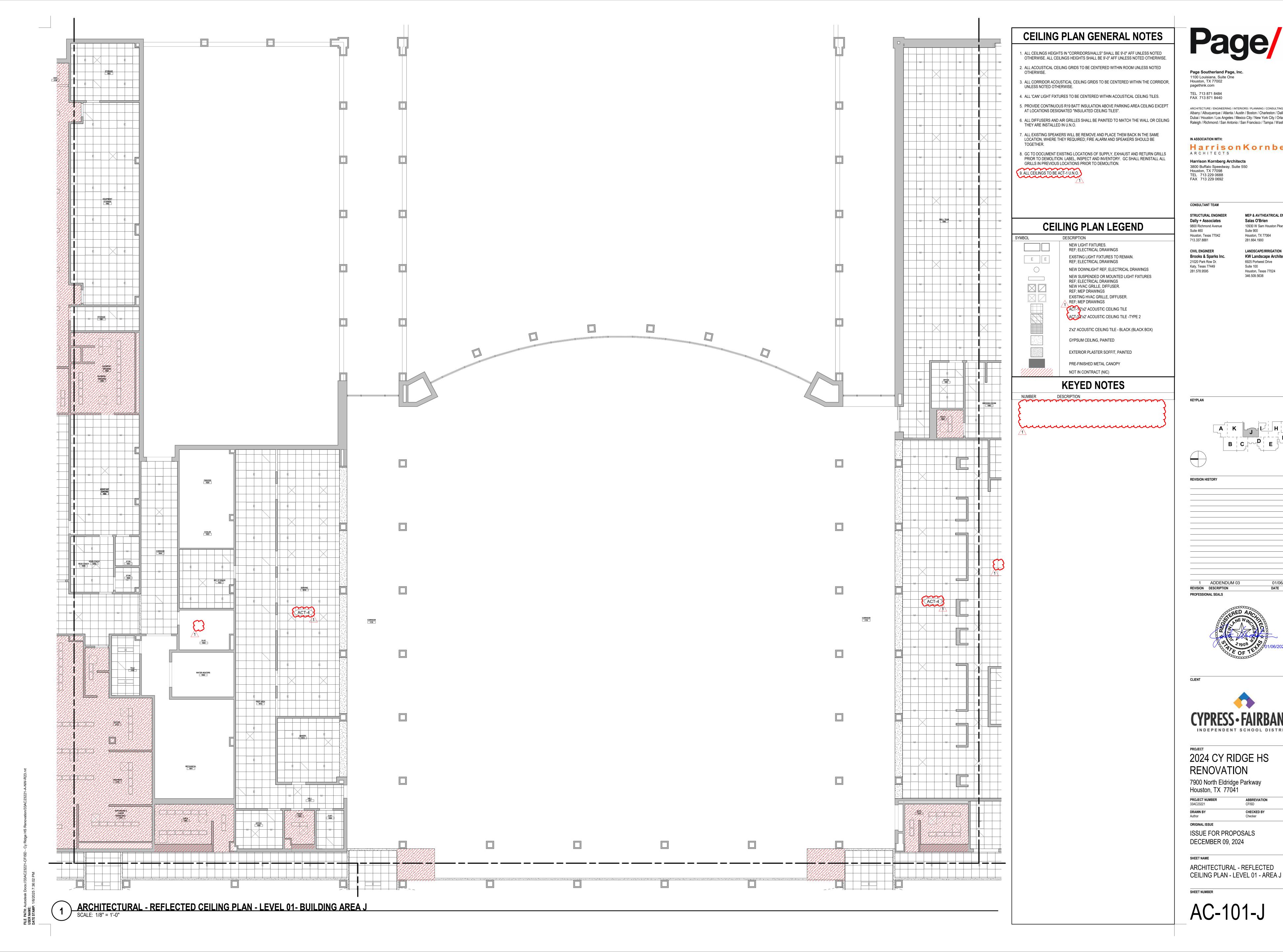


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CEILING PLAN - LEVEL 01 - AREA K

DECEMBER 09, 2024

Houston, TX 77041

PROJECT NUMBER

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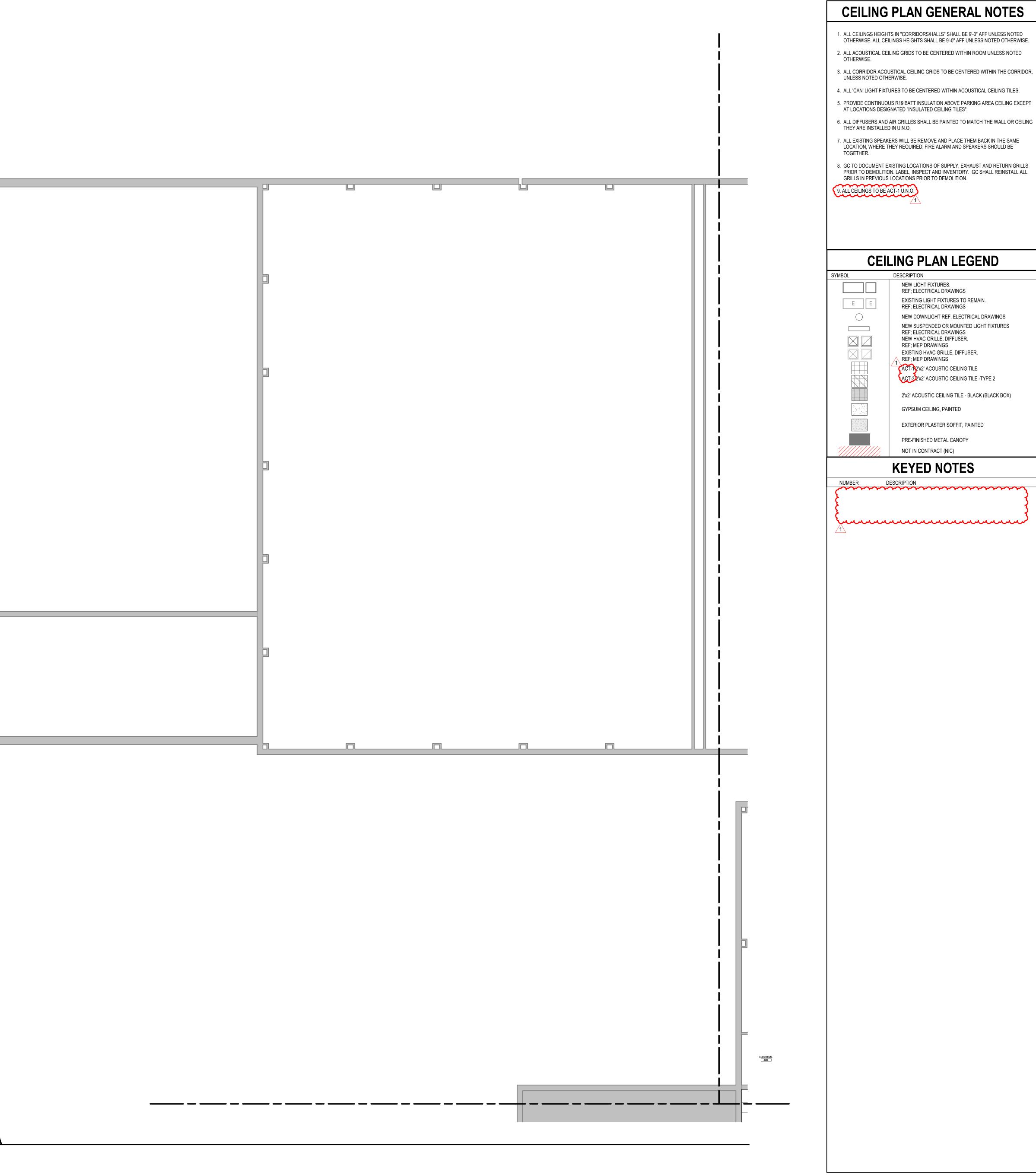
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PROJECT 2024 CY RIDGE HS RENOVATION

SECOND FLOOR MECHANICAL ROOM	SECOND FLOOR ELECTRICAL / IDF	



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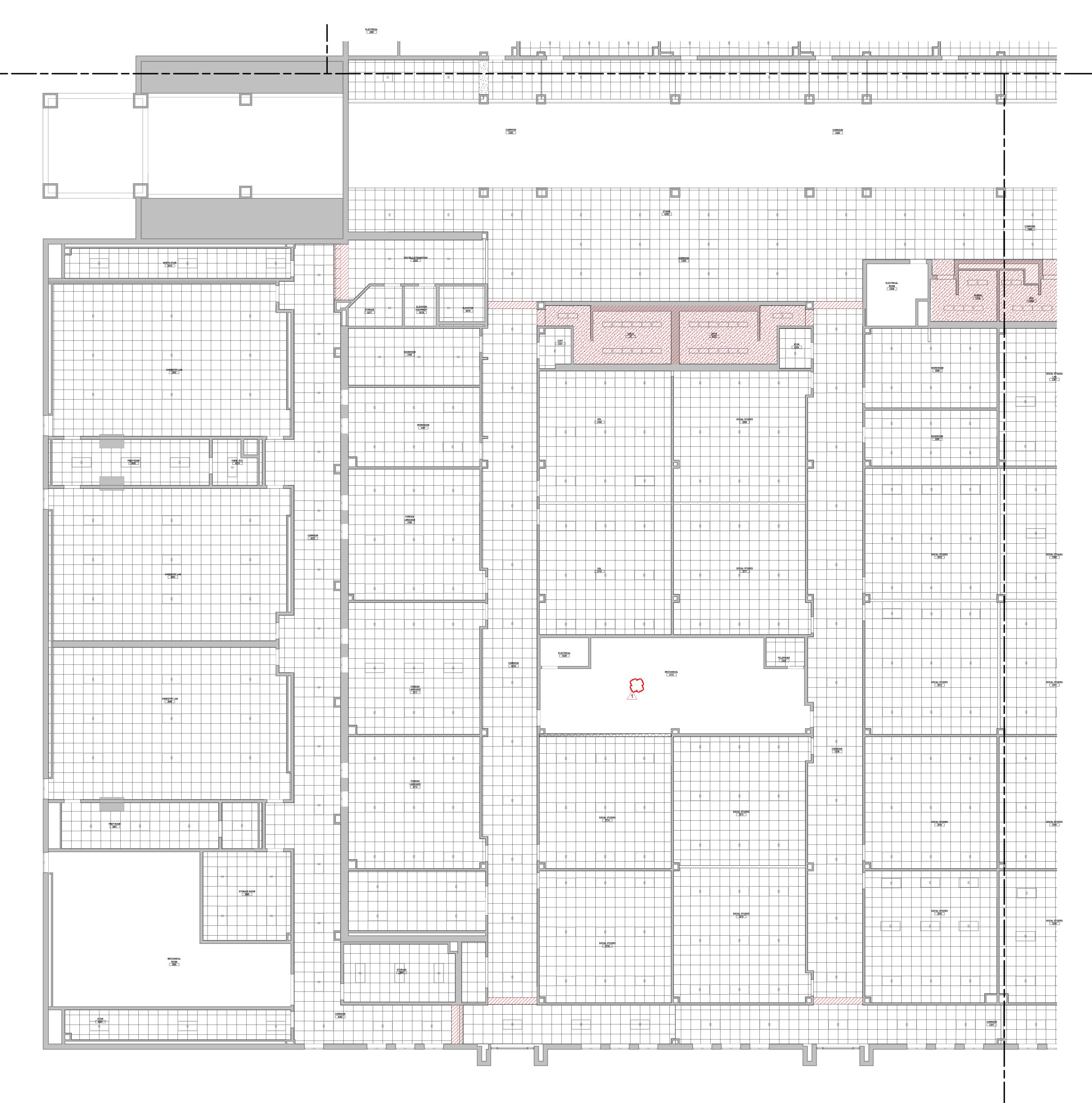
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ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 02 - AREA A

AC-102-A





OTHERWISE.	
3. ALL CORRIDOR ACO UNLESS NOTED OTH	USTICAL CEILING GRIDS TO BE CENTERED WITHIN THE CORRIDOR, IERWISE.
4. ALL 'CAN' LIGHT FIXT	URES TO BE CENTERED WITHIN ACOUSTICAL CEILING TILES.
	US R19 BATT INSULATION ABOVE PARKING AREA CEILING EXCEPT GNATED "INSULATED CEILING TILES".
6. ALL DIFFUSERS AND THEY ARE INSTALLE	AIR GRILLES SHALL BE PAINTED TO MATCH THE WALL OR CEILING D IN U.N.O.
	XERS WILL BE REMOVE AND PLACE THEM BACK IN THE SAME THEY REQUIRED; FIRE ALARM AND SPEAKERS SHOULD BE
PRIOR TO DEMOLITI	EXISTING LOCATIONS OF SUPPLY, EXHAUST AND RETURN GRILLS DN. LABEL, INSPECT AND INVENTORY. GC SHALL REINSTALL ALL & LOCATIONS PRIOR TO DEMOLITION.
······	
CEI	LING PLAN LEGEND
SYMBOL	DESCRIPTION
	NEW LIGHT FIXTURES. REF; ELECTRICAL DRAWINGS
E	EXISTING LIGHT FIXTURES TO REMAIN. REF; ELECTRICAL DRAWINGS
$\bigcirc$	NEW DOWNLIGHT REF; ELECTRICAL DRAWINGS
	NEW SUSPENDED OR MOUNTED LIGHT FIXTURES REF; ELECTRICAL DRAWINGS
$\square$	NEW HVAC GRILLE, DIFFUSER.
	REF; MEP DRAWINGS EXISTING HVAC GRILLE, DIFFUSER.
	EXISTING HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS
	EXISTING HVAC GRILLE, DIFFUSER.
	EXISTING HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS ACT-12'x2' ACOUSTIC CEILING TILE
	EXISTING HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS ACT-12'x2' ACOUSTIC CEILING TILE ACT-32'x2' ACOUSTIC CEILING TILE -TYPE 2
	EXISTING HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS ACT-12'x2' ACOUSTIC CEILING TILE ACT-32'x2' ACOUSTIC CEILING TILE -TYPE 2 2'x2' ACOUSTIC CEILING TILE - BLACK (BLACK BOX)
	EXISTING HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS ACT-12'x2' ACOUSTIC CEILING TILE ACT-32'x2' ACOUSTIC CEILING TILE -TYPE 2 2'x2' ACOUSTIC CEILING TILE - BLACK (BLACK BOX) GYPSUM CEILING, PAINTED
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	EXISTING HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS ACT-12'x2' ACOUSTIC CEILING TILE ACT-32'x2' ACOUSTIC CEILING TILE - TYPE 2 2'x2' ACOUSTIC CEILING TILE - BLACK (BLACK BOX) GYPSUM CEILING, PAINTED EXTERIOR PLASTER SOFFIT, PAINTED PRE-FINISHED METAL CANOPY
NUMBER	EXISTING HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS ACT-12'x2' ACOUSTIC CEILING TILE ACT-32'x2' ACOUSTIC CEILING TILE - TYPE 2 2'x2' ACOUSTIC CEILING TILE - BLACK (BLACK BOX) GYPSUM CEILING, PAINTED EXTERIOR PLASTER SOFFIT, PAINTED PRE-FINISHED METAL CANOPY NOT IN CONTRACT (NIC)

**CEILING PLAN GENERAL NOTES** 

I. ALL CEILINGS HEIGHTS IN "CORRIDORS/HALLS" SHALL BE 9'-0" AFF UNLESS NOTED

OTHERWISE. ALL CEILINGS HEIGHTS SHALL BE 9'-0" AFF UNLESS NOTED OTHERWISE.



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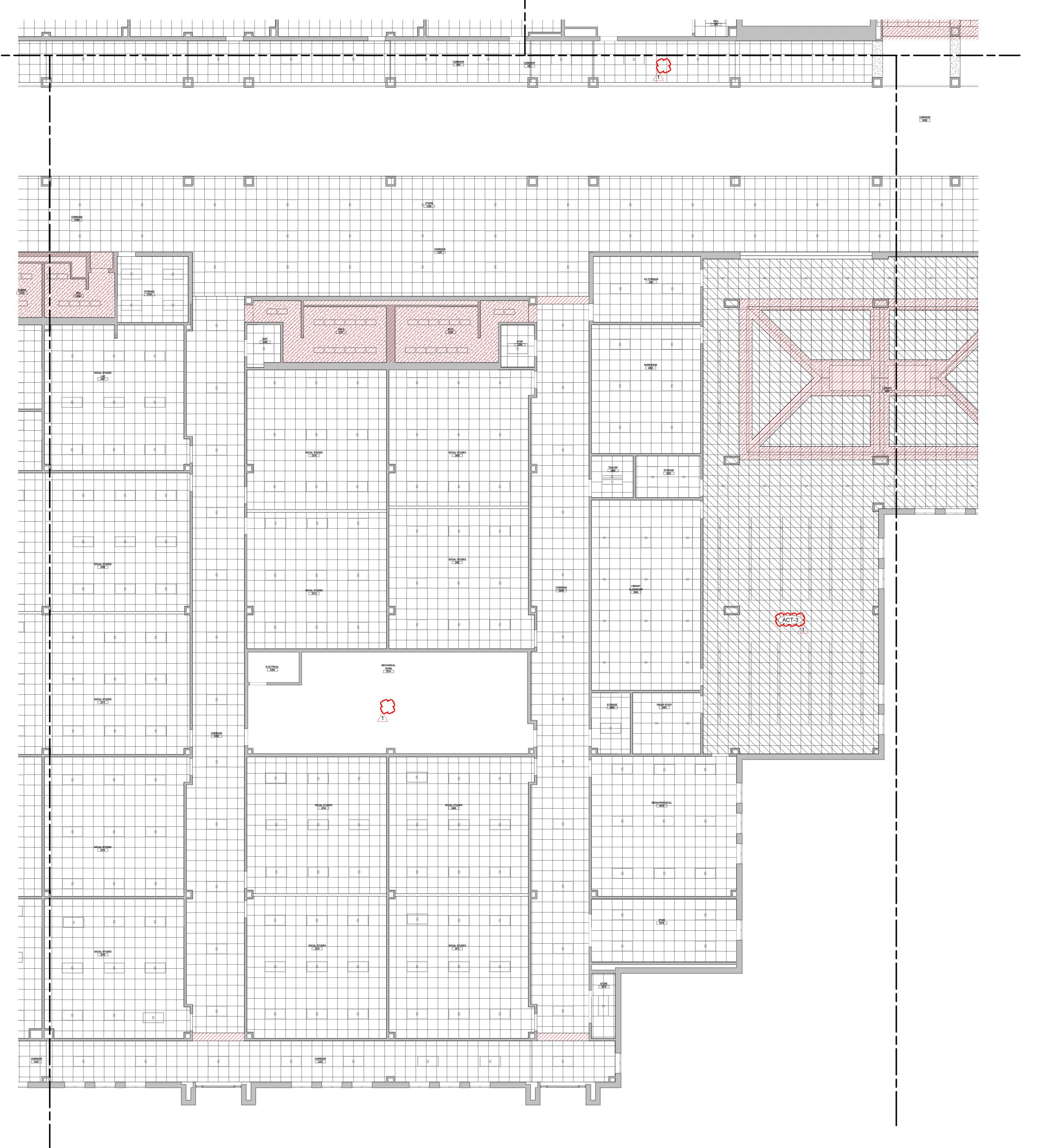
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AC-102-B

DECEMBER 09, 2024

Author



## **CEILING PLAN GENERAL NOTES**

- 1. ALL CEILINGS HEIGHTS IN "CORRIDORS/HALLS" SHALL BE 9'-0" AFF UNLESS NOTED OTHERWISE. ALL CEILINGS HEIGHTS SHALL BE 9'-0" AFF UNLESS NOTED OTHERWISE.
- 2. ALL ACOUSTICAL CEILING GRIDS TO BE CENTERED WITHIN ROOM UNLESS NOTED OTHERWISE.
- 3. ALL CORRIDOR ACOUSTICAL CEILING GRIDS TO BE CENTERED WITHIN THE CORRIDOR, UNLESS NOTED OTHERWISE.
- 4. ALL 'CAN' LIGHT FIXTURES TO BE CENTERED WITHIN ACOUSTICAL CEILING TILES.
- 5. PROVIDE CONTINUOUS R19 BATT INSULATION ABOVE PARKING AREA CEILING EXCEPT AT LOCATIONS DESIGNATED "INSULATED CEILING TILES".
- 6. ALL DIFFUSERS AND AIR GRILLES SHALL BE PAINTED TO MATCH THE WALL OR CEILING THEY ARE INSTALLED IN U.N.O.
- 7. ALL EXISTING SPEAKERS WILL BE REMOVE AND PLACE THEM BACK IN THE SAME LOCATION, WHERE THEY REQUIRED; FIRE ALARM AND SPEAKERS SHOULD BE
- TOGETHER. 8. GC TO DOCUMENT EXISTING LOCATIONS OF SUPPLY, EXHAUST AND RETURN GRILLS PRIOR TO DEMOLITION. LABEL, INSPECT AND INVENTORY. GC SHALL REINSTALL ALL

#### GRILLS IN PREVIOUS LOCATIONS PRIOR TO DEMOLITION. 9. ALL CEILINGS TO BE ACT-1 U.N.O.

## **CEILING PLAN LEGEND**

SYMBOL	DESCRIPTION
	NEW LIGHT FIXTURES. REF; ELECTRICAL DRAWINGS
EE	EXISTING LIGHT FIXTURES TO REMAIN. REF; ELECTRICAL DRAWINGS
$\bigcirc$	NEW DOWNLIGHT REF; ELECTRICAL DRAWINGS
	NEW SUSPENDED OR MOUNTED LIGHT FIXTURES REF; ELECTRICAL DRAWINGS NEW HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS EXISTING HVAC GRILLE, DIFFUSER.
	REF; MEP DRAWINGS ACT-12'x2' ACOUSTIC CEILING TILE
	ACT-32'x2' ACOUSTIC CEILING TILE -TYPE 2
	2'x2' ACOUSTIC CEILING TILE - BLACK (BLACK BOX)
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	EXTERIOR PLASTER SOFFIT, PAINTED
	PRE-FINISHED METAL CANOPY
	NOT IN CONTRACT (NIC)
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## 2024 CY RIDGE HS RENOVATION

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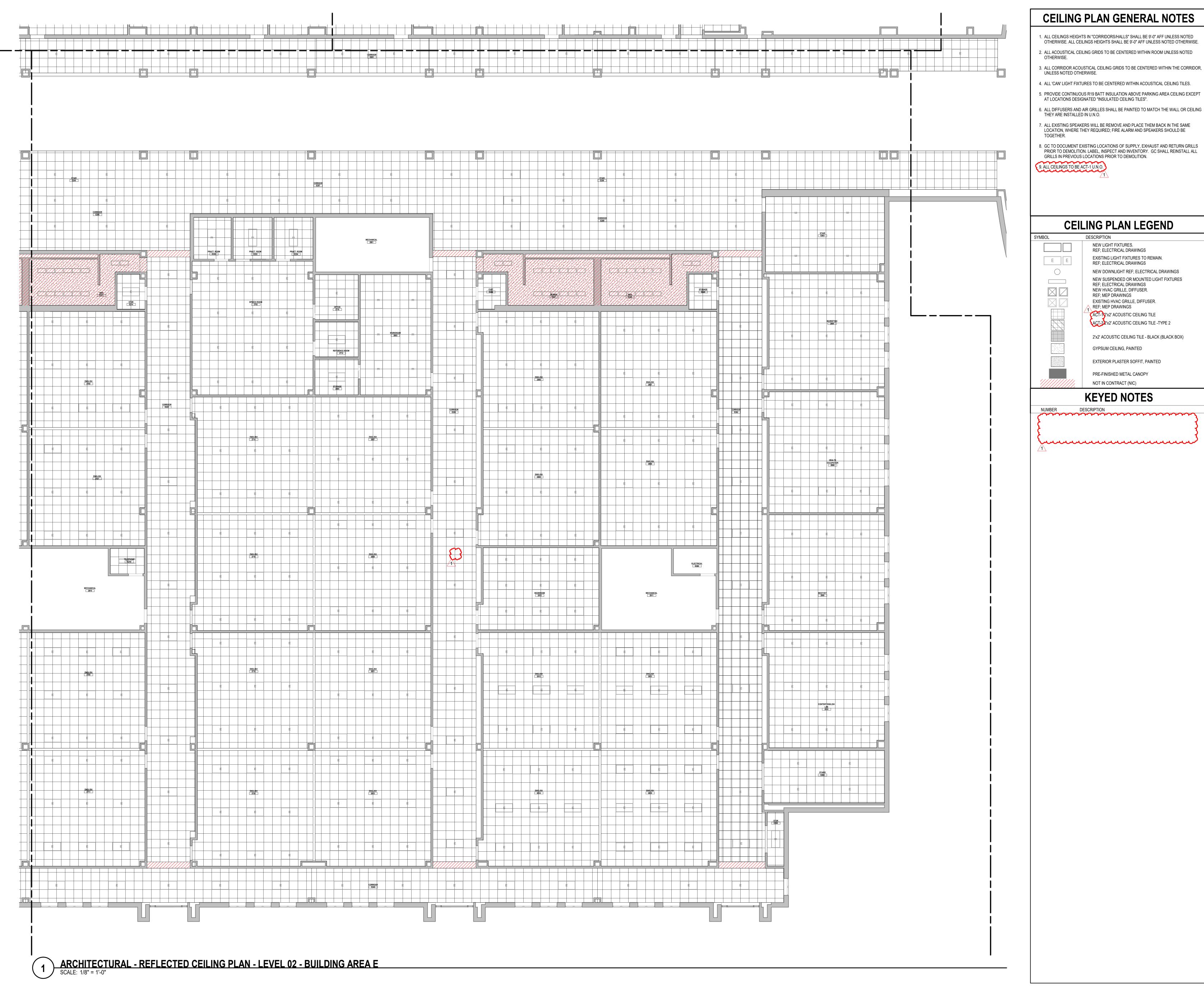
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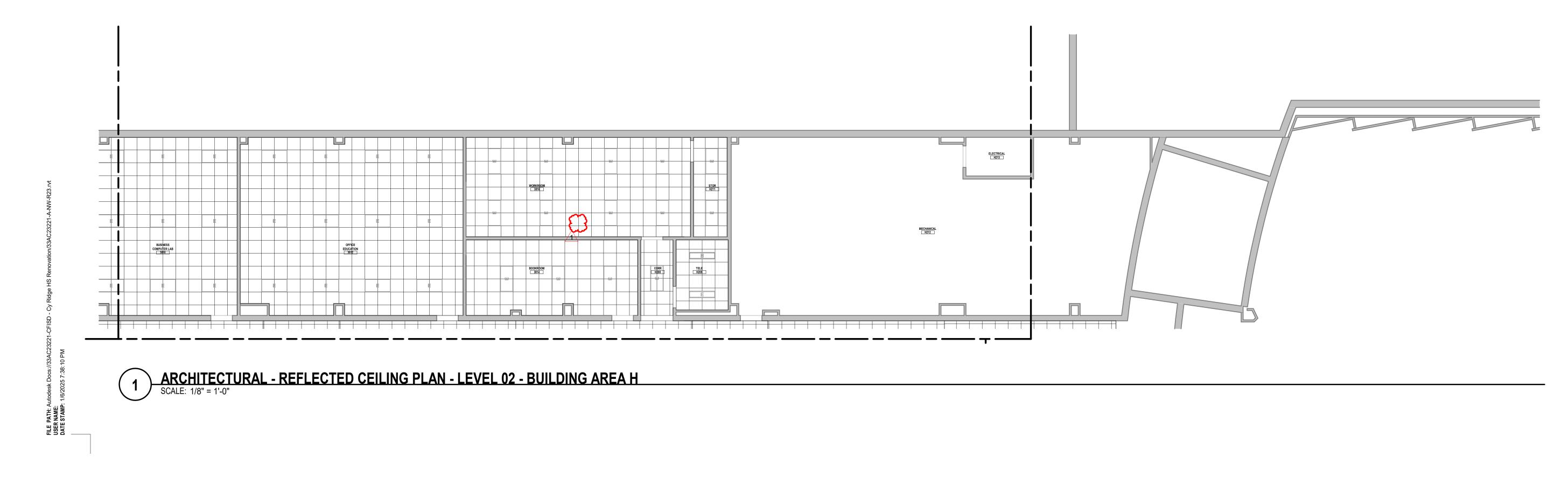
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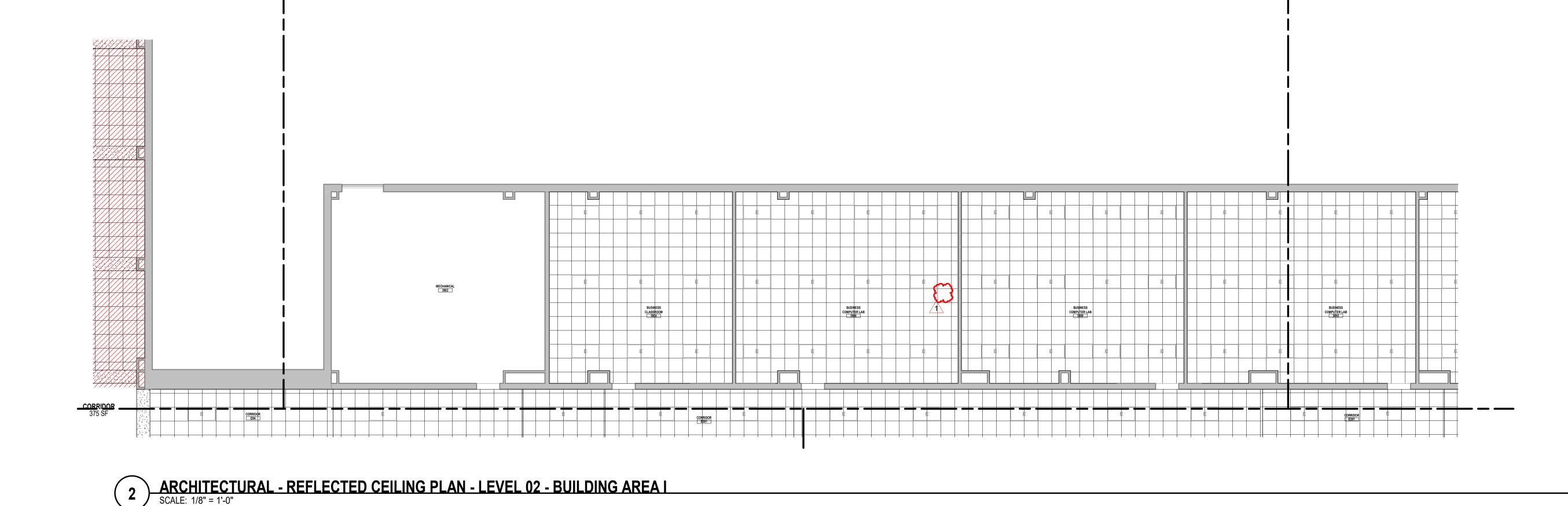
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## **CEILING PLAN GENERAL NOTES** 1. ALL CEILINGS HEIGHTS IN "CORRIDORS/HALLS" SHALL BE 9'-0" AFF UNLESS NOTED OTHERWISE. ALL CEILINGS HEIGHTS SHALL BE 9'-0" AFF UNLESS NOTED OTHERWISE. 2. ALL ACOUSTICAL CEILING GRIDS TO BE CENTERED WITHIN ROOM UNLESS NOTED OTHERWISE. 3. ALL CORRIDOR ACOUSTICAL CEILING GRIDS TO BE CENTERED WITHIN THE CORRIDOR, UNLESS NOTED OTHERWISE. 4. ALL 'CAN' LIGHT FIXTURES TO BE CENTERED WITHIN ACOUSTICAL CEILING TILES. 5. PROVIDE CONTINUOUS R19 BATT INSULATION ABOVE PARKING AREA CEILING EXCEPT AT LOCATIONS DESIGNATED "INSULATED CEILING TILES". 6. ALL DIFFUSERS AND AIR GRILLES SHALL BE PAINTED TO MATCH THE WALL OR CEILING THEY ARE INSTALLED IN U.N.O. 7. ALL EXISTING SPEAKERS WILL BE REMOVE AND PLACE THEM BACK IN THE SAME LOCATION, WHERE THEY REQUIRED; FIRE ALARM AND SPEAKERS SHOULD BE TOGETHER. 8. GC TO DOCUMENT EXISTING LOCATIONS OF SUPPLY, EXHAUST AND RETURN GRILLS PRIOR TO DEMOLITION. LABEL, INSPECT AND INVENTORY. GC SHALL REINSTALL ALL GRILLS IN PREVIOUS LOCATIONS PRIOR TO DEMOLITION. 9. ALL CEILINGS TO BE ACT-1 U.N.O. **CEILING PLAN LEGEND** SYMBOL DESCRIPTION NEW LIGHT FIXTURES. REF; ELECTRICAL DRAWINGS EE EXISTING LIGHT FIXTURES TO REMAIN. REF; ELECTRICAL DRAWINGS $\bigcirc$ NEW DOWNLIGHT REF; ELECTRICAL DRAWINGS NEW SUSPENDED OR MOUNTED LIGHT FIXTURES REF; ELECTRICAL DRAWINGS NEW HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS EXISTING HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS ACT-12'x2' ACOUSTIC CEILING TILE ACT-32'x2' ACOUSTIC CEILING TILE -TYPE 2 2'x2' ACOUSTIC CEILING TILE - BLACK (BLACK BOX) GYPSUM CEILING, PAINTED - - - > < -EXTERIOR PLASTER SOFFIT, PAINTED PRE-FINISHED METAL CANOPY NOT IN CONTRACT (NIC) **KEYED NOTES** NUMBER DESCRIPTION hunnunnun



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PROJECT

2024 CY RIDGE HS

ABBREVIATIO

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RENOVATION

Houston, TX 77041

PROJECT NUMBER

ORIGINAL ISSUE

SHEET NAME

SHEET NUMBER

33AC23221

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Author

7900 North Eldridge Parkway

ISSUE FOR PROPOSALS

ARCHITECTURAL - REFLECTED

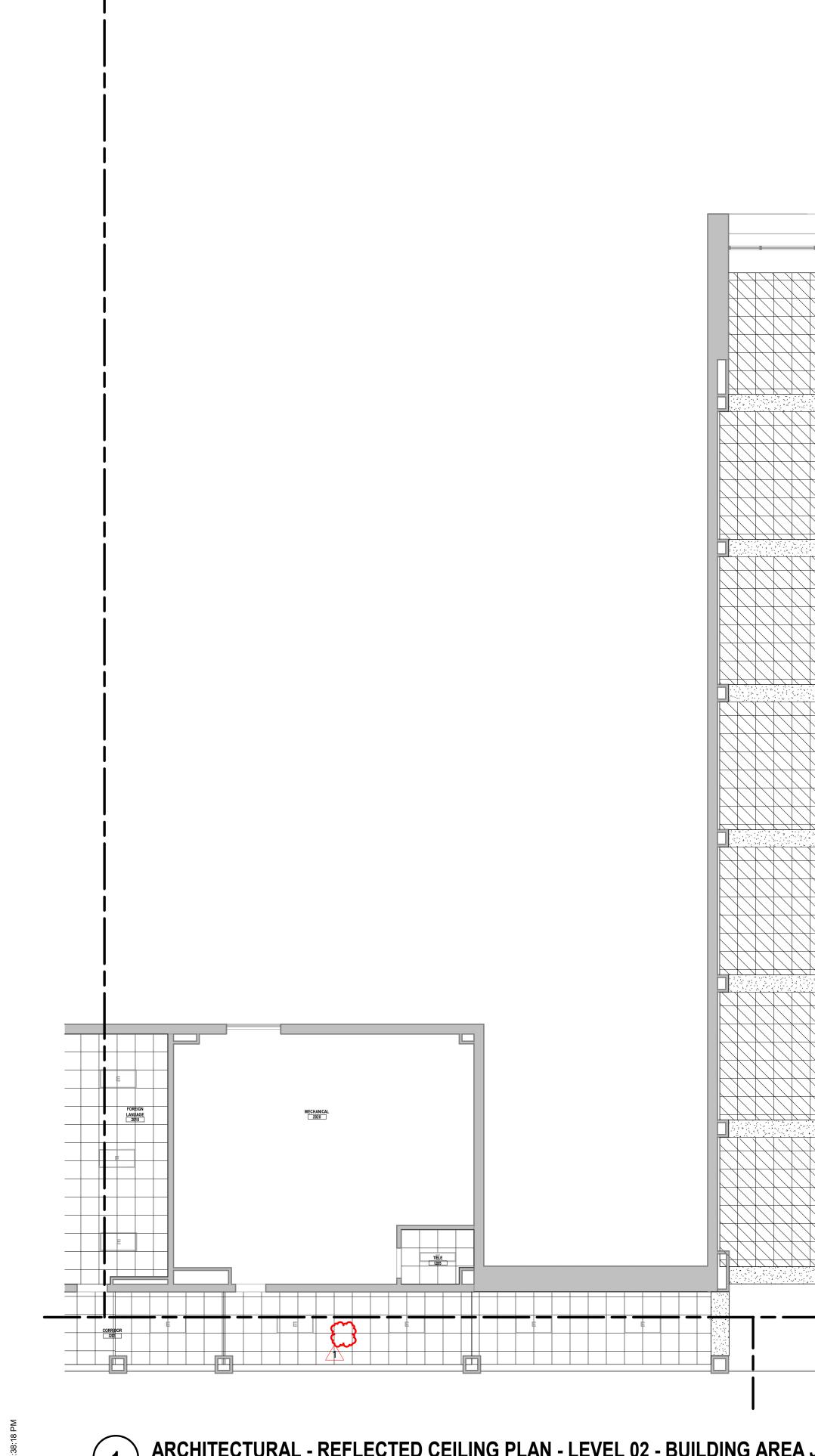
CEILING PLAN - LEVEL 02 - AREA H, I & J

AC-102-H &

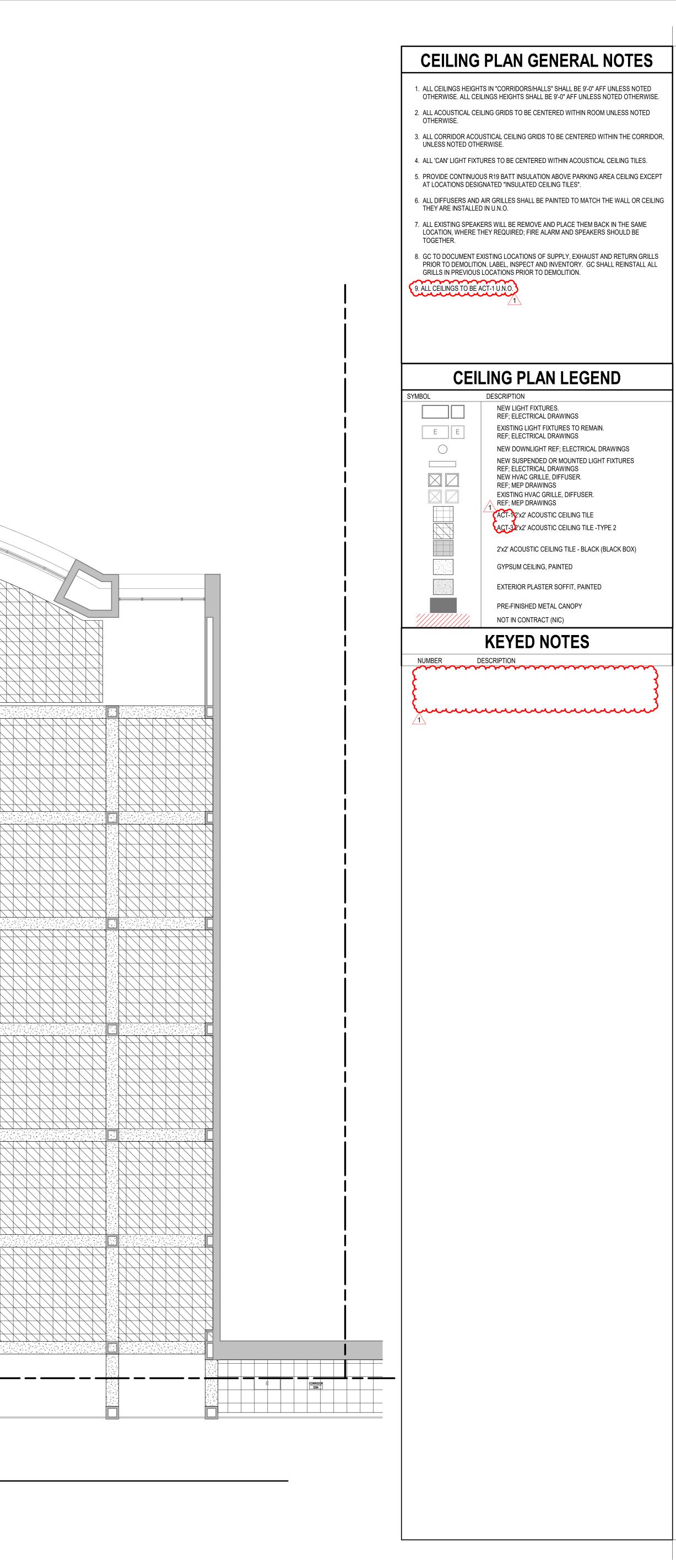
DECEMBER 09, 2024



### ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 02 - BUILDING AREA J SCALE: 1/8" = 1'-0" 1



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KEYPLAN **REVISION HISTORY** 1 ADDENDUM 03 01/06/2025 REVISION DESCRIPTION DATE PROFESSIONAL SEALS CLIENT **CYPRESS • FAIRBANKS** INDEPENDENT SCHOOL DISTRICT PROJECT

## 2024 CY RIDGE HS RENOVATION

7900 North Eldridge Parkway Houston, TX 77041

PROJECT NUMBER ABBREVIATION CFISD 33AC23221

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ORIGINAL ISSUE

ISSUE FOR PROPOSALS

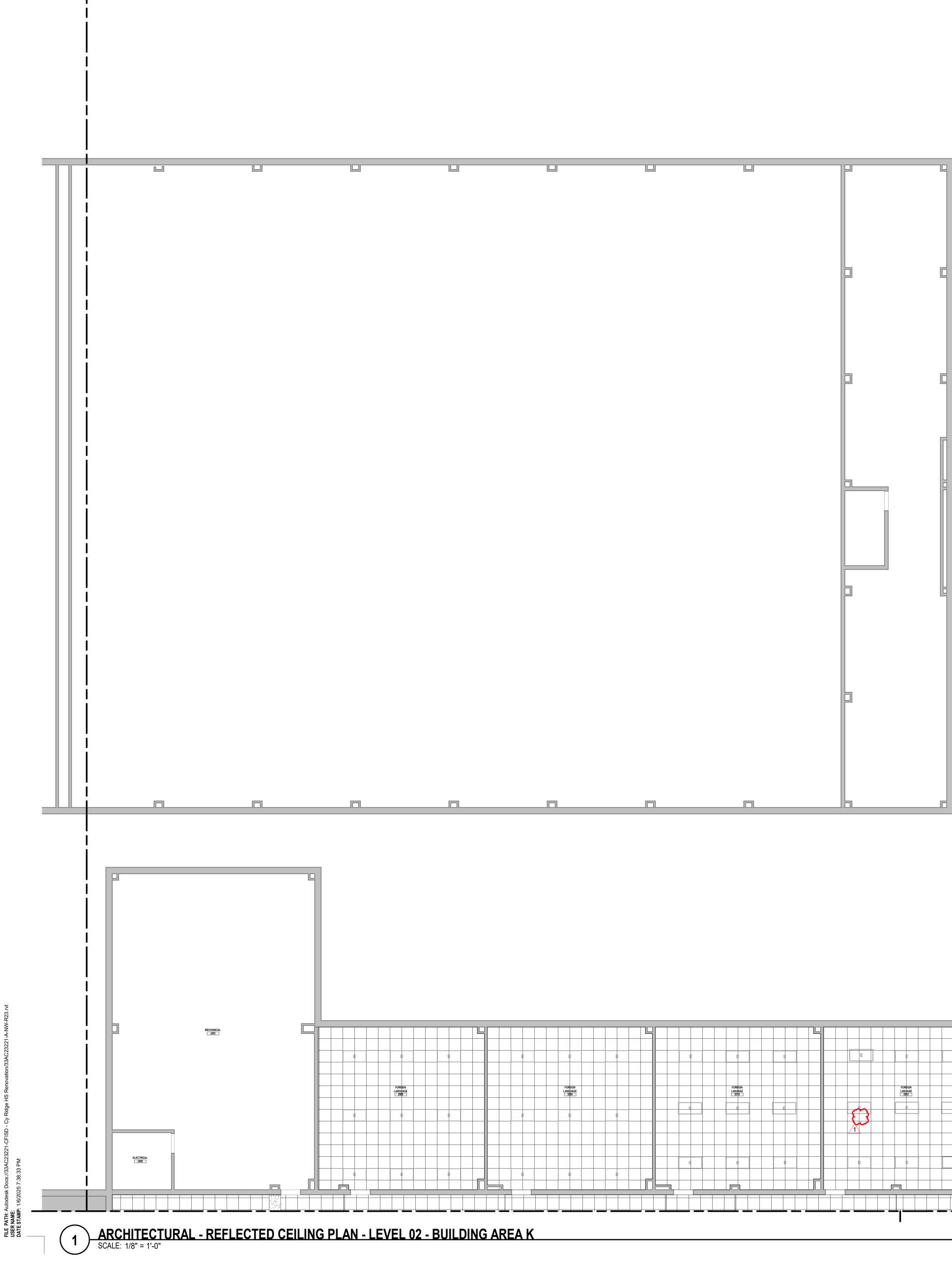
DECEMBER 09, 2024

SHEET NAME

ARCHITECTURAL - REFLECTED

CEILING PLAN - LEVEL 02 - AREA J

AC-102-J



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	CEILING PLAN GENERAL NOTES
	1. ALL CEILINGS HEIGHTS IN "CORRIDORS/HALLS" SHALL BE 9'-0" AFF UNLESS NOTED OTHERWISE. ALL CEILINGS HEIGHTS SHALL BE 9'-0" AFF UNLESS NOTED OTHERWISE.
	<ol> <li>ALL ACOUSTICAL CEILING GRIDS TO BE CENTERED WITHIN ROOM UNLESS NOTED OTHERWISE.</li> <li>ALL CORRIDOR ACOUSTICAL CEILING GRIDS TO BE CENTERED WITHIN THE CORRIDOR, UNIT FOR NOTED OT USE WHAT</li> </ol>
	UNLESS NOTED OTHERWISE. 4. ALL 'CAN' LIGHT FIXTURES TO BE CENTERED WITHIN ACOUSTICAL CEILING TILES. 5. DROVIDE CONTINUOUS B10 BATT INCLUATION ABOVE DARKING AREA CEILING EXCEPT
	<ol> <li>5. PROVIDE CONTINUOUS R19 BATT INSULATION ABOVE PARKING AREA CEILING EXCEPT AT LOCATIONS DESIGNATED "INSULATED CEILING TILES".</li> <li>6. ALL DIFFUSERS AND AIR GRILLES SHALL BE PAINTED TO MATCH THE WALL OR CEILING TUEY ARE INSTALLED IN UNIO</li> </ol>
	<ul><li>THEY ARE INSTALLED IN U.N.O.</li><li>7. ALL EXISTING SPEAKERS WILL BE REMOVE AND PLACE THEM BACK IN THE SAME LOCATION, WHERE THEY REQUIRED; FIRE ALARM AND SPEAKERS SHOULD BE TO A STRUCT</li></ul>
	TOGETHER. 8. GC TO DOCUMENT EXISTING LOCATIONS OF SUPPLY, EXHAUST AND RETURN GRILLS PRIOR TO DEMOLITION. LABEL, INSPECT AND INVENTORY. GC SHALL REINSTALL ALL
	GRILLS IN PREVIOUS LOCATIONS PRIOR TO DEMOLITION. 9. ALL CEILINGS TO BE ACT-1 U.N.O.
	CEILING PLAN LEGEND
	NEW LIGHT FIXTURES.       REF; ELECTRICAL DRAWINGS       E     EXISTING LIGHT FIXTURES TO REMAIN.
	REF; ELECTRICAL DRAWINGS       NEW DOWNLIGHT REF; ELECTRICAL DRAWINGS       NEW SUSPENDED OR MOUNTED LIGHT FIXTURES
	REF; ELECTRICAL DRAWINGS         NEW HVAC GRILLE, DIFFUSER.         REF; MEP DRAWINGS
	EXISTING HVAC GRILLE, DIFFUSER. REF; MEP DRAWINGS
	ACT-32'x2' ACOUSTIC CEILING TILE -TYPE 2
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	KEYED NOTES       NUMBER     DESCRIPTION
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ISSUE FOR PROPOSALS

ARCHITECTURAL - REFLECTED CEILING PLAN - LEVEL 02 - AREA K

AC-102-K

DECEMBER 09, 2024

						(			
			FAN						
MARK			EXT.STATIC	HORSE	CURR				
	SUPPLY AIR CFM	OUTSIDE AIR CFM	PRESSURE (IN. W.C.)	POWE	V	F			
FCU-H2	2,000	0	0.80	3.0	277	ŀ			
FCU-H3	2,000	0	0.80	3.0	277	ŀ			
FCU-H4	2,000	0	0.80	3.0	277				
Casing I Coordin 2. Maintain On Unit <u>Remarks</u> : 1. Velocit 2. Provide 3. Provide	AL STATIC P MUST BE AE NATE WITH I N MINIMUM ( FOR SERVIO Y NOT TO E HORIZONT CONSTAN	DED TO EXT ELECTRICIAN CLEARANCE CE, MAINTEN XCEED 500 F AL UNIT. F VOLUME UI	FOR COIL PU IANCE, AND IN PM ON COOL	IC PRESS	Sure TC Comme DN. Mai				
			NG DEVICE IN			۱P			

	ENTERING	LEAVING		AMBIENT		CL	JRRE	NT	
MARK	WATER TEMP.(°F)	WATER TEMP.(°F)	GPM	WET BULB TEMP. (°F)	FAN HP	V	Р	F	REMARKS
CT-1	96.0	86	1,950.0	80	50	480	3	60	(1,2,3,4)
CT-2	96.0	86	1,950.0	80	50	480	3	60	(1,2,3,4)
CT-3	96.0	86	1,950.0	80	50	480	3	60	(1,2,3,4)

3. MOTOR SHALL BE OUT OF WATER STREAM. . PROVIDE WITH LADDERS AND PLATFORMS.

PROVIDE 2-WAY COOLING CONTROL VALVES.

	COOLI	NG TOW	ER - COU	NTERF	LOW	- 2	CE	LL	
VG	ENTERING WATER TEMP.(°F)	LEAVING WATER TEMP.(°F)	GPM	AMBIENT WET BULB TEMP. (°F)	FAN HP	CL V	JRRE P	NT F	REMARKS
CT-1	96.0	86	2,925.0	80	75	480	3	60	(1,2,3,4)
CT-2	96.0	86	2,925.0	80	75	480	3	60	(1,2,3,4)
REMARKS									

	TH VARIABLE FI		RIVE.										Dl	JCT	LESS MI	NI-SPLI	T - INDO	OR UNIT				
	LL BE OUT OF V										FAN				AIR TEMPE	RATURE (°F)		COOLING		HEA	TING	
4. PROVIDE WI	TH LADDERS AN							MARK	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER (WATTS	CHA	RENT RAC. P F	ENTERING DRY BULB	ENTERING WET BULB	MIN. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER/ SEER2	ENTERING AIR TEMP.(°F)	MINIMUM CAPACITY (BTUH)	REMARKS
	Α	R COO	LED CC	DNDENSING L	JNIT			DMS-1	775	0	0.10	86.0	208	1 6	0 75.0	62.5	24,000	19,200	-/21	NO H	EATING	(1,2,3,4,5)
	MIN. TOTAL	OUTDOOR	MINIMUM	NOM. HEAT CURREN	T CHAR	RELATED		DMS-2	450	0	0.10	46.0	208	1 6	0 75.0	62.5	18,000	14,400	-/20	NO H	EATING	(1,2,3,4)
MARK	CAPACITY	AIR	EER/	CAPACITY 1		UNIT	REMARKS	DMS-3	450	0	0.10	46.0	208	1 6	0 75.0	62.5	18,000	14,400	-/20	NO H	EATING	(1,2,3,4)
	(BTUH)	TEMP (°F)	SEER2	(BTUH) V F	, +	MARK		DMS-4	450	0	0.10	46.0	208	1 6	0 75.0	62.5	18,000	14,400	-/20	NO H	EATING	(1,2,3,4,5)
DMSCU-1	24,000	95	-/21	NO HEATING 208 1	60	DMS-1	(1,2,3)	DMS-5	450	0	0.10	46.0	208	1 6	0 75.0	62.5	18,000	14,400	-/20	NO H	EATING	(1,2,3,4,5)
DMSCU-2	18,000	95	-/20	NO HEATING 208 1	60	DMS-2	(1,2,3)	DMS-6	450	0	0.10	46.0	208	1 6	0 75.0	62.5	18,000	14,400	-/20	NO HI	EATING	(1,2,3,4)
DMSCU-3	18,000	95	-/20	NO HEATING 208 1	60	DMS-3	(1,2,3)	DMS-7	450	0	0.10	46.0	208	1 6	0 75.0	62.5	18,000	14,400	-/20	NO H	EATING	(1,2,3,4,5)
DMSCU-4	18,000	95	-/20	NO HEATING 208 1	60	DMS-4	(1,2,3)	DMS-8	450	0	0.10	46.0	208	1 6	0 75.0	62.5	18,000	14,400	-/20	NO H	EATING	(1,2,3,4)
DMSCU-5	18,000	95	-/20	NO HEATING 208 1	60	DMS-5	(1,2,3)	DMS-9	450	0	0.10	46.0	208	1 6	0 75.0	62.5	18,000	14,400	-/20	NO H	EATING	(1,2,3,4,5)
DMSCU-6	18,000	95	-/20	NO HEATING 208 1	60	DMS-6	(1,2,3)	DMS-10	450	0	0.10	46.0	208	1 6	0 75.0	62.5	18,000	14,400	-/20		EATING	(1,2,3,4)
DMSCU-7	18,000	95	-/20	NO HEATING 208 1	60	DMS-7	(1,2,3)	DMS-11	450	0	0.10	46.0	208	1 6		62.5	18,000	14,400	-/20		EATING	(1,2,3,4)
DMSCU-8	18,000	95	-/20	NO HEATING 208 1	60	DMS-8	(1,2,3)	DMS-12	450	0	0.10	46.0	208	1 6		62.5	18,000	14,400	-/20		EATING	(1,2,3,4)
DMSCU-9	18,000	95	-/20	NO HEATING 208 1	60	DMS-9	(1,2,3)	DMS-13	450	0	0.10	46.0	208	1 6		62.5	18,000	14,400	-/20		EATING	(1,2,3,4,5)
DMSCU-10	18,000	95	-/20	NO HEATING 208 1	60	DMS-10	(1,2,3)	DMS-14	450	0	0.10	46.0	208	1 6		62.5	18,000	14,400	-/20		EATING	(1,2,3,4,5)
DMSCU-11	18,000	95	-/20	NO HEATING 208 1	60	DMS-11	(1,2,3)	DMS-15	450	0	0.10	46.0	208	1 6		62.5	18,000	14,400	-/20		EATING	(1,2,3,4)
DMSCU-12	18,000	95	-/20	NO HEATING 208 1	60	DMS-12	(1,2,3)	DMS-16	440	0	0.10	50.0	208	1 6		62.5	18,000	14,400	-/21	70	19,000	(1,2,3,4,5)
DMSCU-13	18,000	95	-/20	NO HEATING2081NO HEATING2081	60	DMS-13	(1,2,3)	DMS-17	440	0	0.10	50.0	208	1 6		62.5	18,000	14,400	-/21	70	19,000	(1,2,3,4,5)
DMSCU-14	18,000	95	-/20		60	DMS-14	(1,2,3)	DMS-18	440	0	0.10	50.0	208	1 6	0 75.0	62.5	18,000	14,400	-/21	70	19,000	(1,2,3,4,5)
DMSCU-15 DMSCU-16 DMSCU-17 DMSCU-18 GENERAL NO	18,000 18,000 18,000 18,000	95 95 95 95	-/20 -/21 -/21 -/21	NO HEATING         208         1           19000.0         208         1           19000.0         208         1           19000.0         208         1           19000.0         208         1	60 60 60 60	DMS-15 DMS-16 DMS-17 DMS-18	$(1,2,3) \\ (1,2,3,4) \\ (1,2,3,4) \\ (1,2,3,4) \\ (1,2,3,4)$	BE ADDED 2. MAINTAIN M	STATIC PRES	_ STATIC PR ARANCE FO	ESSURE TO C R COIL PULL A	BTAIN TO	TAL PRES MENDED	SURE BY UN	LOSS. INCREAS	E HORSEPOV ER. MAINTAI	VER AS REQUIRE N MINIMUM CLEA	D TO MEET YOUR	R TOTAL PRE	LICABLE. DIRTY FIL SSURE LOSS. COO IN ACCESS AND CO	RDINATE WITH E	ELECTRICIAN.

A. MINIMUM RECOMMENDEDLD CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS: 1. PROVIDE WITH LOW AMBIENT CONTROL DOWN TO 20°F.

2. PROVIDE WITH DISCONNECT SWITCH. 3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS. 4. HEAT PUMP SHALL HAVE A MINIMUM HSPF2 OF 8.2.

	DUAL D	UCT TEF	RMINAL BOX							FA	N SCH	EDULE							REMARKS: 1. PROVIDE WITH VARIABLE FREQUENCY DRIVE. 2. PROVIDE SUCTION DIFFUSER AT PUMP INLET. 3. PUMP SHALL BE SELECTED BY BOILER MANUFACTURER, WITH DISCONNECT AND STARTER BY ELECTRICAL CONTRACTOR AND CONTROLLED BY
MARK	COOL CFM MAX. MIN.	INLET DIAMETER	HEATING MAXIMUM INLET DIAMETER REMARKS	TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	V	NT CHAR	LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURE R	MODEL NUMBER	REMARKS	<ul> <li>BOILER.</li> <li>PROVIDE WITH GAUGE TAPPINGS.</li> <li>PROVIDE PUMP MOTOR WITH INTERNAL HEATER FOR PREVENTION OF CONDENSATION.</li> </ul>
		SIZE (IN.)	SIZE (IN.)	EF-AS-1	FIELD HOUSE	1000	0.50	2142	0.33	120	1 60	TSTAT	-	INLINE	DIRECT	COOK	SQND	(1,3,4,6)	
DDB-G5-1	530 135	8	425 8 (1)	EF-CB-1		100	0.50	1016	0.01	120	1 60	TSTAT	-	CEILING	DIRECT	COOK	GC	(1,3,7)	
DDB-G5-2 DDB-G5-3	1,240 310 630 165	12	995 10 (1) 505 8 (1)	EF-G-4	VESTIBULE 1004	400	0.50	1417	0.13	120	1 60	TSTAT	-	ROOF MOUNTED	DIRECT	COOK	ACED	(1,2,3,4)	DAMPER
DDB-G5-4	1,440         360           535         135	12	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	EF-G-5	SCULPTURE 1101	700	0.50	1614	0.17	120	1 60	TIMER	-	ROOF MOUNTED	DIRECT	COOK	ACED	(1,2,3,4,5)	MARK ACTUATOR DUTY BLADE ACTION MANUFACTURER MODEL REMARKS
DDB-G5-5 DDB-G5-6	965 240	10	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	EF-G-6	WORK ROOM G1015	150	0.50	1594	0.17	120	1 60	-	SF-G-1	ROOF MOUNTED	DIRECT	СООК	ACED	(1,2,3,4)	D-1 MANULAL BALANCING LINDER 9" WIDE N/A N/A N/A SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL
DDB-G5-7 DDB-G5-8	350         90           1,250         315           1,000         255	12	280         6         (1)           1,000         10         (1)           000         40         (4)	EF-H-16	CENTRAL PLANT	3750	0.50	1917	3.35	480	3 60	TIMER	REFRIGERANT MONITOR	ROOF MOUNTED	DIRECT	COOK	ACED	(1,2,3,9,10)	D-1     MANGAL BALANCING     ONDER'S WIDE     N/A     N/A     CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."       D-2     MANUAL BALANCING     OVER 9" WIDE     OPPOSED     RUSKIN     MD-35     MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND AND ADD ADD ADD ADD ADD ADD ADD ADD
DDB-G5-9 DDB-G5-10 AHU-G5	1,0202551,2603159,220	10	820 10 (1) 1,010 10 (1) 7,395	SF-G-1	MECH 1019	1910	0.75	1104	1	480	3 60	-	AHU-G5	ROOF	BELT	СООК	ASP	(1,2,3,8,9)	D-2     Implify and the brack where     OVER 0 WIDE     OPPOSED     RUSKIN     CD-60     LOW LEAKAGE DAMPER WITH BLADE SEALS
GENERAL NO 1. MAXIMUM BOX SHAI	DTES: STATIC PRESSI L BE 0.2" W.G.		,		STATIC PRESSURE	INOLODED LOOK	020 002 10 0001		ICES, DAMPERS, ANI REQUIRED TO MEET	00011110	ontileb no i		_		ND UNIT CASING	MUST BE ADDED TO	D EXTERNAL ST	ATIC	NOTES: N/A - NOT APPLICABLE

3. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. REFER TO

MANUFACTURER FOR MORE DETAILS. . UNITS TO BE MOUNTED BETWEEN BEAMS AND 18" MAXIMUM ABOVE

CEILING. AVOID MOUNTING OVER LIGHTS WHEREVER POSSIBLE.

I. VERIFY BOX ORIENTATION FOR HOT AND COLD DUCTWORK CONNECTIONS PRIOR TO ORDERING.

		RELIEF V	'ENT & O./	<b>A. INTAK</b>	E				U	11.
MARK	CFM	MAX. S.P. (IN.WC.)	MIN. THROAT AREA	MODEL	SERVES	REMARKS	MARK	MINIMUM CAPACITY	кw	CL
OAI-H-1	3,750	0.05	8 SF	GI	EF-H-16	(1,2,3)		(BTUH)	5	10
OAI-H-2	1,825	0.05	4 SF	GI	EF-H-16	(1,2,3)	EUH-1	17,060	5	48
REMARKS:							EUH-2	17,060	5	48
1. PROVIDE WI	TH ROOF CURB.						EUH-3	17,060	5	48
2. PROVIDE WI	TH BIRD SCREEN	l.					EUH-4	17,060	5	48
			MPER THAT SHAL		UNIT IS NOT OPE	RATING.	EUH-5	17,060	5	48
PROVIDED B	Y BMCS INSTALL	LED IN DUCTWOR	K BY MECHANICAL	CONTRACTOR.			<u>REMARK</u> 1. PROV	<u>(S</u> : IDE WITH PEN		NOU

#### **CHILLED WATER FAN/COIL UNIT**

					COOLING				PIPE SIZE TO COIL (IN.)	
REN	Т	AIR TEMPER	RATURE (°F)	MIN. TOTAL	MIN.		WATER			REMARKS
Ρ	F	ENTERING DRY BULB	ENTERING WET BULB	CAPACITY (BTUH)	SENSIBLE CAPACITY (BTHU)	ENTERING TEMP(°F)	GPM	PRESSURE DROP (FT.)	CHILLED WATER	
1	60	62.5	75.0	56,654	47,520	45	7.1	15.0	1 1/4"	(1,2,3,4,5,6,7)
1	60	62.5	75.0	56,654	47,520	45	7.1	15.0	1 1/4"	(1,2,3,4,5,6,7)
1	60	62.5	75.0	56,654	47,520	45	7.1	15.0	1 1/4"	(1,2,3,4,5,6,7)

TWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. NDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS TAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

ER LEVEL SENSING DEVICE IN PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF UNIT IN THE EVENT THE PRIMARY DRAIN PAN LINE BECOMES RESTRICTED. 6. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION.

		MINIMUM		PRESSURE			ELEC	TRICAL				
MARK	TYPE	GAS INPUT	MINIMUM HEAT OUTPUT (MBH)	DROP	GPM	FLUE SIZE	BLOWER	CL	JRRE	NT	MANUFACTURER	MODEL NUMBER
		(MBH)		(FT.H20)			HORSEPOWER	V	P	F		
B-1	CONDENSING	3000.0	2904.0	10.0	194.0	10	1	208	3	60	RBI	FLEXCORE 3000
B-2	CONDENSING	3000.0	2904.0	10.0	194.0	10	1	208	3	60	RBI	FLEXCORE 3000
B-3	CONDENSING	3000.0	2904.0	10.0	194.0	10	1	208	3	60	RBI	FLEXCORE 3000
B-4	CONDENSING	3000.0	2904.0	10.0	194.0	10	1	208	3	60	RBI	FLEXCORE 3000
B-5	CONDENSING	3000.0	2904.0	10.0	194.0	10	1	208	3	60	RBI	FLEXCORE 3000
GENER	RAL NOTES:											
	_	GAS PRESSI	JRE TO BOILER.									
2. MAI	INTAIN MINIMUM	1 CLEARANCE	AROUND A BOIL	ER OF 24 INC	HES PER	R TEXAS	BOILER LAW. MA	INTAIN	MINI	MUM C	LEARANCE AS REQUI	RED TO OPEN

ACCESS AND CONTROL DOORS FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC. REMARKS: 1. PROVIDE WITH CIRCULATING PUMP, SIZED BY BOILER MANUFACTURER TO ENSURE CONSTANT FLOW THROUGH BOILER. PUMP TO BE SHIPPED LOOSE. 1. PROVIDE WITH CIRCULATING PUMP, SIZED BY BOILER MANUFACTURER TO ENSURE CONSTANT FLOW THROUGH BOILER. PUMP TO BE SHIPPED LOOSE. POWER BY ELECTRICAL CONTRACTOR BUT CONTROLLED BY BOILER. CONTRACTOR TO WIRE FROM BOILER PUMP CONTROL CIRCUIT TO PUMP STARTER RELAY.

2. PROVIDE SEALED COMBUSTION BOILER.

1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. 2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.

3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS. 4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.

5. PROVIDE WITH LITTLE GIANT CONDENSATE PUMP MODEL 554652 VCMA-20ULS-C-PRO, 1/30 HP, 115V/1PH/60HZ.

2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS: 1. PROVIDE WITH DISCONNECT. . PROVIDE WITH ROOF CURB AND BIRD SCREEN.

. PROVIDE WITH LOW LEAKAGE MOTORIZED DAMPER THAT SHALL CLOSE WHEN UNIT IS NOT OPERATING. PROVIDED BY BMCS INSTALLED IN DUCTWORK BY MECHANICAL CONTRACTOR. . PROVIDE WITH EC MOTOR WITH FAN SPEED CONTROLLER.

. PROVIDE WITH 60 MINUTE NO HOLD TIMER. . SUSPEND FAN WITH THREADED HANGER RODS ATTACHED TO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION. REFER TO MANUFACTURER FOR MORE DETAILS.

PROVIDE WITH EC MOTOR WITH FAN SPEED CONTROLLER, VIBRATION ISOLATION KIT, AND BACKDRAFT DAMPER. PROVIDE WITH 1" WASHABLE ALUMINUM FILTER.

. PROVIDE VARIBALE FREQUENCY DRIVE (VFD). 0. PROVIDE WITH TWO SPEED CONTROLLÈR. FÍRST SPEED SHALL BE A CONSTANT MINIMUM FLOW OF 1,825 CFM FOR GENERAL EXHAUST AND SECOND SPEED SHALL BE AS SCHEDULED FOR PURGE. GENERAL EXHAUST (SPEED 1) SHALL BE CONTROLLED BY NO HOLD 60 MINUTE TIMER SWITCH AND PURGE (SPEED 2) SHALL BE ACTIVATED BY A PUSH BUTTON.

UN	IIT HEAT	'ER -	ELECTR	IC	
	CURRENT CHAR.				

0014		<i>u</i> u v.				
V	Ρ	F	CFM	MANUFACTURER	MODEL	REMARKS
480	3	60	479	REZNOR	EUH	(1,2)
480	3	60	479	REZNOR	EUH	(1,2)
480	3	60	479	REZNOR	EUH	(1,2)
480	3	60	479	REZNOR	EUH	(1,2)
480	3	60	479	REZNOR	EUH	(1,2)
DUNTI	ED THE	RMO	STAT.			

2.	REFER TO MANUFACTURER FOR INSTALLATION INSTRUCTIONS AND MOUNTING HEIGHTS.
~	REFER TO MANUEA OTUDER FOR INGTALLATION INGTRUCTIONS AND MOUNTING LEIGUTO
Π.	PROVIDE WITH PENDANT MOUNTED THERMOSTAT.
1	ΟΡΟΥΙΝΕ ΜΙΤΗ ΡΕΝΙΝΑΝΤ ΜΟΠΝΙΤΕΝ ΤΗ ΕΡΜΟΘΤΑΤ

						GRILL	E	
MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESC
A	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	TDC	EXPOSED T-BAR CEILING FRA LOUVE
В	RETURN AIR	DIFFUSER	-	STEEL	WHITE	TITUS	350RL	SINGLE DEFLECTION GRILLE V LAY-IN WITH
С	SUPPLY AIR	GRILLE	-	STEEL	WHITE	TITUS	300RL	DOUBLE DEFLECTION SIDEWALL BARS. SURF
E	EXHAUST AIR	DIFFUSER	-	STEEL	WHITE	TITUS	350RL	SINGLE DEFLECTION GRILLE V LAY-IN WITH
F	EXHAUST AIR	GRILLE	-	STEEL	WHITE	TITUS	350RL	SINGLE DEFLECTION SIDEWALL BARS. SURF
	NOTES							

GENERAL NOTES: 1. DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET. . COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT. <u>REMARKS</u>: 1. N/A

			FAN								COOLING						HEATIN	G			PIPE SIZE TO	COIL (IN.)	
			EXT. STATIC		C	URREN	IT		AIR TEMPER	ATURE (°F)			WATER			ENTERING AIR	MIN.		WATE	२			
MARK	SUPPLY AIR CFM	OUTSIDE AIR CFM	PRESSURE (IN. W.C)	HORSE POWER	V	PH	F	ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	ENTERIN G TEMP (°F)	GPM	MAX. PRESSURE DROP (IN.)	HEATING CFM	TEMPERATURE	HEATING CAPACITY	ENTERIN G TEMP. (°F)	GPM	MAX. PRESSURE DROP (IN.)	CHILLED WATER	HOT WATER	REMARKS
AHU-G5	9,220	1,910	2.50	10.0	480	3	60	75.0	62.5	53.0	52.5	45	33.0	15.0	7,395	68.0	215,084	180.0	14.4	10	2"	1 1/2"	(1,2,4,5,6,7,8,9,10,13)
AHU-G5A	1,910	1,910						98.0	80.0	53.0	52.5	45	23.4			27.0	57,758	180.0	3.9		2"	1"	(3,4,6,7,11,12)
LOSS. INC	STATIC PRE REASE HORS MINIMUM CLE E AS REQUIF	SEPOWER A EARANCE F RED BY NEG	AS REQUIRED OR COIL PULL C.	TO MEET AS RECC	YOUR	TOTAL	PRES	SURE LOSS.	COORDINATE	WITH ELEC	TRICIAN.					AND UNIT CASIN							

ACTUAL

(TONS)

MARK CAPACITY LEAVING

2. VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL. 3. VELOCITY NOT TO EXCEED 450 FPM ON COOLING COIL. 4. PROVIDE LOW VELOCITY ANGLED FILTER SECTION.

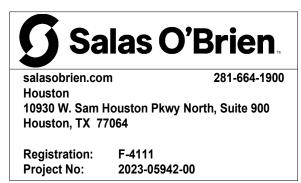
5. PROVIDE VARIABLE FREQUENCY DRIVE. 6. PROVIDE 2-WAY COOLING CONTROL VALVES.

7. PROVIDE 2-WAY HEATING CONTROL VALVES. 8. PROVIDE UNIT WITH TOP DISCHARGE FOR COLD DECK. 9. PROVIDE UNIT WITH TOP DISCHARGE FOR HOT DECK.

10. PROVIDE HOT WATER COIL IN REHEAT POSITION. 11. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION.

DEHUMIDIFICATION UNIT SHALL DELIVER OUTSIDE AIR TO MIXING BOX SECTION OF MAIN AIR HANDLING UNIT UPSTREAM OF COIL. 13. PROVIDE WITH DIRECT DRIVE FAN. REFER TO SPECIFICATIONS.

**BOILER - FORCED AIR** 



REMARKS

(1,2,3)

MINIMUM MINIMUM

KW/TON NPLV

URRENT CHARA

- PRESSURE

DROP (FT.)

#### 

12. UNIT INDICATED SHALL BE STACKED OAU FURNISHED WITH ASSOCIATED AHU (LISTED ABOVE). UNIT INCLUDES ANGLED FILTER MIXING BOX, PREHEAT COIL, ACCESS SPACE, COOLING COIL, AND DISCHARGE PLENUM. UNIT DOES NOT HAVE FAN SECTION. SPLIT

GPM

EVAPORATOR

(FF=0.0001)

WATER

TEMP.(°F)

ANUFACTURER	MODEL NUMBER	REMARKS
RBI	FLEXCORE 3000	(1,2)

CH-1 975 20.0 86 1,950 20.0 480 0.6106 0.3977 650 42 60 **(** 0.6106 0.3977 1,950 CH-2 975 20.0 480 650 20.0 86 0.6106 0.3977 CH-3 20.0 1,950 20.0 480 3 650 975 86 <u>REMARKS:</u> I. CHILLER SHALL MEET OR EXCEED BOTH ABOVE SCHEDULED FULL-LOAD AND PART-LOAD DESIGN EFFICIENCIES, AND MINIMUM AHRI STANDARDIZED FULL-LOAD AND PART-LOAD EFFICIENCIES INDICATED IN IECC 2015. COMPLY BY PATH A OR BY PATH B AS REQURIED BY IECC 2015. 2. CHILLERS SHALL MEET OR EXCEED CAPACITY AT SCHEDULED WATER TEMPERATURES.

TEMP.(°F)

DROP (FT.) ENTERING

WATER COOLED CHILLER

CONDENSER

(FF=0.00025)

WATER GPM

SCRIPTION RAME STYLE WITH 24"X24" FACE. ERED FACE WITH HORIZONTAL FRONT BARS. H 24"X24" FACE. L GRILLE WITH HORIZONTAL FRON RFACE MOUNTED WITH HORIZONTAL FRONT BARS. H 24"X24" FACE. L GRILLE WITH HORIZONTAL FRONT RFACE MOUNTED

PUMP												
			i	1	FUIVII		1					
	SERVICE	TYPE	GPM	HEAD (FT.)	MOTOR HORSE	MAX. RPM	C	CURRENT CHARAC.		MANUFACTURER	MODEL NUMBER	REMARKS
TAG				( )	POWER		V	Р	F			
PCHP-1	CHILLED WATER	VERTICAL INLINE	975.0	50	25	1800	480	3	60	ARMSTRONG	4300	(1,2,4)
PCHP-2	CHILLED WATER	VERTICAL INLINE	975.0	50	25	1800	480	3	60	ARMSTRONG	4300	(1,2,4)
PCHP-3	CHILLED WATER	VERTICAL INLINE	975.0	50	25	1800	480	3	60	ARMSTRONG	4300	(1,2,4)
SCHP-1	CHILLED WATER	VERTICAL INLINE	1,500.0	150	100	1800	480	3	60	ARMSTRONG	4300	(1,2,4)
SCHP-2	CHILLED WATER	VERTICAL INLINE	1,500.0	150	100	1800	480	3	60	ARMSTRONG	4300	(1,2,4)
				ļ								
CWP-1	CONDENSING WATER	VERTICAL TURBINE	1,950.0	95	75	1800	480	3	60	TACO	VT	(1,5)
CWP-2	CONDENSING WATER	VERTICAL TURBINE	1,950.0	95	75	1800	480	3	60	TACO	VT	(1,5)
CWP-3	CONDENSING WATER	VERTICAL TURBINE	1,950.0	95	75	1800	480	3	60	TACO	VT	(1,5)
HWP-1	HOT WATER	VERTICAL INLINE	485.0	140	40	1800	480	3	60	ARMSTRONG	4300	(1,2,4)
HWP-2	HOT WATER	VERTICAL INLINE	485.0	140	40	1800	480	3	60	ARMSTRONG	4300	(1,2,4)
HWP-3	HOT WATER	INLINE CIRCULATOR	194.0	25	3	1800	480	3	60	ARMSTRONG	4300	(3,4)
HWP-4	HOT WATER	INLINE CIRCULATOR	194.0	25	3	1800	480	3	60	ARMSTRONG	4300	(3,4)
HWP-5	HOT WATER	INLINE CIRCULATOR	194.0	25	3	1800	480	3	60	ARMSTRONG	4300	(3,4)
HWP-6	HOT WATER	INLINE CIRCULATOR	194.0	25	3	1800	480	3	60	ARMSTRONG	4300	(3,4)
HWP-7	HOT WATER	INLINE CIRCULATOR	194.0	25	3	1800	480	3	60	ARMSTRONG	4300	(3,4)

 $\underline{2}$ 

<u>GENERAL NOTES</u>: 1. PUMP IS TO HAVE A NON-OVERLOADING MOTOR. 2. MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN MINIMUM CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE, AND INSPECTION.

		DUCT DIN	IENSIONS		DUCT			MODEL NUMBER	
MARK	CFM	WIDTH	HEIGHT	LOCATION	VELOCITY (FPM)	LENGTH	MANUFACTURER		REMAF
SA-1	350	8"	10"	CORR. 1003	670	36"	VIBRO - ACOUSTICS	RFL-MV-F8	
<ol> <li>MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH THE SILENCERS SHALL NOT EXCEED 0.35" W.G. ESP.</li> <li>PROVIDE WITH GALVANIZED, LOCKFORMED CASING CONSTRUCTED TO SMACNA STANDARDS. AIRTIGHT CONSTRUCTION SHALL BE ACHIEVED BY USE OF A DUCT-SEALING COMPOUND SUPPLIED AND INSTALLED BY THE CONTRACTOR AT THE JOBSITE.</li> <li>PROVIDE WITH 2" SLIP CONNECTION AT EACH END.</li> <li>PROVIDE WITH GALVANIZED NOSE AT INLET.</li> <li>PROVIDE WITH GALVANIZED GAP PLATES BETWEEN SPLITTERS TO ENSURE CLOSE DIMENSIONAL TOLERANCES AT AIR PASSAGES.</li> <li>PROVIDE WITH PERFORATED GALVANIZED SPLITTERS COMPLETE WITH PERFORATED DIFFUSER TAIL SECTIONS.</li> <li>SPLITTERS FILLED WITH ACOUSTIC GRADE GLASS FIBER UNDER MINIMUM 15% COMPRESSION.</li> <li>SILENCERS SHALL BE LOCATED AS CLOSE TO NOISE GENERATING EQUIPMENT AS POSSIBLE WITH 3 EQUIVALENT DUCT DIAMETERS OF STRAIGHT, UNOBSTRUCTED DUCTWORK ON INLET AND DISCHARGE SIDE OF SILENCER.</li> <li>SILENCERS SHALL NOT FAIL STRUCTURALLY WHEN SUBJECTED TO A DIFFERENTIAL AIR PRESSURE OF 8" W.G.</li> <li>SILENCER INLET AND OUTLET CONNECTION DIMENSIONS MUST BE EQUAL TO THE DUCT SIZES SHOWN ON THE DRAWINGS. <u>REMARKS:</u></li> <li>N/A</li> </ol>									



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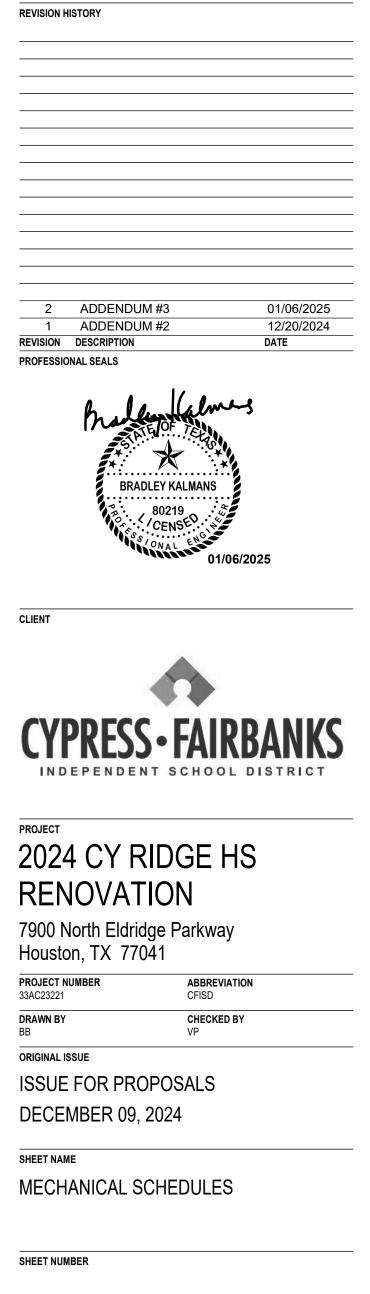
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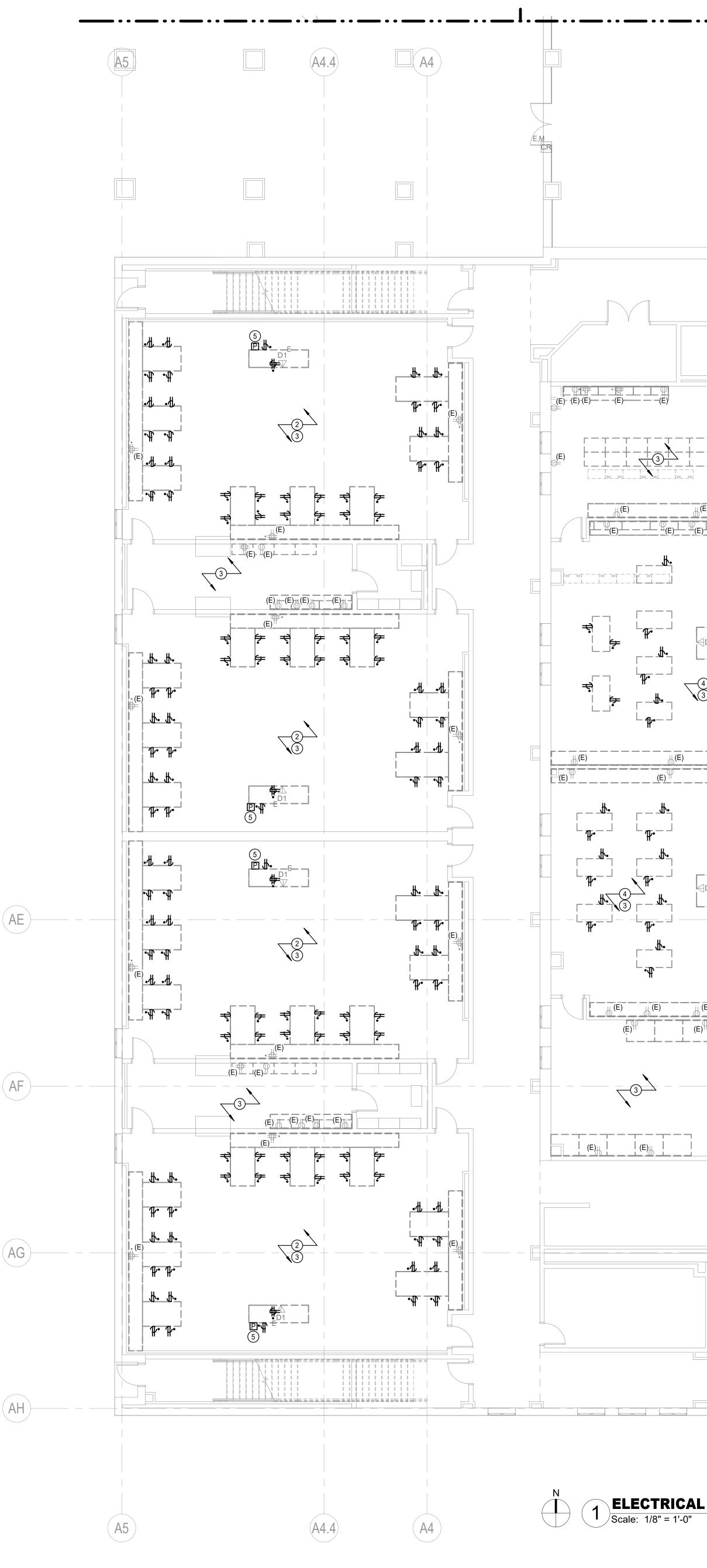
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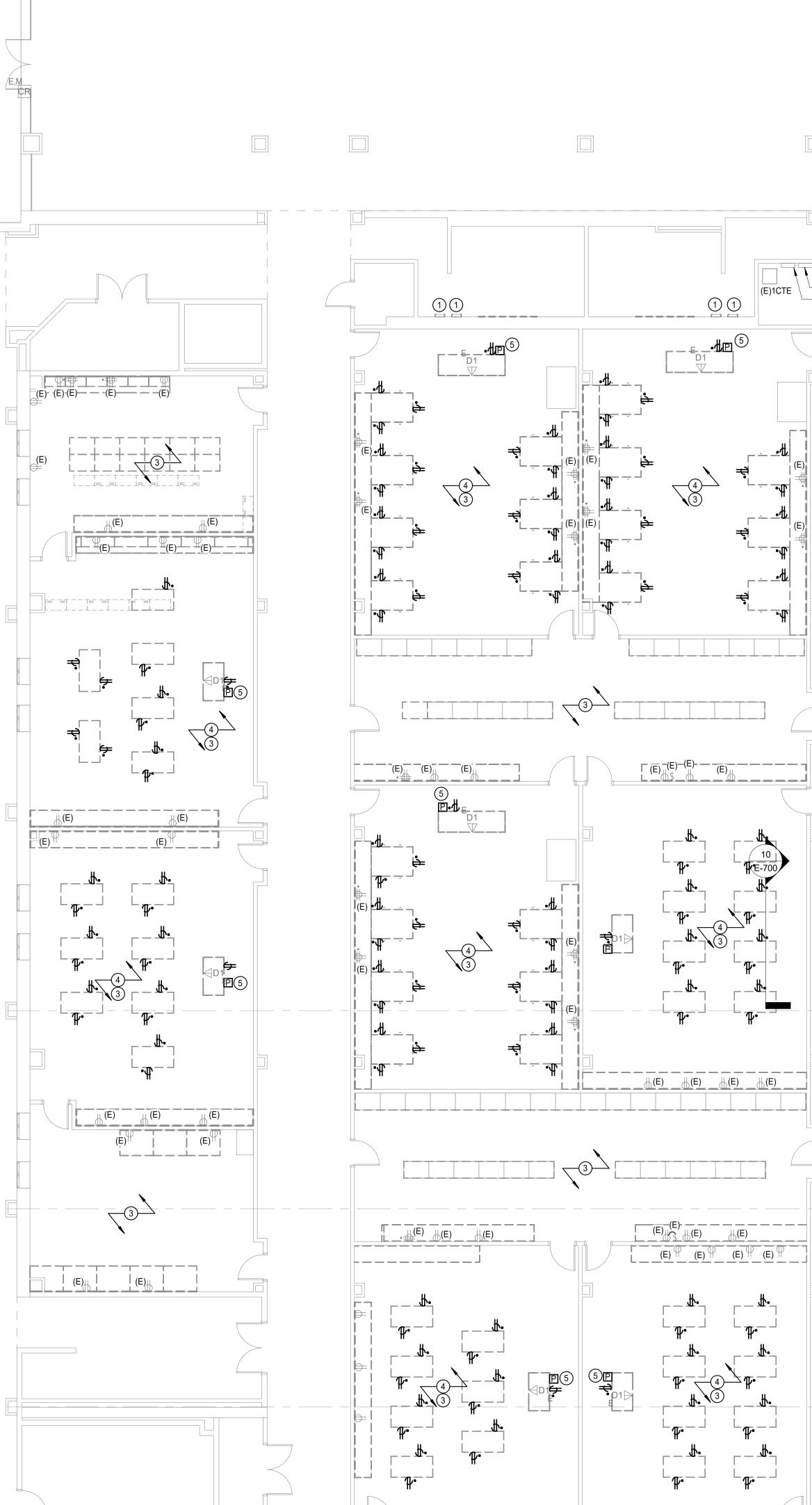
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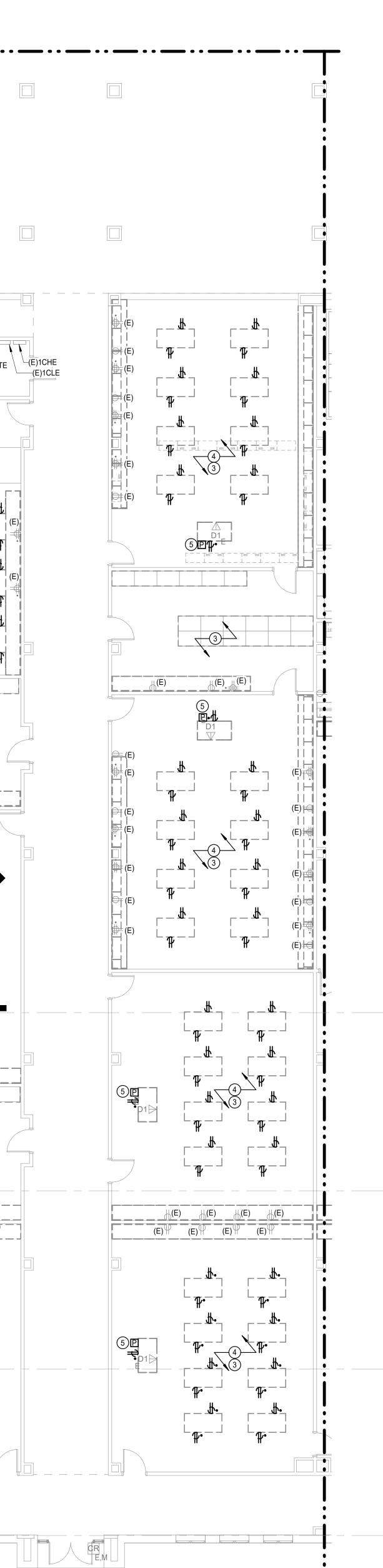
M-601







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



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SYMBOL LEGEND
 POINT OF CONNECTION TO EXISTING
ITEM TO REMAIN
ITEM TO BE REMOVED

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

VERIFY EXISTING CONDTIONS AND CONDUIT ROUTING. CONTRACTOR TO VERIFY THAT EXISTING CONDUITS ARE IN GOOD CONDITIONS TO PULL NEW CONDUCTORS IN PRIOR TO COMMENCMENT OF WORK AND TO NOTIFY ENGINEER IF CONDUITS NEED TO BE REPLACED.

REMOVE DEMOLISHED/ABANDONED CONDUITS, INCLUDING THOSE ABOVE ACCESSIBLE CEILINGS, TO THE POINT THAT BUILDING CONSTRUCTION, EARTH, OR PAVING COVERS THEM. CUT CONDUIT BENEATH OR FLUSH WITH BUILDING CONSTRUCTION OR PAVING. PLUG, CAP, OR SEAL THE REMAINING UNUSED CONDUITS.

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND, WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING ANY INSTALLATION AND IMMEDIATELY AFTER SUCHDISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION. OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR SHALL NOTIFY CAREY RAMSEY WITH THE DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.

TEMPORARILY DISCONNECT AND REMOVE ALL CEILING MOUNTED ELECTRICAL DEVICES FOR AREAS THAT REQUIRE CEILING REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANICAL, TECHNOLOGY AND PLUMBING SCOPE OF AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

#### **ELECTRICAL GENERAL NOTES:**

- 1. VERIFY ALL DEMOLITION WORK WITH ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF WORK.
- 2. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS & TRANSFORMERS SHALL REMAIN.
- 3. DISCONNECT & REMOVE ALL ELECTRICAL POWER DEVICES FROM WALLS SCHEDULED TO BE DEMOLISHED. UNLESS INDICATED OTHERWISE, PULL EXISTING CONDUCTORS BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE. REFER TO ARCHITECURAL DRAWINGS FOR EXISTING WALL DEMOLITION.
- 4. REMOVE AND STORE ALL EXISTING LIGHT SPEED CLASSROOM SOUND ENHANCEMENT SYSTEMS TO FACILITATE DEMOLITION OF EXISTING CEILING GRID AND RELOCATION OF CLASSROOMS
- 5. RETURN ANY REMOVED LIGHTING CONTROL PANELS & RELAY PANELS TO THE OWNER.
- 6. PROVIDE COVER PLATE FOR ANY REMOVED ELECTRICAL EQUIPMENT SUCH AS BUT NOT LIMITED TO RECEPTACLES OR SWITCHES ON EXISTING TO REMAIN WALLS.
- 7. UNLESS NOTED OTHERWISE, PULL CONDUCTORS FOR DEMOLISHED RECEPTACLES AND LIGHT FIXTURES BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE.
- 8. ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.

#### **ELECTRICAL KEYED NOTES:**

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- 1) DISCONNECT EXISTING HAND DRYER. MAINTAIN WIRES AND CONDUITS IN PLACE. MAKE READY FOR NEW INSTALLATION. REMOVE EXISTING BREAKER AT PANEL.
- 2) REMOVE EXISTING CASEWORK RECEPTACLES WITH ASSOCIATED WIRES AND CONDUITS BACK TO THE FLOOR/WALL BOX. LEAVE IN PLACE FOR RECONNECTION OF NEW CASEWORK RECEPTACLES.
- 3 EXISTING WALL RECEPTACLES TO REMAIN. REMOVE FACEPLATES AND PRESERVE FOR NEW CASEWORK INSTALLATION.
- (4) REMOVE EXISTING CASEWORK RECEPTACLES WITH ASSOCIATED WIRES AND CONDUITS BACK TO THE CEILING. LEAVE IN PLACE FOR RECONNECTION OF NEW CASEWORK RECEPTACLES.
- 5 DISCONNECT AND PRESERVE EXISTING PUSH BUTTON. PULL EXISTING CONTROLS AND CIRCUITING BACK TO FLOOR BOX. PRESERVE CONTROLS AND CIRCUITING FOR NEW CASEWORK INSTALLATION.



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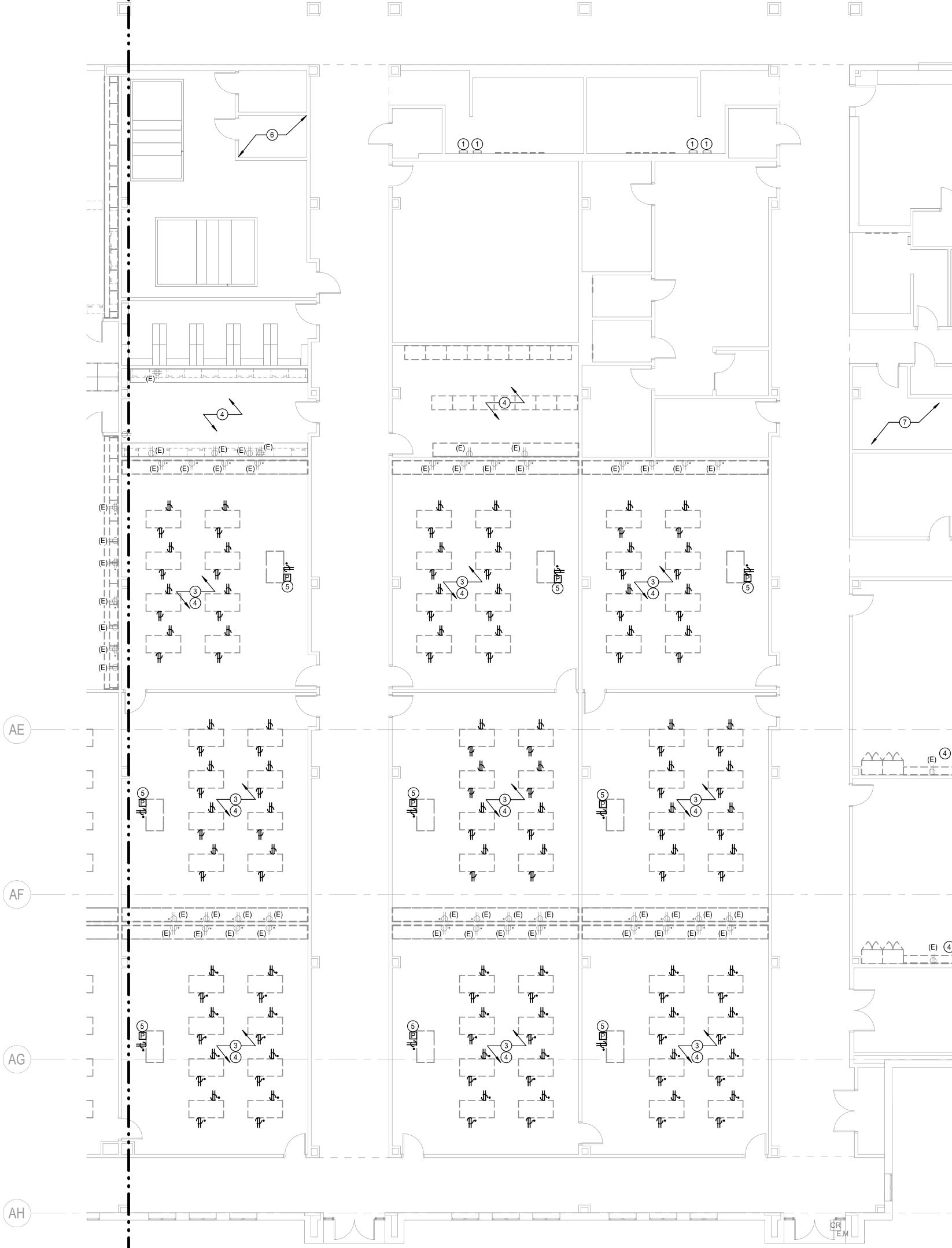
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KEYPLAN **REVISION HISTORY** 1 ADDENDUM #3 01/06/2025 REVISION DESCRIPTION DATE PROFESSIONAL SEALS X BRADLEY KALMANS , 80219 /CENSE CLIENT **CYPRESS • FAIRBANKS** INDEPENDENT SCHOOL DISTRICT PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION 33AC23221 CFISD CHECKED BY DRAWN B JZ ORIGINAL ISSUE ISSUE FOR PROPOSALS DECEMBER 09, 2024 SHEET NAME ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA B SHEET NUMBER ᡝᠬᠬᠬᠬᠬᠬ



ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 01 - AREA C Scale: 1/8" = 1'-0"

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EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK. VERIFY EXISTING CONDTIONS AND CONDUIT ROUTING. CONTRACTOR TO VERIFY THAT EXISTING CONDUITS ARE IN GOOD CONDITIONS TO PULL NEW CONDUCTORS IN PRIOR TO COMMENCMENT OF WORK AND TO NOTIFY ENGINEER IF CONDUITS NEED TO BE REPLACED. REMOVE DEMOLISHED/ABANDONED CONDUITS, INCLUDING THOSE ABOVE ACCESSIBLE CEILINGS, TO THE POINT THAT BUILDING CONSTRUCTION, EARTH, OR PAVING COVERS THEM. CUT CONDUIT BENEATH OR FLUSH WITH BUILDING CONSTRUCTION OR PAVING. PLUG, CAP, OR SEAL THE REMAINING UNUSED CONDUITS. DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND, WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING ANY INSTALLATION AND IMMEDIATELY AFTER SUCHDISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION. OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR SHALL NOTIFY CAREY RAMSEY WITH THE DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT. TEMPORARILY DISCONNECT AND REMOVE ALL CEILING MOUNTED ELECTRICAL DEVICES FOR AREAS THAT REQUIRE CEILING REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANICAL, TECHNOLOGY AND PLUMBING SCOPE OF AFTER COMPLETION

**Salas O'Brien** 

10930 W. Sam Houston Pkwy North, Suite 900

SYMBOL LEGEND

POINT OF CONNECTION TO EXISTING

salasobrien.com

Houston, TX 77064

Registration: F-4111

Project No: 2023-05942-00

ITEM TO REMAIN

Houston

281-664-1900

**ELECTRICAL GENERAL NOTES:** 

RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

- 1. VERIFY ALL DEMOLITION WORK WITH ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF WORK.
- 2. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS & TRANSFORMERS SHALL REMAIN.
- 3. DISCONNECT & REMOVE ALL ELECTRICAL POWER DEVICES FROM WALLS SCHEDULED TO BE DEMOLISHED. UNLESS INDICATED OTHERWISE, PULL EXISTING CONDUCTORS BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE. REFER TO ARCHITECURAL DRAWINGS FOR EXISTING WALL DEMOLITION.
- 4. REMOVE AND STORE ALL EXISTING LIGHT SPEED CLASSROOM SOUND ENHANCEMENT SYSTEMS TO FACILITATE DEMOLITION OF EXISTING CEILING GRID AND RELOCATION OF CLASSROOMS
- 5. RETURN ANY REMOVED LIGHTING CONTROL PANELS & RELAY PANELS TO THE OWNER.
- 6. PROVIDE COVER PLATE FOR ANY REMOVED ELECTRICAL EQUIPMENT SUCH AS BUT NOT LIMITED TO RECEPTACLES OR SWITCHES ON EXISTING TO REMAIN WALLS.
- 7. UNLESS NOTED OTHERWISE, PULL CONDUCTORS FOR DEMOLISHED RECEPTACLES AND LIGHT FIXTURES BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE.
- 8. ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.

#### **ELECTRICAL KEYED NOTES:**

- DISCONNECT EXISTING HAND DRYER. MAINTAIN WIRES AND CONDUITS IN PLACE. MAKE READY FOR NEW INSTALLATION. REMOVE EXISTING BREAKER AT PANEL.
- (2) DISCONNECT EXISTING RANGE. MAINTAIN WIRES AND CONDUITS IN PLACE. MAKE READY FOR NEW INSTALLATION.
- 3 REMOVE EXISTING CASEWORK RECEPTACLES WITH ASSOCIATED WIRES AND CONDUITS BACK TO THE CEILING. LEAVE IN PLACE FOR RECONNECTION OF NEW CASEWORK RECEPTACLES.
- (4) EXISTING WALL RECEPTACLES TO REMAIN. REMOVE FACEPLATES AND MAKE SAFE
- FOR NEW CASEWORK INSTALLATION. 5 DISCONNECT AND PRESERVE EXISTING PUSH BUTTON. PULL EXISTING CONTROLS AND CIRCUITING BACK TO FLOOR BOX. PRESERVE CONTROLS AND CIRCUITING FOR
- NEW CASEWORK INSTALLATION. (6) REFER TO E-400:2 FOR ADDITIONAL WORK IN THIS ROOM.
- REFER TO E-400:6 FOR ADDITIONAL WORK IN THIS ROOM.



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CONSULTANT TEAM

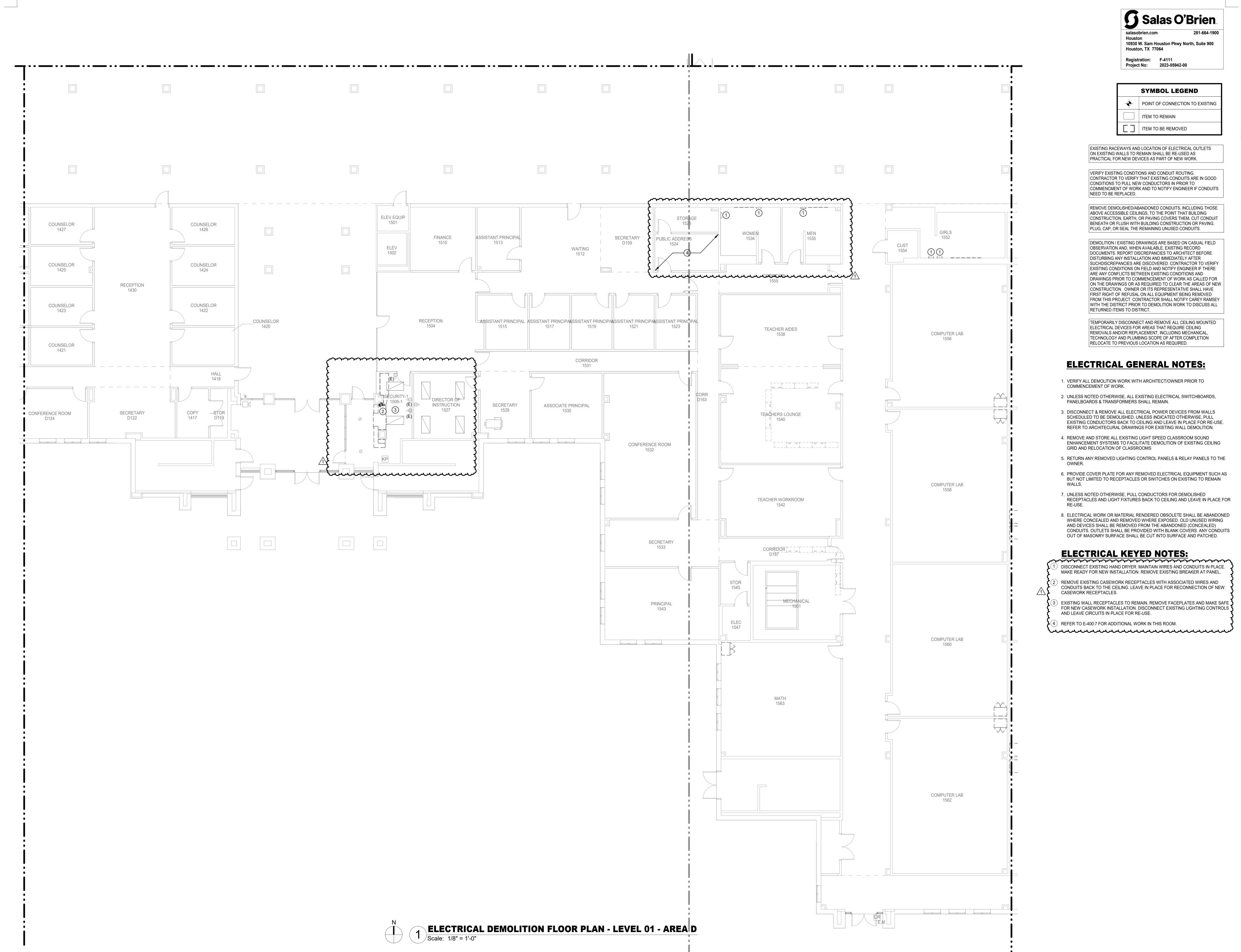
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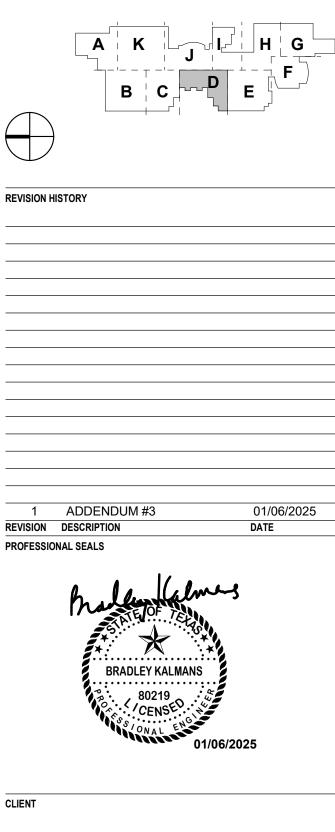
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KEYPLAN



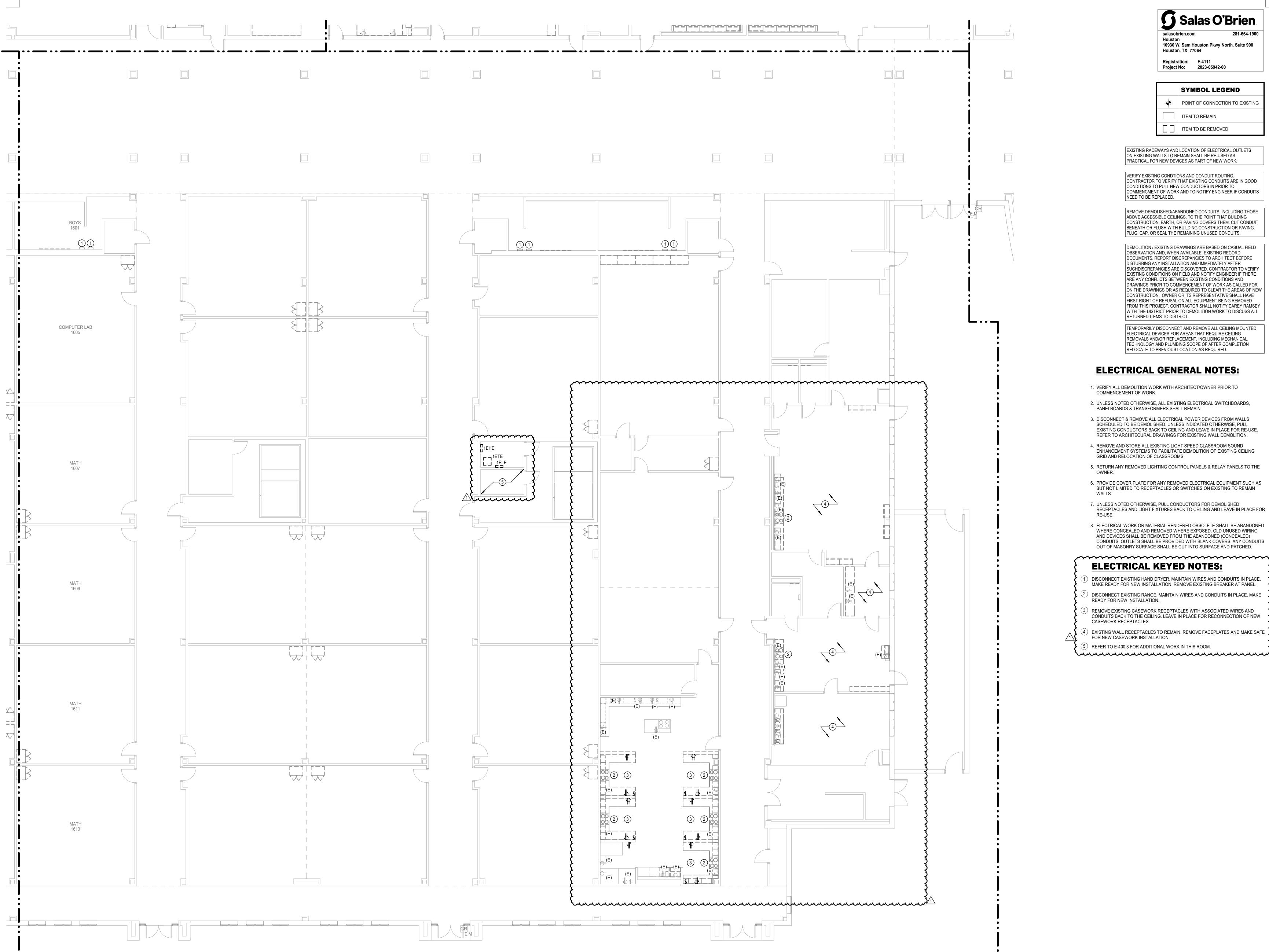


PROJECT	
2024 CY F RENOVAT	
7900 North Eldrid Houston, TX 770	
PROJECT NUMBER 33AC23221	ABBREVIATION CFISD
DRAWN BY	CHECKED BY

JZ ORIGINAL ISSUE ISSUE FOR PROPOSALS DECEMBER 09, 2024

SHEET NAME ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA D

E-004-D



## ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 01 - AREA E

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KEYPLAN

**REVISION HISTORY** 1 ADDENDUM #3 01/06/2025 REVISION DESCRIPTION DATE PROFESSIONAL SEALS **BRADI FY KAI MAN CLIENT CYPRESS • FAIRBANKS** INDEPENDENT SCHOOL DISTRICT PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATIO 33AC23221 CFISD CHECKED BY DRAWN B

JZ

ELECTRICAL DEMOLITION FLOOR PLAN



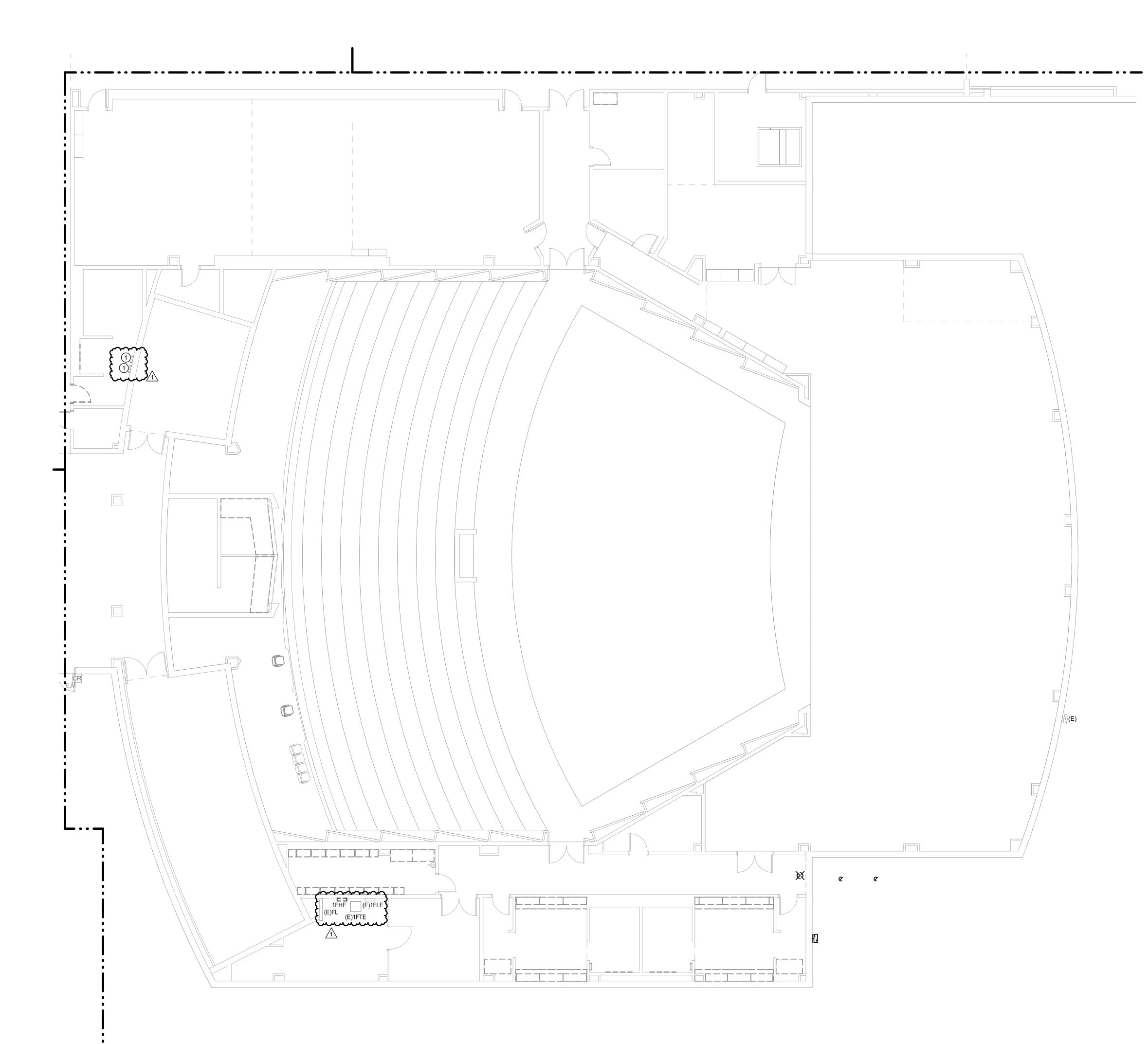
**ISSUE FOR PROPOSALS** 

DECEMBER 09, 2024

- LEVEL 1 - AREA E

ORIGINAL ISSUE

SHEET NAME



**ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 01 - AREA F** Scale: 1/8" = 1'-0"

<b>S</b> alas	O'Brien
salasobrien.com	281-664-1900
Houston	
10930 W. Sam Houston Pk	wy North Suite 900

10930 W. Sam Houston Pkwy North, Suite 900 Houston, TX 77064 Registration: F-4111 Project No: 2023-05942-00

SYMBOL LEGEND
 POINT OF CONNECTION TO EXISTING
ITEM TO REMAIN
ITEM TO BE REMOVED

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

VERIFY EXISTING CONDTIONS AND CONDUIT ROUTING. CONTRACTOR TO VERIFY THAT EXISTING CONDUITS ARE IN GOOD CONDITIONS TO PULL NEW CONDUCTORS IN PRIOR TO COMMENCMENT OF WORK AND TO NOTIFY ENGINEER IF CONDUITS NEED TO BE REPLACED.

REMOVE DEMOLISHED/ABANDONED CONDUITS, INCLUDING THOSE ABOVE ACCESSIBLE CEILINGS, TO THE POINT THAT BUILDING CONSTRUCTION, EARTH, OR PAVING COVERS THEM. CUT CONDUIT BENEATH OR FLUSH WITH BUILDING CONSTRUCTION OR PAVING. PLUG, CAP, OR SEAL THE REMAINING UNUSED CONDUITS.

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND, WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING ANY INSTALLATION AND IMMEDIATELY AFTER SUCHDISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION. OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR SHALL NOTIFY CAREY RAMSEY WITH THE DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.

TEMPORARILY DISCONNECT AND REMOVE ALL CEILING MOUNTED ELECTRICAL DEVICES FOR AREAS THAT REQUIRE CEILING REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANICAL, TECHNOLOGY AND PLUMBING SCOPE OF AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

#### **ELECTRICAL GENERAL NOTES:**

- 1. VERIFY ALL DEMOLITION WORK WITH ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF WORK.
- 2. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS & TRANSFORMERS SHALL REMAIN.
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- UNLESS NOTED OTHERWISE, PULL CONDUCTORS FOR DEMOLISHED RECEPTACLES AND LIGHT FIXTURES BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE.
- 8. ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.

#### **ELECTRICAL KEYED NOTES:**

1 DISCONNECT EXISTING HAND DRYER. MAINTAIN WIRES AND CONDUITS IN PLACE. MAKE READY FOR NEW INSTALLATION. REMOVE EXISTING BREAKER AT PANEL.



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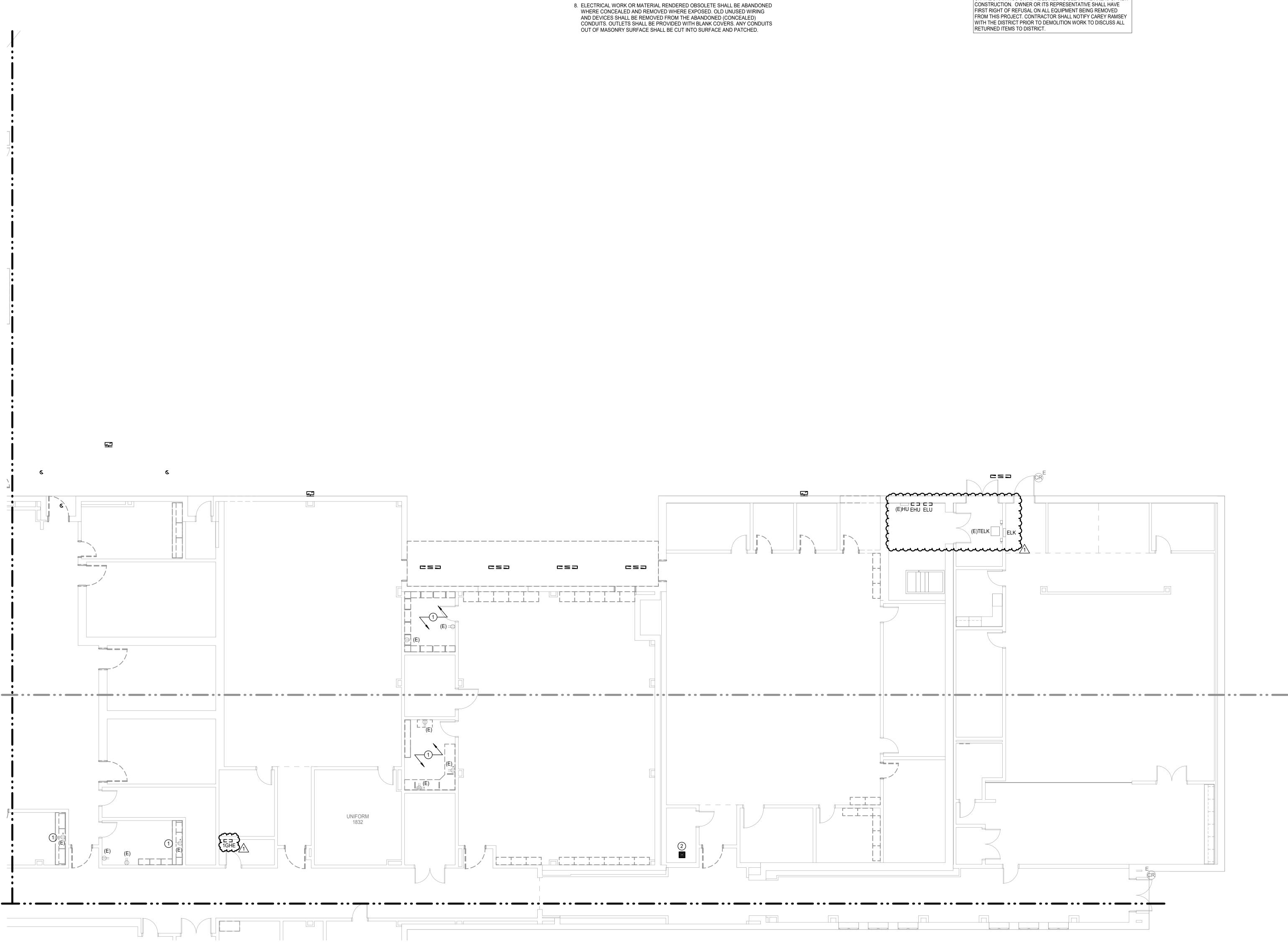
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**REVISION HISTORY** 1 ADDENDUM #3 01/06/2025 REVISION DESCRIPTION DATE PROFESSIONAL SEALS **BRADI FY KAI MA** CLIENT **CYPRESS • FAIRBANKS** INDEPENDENT SCHOOL DISTRICT PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION 33AC23221 CFISD DRAWN BY CHECKED BY AW JZ ORIGINAL ISSUE ISSUE FOR PROPOSALS DECEMBER 09, 2024

E-006-F

SHEET NUMBER

SHEET NAME ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA F



#### **ELECTRICAL GENERAL NOTES:**

2. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS,

1. VERIFY ALL DEMOLITION WORK WITH ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF WORK.

RE-USE.

- PANELBOARDS & TRANSFORMERS SHALL REMAIN. 3. DISCONNECT & REMOVE ALL ELECTRICAL POWER DEVICES FROM WALLS SCHEDULED TO BE DEMOLISHED. UNLESS INDICATED OTHERWISE, PULL EXISTING CONDUCTORS BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE. REFER TO ARCHITECURAL DRAWINGS FOR EXISTING WALL DEMOLITION.
- 4. REMOVE AND STORE ALL EXISTING LIGHT SPEED CLASSROOM SOUND ENHANCEMENT SYSTEMS TO FACILITATE DEMOLITION OF EXISTING CEILING GRID AND RELOCATION OF CLASSROOMS
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- 7. UNLESS NOTED OTHERWISE, PULL CONDUCTORS FOR DEMOLISHED RECEPTACLES AND LIGHT FIXTURES BACK TO CEILING AND LEAVE IN PLACE FOR

ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 01 - AREA G Scale: 1/8" = 1'-0"

TEMPORARILY DISCONNECT AND REMOVE ALL CEILING MOUNTED
ELECTRICAL DEVICES FOR AREAS THAT REQUIRE CEILING
REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANICAL,
TECHNOLOGY AND PLUMBING SCOPE OF AFTER COMPLETION
RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS
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	SYMBOL LEGEND
-	POINT OF CONNECTION TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

INITIATING WORK.



### **ELECTRICAL KEYED NOTES:**

- 1) EXISTING WALL RECEPTACLES TO REMAIN. REMOVE FACEPLATES AND MAKE SAFE FOR NEW CASEWORK INSTALLATION.
- (2) EXISTING MECHANICAL EQUIPMENT TO BE REMOVED/REPLACED. REMOVE RELATED DISCONNECT/CONTROLLER. REMOVE ALL CONDUITS AND WIRES BACK TO THE SOURCE. COORDINATE SCOPE OF WORK WITH DIVISION 23 BEFORE



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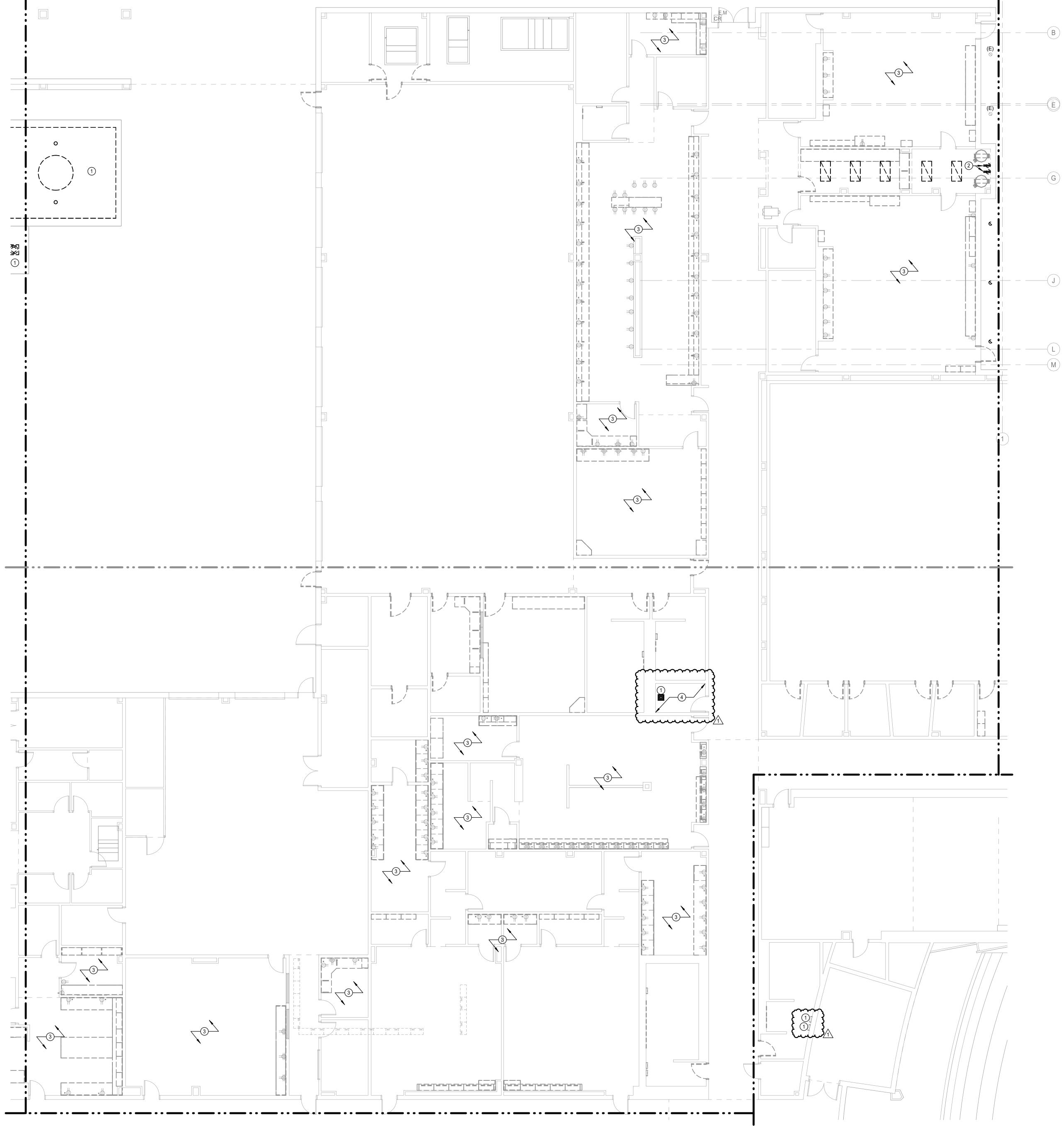
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SHEET NUMBER

E-007-G





ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 01 - AREA H Scale: 1/8" = 1'-0"



	SYMBOL LEGEND
-	POINT OF CONNECTION TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

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- 8. ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.

#### **ELECTRICAL KEYED NOTES:**

- EXISTING MECHANICAL EQUIPMENT TO BE REMOVED/REPLACED. REMOVE RELATED DISCONNECT/CONTROLLER. REMOVE ALL CONDUITS AND WIRES BACK TO THE SOURCE. COORDINATE SCOPE OF WORK WITH DIVISION 23 BEFORE INITIATING WORK.
- (2) DEMOLISH EXISTING KILN RECEPTACLE AND ANY ASSOCIATED DISCONNECTS OR ACCESSORIES.
- (3) EXISTING WALL RECEPTACLES TO REMAIN. REMOVE FACEPLATES AND MAKE SAFE FOR NI CASEWORK INSTALLATION.

A REFER TO E-400:4 FOR ADDITIONAL WORK IN THIS ROOM. 



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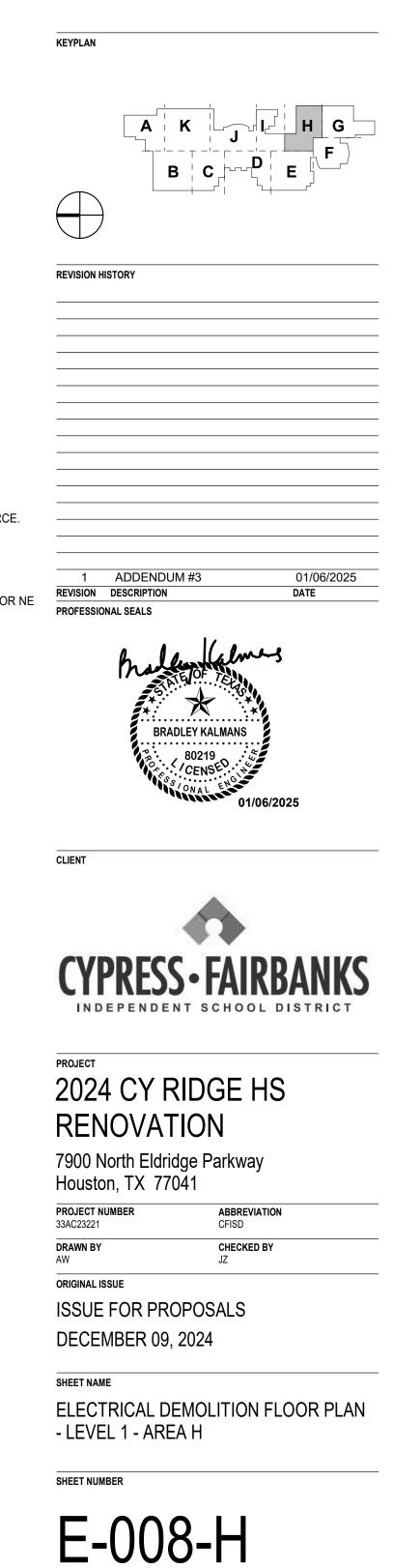
CONSULTANT TEAM

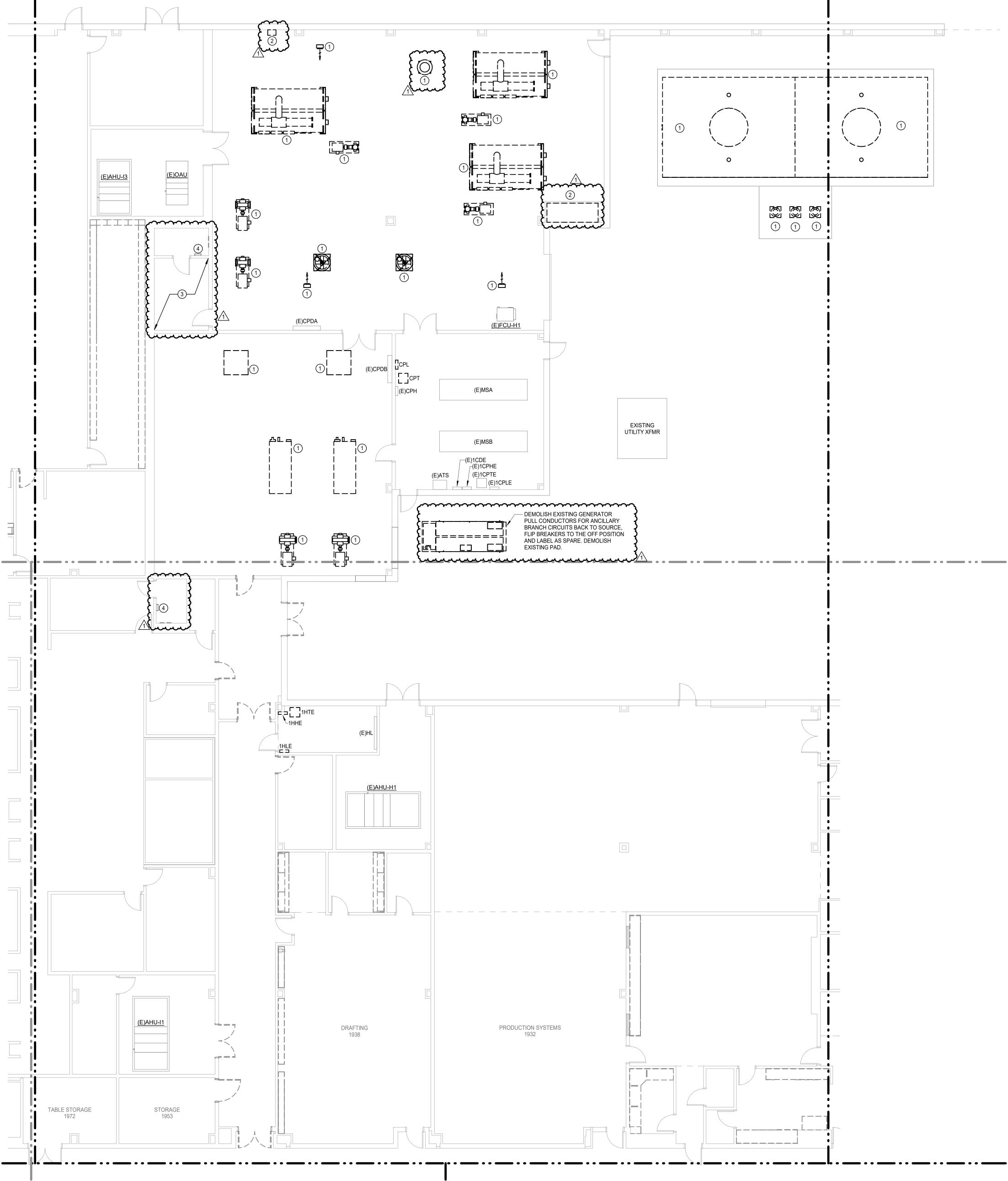
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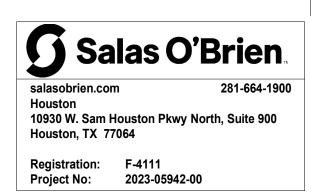
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## ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 01 - AREA I Scale: 1/8" = 1'-0"



SYMBOL LEGEND					
-	POINT OF CONNECTION TO EXISTING				
	ITEM TO REMAIN				
	ITEM TO BE REMOVED				

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

VERIFY EXISTING CONDTIONS AND CONDUIT ROUTING. CONTRACTOR TO VERIFY THAT EXISTING CONDUITS ARE IN GOOD CONDITIONS TO PULL NEW CONDUCTORS IN PRIOR TO COMMENCMENT OF WORK AND TO NOTIFY ENGINEER IF CONDUITS NEED TO BE REPLACED.

REMOVE DEMOLISHED/ABANDONED CONDUITS, INCLUDING THOSE ABOVE ACCESSIBLE CEILINGS, TO THE POINT THAT BUILDING CONSTRUCTION, EARTH, OR PAVING COVERS THEM. CUT CONDUIT BENEATH OR FLUSH WITH BUILDING CONSTRUCTION OR PAVING. PLUG, CAP, OR SEAL THE REMAINING UNUSED CONDUITS.

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND, WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING ANY INSTALLATION AND IMMEDIATELY AFTER SUCHDISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION. OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR SHALL NOTIFY CAREY RAMSEY WITH THE DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.

TEMPORARILY DISCONNECT AND REMOVE ALL CEILING MOUNTED ELECTRICAL DEVICES FOR AREAS THAT REQUIRE CEILING REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANICAL, TECHNOLOGY AND PLUMBING SCOPE OF AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

#### **ELECTRICAL GENERAL NOTES:**

- 1. VERIFY ALL DEMOLITION WORK WITH ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF WORK.
- 2. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS & TRANSFORMERS SHALL REMAIN.
- 3. DISCONNECT & REMOVE ALL ELECTRICAL POWER DEVICES FROM WALLS SCHEDULED TO BE DEMOLISHED. UNLESS INDICATED OTHERWISE, PULL EXISTING CONDUCTORS BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE. REFER TO ARCHITECURAL DRAWINGS FOR EXISTING WALL DEMOLITION.
- 4. REMOVE AND STORE ALL EXISTING LIGHT SPEED CLASSROOM SOUND ENHANCEMENT SYSTEMS TO FACILITATE DEMOLITION OF EXISTING CEILING GRID AND RELOCATION OF CLASSROOMS 5. RETURN ANY REMOVED LIGHTING CONTROL PANELS & RELAY PANELS TO THE
- OWNER. 6. PROVIDE COVER PLATE FOR ANY REMOVED ELECTRICAL EQUIPMENT SUCH AS
- BUT NOT LIMITED TO RECEPTACLES OR SWITCHES ON EXISTING TO REMAIN WALLS.
- 7. UNLESS NOTED OTHERWISE, PULL CONDUCTORS FOR DEMOLISHED RECEPTACLES AND LIGHT FIXTURES BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE.
- 8. ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.

#### **ELECTRICAL KEYED NOTES:**

- (1) EXISTING MECHANICAL EQUIPMENT TO BE REMOVED/REPLACED. REMOVE RELATED DISCONNECT/CONTROLLER. REMOVE ALL CONDUITS AND WIRES BACK TO THE SOURCE. COORDINATE SCOPE OF WORK WITH DIVISION 23 BEFORE INITIATING WORK.
- (2) DISCONNECT EXISTING MECHANICAL CONTROLS/ACCESSORIES AND LEAVE CONDUCTORS IN PLACE FOR RE-USE AND CONNECTION TO NEW MECHANICAL CONTROLS/ACCESSORIES REFER TO E-400:5 FOR ADDITIONAL WORK IN THIS ROOM.
- ) DISCONNECT EXISTING HAND DRYER. MAINTAIN WIRES AND CONDUITS IN PLACE. MAKE READY FOR NEW INSTALLATION. REMOVE EXISTING BREAKER AT PANEL.

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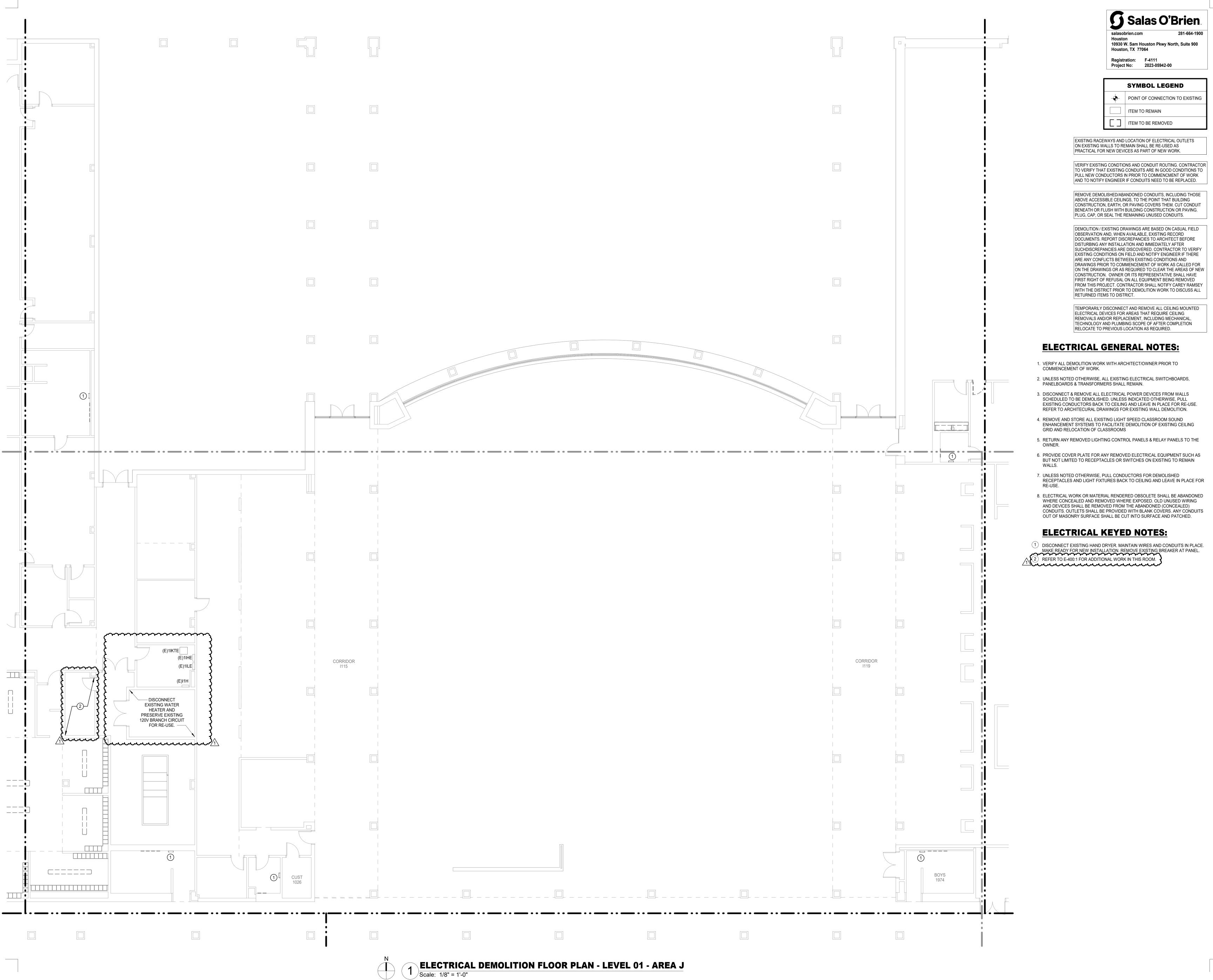
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KEYPLAN **REVISION HISTORY** 1 ADDENDUM #3 01/06/2025 REVISION DESCRIPTION DATE PROFESSIONAL SEALS **BRADI FY KAI MAN** CLIENT **CYPRESS • FAIRBANKS** INDEPENDENT SCHOOL DISTRICT PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION 33AC23221 CFISD DRAWN BY CHECKED BY JZ AW ORIGINAL ISSUE **ISSUE FOR PROPOSALS** DECEMBER 09, 2024 SHEET NAME ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA I

SHEET NUMBER

E-009-I





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KEYPLAN

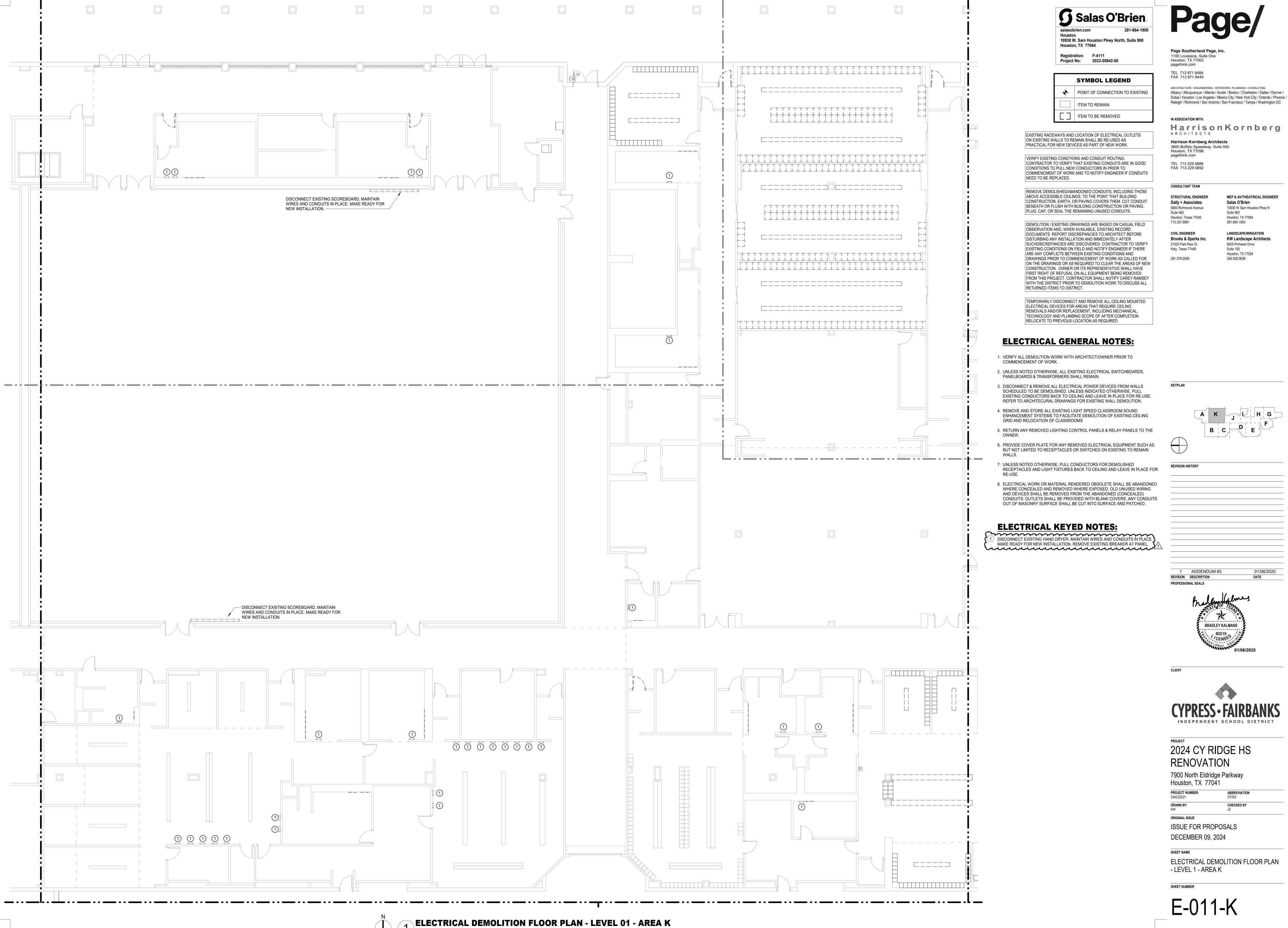
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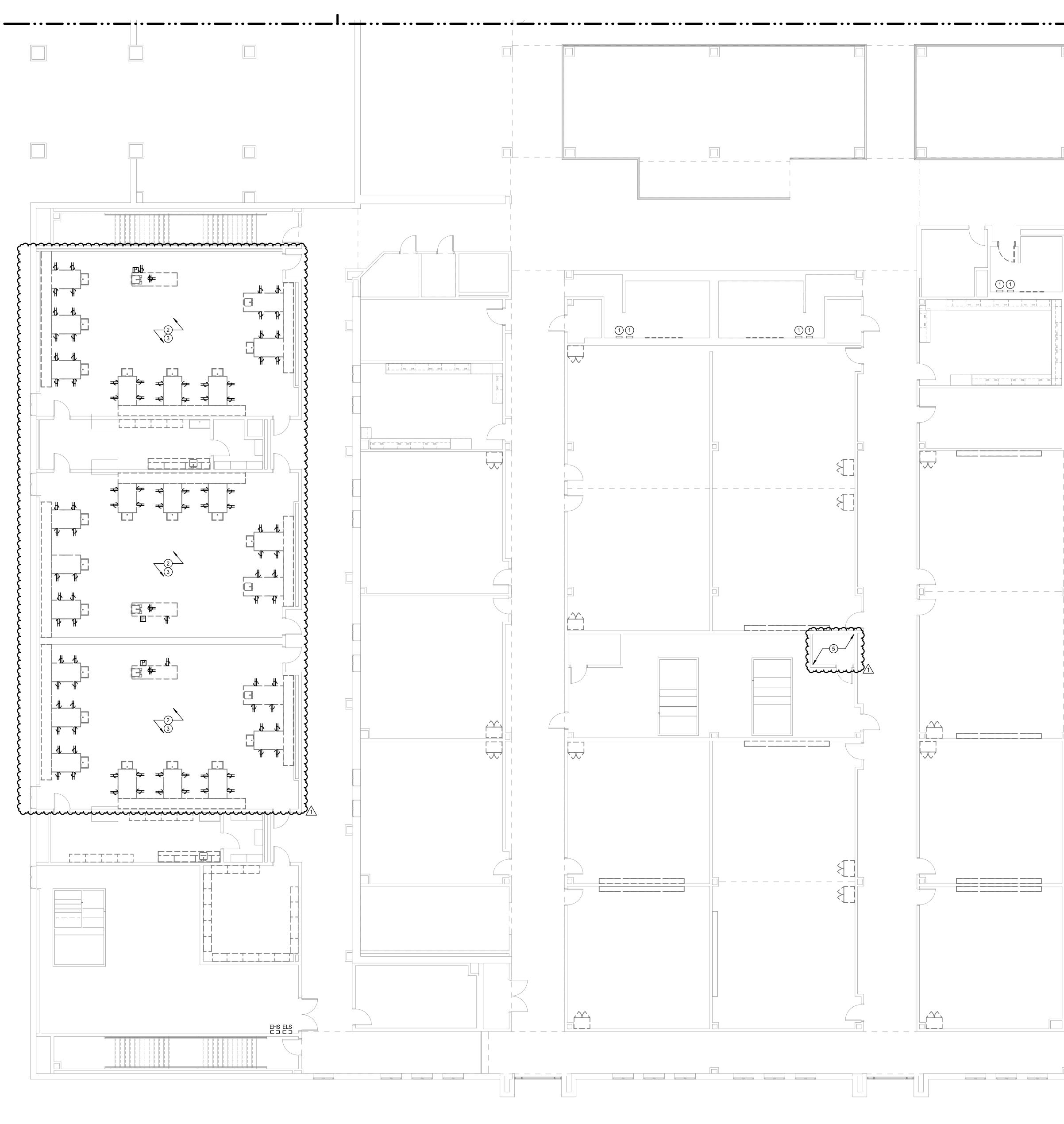
SHEET NUMBER

E-010-J



ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 01 - AREA K Scale: 1/8" = 1'-0"







ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 02 - AREA B Scale: 1/8" = 1'-0"



10930 W. Sam Houston Pkwy North, Suite 900 Houston, TX 77064 Registration: F-4111 Project No: 2023-05942-00

SYMBOL LEGEND
 POINT OF CONNECTION TO EXISTING
ITEM TO REMAIN
ITEM TO BE REMOVED

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

VERIFY EXISTING CONDTIONS AND CONDUIT ROUTING. CONTRACTOR TO VERIFY THAT EXISTING CONDUITS ARE IN GOOD CONDITIONS TO PULL NEW CONDUCTORS IN PRIOR TO COMMENCMENT OF WORK AND TO NOTIFY ENGINEER IF CONDUITS NEED TO BE REPLACED.

REMOVE DEMOLISHED/ABANDONED CONDUITS, INCLUDING THOSE ABOVE ACCESSIBLE CEILINGS, TO THE POINT THAT BUILDING CONSTRUCTION, EARTH, OR PAVING COVERS THEM. CUT CONDUIT BENEATH OR FLUSH WITH BUILDING CONSTRUCTION OR PAVING. PLUG, CAP, OR SEAL THE REMAINING UNUSED CONDUITS.

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND, WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING ANY INSTALLATION AND IMMEDIATELY AFTER SUCHDISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION. OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR SHALL NOTIFY CAREY RAMSEY WITH THE DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.

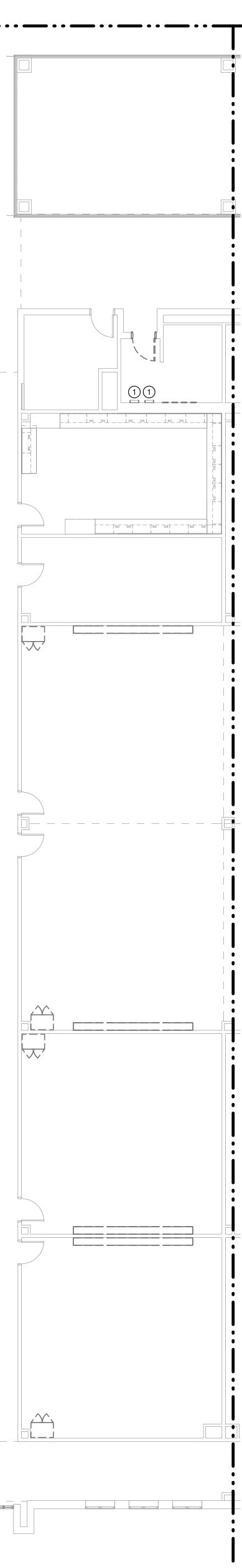
TEMPORARILY DISCONNECT AND REMOVE ALL CEILING MOUNTED ELECTRICAL DEVICES FOR AREAS THAT REQUIRE CEILING REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANICAL, TECHNOLOGY AND PLUMBING SCOPE OF AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

#### **ELECTRICAL GENERAL NOTES:**

- 1. VERIFY ALL DEMOLITION WORK WITH ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF WORK.
- 2. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS & TRANSFORMERS SHALL REMAIN.
- 3. DISCONNECT & REMOVE ALL ELECTRICAL POWER DEVICES FROM WALLS SCHEDULED TO BE DEMOLISHED. UNLESS INDICATED OTHERWISE, PULL EXISTING CONDUCTORS BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE. REFER TO ARCHITECURAL DRAWINGS FOR EXISTING WALL DEMOLITION.
- 4. REMOVE AND STORE ALL EXISTING LIGHT SPEED CLASSROOM SOUND ENHANCEMENT SYSTEMS TO FACILITATE DEMOLITION OF EXISTING CEILING GRID AND RELOCATION OF CLASSROOMS
- 5. RETURN ANY REMOVED LIGHTING CONTROL PANELS & RELAY PANELS TO THE OWNER.
- 6. PROVIDE COVER PLATE FOR ANY REMOVED ELECTRICAL EQUIPMENT SUCH AS BUT NOT LIMITED TO RECEPTACLES OR SWITCHES ON EXISTING TO REMAIN WALLS.
- 7. UNLESS NOTED OTHERWISE, PULL CONDUCTORS FOR DEMOLISHED RECEPTACLES AND LIGHT FIXTURES BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE.
- 8. ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.

#### ᠬ᠇ᠬ᠇ᠬ᠇ᠬ᠇᠇᠇᠇᠇᠇᠇᠇᠇᠇᠇᠇᠇᠇ **ELECTRICAL KEYED NOTES:**

- DISCONNECT EXISTING HAND DRYER. MAINTAIN WIRES AND CONDUITS IN PLACE. MAKE READY FOR NEW INSTALLATION. REMOVE EXISTING BREAKER AT PANEL.
- REMOVE EXISTING CASEWORK RECEPTACLES WITH ASSOCIATED WIRES AND CONDUITS BACK TO THE FLOOR/WALL BOX. LEAVE IN PLACE FOR RECONNECTION OF NEW CASEWORK RECEPTACLES.
- EXISTING WALL RECEPTACLES TO REMAIN. REMOVE FACEPLATES AND MAKE
- SAFE FOR NEW CASEWORK INSTALLATION. REFER TO E-401:2 FOR ADDITIONAL WORK IN THIS ROOM. WWWWWWWWWWWWWWWWWWWWWW





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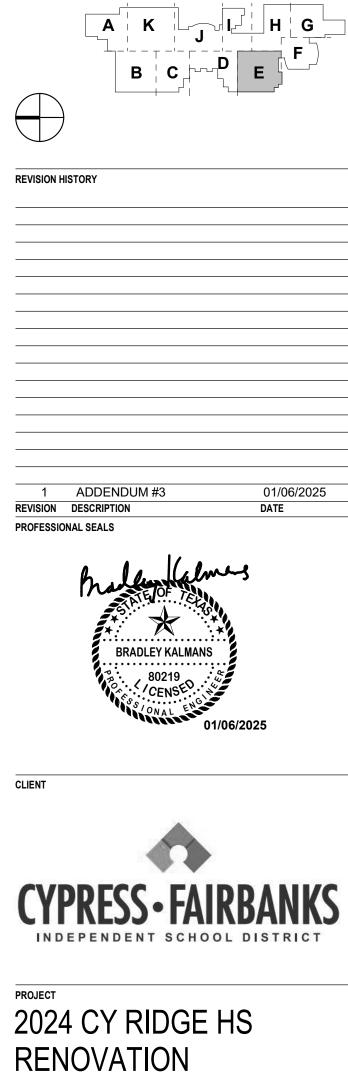
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KEYPLAN



7900 North Eldridge Parkway

Houston, TX 77041

PROJECT NUMBER ABBREVIATIO

33AC23221 CFISD

CHECKED BY JZ

ORIGINAL ISSUE

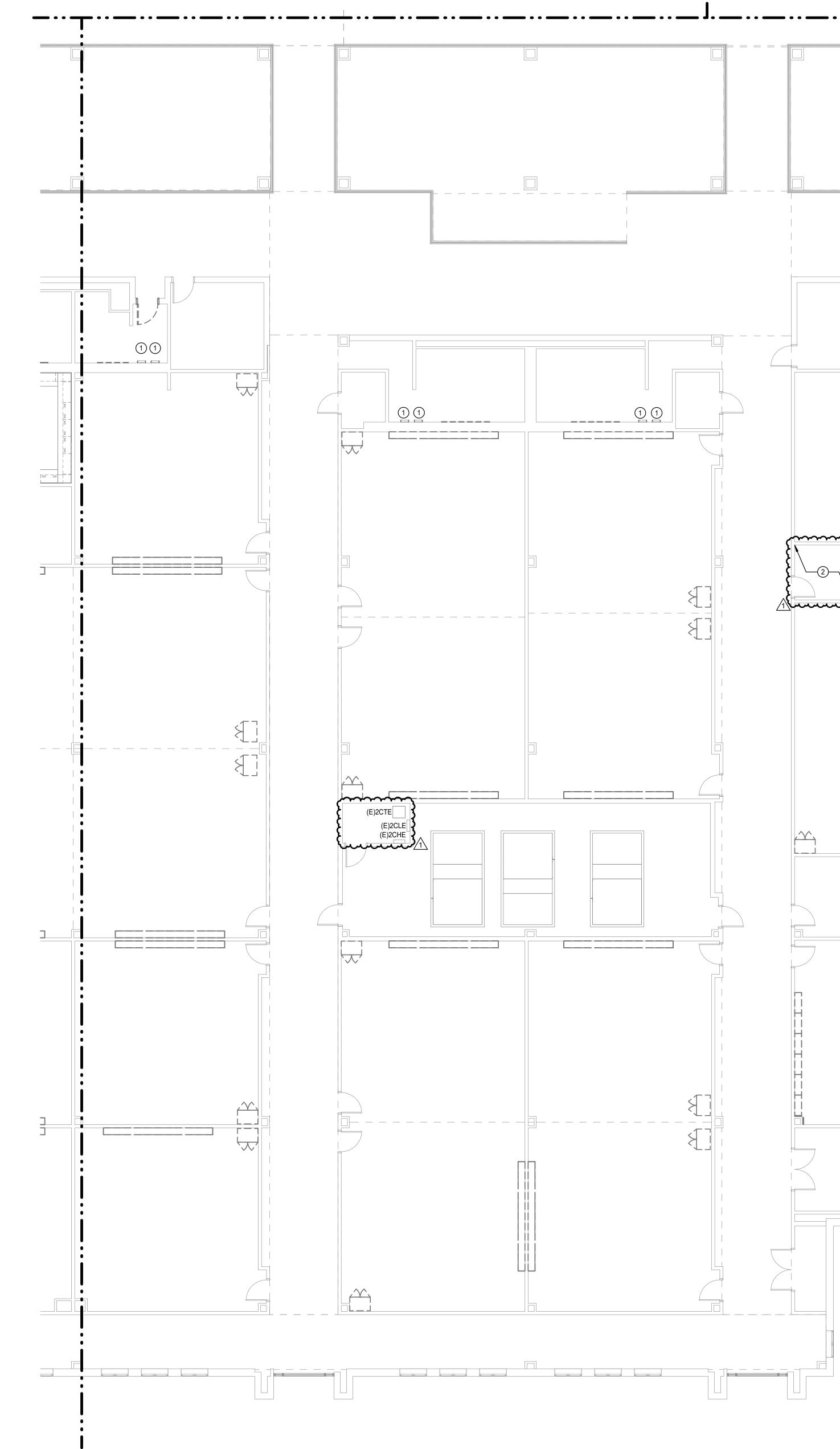
**ISSUE FOR PROPOSALS** 

DECEMBER 09, 2024

SHEET NAME

ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 2 - AREA B





1 ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 02 - AREA C Scale: 1/8" = 1'-0" 

		<b>Salas O'Brien</b>
• • •		salasobrien.com 281-664-1900 Houston 10930 W. Sam Houston Pkwy North, Suite 900 Houston, TX 77064 Registration: F-4111 Project No: 2023-05942-00
		SYMBOL LEGEND         Image: Point of connection to existing         Image: Item to remain         Image: Item to be removed
		EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.
		VERIFY EXISTING CONDTIONS AND CONDUIT ROUTING. CONTRACTOR TO VERIFY THAT EXISTING CONDUITS ARE IN GOOD CONDITIONS TO PULL NEW CONDUCTORS IN PRIOR TO COMMENCMENT OF WORK AND TO NOTIFY ENGINEER IF CONDUITS NEED TO BE REPLACED.
		REMOVE DEMOLISHED/ABANDONED CONDUITS, INCLUDING THOSE ABOVE ACCESSIBLE CEILINGS, TO THE POINT THAT BUILDING CONSTRUCTION, EARTH, OR PAVING COVERS THEM. CUT CONDUIT BENEATH OR FLUSH WITH BUILDING CONSTRUCTION OR PAVING. PLUG, CAP, OR SEAL THE REMAINING UNUSED CONDUITS.
		DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND, WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING ANY INSTALLATION AND IMMEDIATELY AFTER SUCHDISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION. OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED
		FROM THIS PROJECT. CONTRACTOR SHALL NOTIFY CAREY RAMSEY WITH THE DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT. TEMPORARILY DISCONNECT AND REMOVE ALL CEILING MOUNTED ELECTRICAL DEVICES FOR AREAS THAT REQUIRE CEILING REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANICAL, TECHNOLOGY AND PLUMBING SCOPE OF AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.
~		<b>ELECTRICAL GENERAL NOTES:</b>
		<ol> <li>VERIFY ALL DEMOLITION WORK WITH ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF WORK.</li> <li>UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS &amp; TRANSFORMERS SHALL REMAIN.</li> <li>DISCONNECT &amp; REMOVE ALL ELECTRICAL POWER DEVICES FROM WALLS SCHEDULED TO BE DEMOLISHED. UNLESS INDICATED OTHERWISE, PULL EXISTING CONDUCTORS BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE. REFER TO ARCHITECURAL DRAWINGS FOR EXISTING WALL DEMOLITION.</li> <li>REMOVE AND STORE ALL EXISTING LIGHT SPEED CLASSROOM SOUND ENHANCEMENT SYSTEMS TO FACILITATE DEMOLITION OF EXISTING CEILING GRID AND RELOCATION OF CLASSROOMS</li> <li>RETURN ANY REMOVED LIGHTING CONTROL PANELS &amp; RELAY PANELS TO THE OWNER.</li> <li>PROVIDE COVER PLATE FOR ANY REMOVED ELECTRICAL EQUIPMENT SUCH AS BUT NOT LIMITED TO RECEPTACLES OR SWITCHES ON EXISTING TO REMAIN WALLS.</li> </ol>
		<ol> <li>UNLESS NOTED OTHERWISE, PULL CONDUCTORS FOR DEMOLISHED RECEPTACLES AND LIGHT FIXTURES BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE.</li> <li>ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.</li> </ol>
		<ul> <li>DISCONNECT EXISTING HAND DRYER. MAINTAIN WIRES AND CONDUITS IN PLAC MAKE READY FOR NEW INSTALLATION. REMOVE EXISTING BREAKER AT PANEL.</li> <li>REFER TO E-401:3 FOR ADDITIONAL WORK IN THIS ROOM.</li> </ul>



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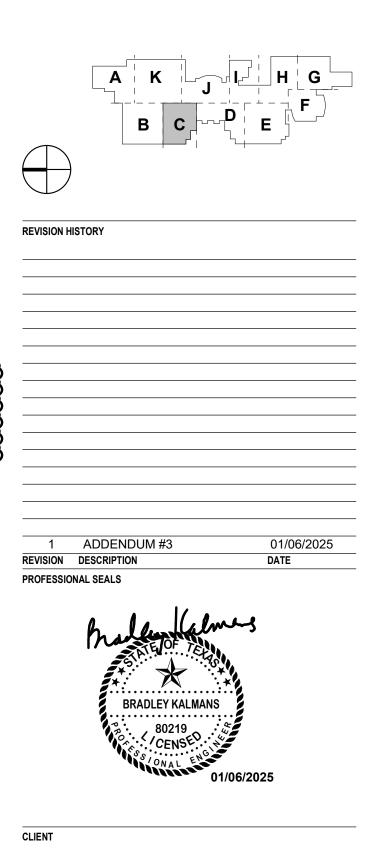
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KEYPLAN



CYPRESS • FAIRBANKS

## PROJECT 2024 CY RIDGE HS RENOVATION

7900 North Eldridge Parkway Houston, TX 77041

PROJECT NUMBER

ABBREVIATION CFISD 33AC23221

DRAWN BY CHECKED BY AW JZ

ORIGINAL ISSUE

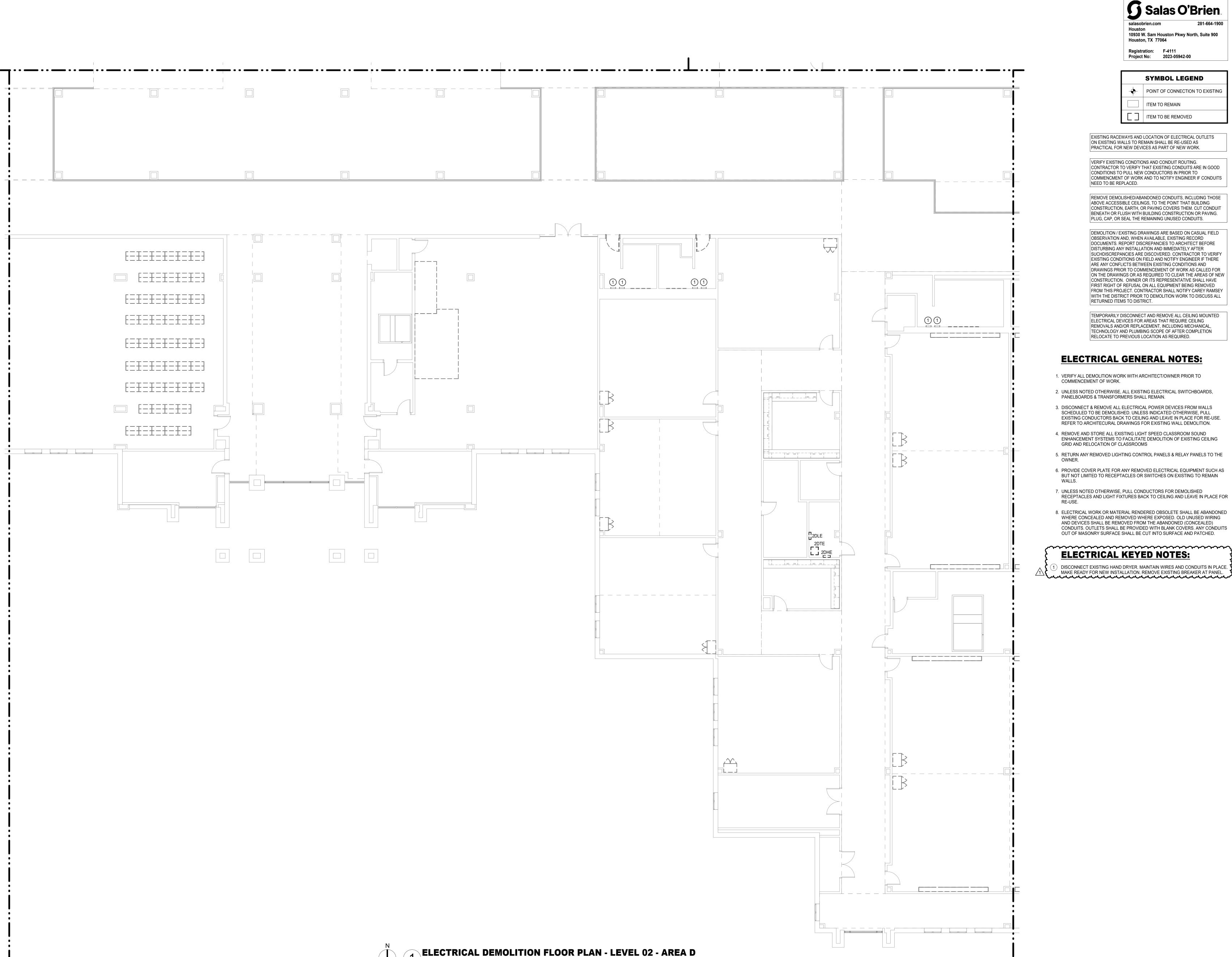
ISSUE FOR PROPOSALS

DECEMBER 09, 2024

SHEET NAME

ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 2 - AREA C







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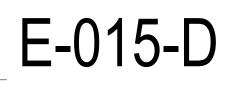
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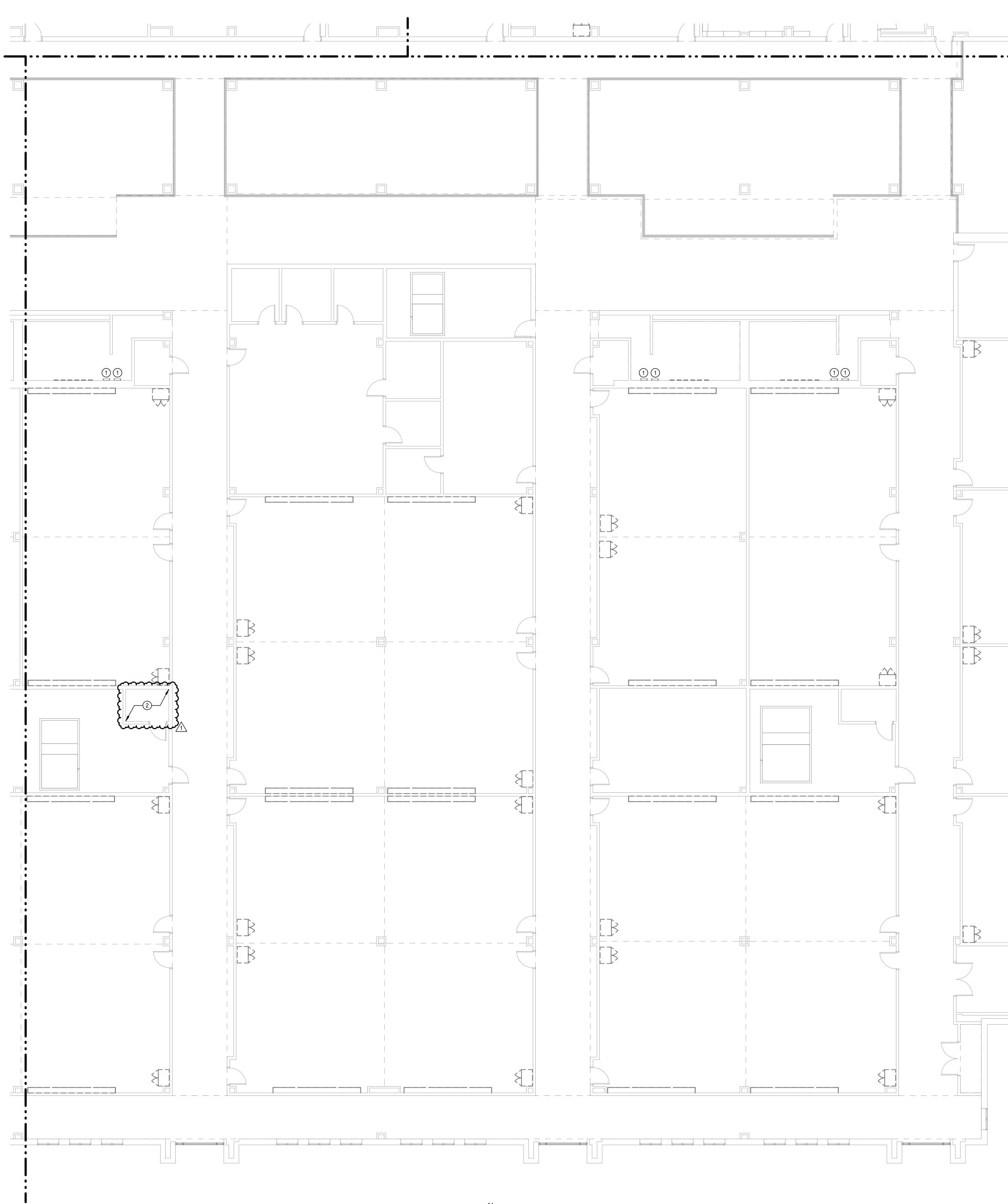
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**REVISION HISTORY** 1 ADDENDUM #3 01/06/2025 REVISION DESCRIPTION DATE PROFESSIONAL SEALS **BRADI FY KAI MAN** CLIENT **CYPRESS • FAIRBANKS** INDEPENDENT SCHOOL DISTRICT PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATIO 33AC23221 CFISD CHECKED BY DRAWN B JZ ORIGINAL ISSUE **ISSUE FOR PROPOSALS** DECEMBER 09, 2024 SHEET NAME ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 2 - AREA D





1 ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 02 - AREA E Scale: 1/8" = 1'-0"

				<b>G</b> Salas O'Bri	en,
• • • • • • • • • • • • • • • • • • • •	•• ••	 • • 		Houston 10930 W. Sam Houston Pkwy North, Sui Houston, TX 77064 Registration: F-4111	664-1900 te 900
		:		Project No: 2023-05942-00	
				SYMBOL LEGEND         POINT OF CONNECTION TO EX         ITEM TO REMAIN         ITEM TO BE REMOVED	KISTING
_		İ	 ON EXISTING W	EWAYS AND LOCATION OF ELECTRICAL OUTL ALLS TO REMAIN SHALL BE RE-USED AS R NEW DEVICES AS PART OF NEW WORK.	ETS
			CONTRACTOR CONDITIONS TO	IG CONDTIONS AND CONDUIT ROUTING. TO VERIFY THAT EXISTING CONDUITS ARE IN D PULL NEW CONDUCTORS IN PRIOR TO IT OF WORK AND TO NOTIFY ENGINEER IF CO EPLACED.	
		   	ABOVE ACCESS CONSTRUCTION BENEATH OR FI	DLISHED/ABANDONED CONDUITS, INCLUDING SIBLE CEILINGS, TO THE POINT THAT BUILDIN N, EARTH, OR PAVING COVERS THEM. CUT C LUSH WITH BUILDING CONSTRUCTION OR PA SEAL THE REMAINING UNUSED CONDUITS.	ig Onduit
			OBSERVATION DOCUMENTS. R DISTURBING AN SUCHDISCREP/ EXISTING CONE ARE ANY CONF DRAWINGS PRI ON THE DRAWI CONSTRUCTION FIRST RIGHT OF FROM THIS PRO WITH THE DIST	EXISTING DRAWINGS ARE BASED ON CASUAL AND, WHEN AVAILABLE, EXISTING RECORD REPORT DISCREPANCIES TO ARCHITECT BEF YI INSTALLATION AND IMMEDIATELY AFTER ANCIES ARE DISCOVERED. CONTRACTOR TO DITIONS ON FIELD AND NOTIFY ENGINEER IF 'LICTS BETWEEN EXISTING CONDITIONS AND OR TO COMMENCEMENT OF WORK AS CALL NGS OR AS REQUIRED TO CLEAR THE AREAS N. OWNER OR ITS REPRESENTATIVE SHALL F REFUSAL ON ALL EQUIPMENT BEING REMO DJECT. CONTRACTOR SHALL NOTIFY CAREY RICT PRIOR TO DEMOLITION WORK TO DISCU MS TO DISTRICT.	FORE ) VERIFY THERE ) ED FOR S OF NEW HAVE )VED RAMSEY
		L	TEMPORARILY I ELECTRICAL DE REMOVALS AND TECHNOLOGY A	DISCONNECT AND REMOVE ALL CEILING MO EVICES FOR AREAS THAT REQUIRE CEILING D/OR REPLACEMENT, INCLUDING MECHANIC, AND PLUMBING SCOPE OF AFTER COMPLETI	AL,
			<ul> <li>ELECTRICAL</li> <li>VERIFY ALL DEMOLITION W COMMENCEMENT OF WOR</li> <li>UNLESS NOTED OTHERWIN PANELBOARDS &amp; TRANSFOR</li> <li>DISCONNECT &amp; REMOVE A SCHEDULED TO BE DEMON EXISTING CONDUCTORS B REFER TO ARCHITECURAL</li> <li>REMOVE AND STORE ALL M ENHANCEMENT SYSTEMS GRID AND RELOCATION OF</li> <li>RETURN ANY REMOVED LIN OWNER.</li> <li>PROVIDE COVER PLATE FOR BUT NOT LIMITED TO RECENTANCE</li> <li>PROVIDE COVER PLATE FOR BUT NOT LIMITED TO RECENTANCE</li> <li>ELECTRICAL WORK OR MA WHERE CONCEALED AND AND DEVICES SHALL BE R CONDUITS. OUTLETS SHALL OUT OF MASONRY SURFACE</li> </ul>	SE, ALL EXISTING ELECTRICAL SWITCHBO ORMERS SHALL REMAIN. ALL ELECTRICAL POWER DEVICES FROM V LISHED. UNLESS INDICATED OTHERWISE, BACK TO CEILING AND LEAVE IN PLACE FO DRAWINGS FOR EXISTING WALL DEMOLI EXISTING LIGHT SPEED CLASSROOM SOU TO FACILITATE DEMOLITION OF EXISTING	- ARDS, VALLS PULL R RE-USE TION. ND CEILING ELS TO TH NT SUCH / NT SUCH / N PLACE ABANDOI ED WIRING EALED) NY CONDU TCHED.
			MAKE READY FOR NEW IN: 2 REFER TO E-401:5 FOR ADI	AND DRYER. MAINTAIN WIRES AND CONDU STALLATION. REMOVE EXISTING BREAKER DITIONAL WORK IN THIS ROOM.	
		•			



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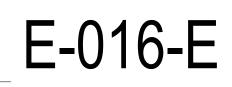
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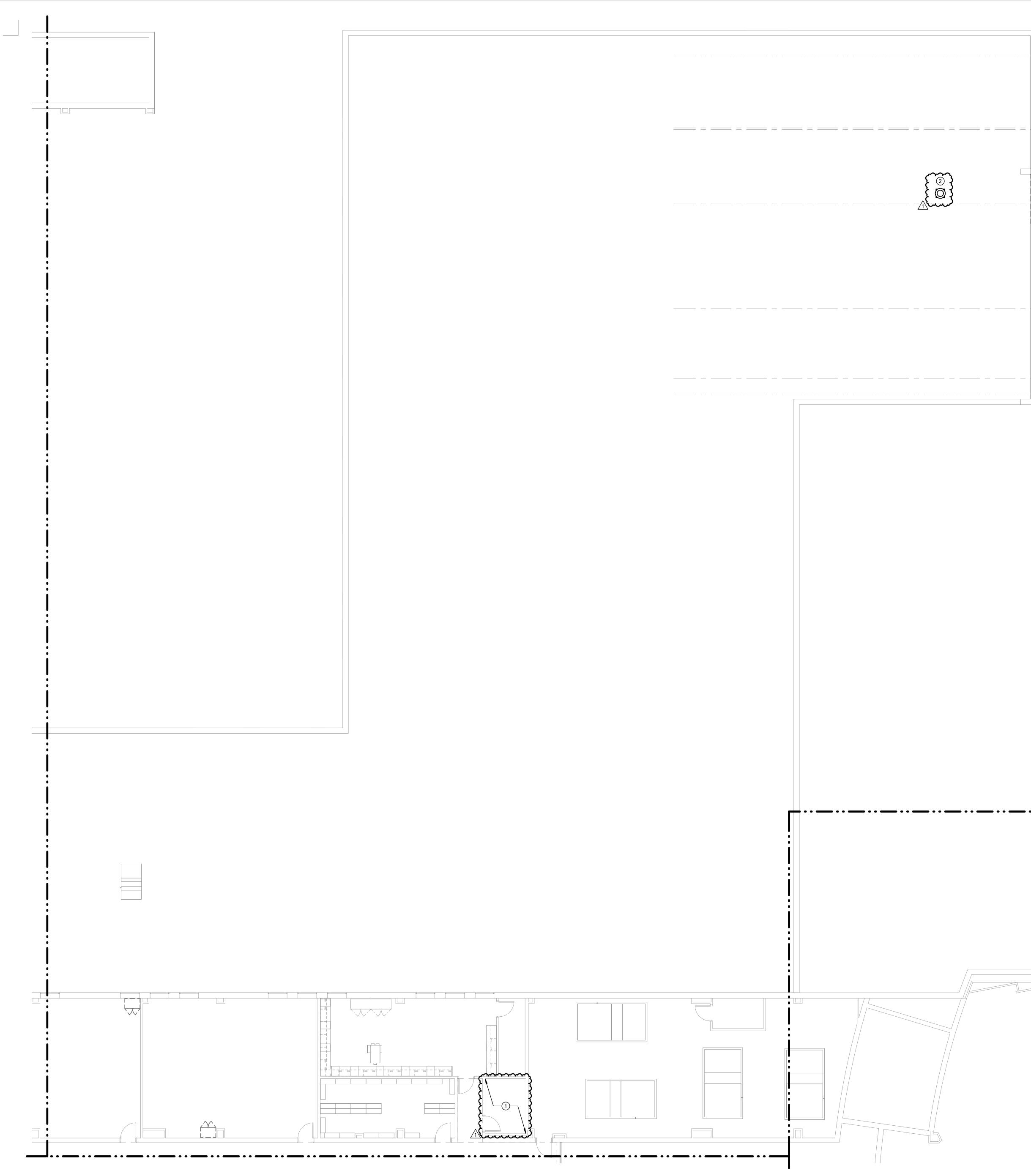
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KEYPLAN  $\square$ I AS **REVISION HISTORY** FOR LACE. 1 ADDENDUM #3 REVISION DESCRIPTION 01/06/2025 DATE PROFESSIONAL SEALS **BRADLEY KALMAN CLIENT CYPRESS • FAIRBANKS** INDEPENDENT SCHOOL DISTRICT PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATIO 33AC23221 CFISD CHECKED BY DRAWN B JZ ORIGINAL ISSUE ISSUE FOR PROPOSALS DECEMBER 09, 2024 SHEET NAME ELECTRICAL DEMOLITION FLOOR PLAN



- LEVEL 2 - AREA E





## 1 ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 02 - AREA H Scale: 1/8" = 1'-0"

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	Registration: F-4111 Project No: 2023-05942-00
Ē	SYMBOL LEGEND
G	EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.
	VERIFY EXISTING CONDTIONS AND CONDUIT ROUTING. CONTRACTOR TO VERIFY THAT EXISTING CONDUITS ARE IN GOOD CONDITIONS TO PULL NEW CONDUCTORS IN PRIOR TO COMMENCMENT OF WORK AND TO NOTIFY ENGINEER IF CONDUITS NEED TO BE REPLACED.
	REMOVE DEMOLISHED/ABANDONED CONDUITS, INCLUDING THOSE ABOVE ACCESSIBLE CEILINGS, TO THE POINT THAT BUILDING CONSTRUCTION, EARTH, OR PAVING COVERS THEM. CUT CONDUIT BENEATH OR FLUSH WITH BUILDING CONSTRUCTION OR PAVING. PLUG, CAP, OR SEAL THE REMAINING UNUSED CONDUITS.
	DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND, WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING ANY INSTALLATION AND IMMEDIATELY AFTER SUCHDISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION. OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR SHALL NOTIFY CAREY RAMSEY WITH THE DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL
M	RETURNED ITEMS TO DISTRICT. TEMPORARILY DISCONNECT AND REMOVE ALL CEILING MOUNTED ELECTRICAL DEVICES FOR AREAS THAT REQUIRE CEILING REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANICAL, TECHNOLOGY AND PLUMBING SCOPE OF AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.
	<b>ELECTRICAL GENERAL NOTES:</b>
	1. VERIFY ALL DEMOLITION WORK WITH ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF WORK.
	2. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL SWITCHBOARDS, PANELBOARDS & TRANSFORMERS SHALL REMAIN.
	<ol> <li>DISCONNECT &amp; REMOVE ALL ELECTRICAL POWER DEVICES FROM WALLS SCHEDULED TO BE DEMOLISHED. UNLESS INDICATED OTHERWISE, PULL EXISTING CONDUCTORS BACK TO CEILING AND LEAVE IN PLACE FOR RE-USE. REFER TO ARCHITECURAL DRAWINGS FOR EXISTING WALL DEMOLITION.</li> </ol>
	4. REMOVE AND STORE ALL EXISTING LIGHT SPEED CLASSROOM SOUND ENHANCEMENT SYSTEMS TO FACILITATE DEMOLITION OF EXISTING CEILING GRID AND RELOCATION OF CLASSROOMS
	5. RETURN ANY REMOVED LIGHTING CONTROL PANELS & RELAY PANELS TO THE OWNER.
	6. PROVIDE COVER PLATE FOR ANY REMOVED ELECTRICAL EQUIPMENT SUCH AS BUT NOT LIMITED TO RECEPTACLES OR SWITCHES ON EXISTING TO REMAIN WALLS.
	7. UNLESS NOTED OTHERWISE, PULL CONDUCTORS FOR DEMOLISHED RECEPTACLES AND LIGHT FIXTURES BACK TO CEILING AND LEAVE IN PLACE FO RE-USE.
	8. ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONE WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED)

REFER TO E-401:6 FOR ADDITIONAL WORK IN THIS ROOM. 2 EXISTING MECHANICAL EQUIPMENT TO BE REMOVED/REPLACED. REMOVE RELATED DISCONNECT/CONTROLLER. REMOVE ALL CONDUITS AND WIRES BACK TO THE SOURCE. COORDINATE SCOPE OF WORK WITH DIVISION 23 BEFORE INITIATING WORK.

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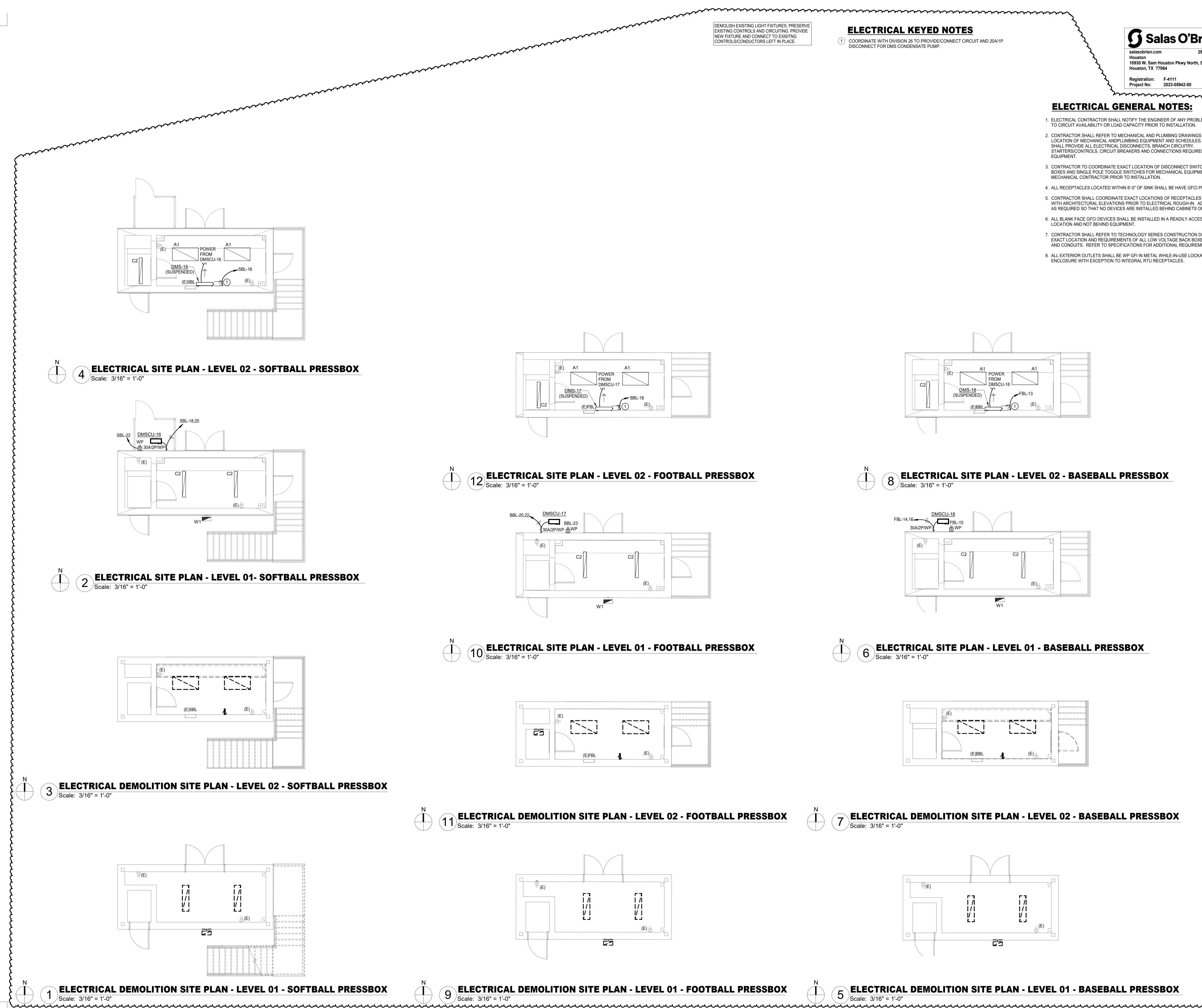
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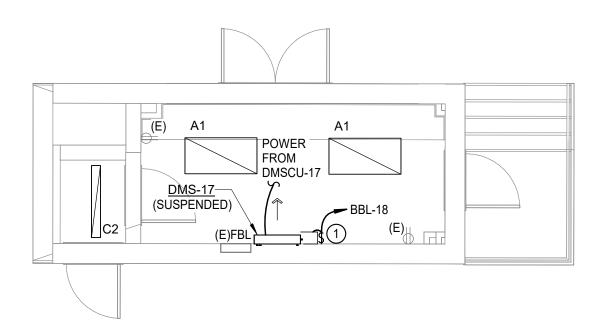
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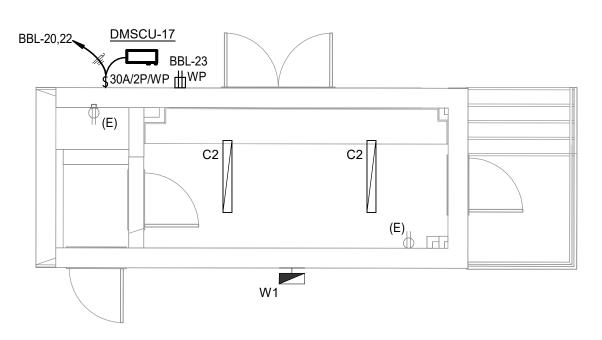
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E-019-H

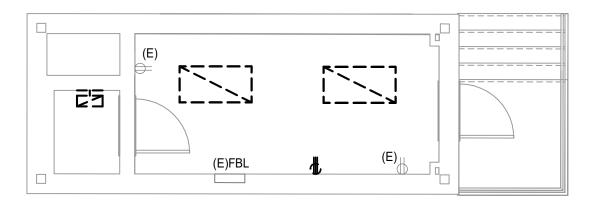




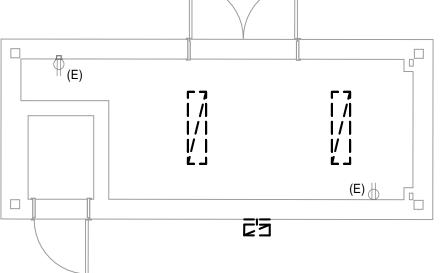




# 10 ELECTRICAL SITE PLAN - LEVEL 01 - FOOTBALL PRESSBOX Scale: 3/16" = 1'-0"







ELECTRICAL DEMOLITION SITE PLAN - LEVEL 01 - FOOTBALL PRESSBOX 9) **ELLE** .... Scale: 3/16" = 1'-0"

### **ELECTRICAL KEYED NOTES**

#### COORDINATE WITH DIVISION 26 TO PROVIDE/CONNECT CIRCUIT AND 20A/1P DISCONNECT FOR DMS CONDENSATE PUMP.

#### **Salas O'Brien** 281-664-1900 salasobrien.com Houston

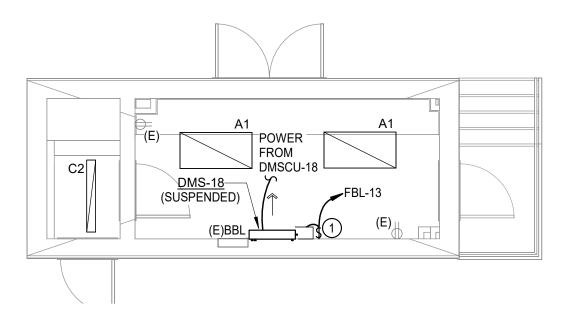
10930 W. Sam Houston Pkwy North, Suite 900 Houston, TX 77064 Registration: F-4111 Project No: 2023-05942-00

#### **ELECTRICAL GENERAL NOTES:**

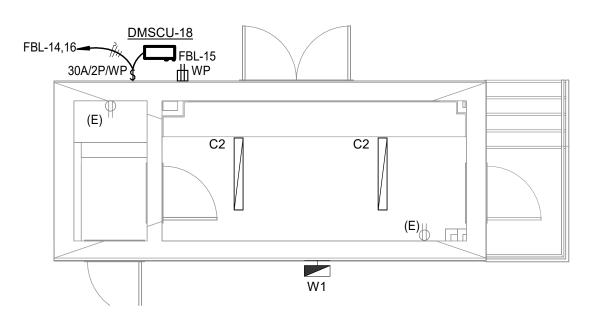
1. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.

EQUIPMENT.

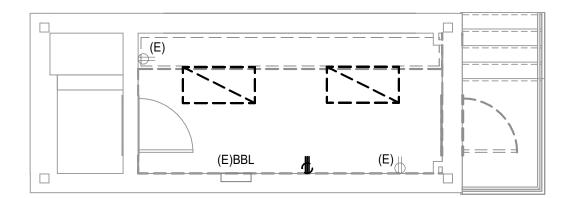
- 2. CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF MECHANICAL ANDPLUMBING EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER
- 3. CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- 4. ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE HAVE GFCI PROTECTION. 5. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
- 6. ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT.
- 7. CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 8. ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN-USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.



# 8 ELECTRICAL SITE PLAN - LEVEL 02 - BASEBALL PRESSBOX Scale: 3/16" = 1'-0"



# 6 ELECTRICAL SITE PLAN - LEVEL 01 - BASEBALL PRESSBOX Scale: 3/16" = 1'-0"



#### 7 ELECTRICAL DEMOLITION SITE PLAN - LEVEL 02 - BASEBALL PRESSBOX Scale: 3/16" = 1'-0" **⊕**(E) **F7 Г7** 1/1 1/1 |/ |

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5 ELECTRICAL DEMOLITION SITE PLAN - LEVEL 01 - BASEBALL PRESSBOX Scale: 3/16" = 1'-0"

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**REVISION HISTORY** 

1 ADDENDUM #3 REVISION DESCRIPTION ROFESSIONAL SEALS



01/06/2025 DATE

CLIENT



#### PROJECT 2024 CY RIDGE HS RENOVATION

7900 North Eldridge Parkway Houston, TX 77041

PROJECT NUMBER ABBREVIATIO 33AC23221 CFISD

CHECKED BY DRAWN JZ

ORIGINAL ISSUE **ISSUE FOR PROPOSALS** 

DECEMBER 09, 2024

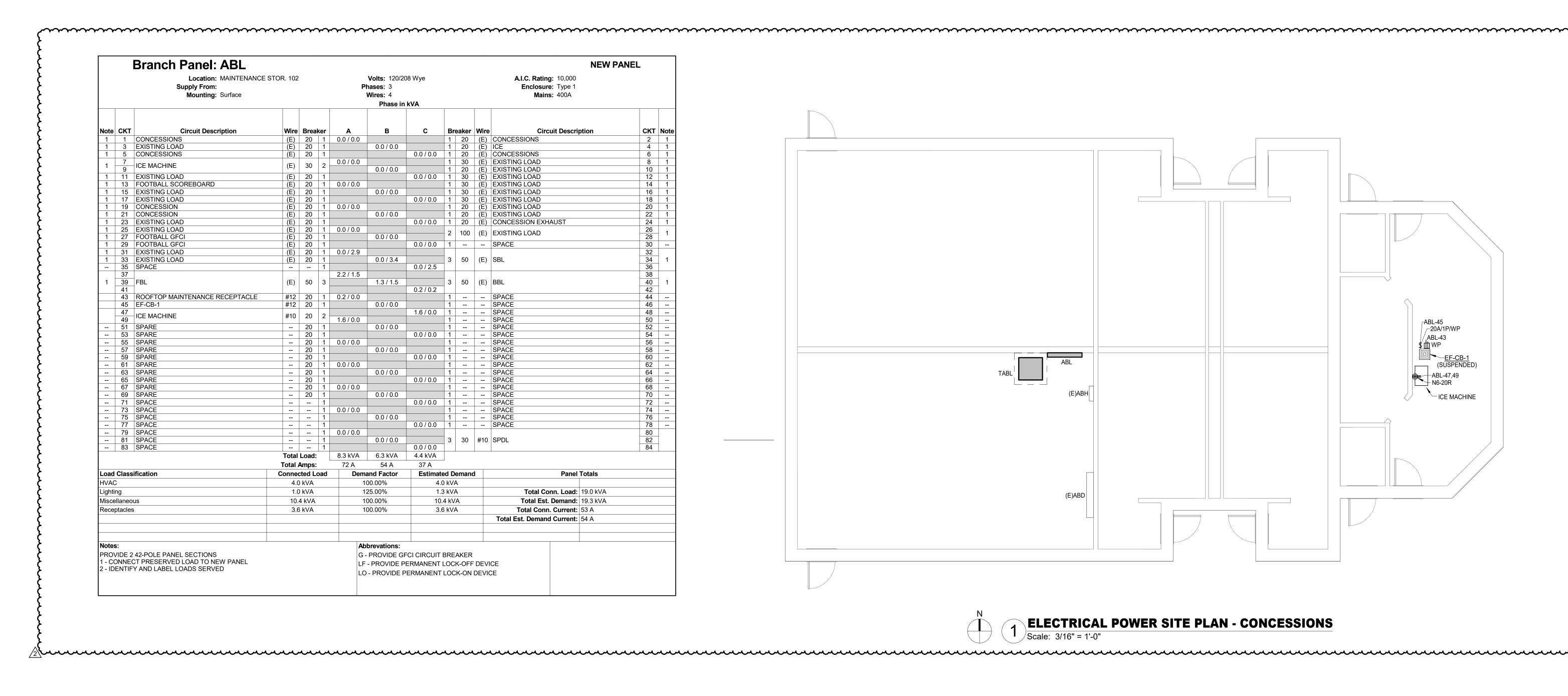
SHEET NAME ELECTRICAL ENLARGED FLOOR PLANS

SHEET NUMBER

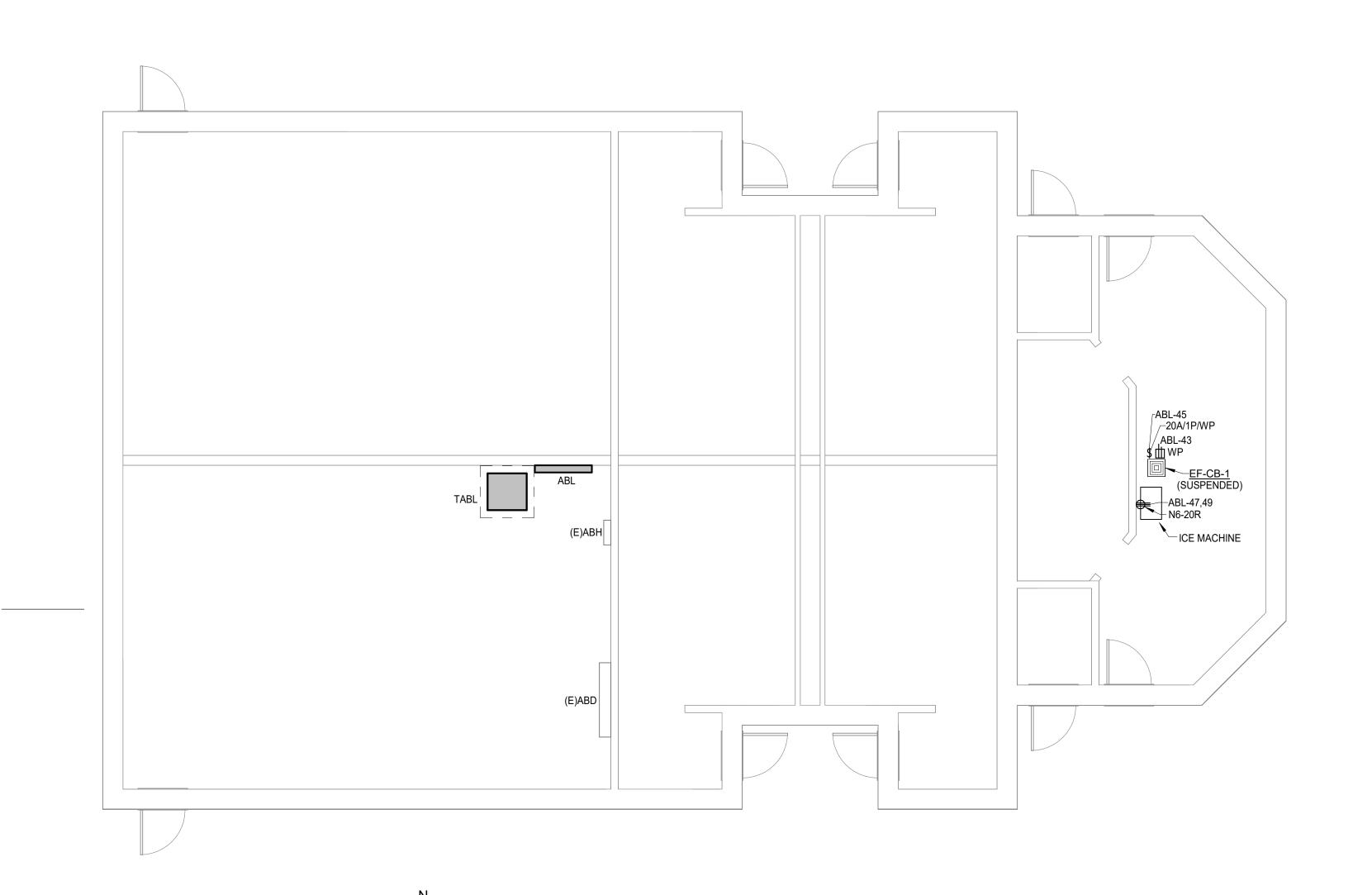
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- PRESSBOXES

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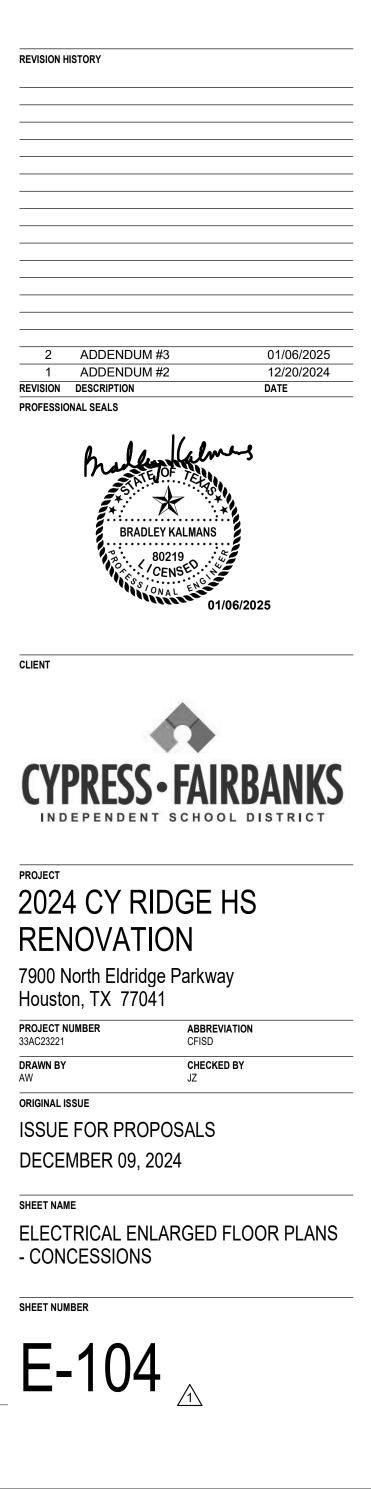
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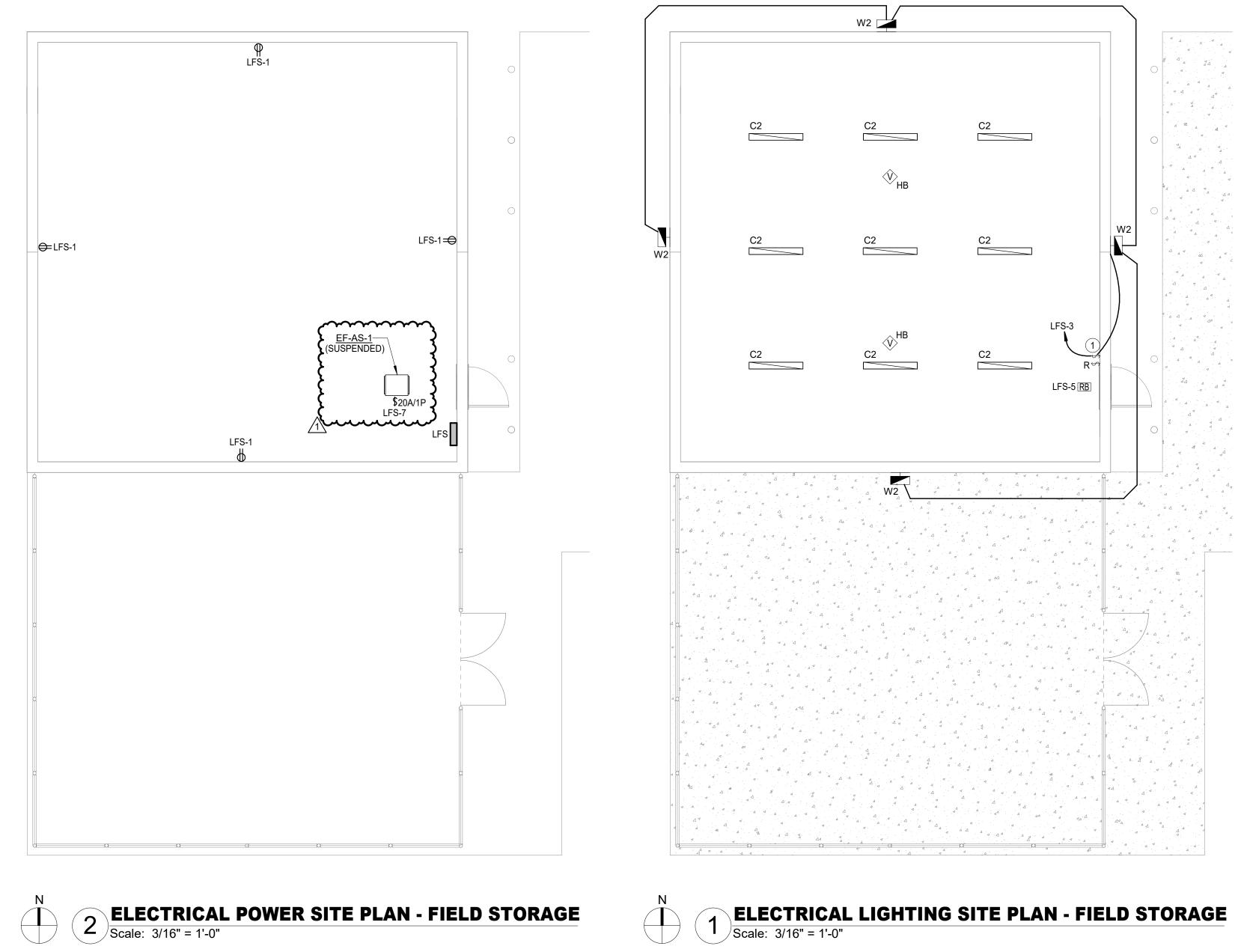
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# ELECTRICAL KEYED NOTES

1 PROVIDE INTERMATIC EI600XX TIME SWITCH AND CONTROL PHOTOCELL OUTSIDE FOR CIRCUIT.



ELECTRICAL LIGHTING SITE PLAN - FIELD STORAGE Scale: 3/16" = 1'-0"



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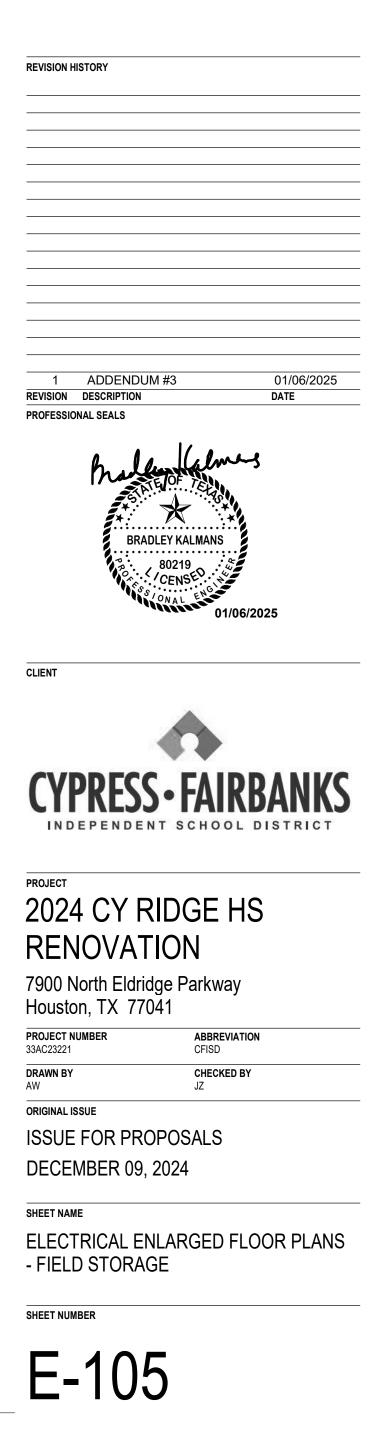
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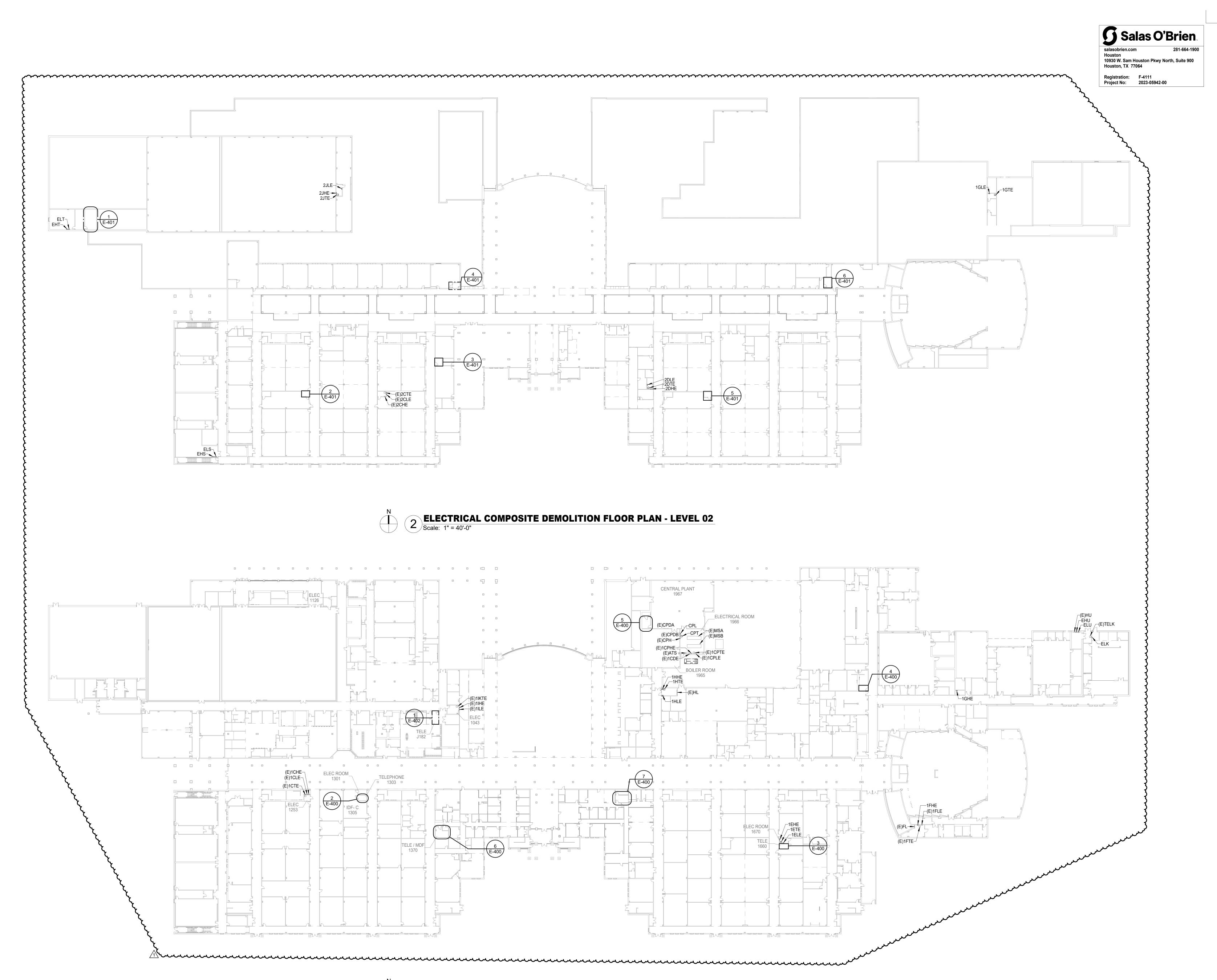
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ELECTRICAL COMPOSITE DEMOLITION FLOOR PLAN - LEVEL 01 Scale: 1" = 40'-0"



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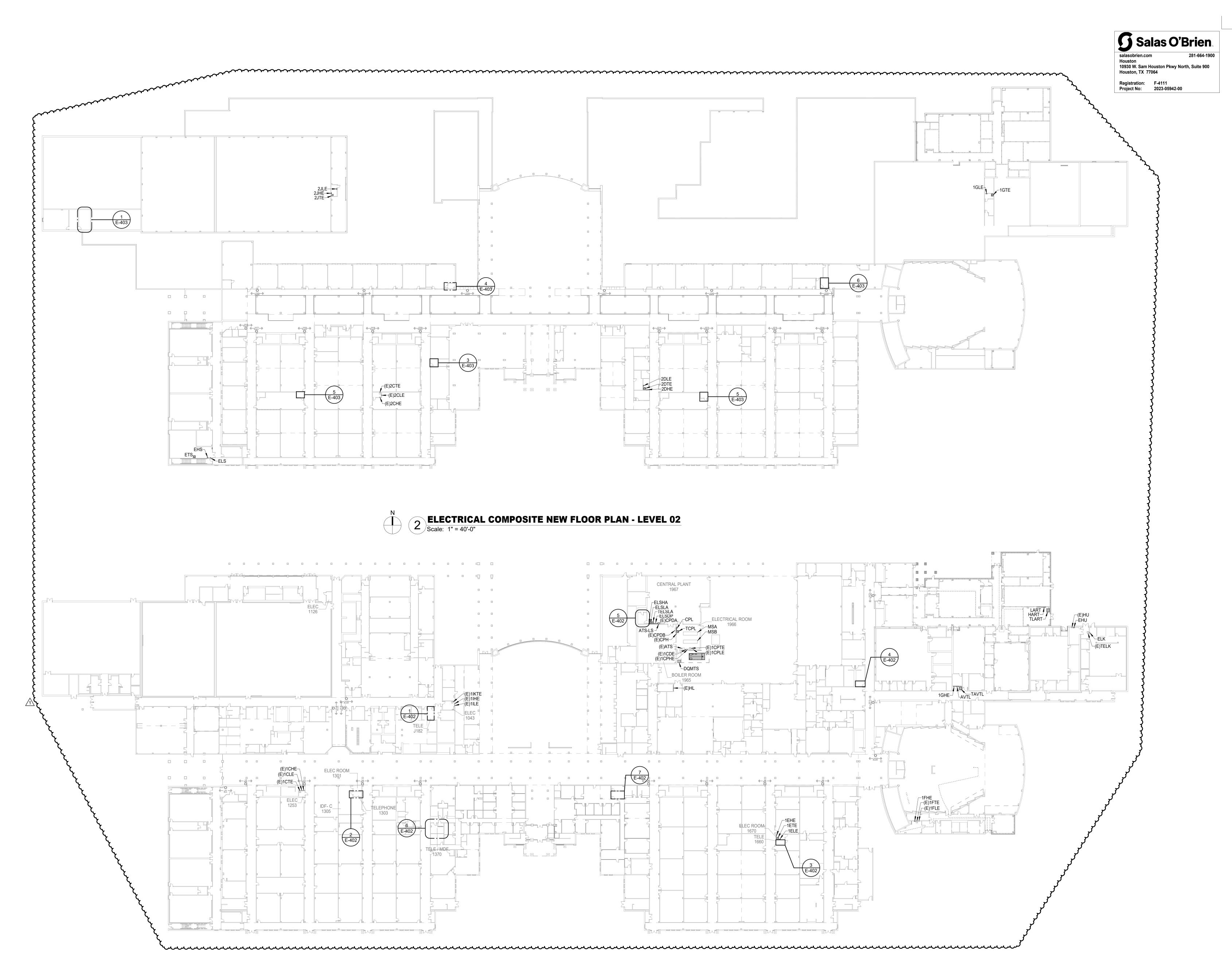
SHEET NAME

FLOOR PLANS

E-106

SHEET NUMBER

ELECTRICAL DEMOLITION COMPOSITE



 N
 ELECTRICAL COMPOSITE NEW FLOOR PLAN - LEVEL 01

 Scale: 1" = 40'-0"



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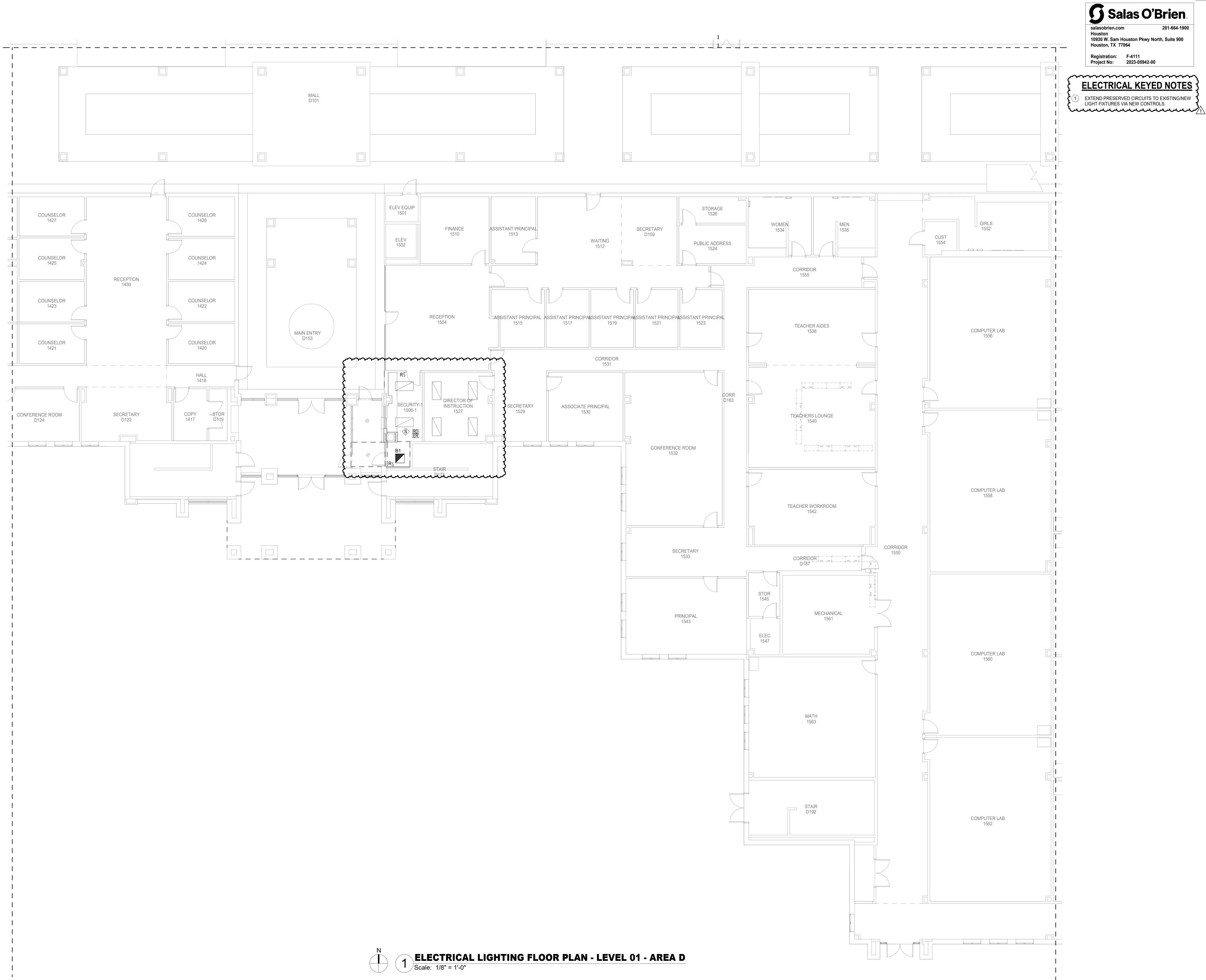
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ELECTRICAL NEW COMPOSITE FLOOR

PLANS

SHEET NUMBER

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KEYPLAN AK **REVISION HISTORY** 1 ADDENDUM #3 REVISION DESCRIPTION 01/06/2025 DATE PROFESSIONAL SEALS BRADLEY KALMAN 80219 CLIENT **CYPRESS • FAIRBANKS** INDEPENDENT SCHOOL DISTRICT PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION 33AC23221 CFISD DRAWN BY CHECKED BY AW JZ ORIGINAL ISSUE ISSUE FOR PROPOSALS DECEMBER 09, 2024

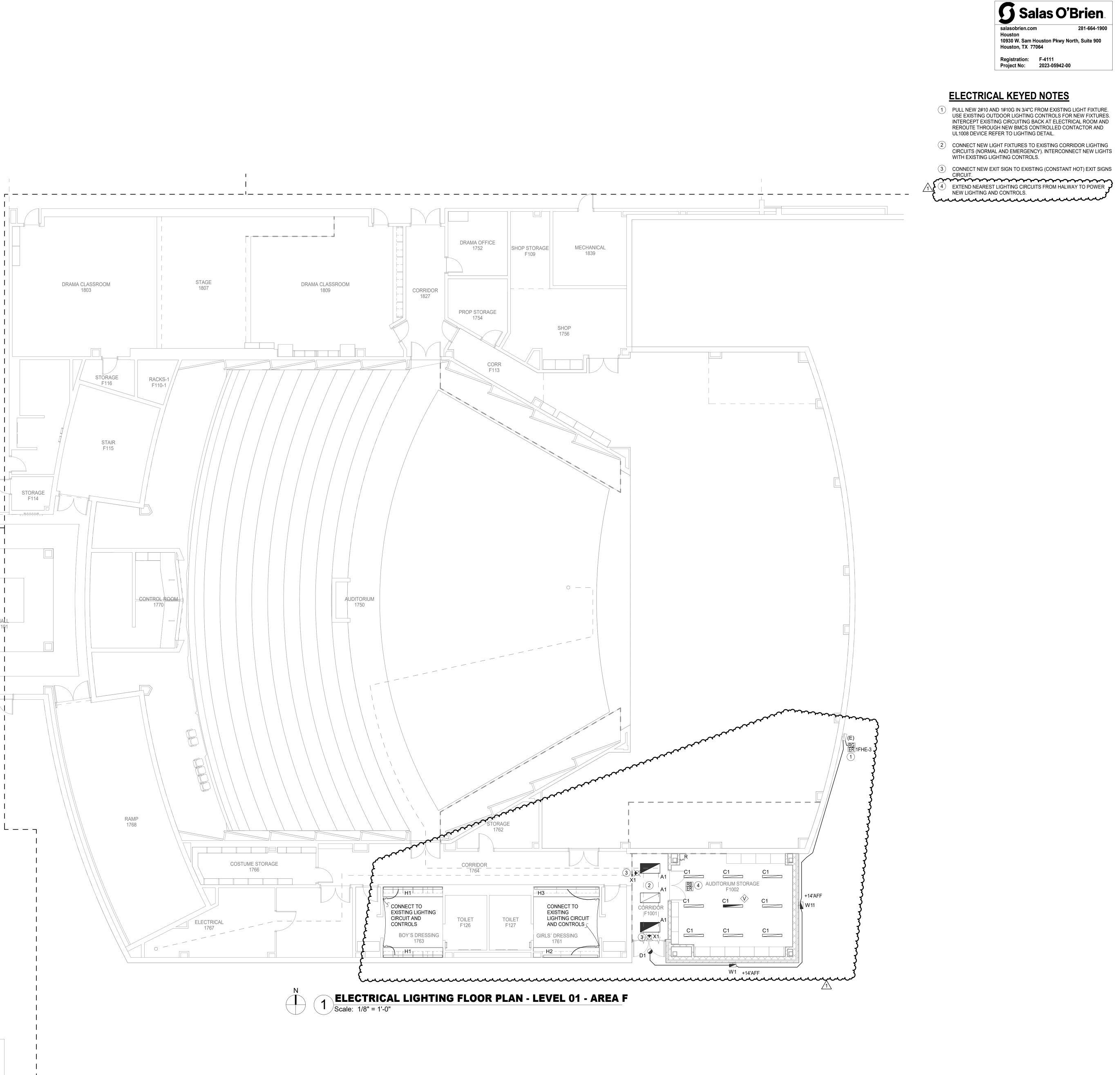
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SHEET NUMBER

LEVEL 1 - AREA D

E-201-D

ELECTRICAL LIGHTING FLOOR PLAN -





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CIVIL ENGINEER Brooks & Sparks Inc. 21020 Park Row Dr. Katy, Texas 77449 281.578.9595

KEYPLAN

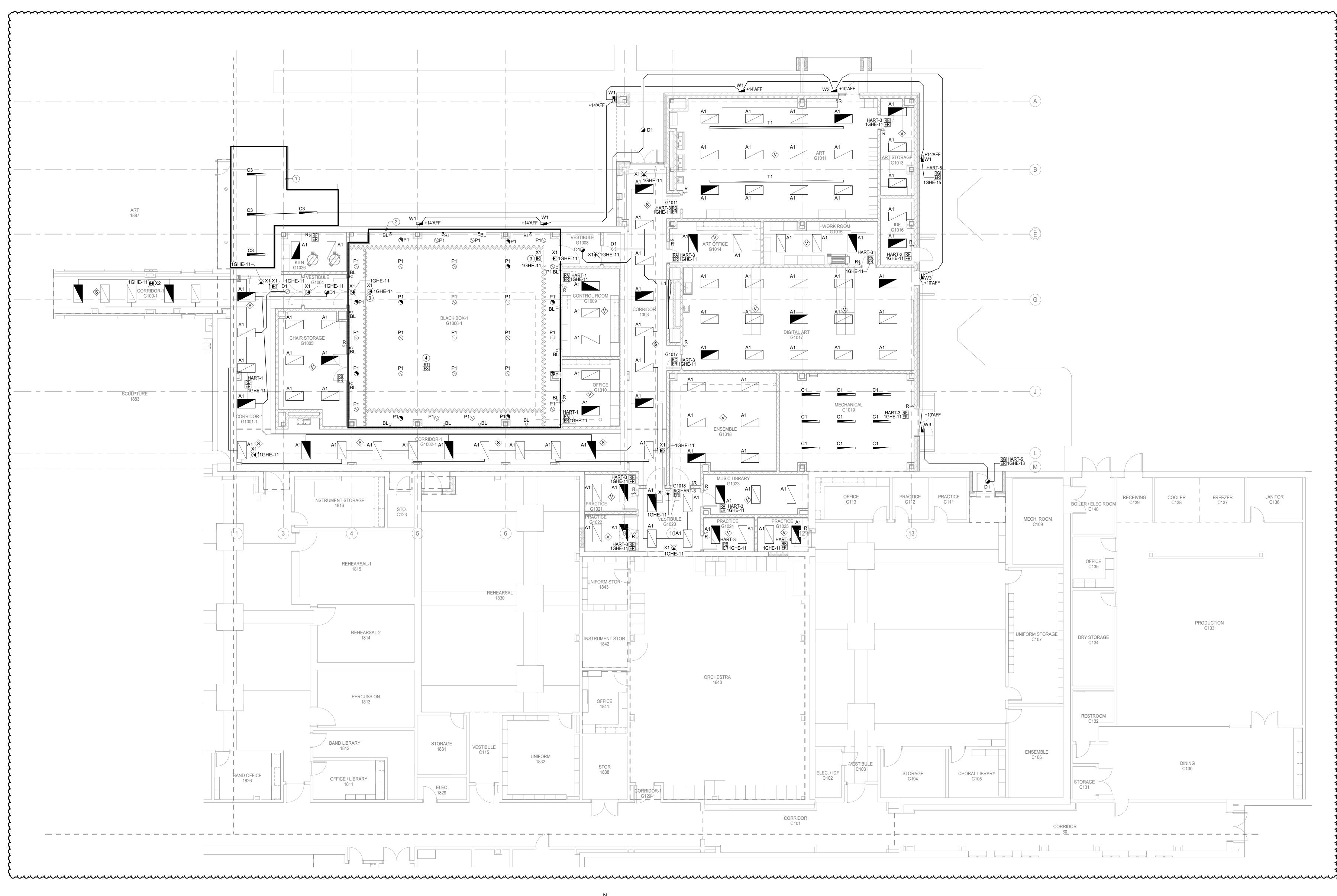
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LANDSCAPE/IRRIGATION KW Landscape Architects 6925 Portwest Drive Suite 100 Houston, TX 77024 346.509.5638

**REVISION HISTORY** 1 ADDENDUM #3 REVISION DESCRIPTION 01/06/2025 DATE PROFESSIONAL SEALS BRADLEY KALMAN 80219 CLIENT CYPRESS • FAIRBANKS PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION CFISD 33AC23221 DRAWN BY CHECKED BY AW JZ ORIGINAL ISSUE ISSUE FOR PROPOSALS DECEMBER 09, 2024 SHEET NAME ELECTRICAL LIGHTING FLOOR PLAN -LEVEL 1 - AREA F

SHEET NUMBER

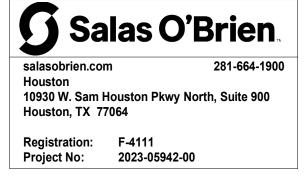
E-202-F



# 1 ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 01 - AREA G Scale: 1/8" = 1'-0"

EMERGENCY UL924/1008 DEVICES.

(2) MOUNT BOTTOM EDGE OF PENDANT FIXTURES LEVEL WITH PIPE GRID (3) MOUNT EXIT LIGHT FROM PIPE GRID. FIXTURE TO BE MOUNTED WITHIN CURTAIN AREA AND VISIBLE WHEN CURTAIN IS CLOSED. (4) REFER TO THEATRICAL PLANS FOR TO DMX CONTROLS AND





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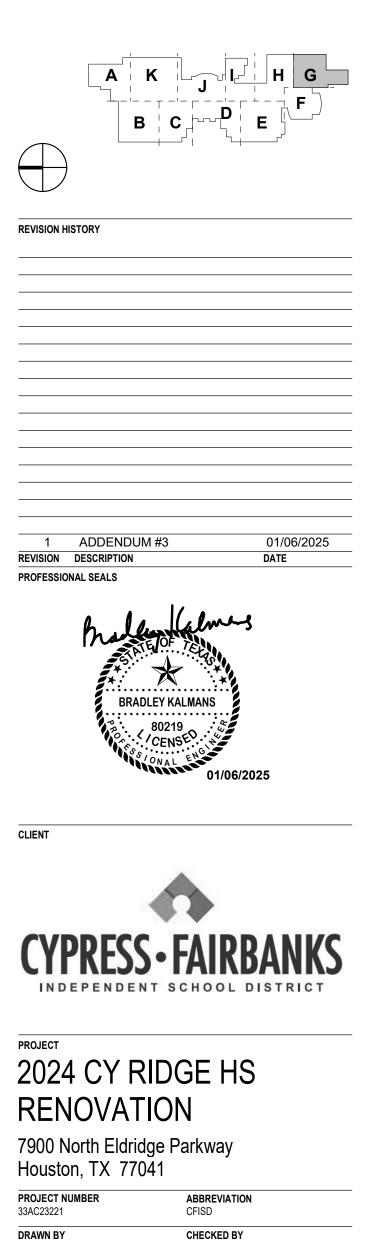
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ELECTRICAL LIGHTING FLOOR PLAN -

JZ

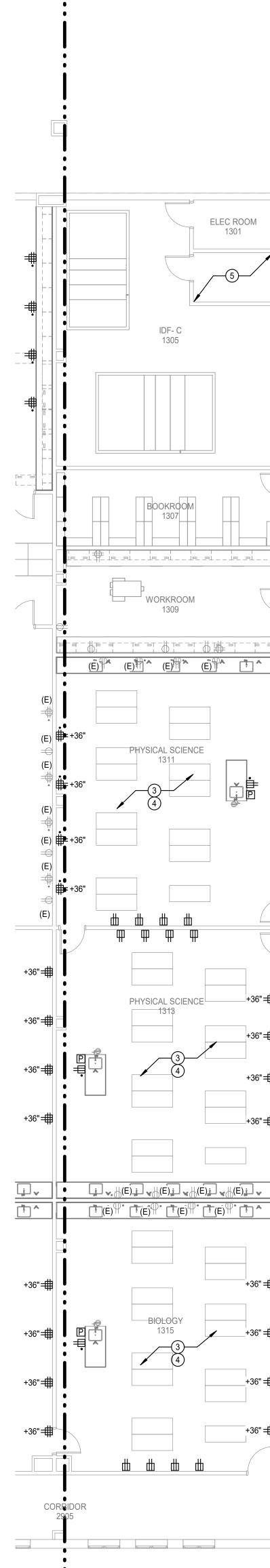
SHEET NAME LEVEL 1 - AREA G SHEET NUMBER

ORIGINAL ISSUE

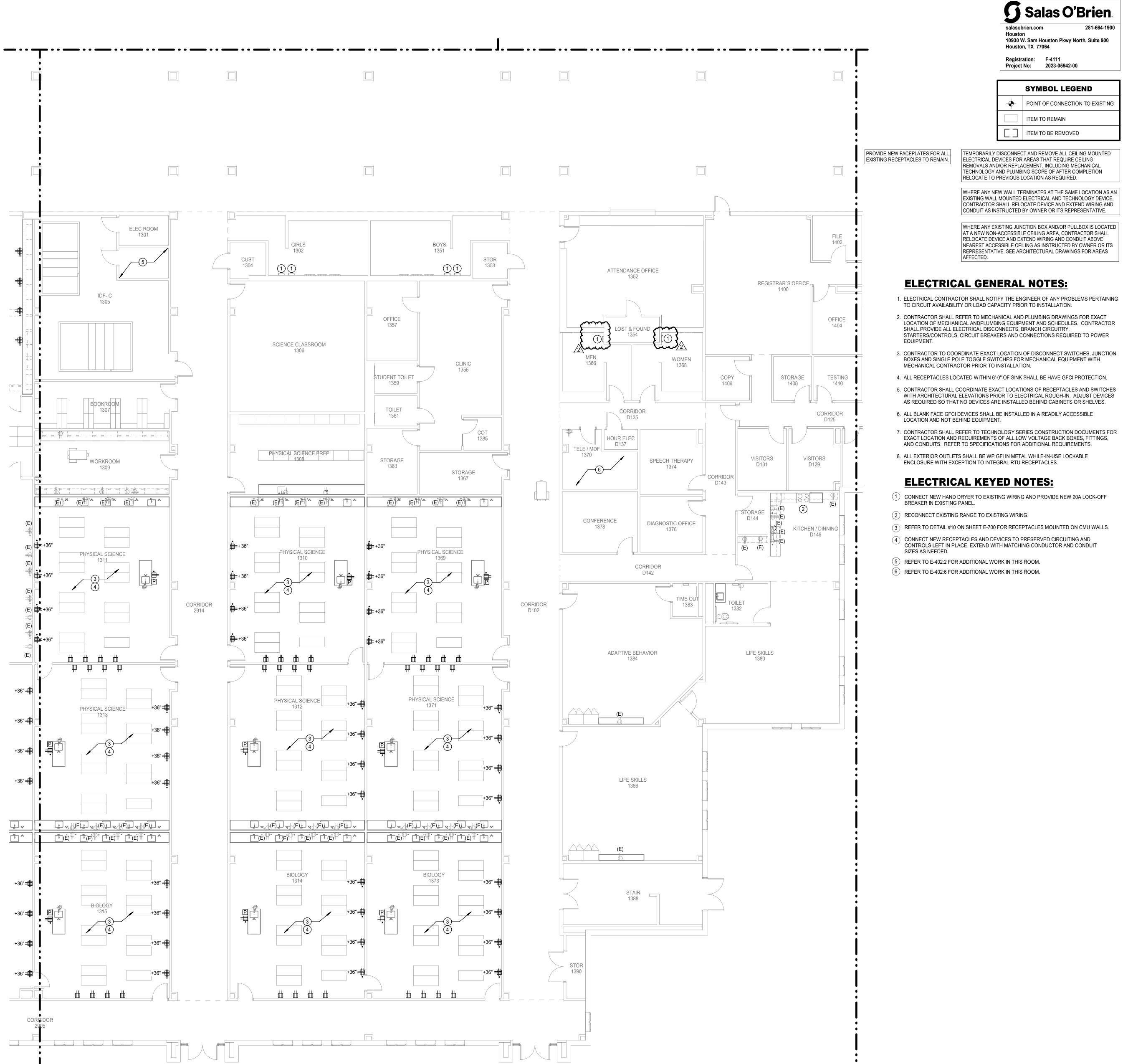
**ISSUE FOR PROPOSALS** 

E-203-G

DECEMBER 09, 2024









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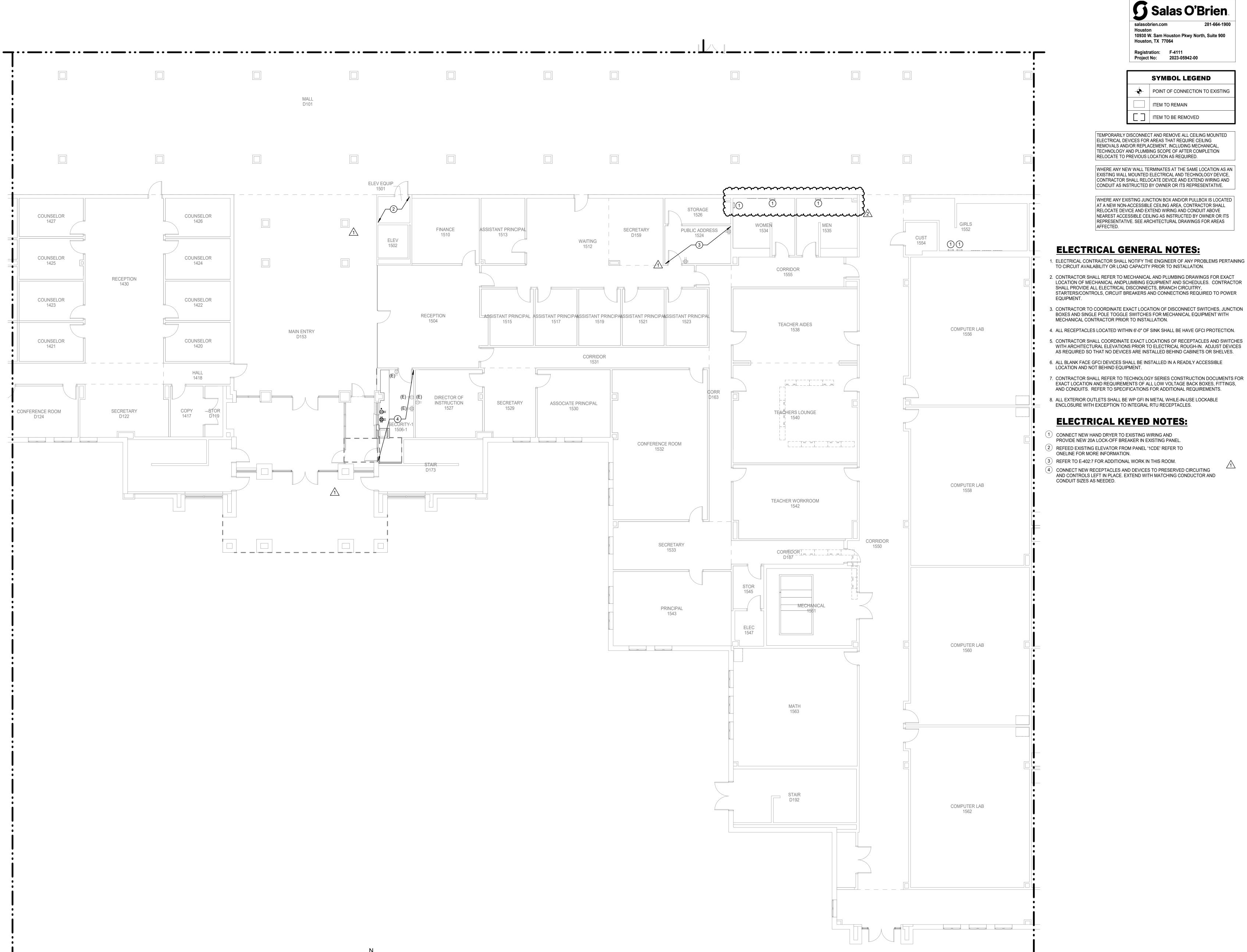
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KEYPLAN

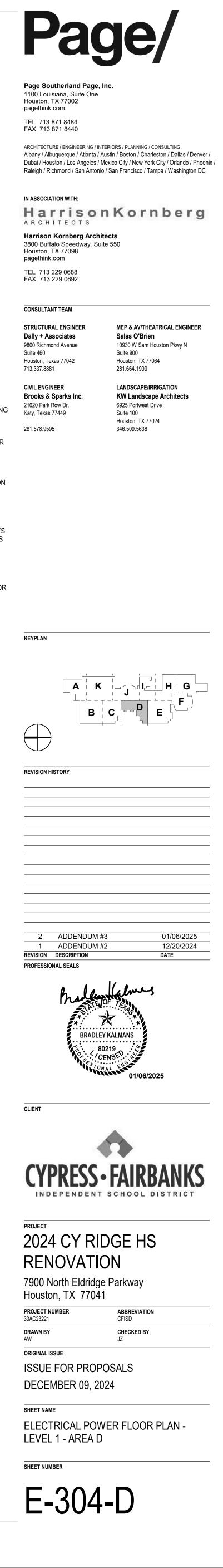
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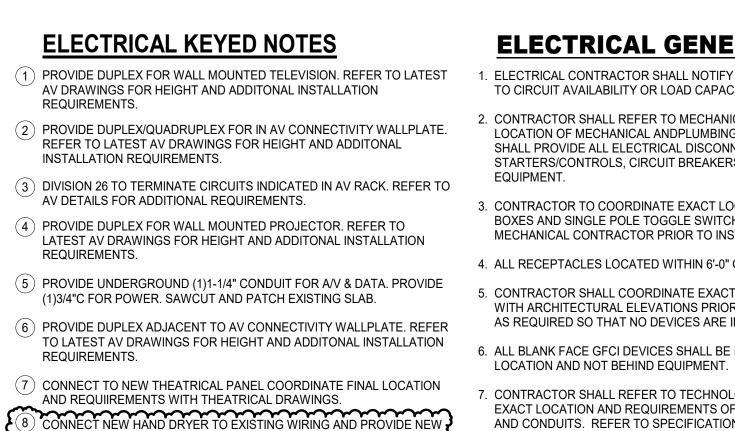
**REVISION HISTORY** 2 ADDENDUM #3 1 ADDENDUM #2 01/06/2025 12/20/2024 REVISION DESCRIPTION DATE PROFESSIONAL SEALS X BRADLEY KALMAN , 80219 /CENSE CLIENT **CYPRESS • FAIRBANKS** INDEPENDENT SCHOOL DISTRICT PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATIO 33AC23221 CFISD CHECKED BY DRAWN B JZ ORIGINAL ISSUE **ISSUE FOR PROPOSALS** DECEMBER 09, 2024 SHEET NAME ELECTRICAL POWER FLOOR PLAN -LEVEL 1 - AREA C SHEET NUMBER E-303-C



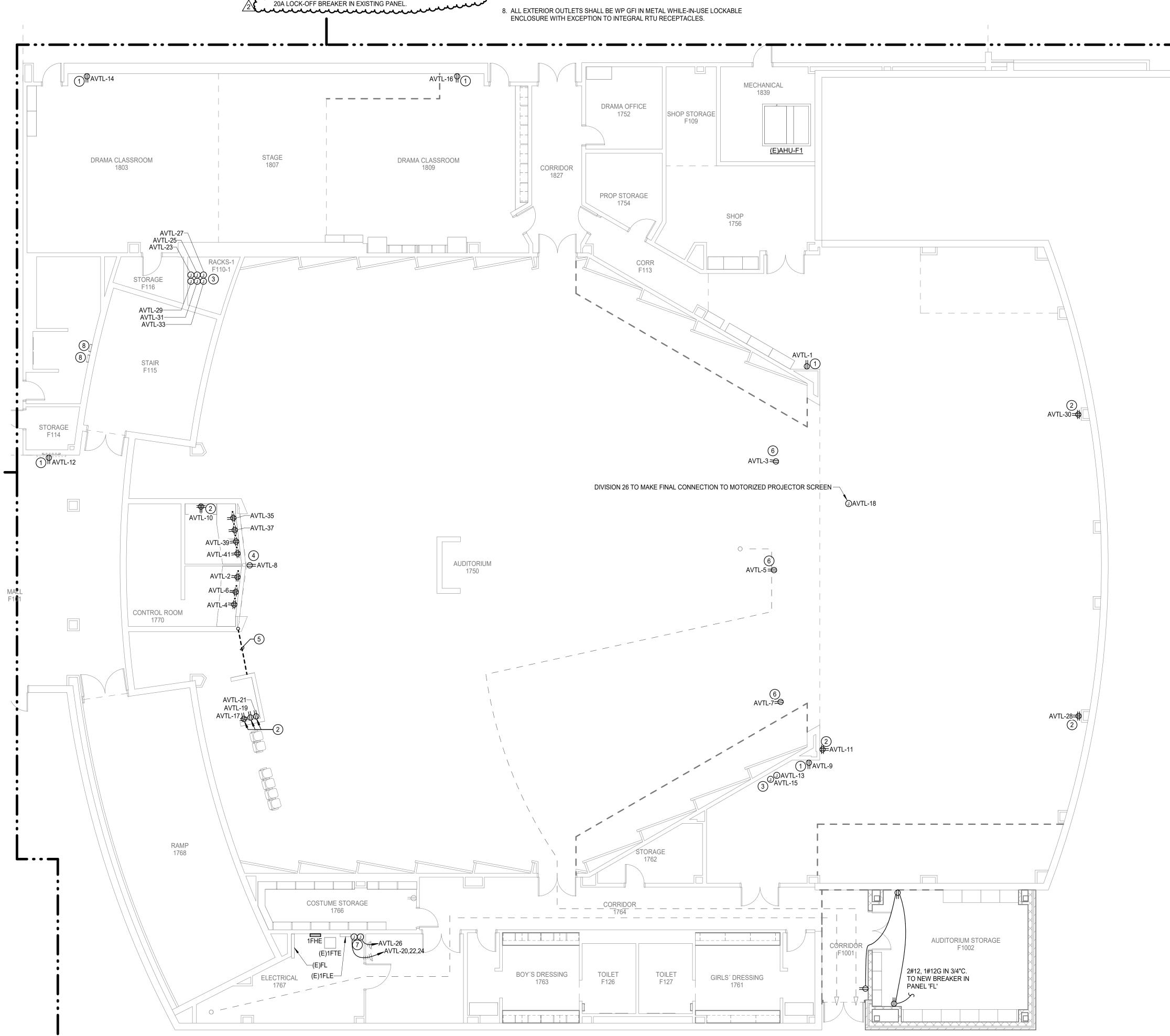
1 ELECTRICAL POWER FLOOR PLAN - LEVEL 01 - AREA D Scale: 1/8" = 1'-0"



 $\sqrt{1}$ 



20A LOCK-OFF BREAKER IN EXISTING PANEL.



## **ELECTRICAL GENERAL NOTES:**

1. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION. 2. CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF MECHANICAL ANDPLUMBING EQUIPMENT AND SCHEDULES. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DISCONNECTS, BRANCH CIRCUITRY, STARTERS/CONTROLS, CIRCUIT BREAKERS AND CONNECTIONS REQUIRED TO POWER

3. CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

4. ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE HAVE GFCI PROTECTION. 5. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES. 6. ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE

7. CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS, AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. 8. ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN-USE LOCKABLE

CONDUIT AS INSTRUCTED BY OWNER OR ITS REPRESENTATIVE. WHERE ANY EXISTING JUNCTION BOX AND/OR PULLBOX IS LOCATED AT A NEW NON-ACCESSIBLE CEILING AREA, CONTRACTOR SHALL RELOCATE DEVICE AND EXTEND WIRING AND CONDUIT ABOVE NEAREST ACCESSIBLE CEILING AS INSTRUCTED BY OWNER OR ITS

WHERE ANY NEW WALL TERMINATES AT THE SAME LOCATION AS AN

EXISTING WALL MOUNTED ELECTRICAL AND TECHNOLOGY DEVICE, CONTRACTOR SHALL RELOCATE DEVICE AND EXTEND WIRING AND

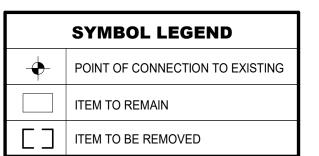
TEMPORARILY DISCONNECT AND REMOVE ALL CEILING MOUNTED ELECTRICAL DEVICES FOR AREAS THAT REQUIRE CEILING REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANICAL, TECHNOLOGY AND PLUMBING SCOPE OF AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

REPRESENTATIVE. SEE ARCHITECTURAL DRAWINGS FOR AREAS

AFFECTED.

**Salas O'Brien** 281-664-1900 salasobrien.com Houston 10930 W. Sam Houston Pkwy North, Suite 900 Houston, TX 77064

Registration: F-4111 Project No: 2023-05942-00





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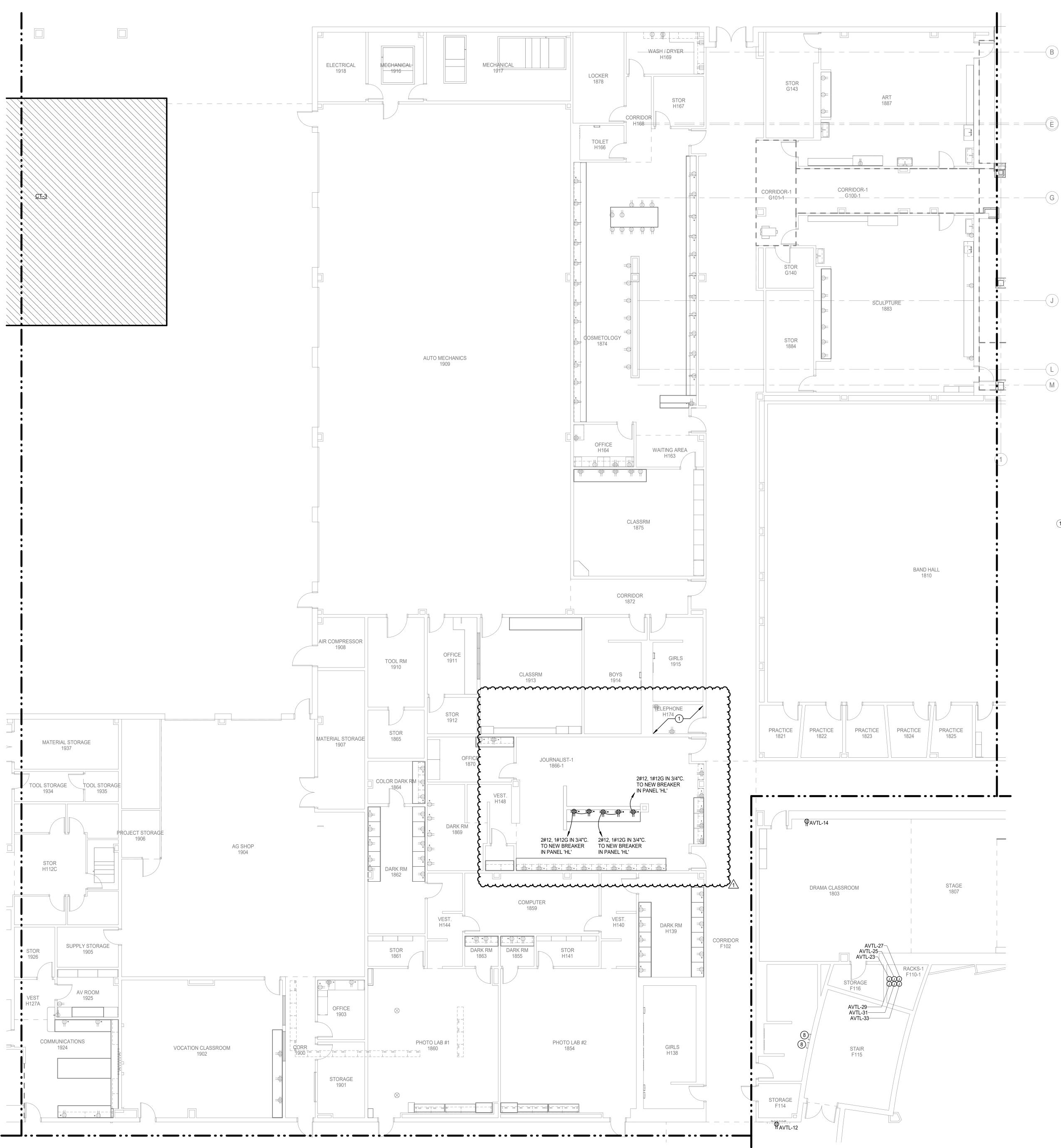
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KEYPLAN

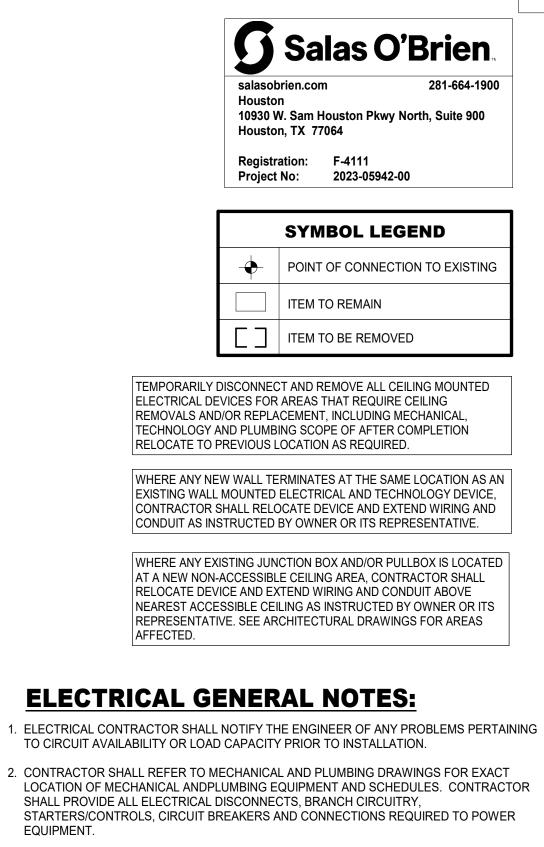
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 $\bigcirc$ **REVISION HISTORY** 2ADDENDUM #31ADDENDUM #2REVISIONDESCRIPTION 01/06/2025 12/20/2024 DATE PROFESSIONAL SEALS **BRADI FY KAI MA** CLIENT **CYPRESS • FAIRBANKS** INDEPENDENT SCHOOL DISTRICT PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATIO 33AC23221 CFISD DRAWN BY CHECKED BY AW JZ ORIGINAL ISSUE ISSUE FOR PROPOSALS DECEMBER 09, 2024 SHEET NAME ELECTRICAL POWER FLOOR PLAN -LEVEL 1 - AREA F SHEET NUMBER E-306-F





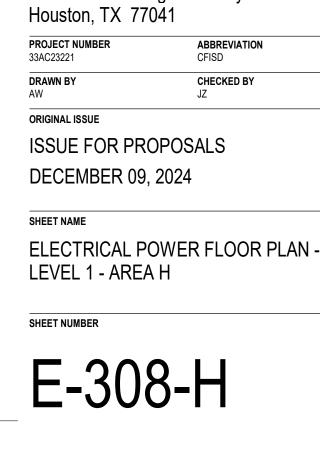


- 3. CONTRACTOR TO COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES, JUNCTION BOXES AND SINGLE POLE TOGGLE SWITCHES FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- 4. ALL RECEPTACLES LOCATED WITHIN 6'-0" OF SINK SHALL BE HAVE GFCI PROTECTION. 5. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF RECEPTACLES AND SWITCHES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ELECTRICAL ROUGH-IN. ADJUST DEVICES AS REQUIRED SO THAT NO DEVICES ARE INSTALLED BEHIND CABINETS OR SHELVES.
- 6. ALL BLANK FACE GFCI DEVICES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND NOT BEHIND EQUIPMENT.
- 7. CONTRACTOR SHALL REFER TO TECHNOLOGY SERIES CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND REQUIREMENTS OF ALL LOW VOLTAGE BACK BOXES, FITTINGS,
- AND CONDUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. 8. ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN-USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.

## **ELECTRICAL KEYED NOTES:**

1 REFER TO E-402:4 FOR ADDITIONAL WORK IN THIS ROOM.

EQUIPMENT.



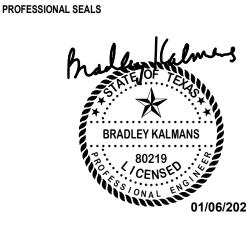
**CYPRESS • FAIRBANKS** INDEPENDENT SCHOOL DISTRICT PROJECT

2024 CY RIDGE HS

RENOVATION

7900 North Eldridge Parkway

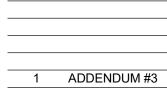
CLIENT



01/06/2025

DATE

REVISION DESCRIPTION





**REVISION HISTORY** 

KEYPLAN

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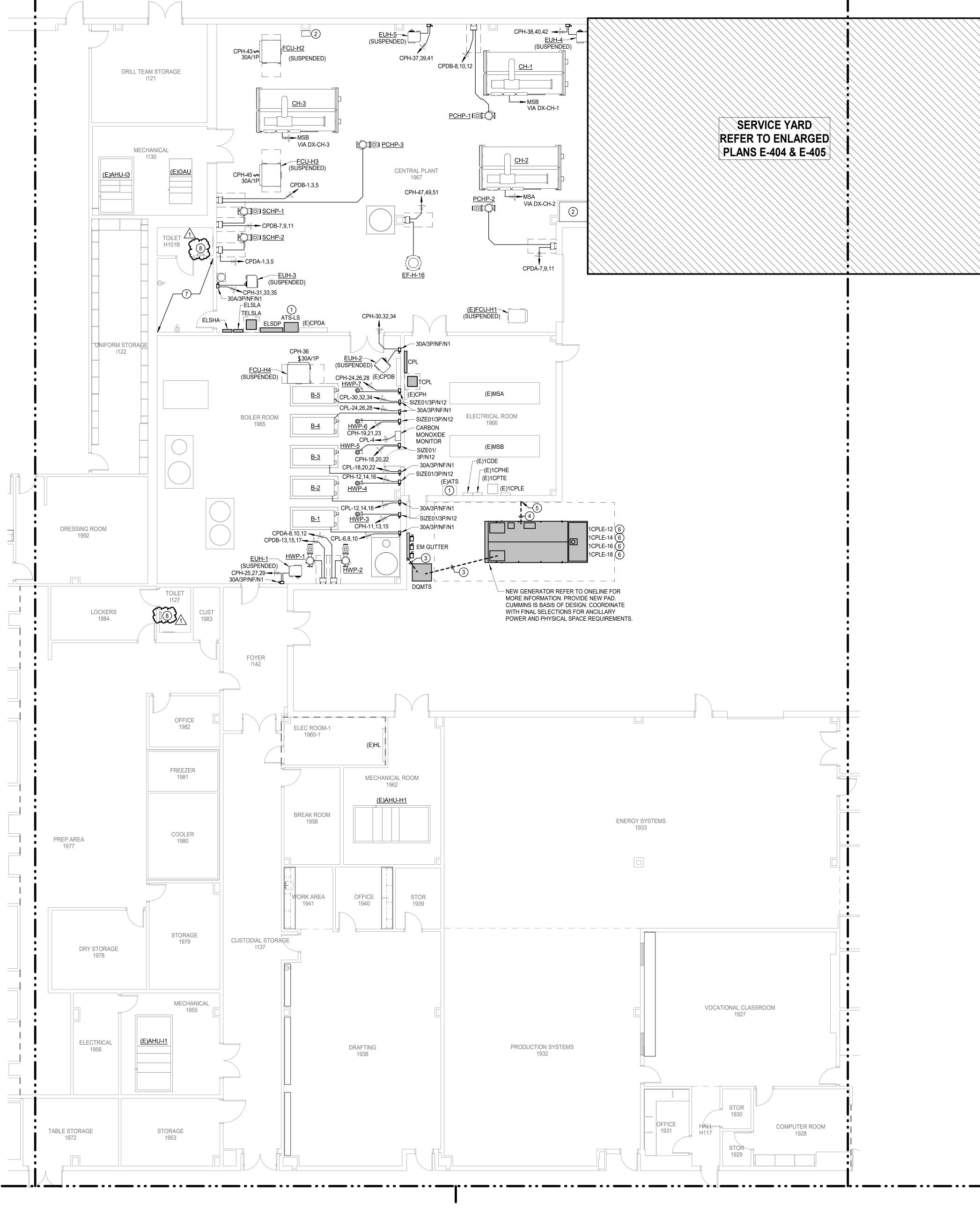
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Scale: 1/8" = 1'-0"

# ELECTRICAL POWER FLOOR PLAN - LEVEL 01 - AREA I

<b>S</b> alas	<b>D'Brien</b>
salasobrien.com	281-664-1900
Houston	
10930 W. Sam Houston Pk	wy North, Suite 900
Houston, TX 77064	

Registration: F-4111 Project No: 2023-05942-00

SYMBOL LEGEND ----- POINT OF CONNECTION TO EXISTING ITEM TO REMAIN ITEM TO BE REMOVED

TEMPORARILY DISCONNECT AND REMOVE ALL CEILING MOUNTED ELECTRICAL DEVICES FOR AREAS THAT REQUIRE CEILING REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANICAL, TECHNOLOGY AND PLUMBING SCOPE OF AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

WHERE ANY NEW WALL TERMINATES AT THE SAME LOCATION AS AN EXISTING WALL MOUNTED ELECTRICAL AND TECHNOLOGY DEVICE, CONTRACTOR SHALL RELOCATE DEVICE AND EXTEND WIRING AND CONDUIT AS INSTRUCTED BY OWNER OR ITS REPRESENTATIVE.

WHERE ANY EXISTING JUNCTION BOX AND/OR PULLBOX IS LOCATED AT A NEW NON-ACCESSIBLE CEILING AREA. CONTRACTOR SHALL RELOCATE DEVICE AND EXTEND WIRING AND CONDUIT ABOVE NEAREST ACCESSIBLE CEILING AS INSTRUCTED BY OWNER OR ITS REPRESENTATIVE. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

### **ELECTRICAL GENERAL NOTES:**

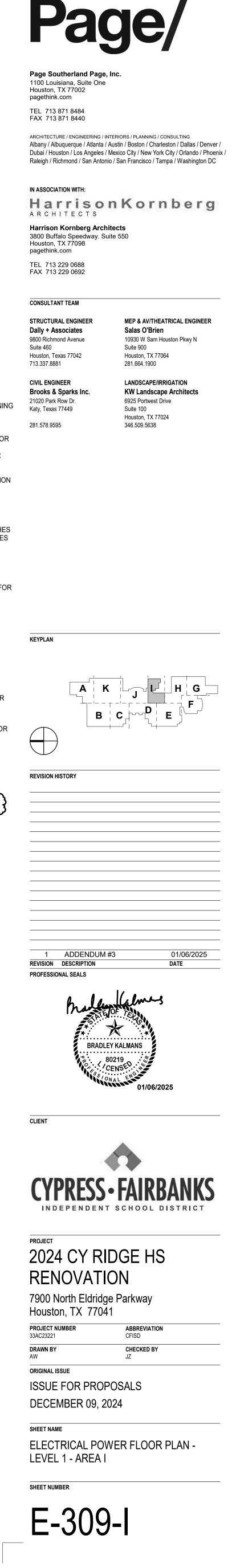
- 1. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
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- 8. ALL EXTERIOR OUTLETS SHALL BE WP GFI IN METAL WHILE-IN-USE LOCKABLE ENCLOSURE WITH EXCEPTION TO INTEGRAL RTU RECEPTACLES.

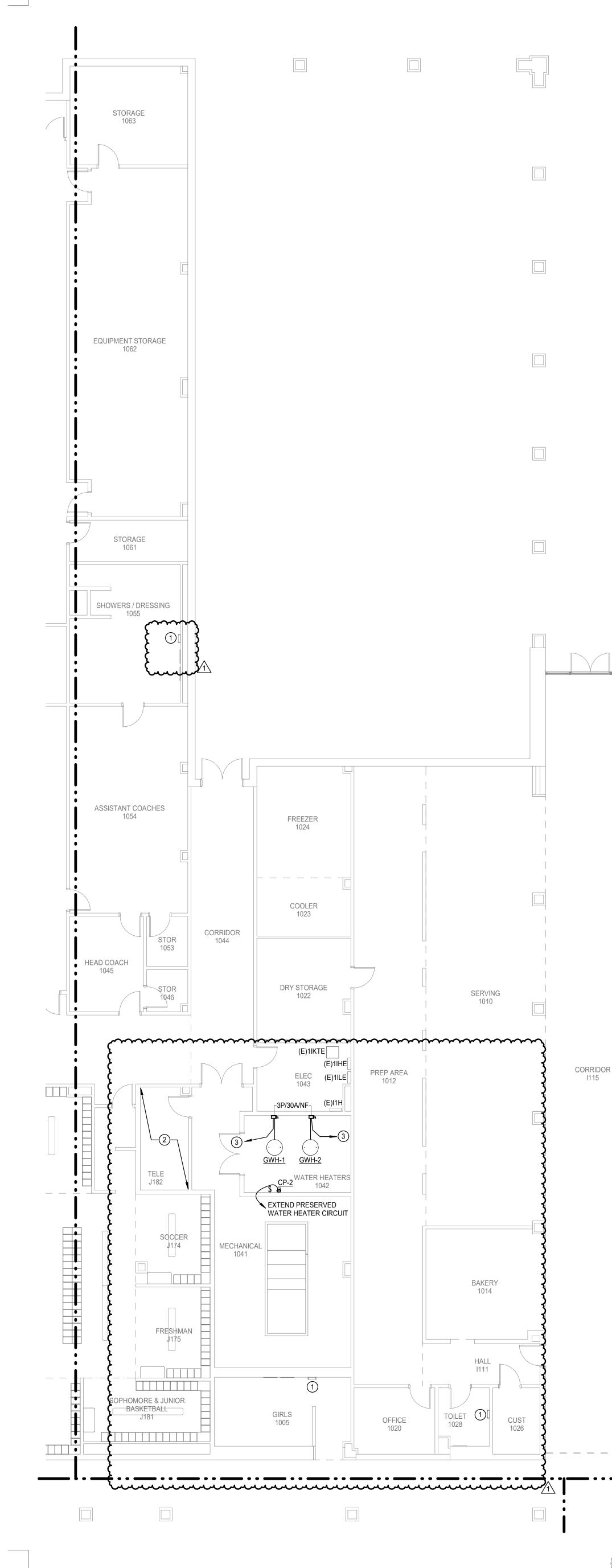
#### **ELECTRICAL KEYED NOTES**

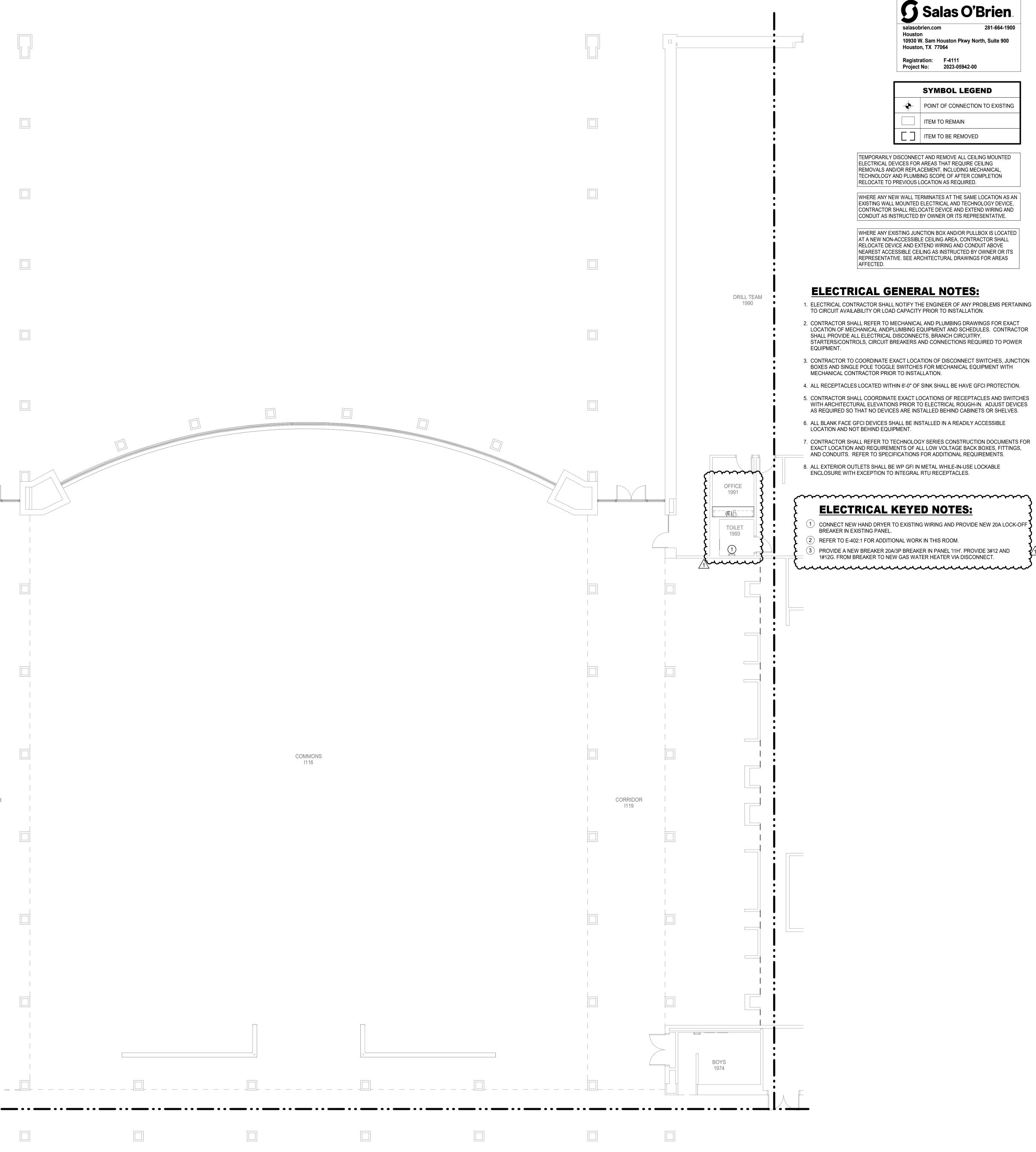
- ) PROVIDE MONITORING INTERFACE FOR ATS WITH SECURITY PANEL.
- ) CONNECT CONTROLS EQUIPMENT TO CIRCUITS LEFT IN PLACE DURING DEMOLITION.
- ) SAWCUT AND PATCH EXISTING CONCRETE FOR NEW FEEDER. REFER TO ONELINE FOR FEEDER SIZING.
- 4 SAWCUT AND PATCH EXISTING CONCRETE FOR GENERATOR AUXILLARY CIRCUITS. COORDINATE FINAL SIZING WITH MANUFACTURER PRIOR TO INSTALL. INCLUDE 1"C. FOR CONTROLS.
- (5) STUB-UP CONDUIT AND PENETRATE WALL.
- b) PROVIDE ANCILLARY POWER TO GENERATOR. VERIFY FINAL REQUIREMENTS WITH GENERATOR SELECTION.

7) REFER TO E-402:5 FOR ADDITIONAL WORK IN THIS ROOM. 8 CONNECT NEW HAND DRYER TO EXISTING WIRING AND PROVIDE NEW 20A LOCK-OFF

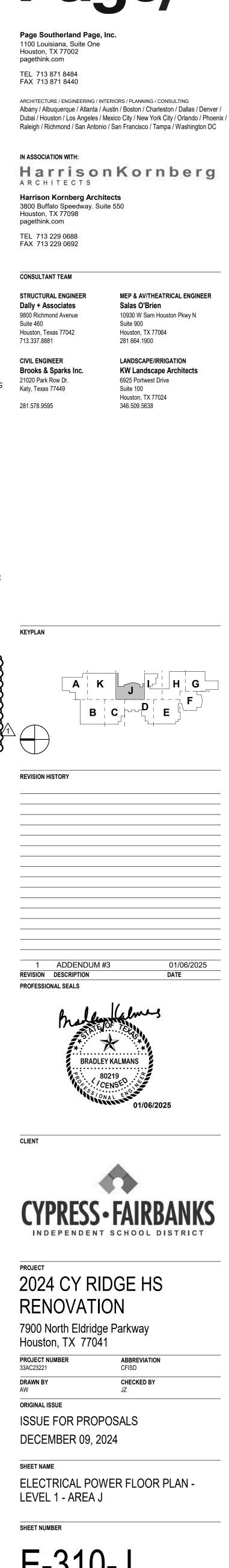
BREAKER IN EXISTING PANEL



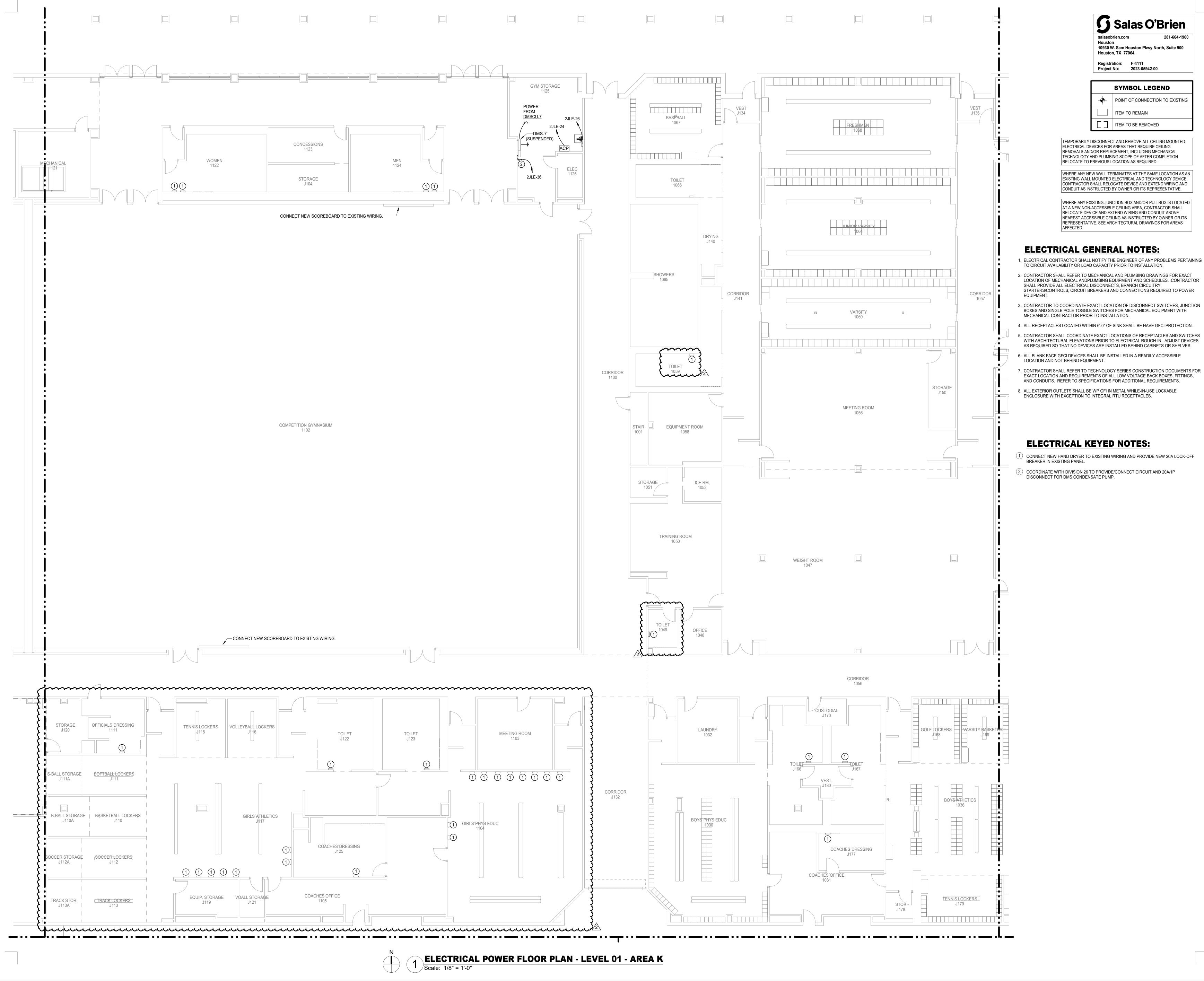


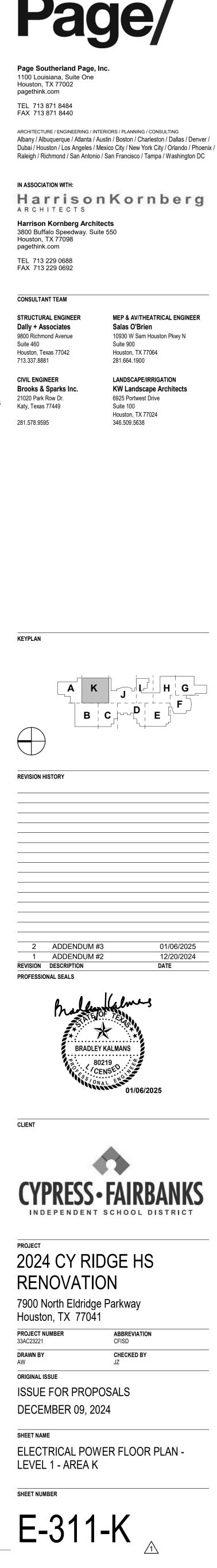


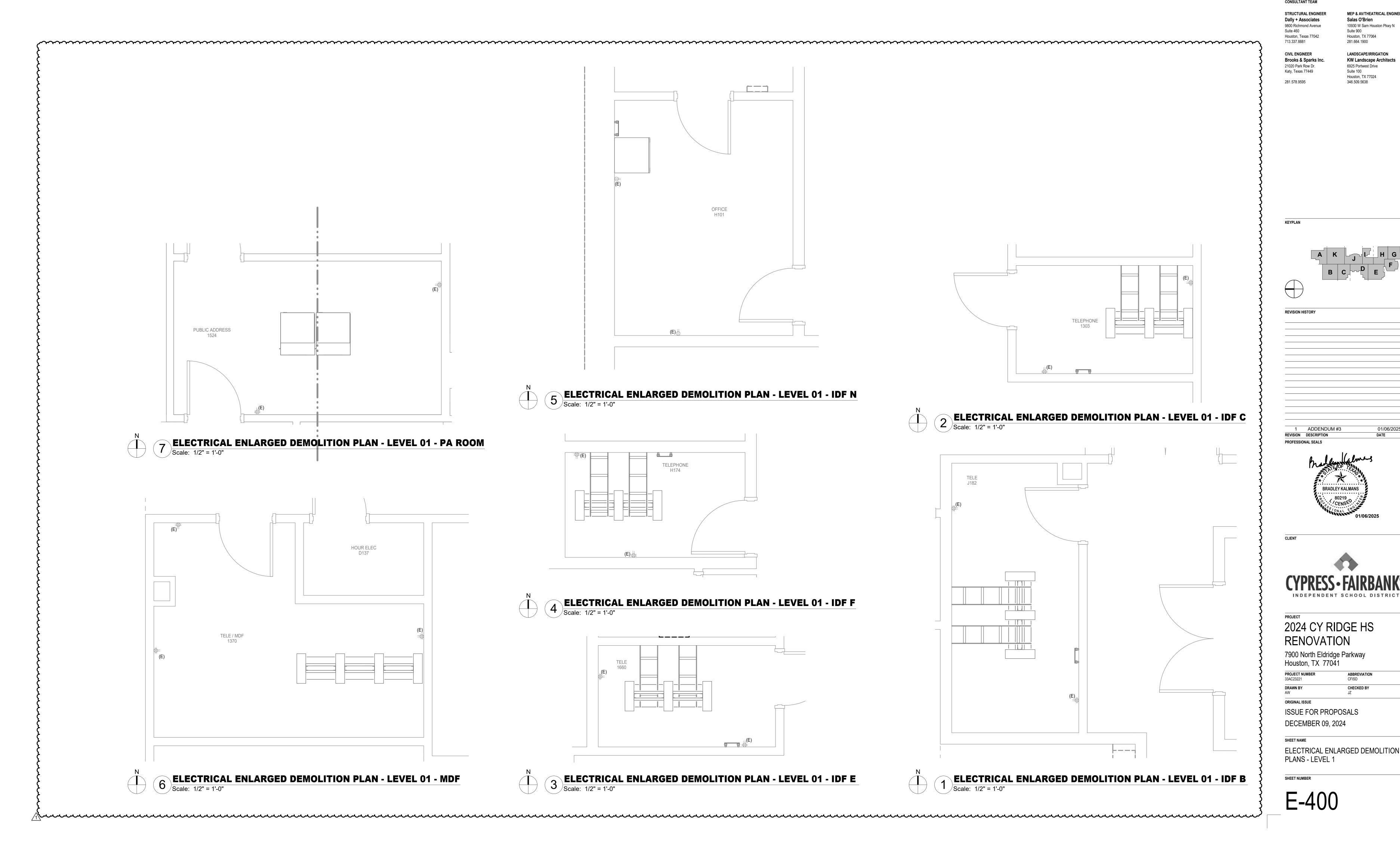
# 1 ELECTRICAL POWER FLOOR PLAN - LEVEL 01 - AREA J Scale: 1/8" = 1'-0"



E-310-J











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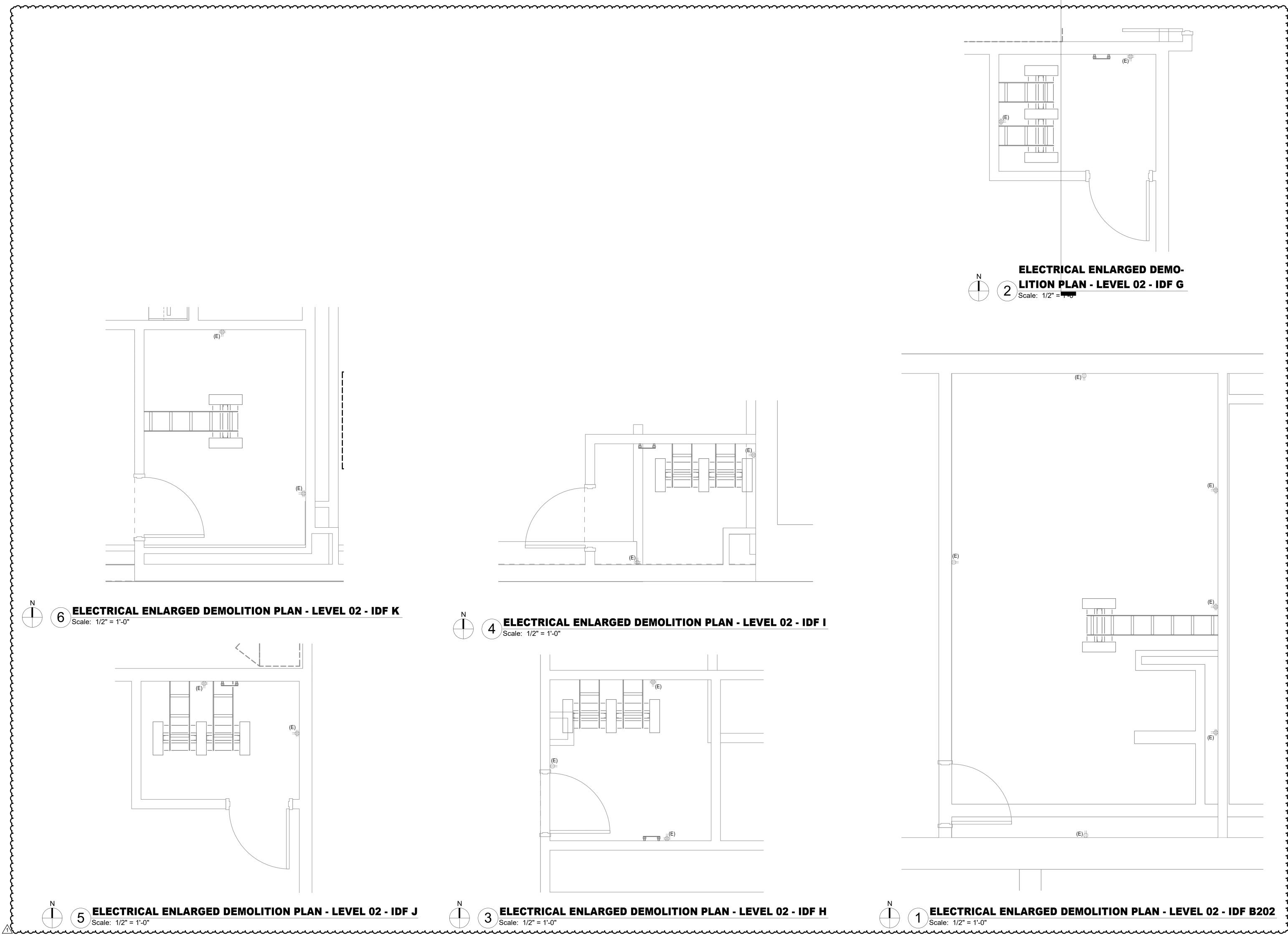
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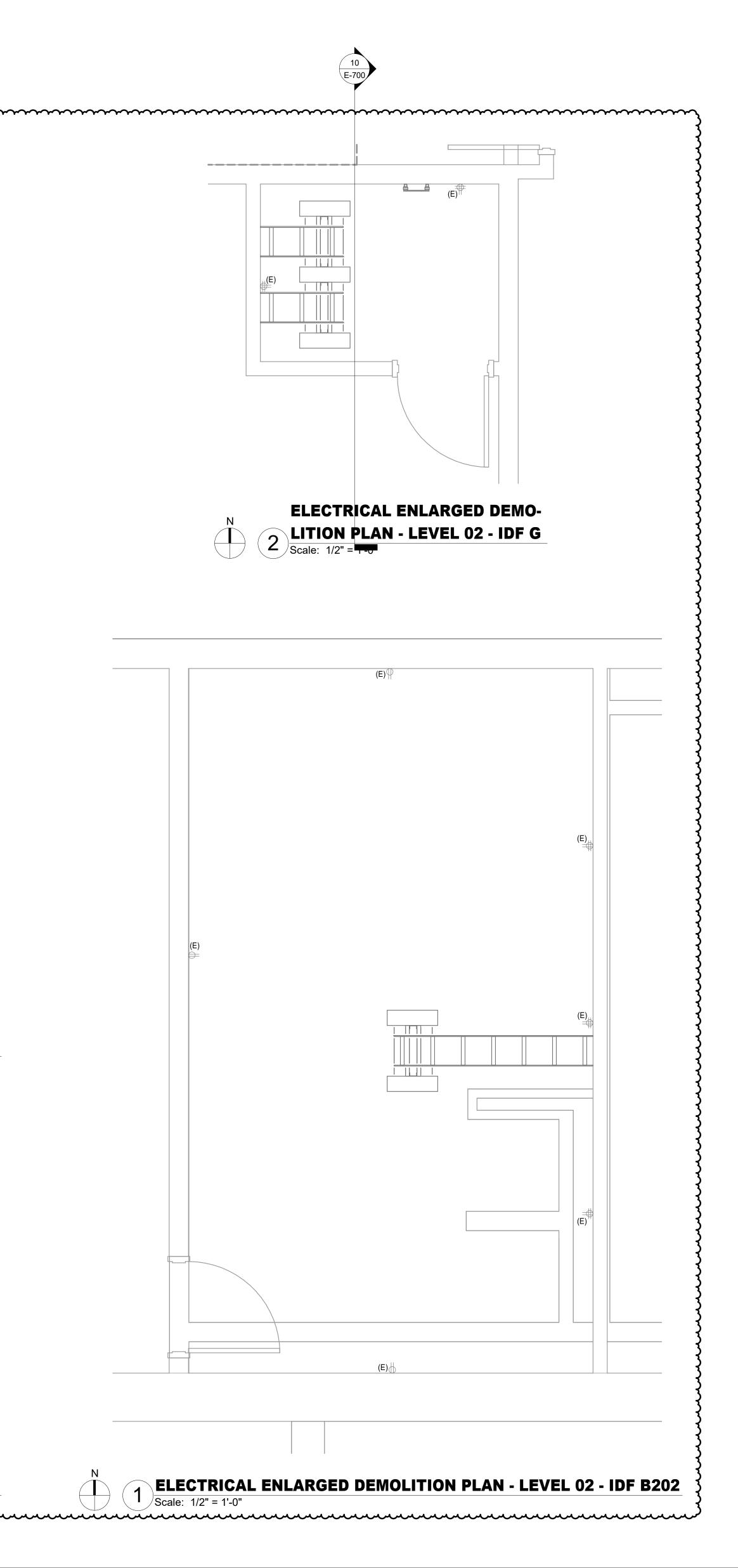
LANDSCAPE/IRRIGATION KW Landscape Architects 6925 Portwest Drive Suite 100 Houston, TX 77024 346.509.5638

KEYPLAN AK **REVISION HISTORY** 01/06/2025 DATE 1 ADDENDUM #3 REVISION DESCRIPTION PROFESSIONAL SEALS **BRADLEY KALMAN** CLIENT CYPRESS - FAIRBANKS PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION 33AC23221 CFISD CHECKED BY DRAWN BY JZ AW ORIGINAL ISSUE **ISSUE FOR PROPOSALS** DECEMBER 09, 2024 SHEET NAME



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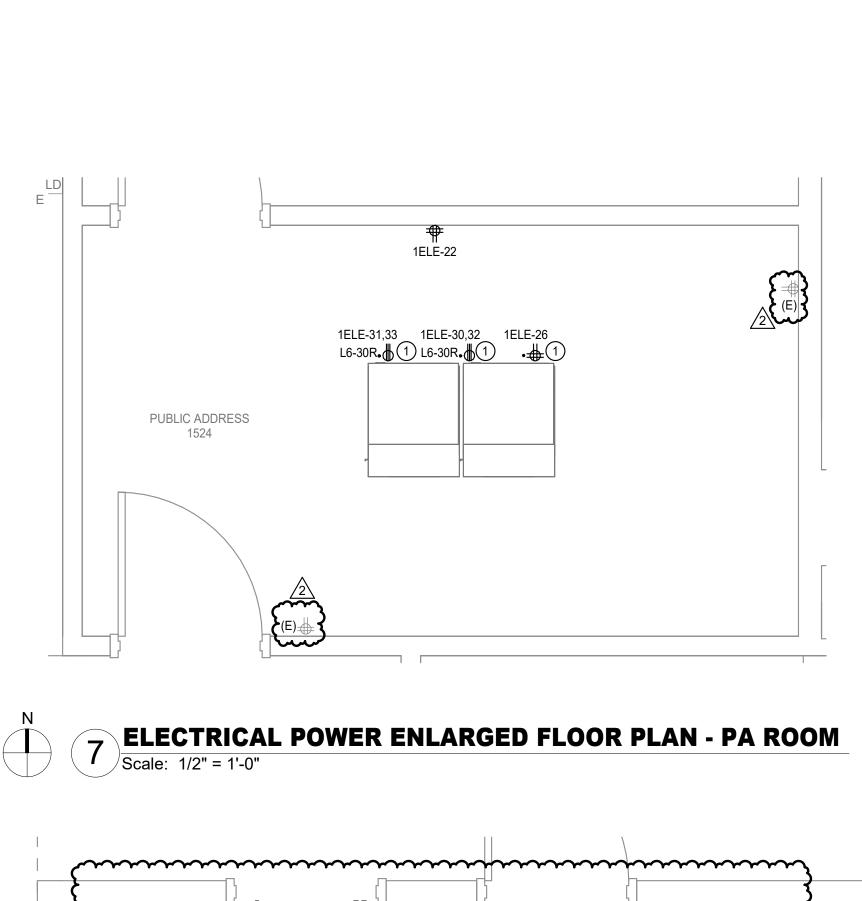
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KEYPLAN A K H G **REVISION HISTORY** 1 ADDENDUM #3 REVISION DESCRIPTION 01/06/2025 DATE PROFESSIONAL SEALS **CLIENT** CYPRESS - FAIRBANKS PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIAT 33AC23221 CFISD CHECKED BY DRAWN JZ ORIGINAL ISSUE ISSUE FOR PROPOSALS DECEMBER 09, 2024 SHEET NAME ELECTRICAL ENLARGED DEMOLITION

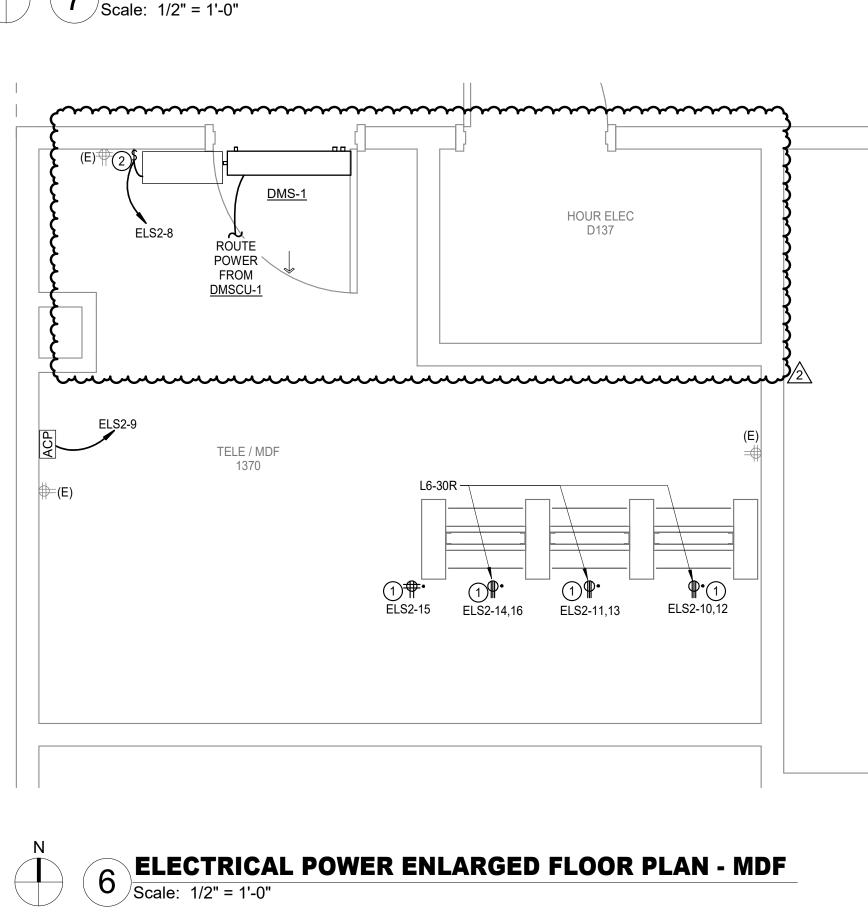
PLANS - LEVEL 2

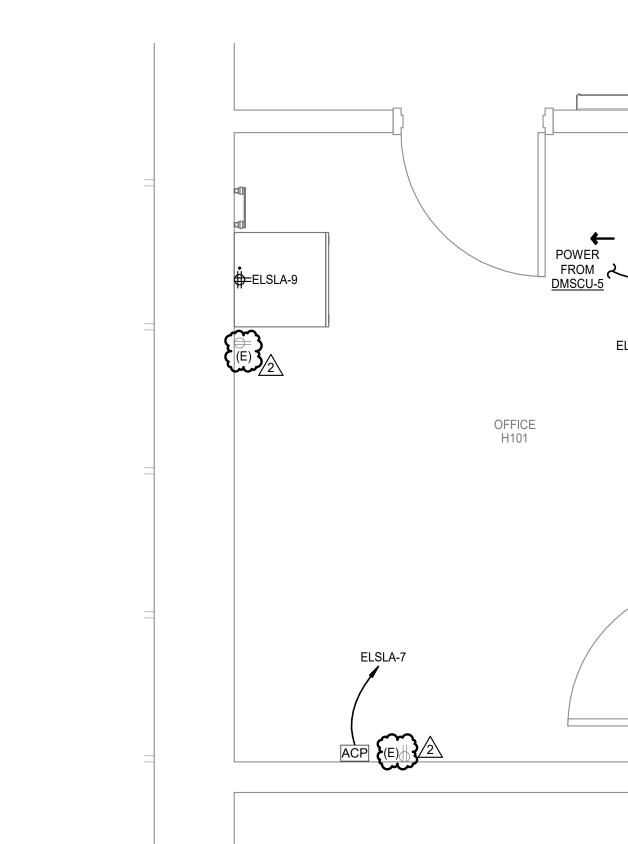
E-401

SHEET NUMBER

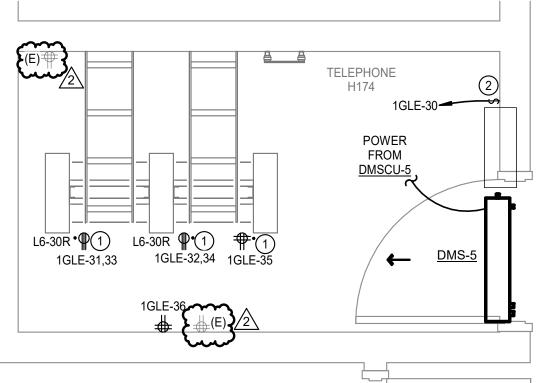


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# 5 ELECTRICAL POWER ENLARGED FLOOR PLAN - IDF N Scale: 1/2" = 1'-0"



# 

•₩1 L6-30R •₩1 L6-30R •₩1 1ELE-19 1ELE-1,3 1ELE-18,20

1ELE-10

 $\square$ 

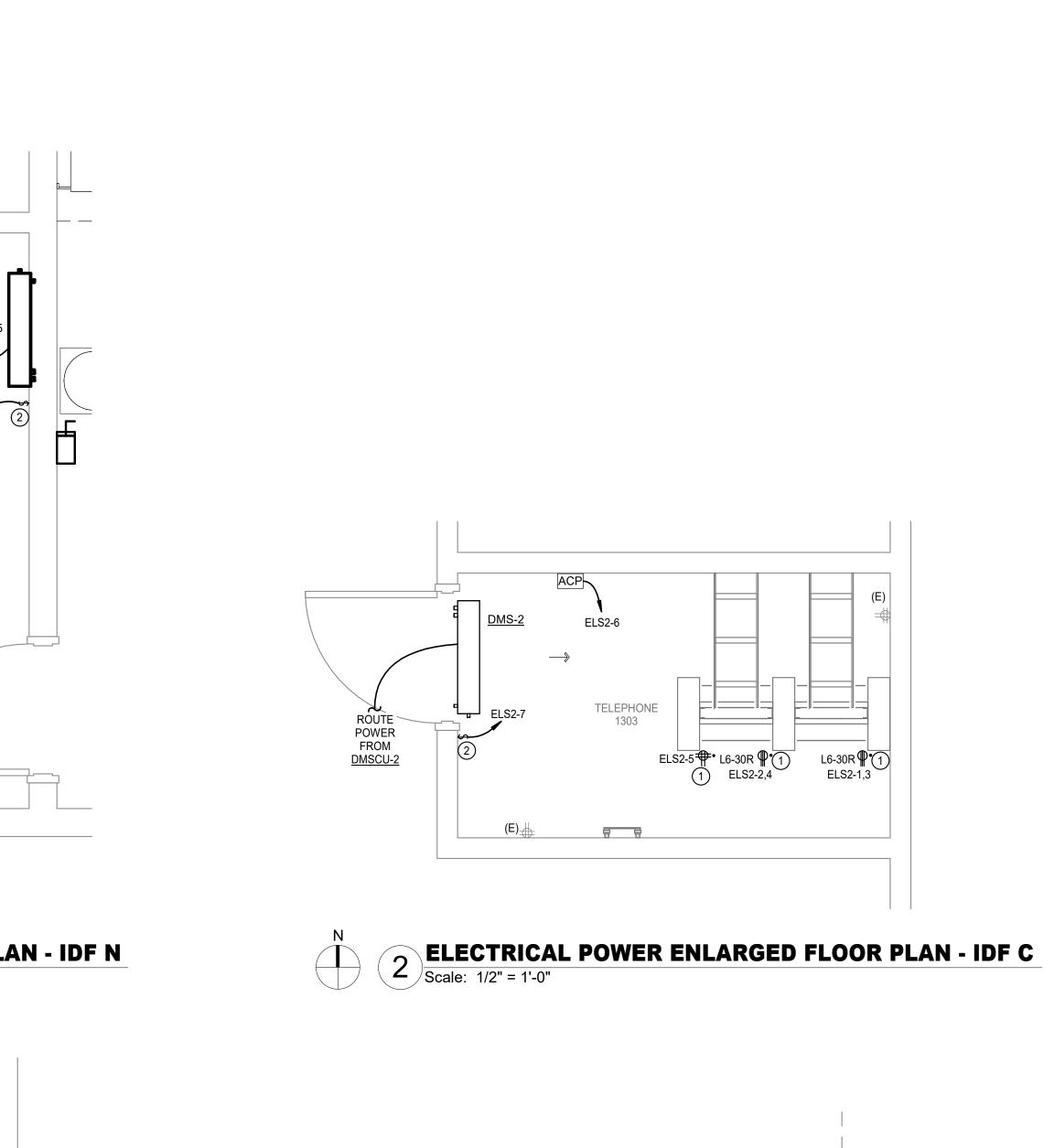
← DMS-1 ELSLA-5



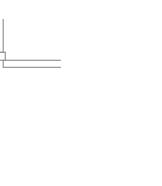
# ELECTRICAL KEYED NOTES

1 MOUNT ABOVE BACK OF RACK. REFER TO DETAIL. 2) COORDINATE WITH DIVISION 26 TO PROVIDE/CONNECT CIRCUIT AND 20A/1P DISCONNECT FOR DMS CONDENSATE PUMP.









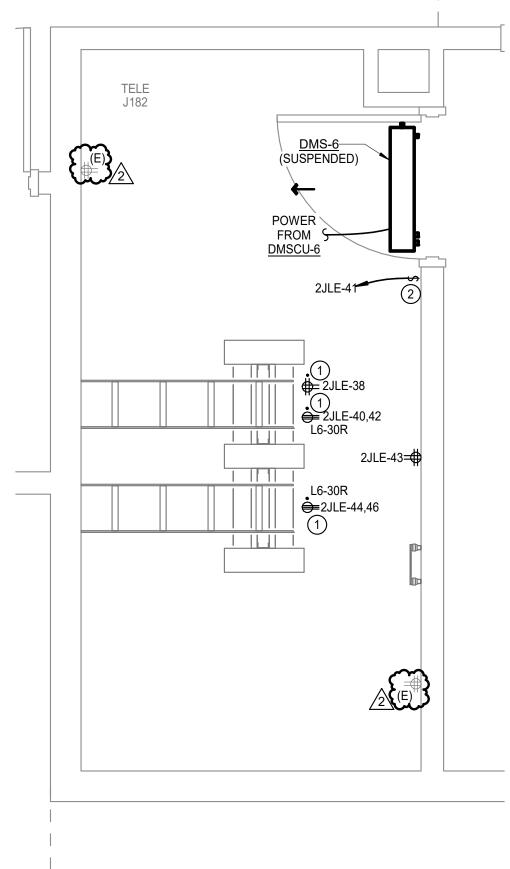
DMS-3

1ELE-14

POWER FROM <u>DMSCU-3</u>

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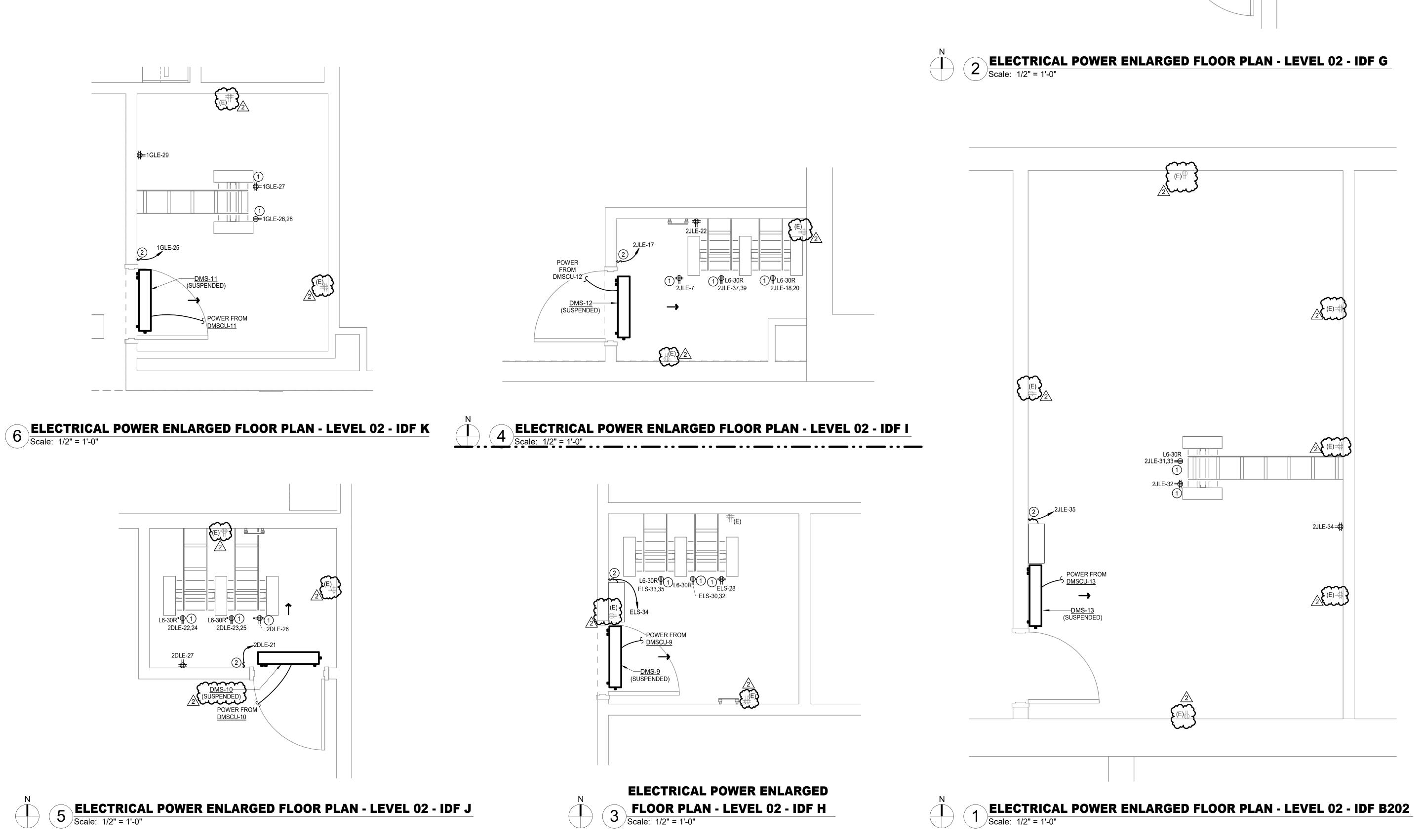
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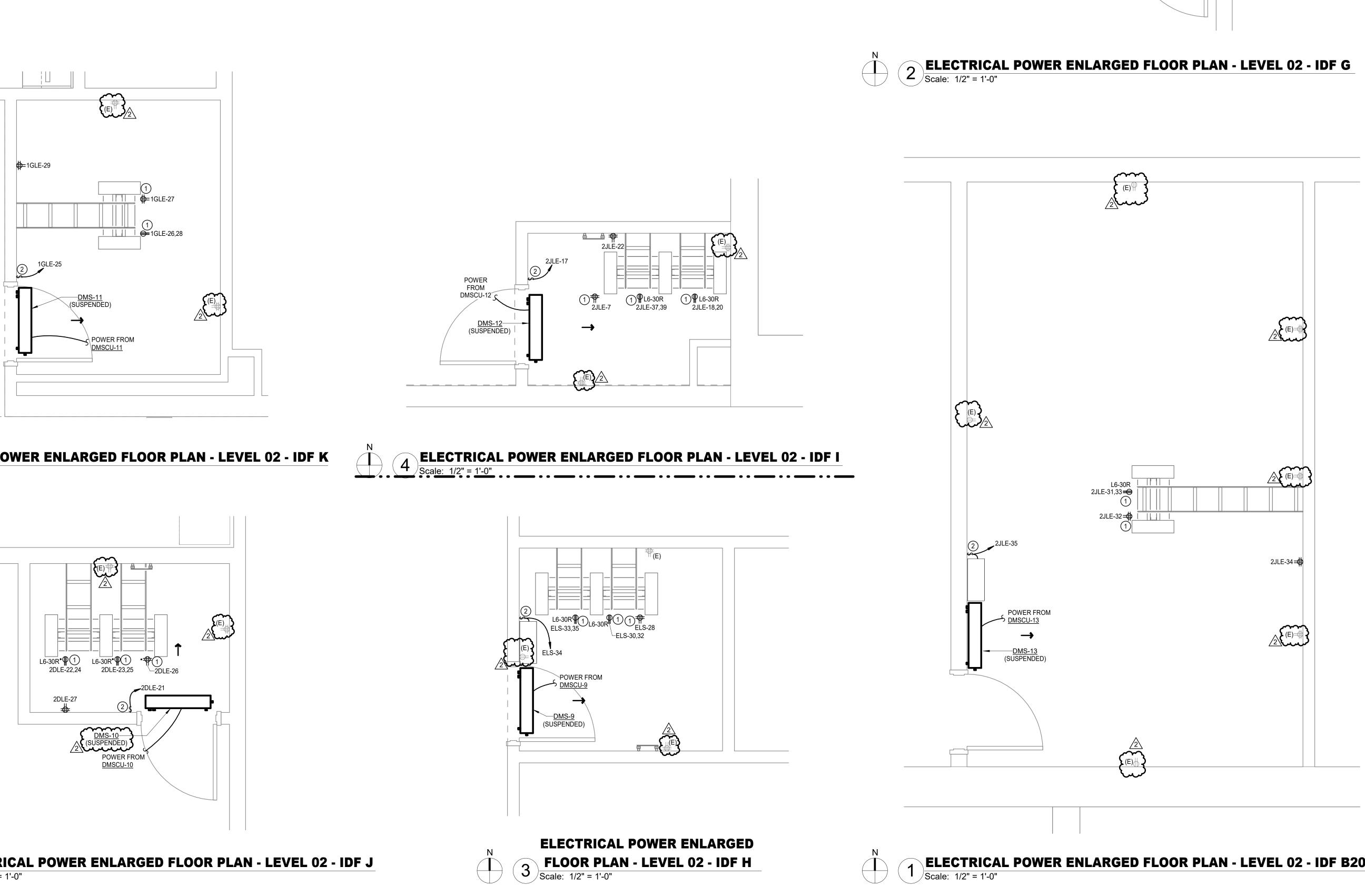
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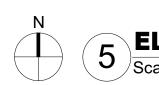
LANDSCAPE/IRRIGATION KW Landscape Architects 6925 Portwest Drive Suite 100 Houston, TX 77024 346.509.5638

KEYPLAN **REVISION HISTORY** 2ADDENDUM #31ADDENDUM #2REVISIONDESCRIPTION 01/06/2025 12/20/2024 DATE PROFESSIONAL SEALS 16 lma  $\mathbf{X}$ BRADLEY KALMANS 80219 01/06/2025 CLIENT CYPRESS - FAIRBANKS PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION 33AC23221 CFISD DRAWN BY CHECKED BY AW JZ ORIGINAL ISSUE ISSUE FOR PROPOSALS DECEMBER 09, 2024 SHEET NAME ELECTRICAL ENLARGED FLOOR PLANS - LEVEL 1 SHEET NUMBER





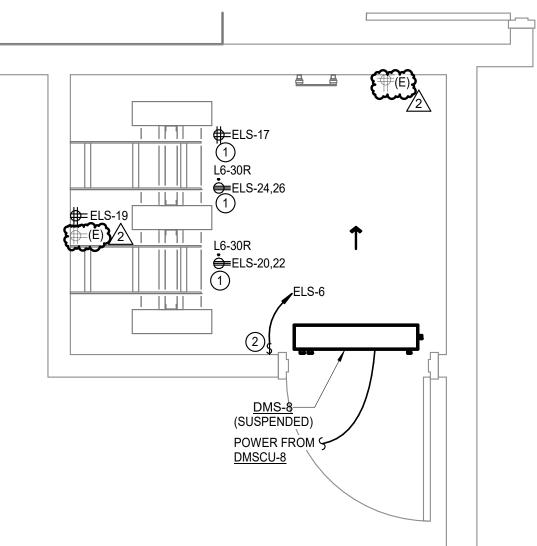




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**ELECTRICAL KEYED NOTES** MOUNT ABOVE BACK OF RACK. REFER TO DETAIL. COORDINATE WITH DIVISION 26 TO PROVIDE/CONNECT CIRCUIT AND 20A/1P DISCONNECT FOR DMS CONDENSATE PUMP.







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KEYPLAN **REVISION HISTORY** 2ADDENDUM #31ADDENDUM #2REVISIONDESCRIPTION 01/06/2025 12/20/2024 DATE PROFESSIONAL SEALS BRADLEY KALMAN , 80219 /CENSE CLIENT CYPRESS • FAIRBANKS PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION CFISD 33AC23221 DRAWN BY CHECKED BY AW JZ ORIGINAL ISSUE ISSUE FOR PROPOSALS DECEMBER 09, 2024 SHEET NAME ELECTRICAL ENLARGED FLOOR PLANS - LEVEL 2 SHEET NUMBER



<u>/1</u>

		Branch Panel: CPDA											
		Location: CENTRAL PLAN	NT 1967					<b>Volts:</b> 277/48	0 Wye				
		Supply From: MSA Mounting: Surface						nases: 3 Nires: 4 Phase in	kVA				
								r nase m					
Note	1		Wi		Break		<b>A</b> 34.4 / 0.0	В	С		eaker	Wire	
1	3 5 7	SCHP-2 (100 HP)	#3	/0 2	200	3	9.4 / 14.4	34.4 / 0.0	34.4 / 0.0	3	20		OHU I-
1	9 11	PCHP-1 (25 HP)	#4	4	70	3		9.4 / 14.4	9.4 / 14.4	3	90	#2	HWP-2
1	13 15 17	СТ-2 (50 НР)	#2	2	100	3	18.0 / 18.0	18.0 / 18.0	18.0 / 18.0	3	100	#2	СТ-3 (
1	19 21	CWP-2 (75 HP)	#1	/0 <sup>,</sup>	125	3	26.6 / 30.0	26.6 / 30.5		3	200	1L	СРН
	23 25 27	SPACE SPACE				1 1	0.0/0.0	0.0 / 0.0	26.6 / 32.9	1			SPACE SPACE
	29 31	SPACE SPACE		-		1 1	0.0 / 0.0		0.0 / 0.0	1 1			SPACE SPACE
	33 35 37	SPACE SPACE SPACE		-		1 1 1	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0	1 1 1	 	 	SPACE SPACE SPACE
 	39 41	SPACE SPACE		-	 	1 1		0.0/0.0	0.0 / 0.0	1 1			SPACE SPACE
heo I	Clas	sification		al An	oad: nps:	her	150.9 kVA 545 A	151.4 kVA 547 A Ind Factor	153.8 kVA 556 A Estimate		oman	4	
Load HVAC Heatir	)	sincation	2		kVA	bad	1(	00.00%	250		/A		
Misce Motor	ellane	DUS	9	90.5 I			1(	0.00%		5 kV	'A		
Other Recep	•	S		0.2 k 2.5 k	κVA		1(	0.00%	0.2	2 kV/ 5 kV/	Ą		Total
		W WORK IN BOLD DE NEW BREAKER					G - LF	PROVIDE GF PROVIDE GF - PROVIDE PE - PROVIDE P	ERMANENT I	_0C	K-OFF	DEVI	
		Branch Panel: CPDB Location: BOILER ROOM Supply From: MSB Mounting: Surface	1965				Pł	Volts: 277/48 nases: 3 Wires: 4 Phase in	-				
Nati	01/-		1.00	-	D## - *	<b>.</b>	A	-	<u>^</u>	-	0.01	14/6	
Note 1	1 3	Circuit Description			Break 70	er 3	<b>A</b> 9.4 / 0.0	<b>B</b> 9.4 / 0.0	C	Br 3	eaker 20	Wire	WATE
1	5 7 9	SCHP-1 (100 HP)	#3	/0 :	200	3	34.4 / 9.4	34.4 / 9.4	9.4 / 0.0	3	70	#4	PCHP-
	11 13					3	14.4 / 0.0		34.4 / 9.4				
1	15 17 19	HWP-1 (40 HP)	#2		90		26.6 / 0.0	14.4 / 0.0	14.4 / 0.0				
1	21 23 25	CWP-1 (75 HP)	#1	/0 /	125	3	26.6 / 0.0	26.6 / 0.0	26.6 / 0.0				
	27 29	CWP-3 (75 HP)	#1	/0	125	3		26.6 / 0.0	26.6 / 0.0				
1	31	СТ-1 (50 НР)	#2	2	100	3	18.0 / 0.0	18.0 / 0.0	18.0 / 0.0				
1	33 35		1	1					2	i.		1	·

Notes: NEW WORK IN BOLD

I - PROVIDE NEW BREAKER

Load Classification

Miscellaneous

Connected Load

153.9 kVA

159.8 kVA

103.1 kVA

Abbrevations: G - PROVIDE GFCI CIRCUIT BREAKER

 Total Amps:
 502 A
 502 A
 502 A

Demand Factor

100.00%

100.00%

100.00%

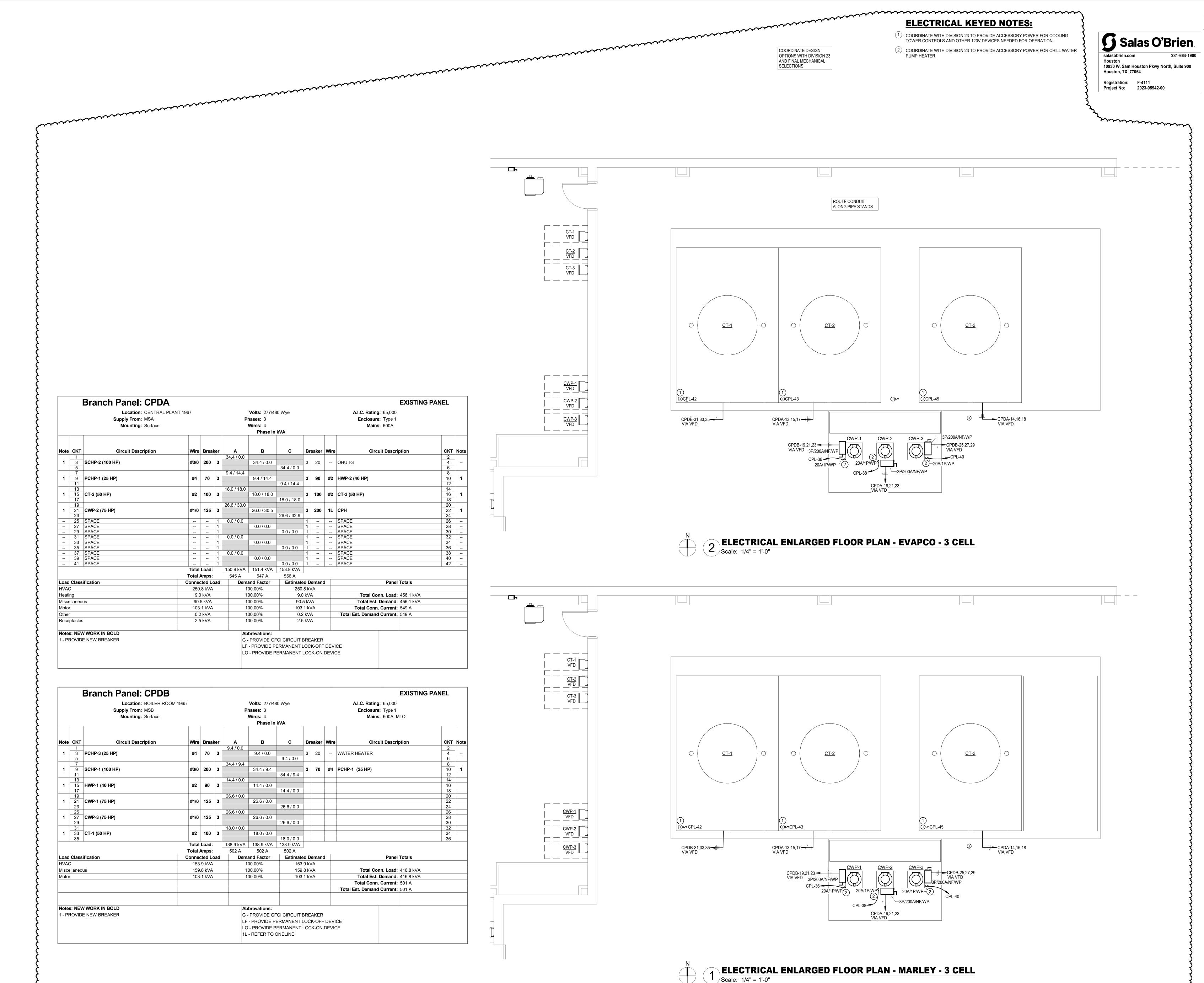
LF - PROVIDE PERMANENT LOCK-OFF DEVICE LO - PROVIDE PERMANENT LOCK-ON DEVICE 1L - REFER TO ONELINE

**Estimated Demand** 

153.9 kVA

159.8 kVA

103.1 kVA





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KEYPLAN  $\bigcirc$ **REVISION HISTORY** 1 ADDENDUM #3 01/06/2025 REVISION DESCRIPTION DATE PROFESSIONAL SEALS  $\mathbf{X}$ BRADLEY KALMANS 80219 CLIENT **CYPRESS • FAIRBANKS** INDEPENDENT SCHOOL DISTRICT PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION 33AC23221 CFISD CHECKED BY DRAWN BY JZ AW ORIGINAL ISSUE **ISSUE FOR PROPOSALS** DECEMBER 09, 2024 SHEET NAME ELECTRICAL ENLARGED PLANS -SERVICE YARD - 3 CELL SHEET NUMBER



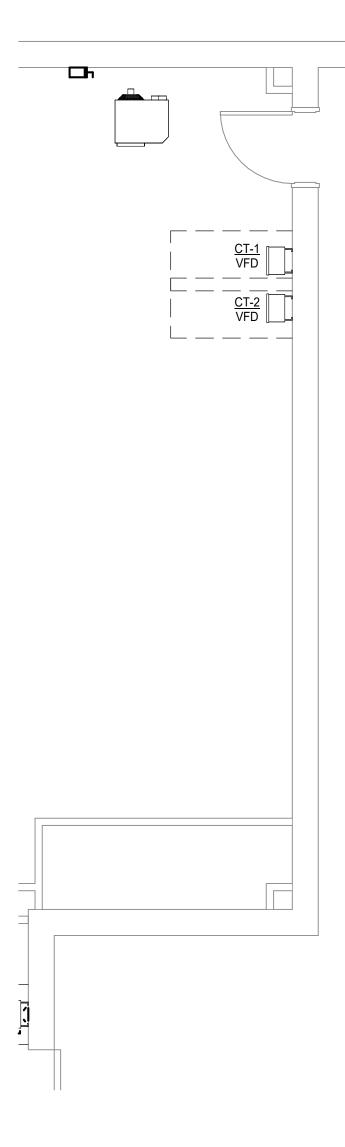
# 

		Branch Panel: CPDA										EXISTING PA	NEL	
		Location: CENTRAL PLANT Supply From: MSA Mounting: Surface	1967			P	Volts: 277/4 hases: 3 Wires: 4 Phase in					A.I.C. Rating: 65,000 Enclosure: Type 1 Mains: 600A		
Note	скт	Circuit Description	Wire	Brea	ker	A	В	с	Br	eaker	Wire	Circuit Description		Note
1	1 3 5	SCHP-2 (100 HP)	#3/0	200	3	34.4 / 0.0	34.4 / 0.0	34.4 / 0.0	3	20		OHU I-3	2 4 6	- - -
1	7 9 11	PCHP-1 (25 HP)	#4	70	3	9.4 / 14.4	9.4 / 14.4	9.4 / 14.4	3	90	#2	HWP-2 (40 HP)	8 10 12	1
1	13 15 17	СТ-2 (75 НР)	#1/0	125	3	18.0 / 18.0	18.0 / 18.0	18.0 / 18.0	1 1 1			SPACE SPACE SPACE	14 16 18	
1	19	CWP-2 (75 HP)	#1/0	125	3	26.6 / 30.0	26.6 / 30.5	26.6 / 32.9	3	200	1L	СРН	20 22 24	1
		SPACE			1	0.0 / 0.0			1			SPACE	26	
		SPACE			1		0.0 / 0.0		1			SPACE	28	
		SPACE			1			0.0 / 0.0	1			SPACE	30	
		SPACE			1	0.0 / 0.0			1			SPACE	32	
		SPACE			1		0.0 / 0.0	0.0/0.0	1			SPACE	34	
		SPACE SPACE			1	0.0 / 0.0		0.0/0.0	1			SPACE SPACE	36 38	
		SPACE			1	0.070.0	0.0 / 0.0		1			SPACE	40	
		SPACE			1		0.070.0	0.0 / 0.0	1			SPACE	42	
				Load:		150.9 kVA	151.4 kVA	153.8 kVA	<u> </u>					-
				Amps:		545 A	547 A	556 A						
Load	Class	ification	Conne				and Factor	Estimate	d D	omano	4	Panel Totals		
HVAC				).8 kVA			00.00%		.8 k\		-			
Heatin				0 kVA	<u> </u>		00.00%		) kV/			Total Conn. Load: 456.1 kVA		
Miscel	-			.5 kVA			00.00%		5 kV			Total Est. Demand: 456.1 kVA		
Motor	anco			3.1 kVA			00.00%		.1 k\			Total Conn. Current: 549 A		
Other				2 kVA			00.00%		2 kV/			Total Est. Demand Current: 549 A		
Recep	taclos			5 kVA			00.00%		5 kV/					
Recep	lacies	,	Ζ.	JKVA			00.00%	2.0	) K V /	٩				
							brevations:							
1 - PR	UVID	E NEW BREAKER						FCI CIRCUIT						
								PERMANENT						
						LO	- PROVIDE F	PERMANENT	LOC	K-ON	DEVI	CE		

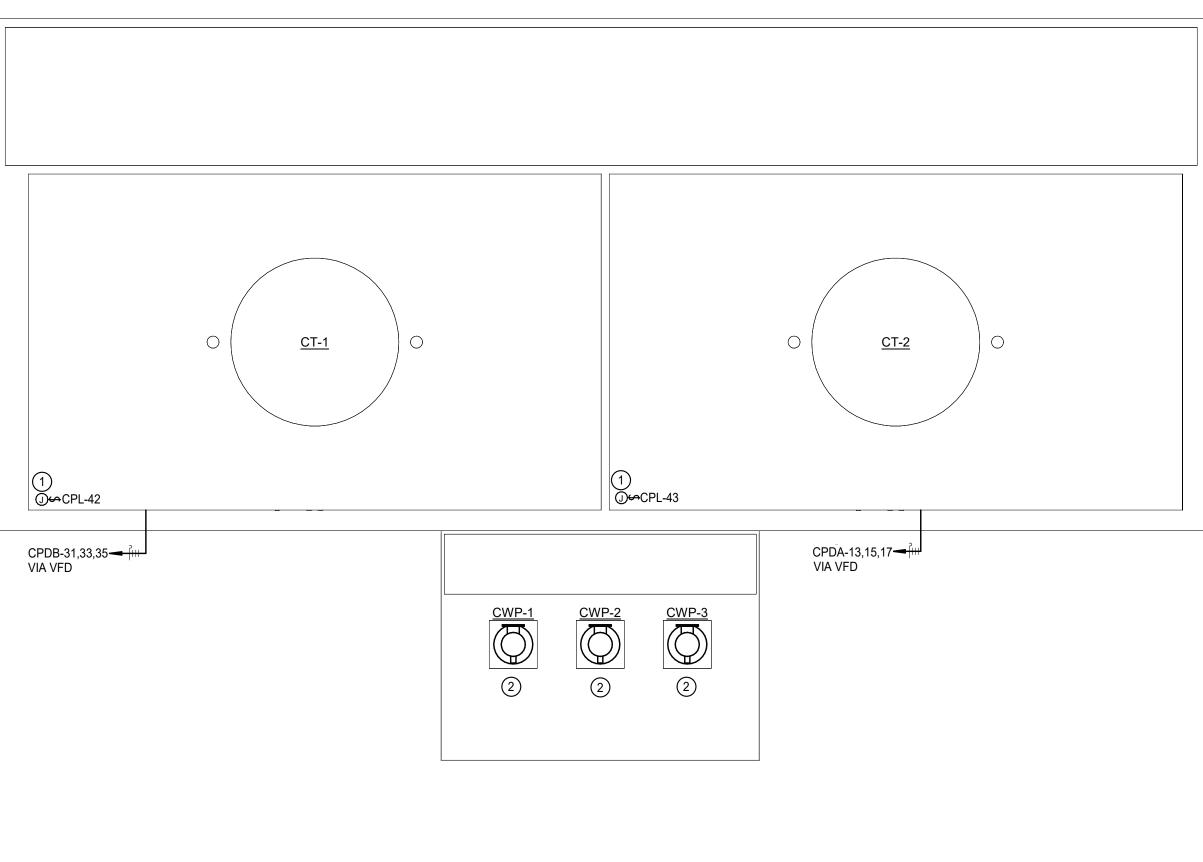
		Location: BOILER ROOM 19 Supply From: MSB Mounting: Surface	965				Volts: Phases: Wires: Pha	3	·	1		
Note	скт	Circuit Description	Wire	Brea	ker	А	В		С	Br	eaker	Wire
1	1 3	PCHP-3 (25 HP)	#4	70	3	9.4 / 0.0	9.4 /	0.0		3	20	
1	5 7 9	SCHP-1 (100 HP)	#3/0	200	3	34.4 / 9.4	34.4 /	9.4	9.4 / 0.0	3	70	#4
1	11 13 15 17	HWP-1 (40 HP)	#2	90	3	14.4 / 0.0	) 14.4 /	0.0	34.4 / 9.4			
1	17 19 21 23	CWP-1 (75 HP)	#1/0	125	3	26.6 / 0.0	26.6	0.0	26.6 / 0.0			
1	25 25 27 29	CWP-3 (75 HP)	#1/0	125	3	26.6 / 0.0	26.6	0.0	26.6 / 0.0			
1	31 33 35	СТ-1 (75 НР)	#1/0	125	3	18.0 / 0.0	18.0 /	0.0	18.0 / 0.0			
	00			Load: Amps:		138.9 kVA 502 A	A 138.9 502		138.9 kVA 502 A			
		ification	Conne			De	mand Fac	tor	Estimate			d
HVAC				.9 kVA			100.00%			.9 k\		
Misce	llaneo	us		.8 kVA .1 kVA			100.00% 100.00%			.8 k\ .1 k\		
		V WORK IN BOLD E NEW BREAKER				C L L	F - PROV	de gf Ide Pi ′Ide P	CI CIRCUIT ERMANENT ERMANENT DNELINE	LOC	K-OFF	DEV

\_\_\_\_\_

		EXISTING PAN	EL	
	A.I.C. Rating: 65,000 Enclosure: Type 1 Mains: 600A M	ILO		
e	Circuit Descri	ption	СКТ	Note
	WATER HEATER		2 4 6	
	PCHP-1 (25 HP)		8 10 12	1
			14 16	
			18	
			20	
			22	
			24	
			26	
			28	
			30	
			32	
			34	
			36	
	Panel	Totals		
	Total Conn. Load:			
	Total Est. Demand:	416.8 kVA		
	Total Conn. Current:	501 A		
	Total Est. Demand Current:	501 A		
	CE E			









# ELECTRICAL KEYED NOTES: DUBBLICATION DUBLICATION DUBLICATION DUBBLICATION DUBBLICATION DUBLICA



man



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# 1 ELECTRICAL ENLARGED FLOOR PLAN - EVAPCO - 2 CELL Scale: 1/4" = 1'-0"



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KEYPLAN  $\bigcirc$ **REVISION HISTORY** 1 ADDENDUM #3 REVISION DESCRIPTION 01/06/2025 DATE PROFESSIONAL SEALS BRADLEY KALMAN 80219 CLIENT CYPRESS • FAIRBANKS PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION 33AC23221 CFISD DRAWN BY CHECKED BY AW JZ ORIGINAL ISSUE ISSUE FOR PROPOSALS DECEMBER 09, 2024 SHEET NAME ELECTRICAL ENLARGED PLANS -SERVICE YARD - 2 CELL SHEET NUMBER

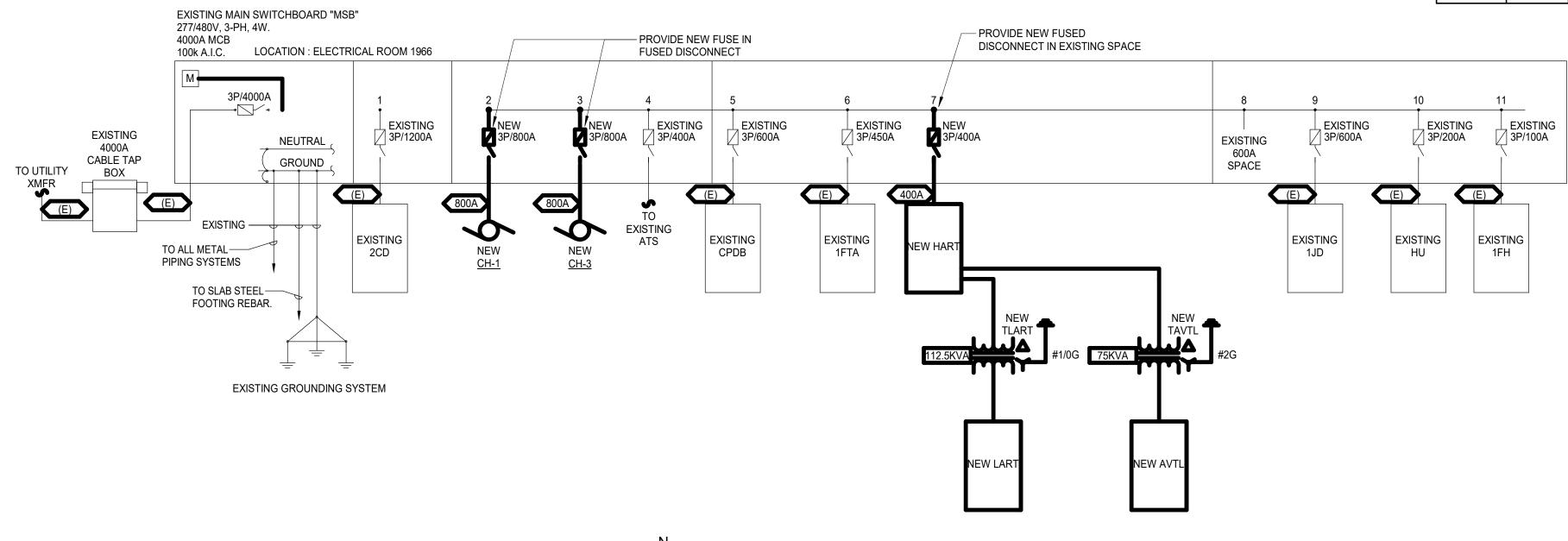


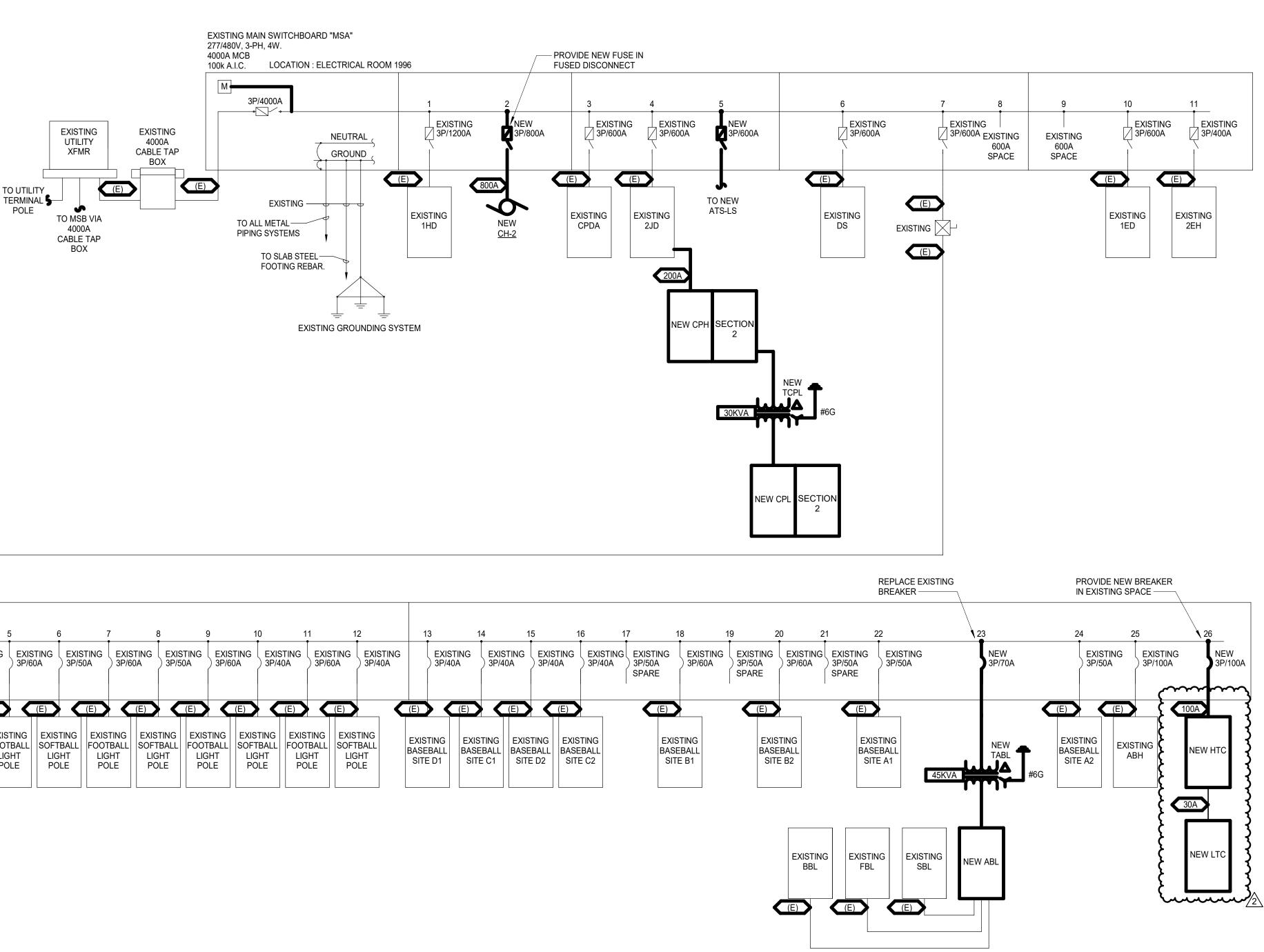
		EEDER SCHEI	DULE	
AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)/SIZE	CONDUIT
15A	1	(4) #12	#12	3/4"C
30A	1	(4) #10	#10	3/4"C
50A	1	(4) #6	#10	1"C
60A	1	(4) #4	#10	1-1/4"C
100A	1	(4) #3	#8	1-1/4"C
125A	1	(4) #1	#6	2"C
200A	1	(4) #3/0	#6	2-1/2"C
400A	2	(4) #3/0	#3	2-1/2"C
600A	2	(4) #350KCMIL	#1/0	3-1/2"C
800A	3	(4) #300KCMIL	#1/0	3"C

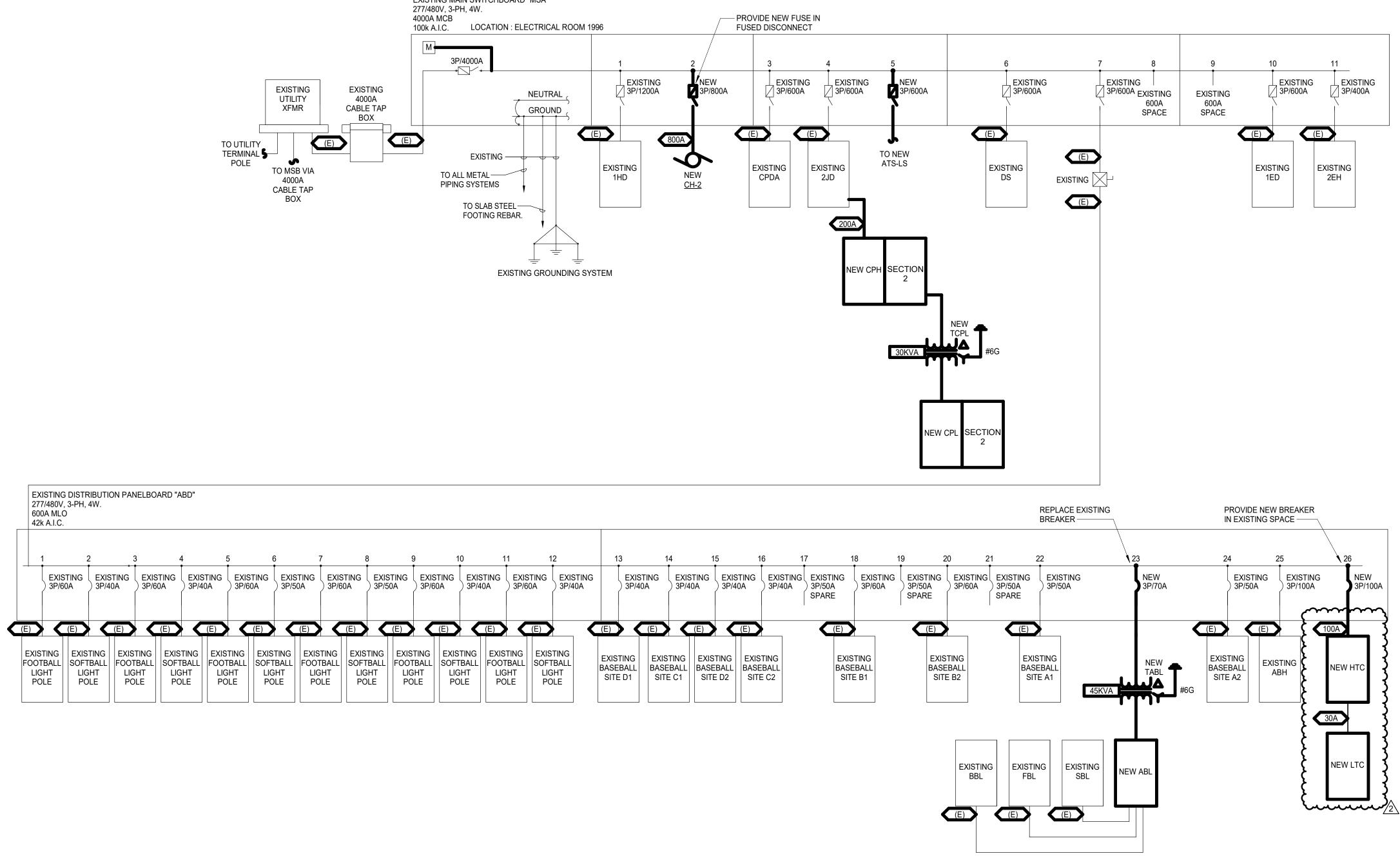
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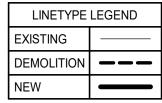
	TRANSFORM	ER SCHEDULE
PRI	MARY (480V 3PH 3W)	SECONDARY (208V 3PH 4W)
KVA	WIRE & CONDUIT	WIRE & CONDUIT
15KVA	3#10, 3/4"C, 1#12G	4#6, 1-1/4", 1#10G
30KVA	3#6, 1"C, 1#10G	4#1, 2"C, 1#6G
45KVA	3#4, 1"C, 1#8G	4#1/0, 2"C, 1#6G
75KVA	3#1, 1-1/4"C, 1#6G	4#250KCMIL, 3"C, 1#4G
112.5KVA	3#2/0, 1-1/2"C, 1#6G	(2) SETS: 4#3/0, 2-1/2"C, 1#1/0G













NEW PARTIAL ONE LINE DIAGRAM MSA



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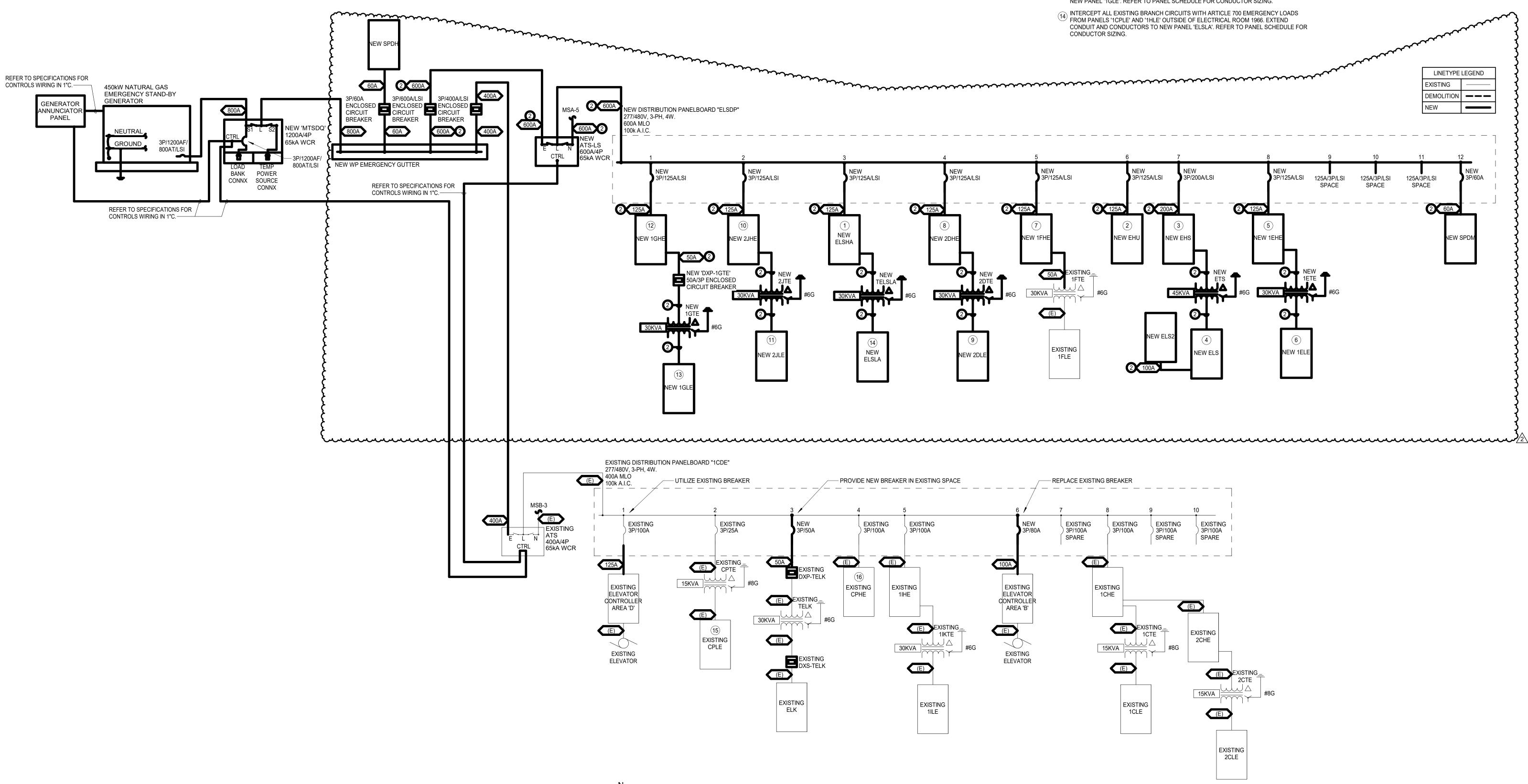
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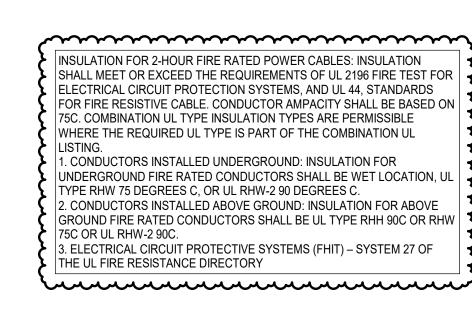
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KEYPLAN **REVISION HISTORY** 2 ADDENDUM #3 1 ADDENDUM #2 01/06/2025 12/20/2024 REVISION DESCRIPTION DATE PROFESSIONAL SEALS BRADLEY KALMAN 80219 /CENSE 01/03/202 CLIENT **CYPRESS** • FAIRBANKS INDEPENDENT SCHOOL DISTRICT PROJECT 2024 CY RIDGE HS RENOVATION 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION 33AC23221 CFISD DRAWN BY CHECKED BY AW JZ ORIGINAL ISSUE **ISSUE FOR PROPOSALS** DECEMBER 09, 2024 SHEET NAME ELECTRICAL NEW ONE-LINE SHEET NUMBER







NEW PARTIAL ONE LINE DIAGRAM EMERGENCY Scale: 12" = 1'-0"

las O'E	<b>Brien</b>
n	281-664-1900
Iouston Pkwy Nor	th, Suite 900
7064	
F-4111 2023-05942-00	
	n Iouston Pkwy Nor 7064 F-4111

## **ELECTRICAL KEYED NOTES:**

- INTERCEPT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS FROM PANELS '1CPHE' AND '1HHE' OUTSIDE OF ELECTRICAL ROOM 1966. EXTEND CONDUIT AND CONDUCTORS TO NEW PANEL 'ELSHA'. REFER TO PANEL SCHEDULE FOR PANEL 'CPLE'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING. CONDUCTOR SIZING. RECONNECT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS
- $^\prime$  FROM PANEL 'EHU'. EXTEND CONDUIT AND CONDUCTORS AS NEEDED TO NEW PANEL 'EHU'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING. RECONNECT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS FROM PANELS 'EHS', '2CHE' AND '1CHE'. EXTEND CONDUIT AND CONDUCTORS AS
- NEEDED TO NEW PANEL 'EHS'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING. RECONNECT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS  $^{/}$  FROM PANELS 'ELS', '2CLE' AND '1CLE'. EXTEND CONDUIT AND CONDUCTORS AS NEEDED
- TO NEW PANEL 'ELS. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING. RECONNECT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS  $^{32}$  FROM PANELS '1EHE'. EXTEND CONDUIT AND CONDUCTORS AS NEEDED TO NEW PANEL '1EHE'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING.
- RECONNECT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS <sup>9</sup> FROM PANELS '1ELE'. EXTEND CONDUIT AND CONDUCTORS AS NEEDED TO NEW PANEL '1ELE'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING.
- RECONNECT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS <sup>/</sup> FROM PANELS '1FHE'. EXTEND CONDUIT AND CONDUCTORS AS NEEDED TO NEW PANEL '1FHE'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING. RECONNECT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS
- ${}^{\mathcal{O}}$  FROM PANELS '2DHE'. EXTEND CONDUIT AND CONDUCTORS AS NEEDED TO NEW PANEL '2DHE'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING.
- RECONNECT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS <sup>(9)</sup> FROM PANELS '2DLE'. EXTEND CONDUIT AND CONDUCTORS AS NEEDED TO NEW PANEL '2DLE'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING. RECONNECT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS
- $^{\prime\prime}$  FROM PANELS '2JHE' AND '1IHE''. EXTEND CONDUIT AND CONDUCTORS AS NEEDED TO NEW PANEL '2JHE'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING. RECONNECT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS <sup>/</sup> FROM PANELS '2JLE' AND '1ILE'. EXTEND CONDUIT AND CONDUCTORS AS NEEDED TO
- NEW PANEL '2JLE'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING. RECONNECT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS FROM PANELS '1GHE'. EXTEND CONDUIT AND CONDUCTORS AS NEEDED TO NEW PANEL '1GHE'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING.
- RECONNECT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 700 EMERGENCY LOADS <sup>(13)</sup> FROM PANELS '1GLE' AND 'ELU'. EXTEND CONDUIT AND CONDUCTORS AS NEEDED TO NEW PANEL '1GLE'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING.

LOADS FROM PANELS '1ELU', '1GLE' AND '1ELE' EXTEND CONDUIT AND CONDUCTORS TO INTERCEPT ALL EXISTING BRANCH CIRCUITS WITH ARTICLE 701 AND 702 EMERGENCY <sup>/</sup> LOADS FROM PANEL '1GHE' EXTEND CONDUIT AND CONDUCTORS TO PANEL 'CPHE'. REFER TO PANEL SCHEDULE FOR CONDUCTOR SIZING. 7) PROVIDE 2-HOUR FIRE RATED CABLE.



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#### LANDSCAPE/IRRIGATION KW Landscape Architects 6925 Portwest Drive Suite 100 Houston, TX 77024 346.509.5638

KEYPLAN  $\left( \begin{array}{c} \\ \end{array} \right)$ REVISION HISTORY 01/06/2025 ADDENDUM #3 ADDENDUM #2 12/20/2024 REVISION DESCRIPTION DATE PROFESSIONAL SEALS BRADI FY KAI MAN 80219 /CENSE CLIENT **CYPRESS** • FAIRBANKS INDEPENDENT SCHOOL DISTRICT PROJECT 2024 CY RIDGE HS RENOVATION

#### 7900 North Eldridge Parkway Houston, TX 77041 PROJECT NUMBER ABBREVIATION

33AC23221 CFISD CHECKED BY DRAWN BY AW JZ ORIGINAL ISSUE **ISSUE FOR PROPOSALS** DECEMBER 09, 2024

SHEET NAME ELECTRICAL NEW EMERGENCY ONE-LINE

SHEET NUMBER



$\sim$	$\sim$	$\sim$
		Br
HVAC Misce Rece Notes 1 - PF	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 Class Class Class Class Class Class Class	us 3 V WC
		Br
Note 2  1 1           	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	SPA HAN SOU SPA DMS SPA SPA SPA SPA SPA SPA SPA SPA SPA SP
HVAC Misce Rece Notes 1 - PF	Class ellaneo ptacles s: NEV ROVIDI ERIFY	us 3 V WC
		Br
Note       	CKT 1 3 5 7 9 11 13 15 17 19 21 23	Rec Exte EF- SPA SPA SPA SPA SPA SPA

1 Receptacles	#12 20 1 0.7 / 0.0	1 20 SP/	ARE	2 15 SPARE	20 1	0.070.0		IU AHU-GO	18
3 Exterior Lighting	#12 20 1 0.2/0.0			17   SPARE	20 1	0.0/0.0	0.0 / 0.0		18
5 Interior Lighting	#12 20 1	0.3/0.0 1 20 SP		19   SPARE	20 1				20
7 EF-FH-1	#12 20 1 0.0 / 0.0	1 20 SP			20 1 20 1	0.0 / 0.6	3 20 # 0.0/0.6	12   SF-G-1	22 24
9 SPARE	20 1 0.0/0.0			8 23 SPARE 10 25 SPARE	20 1	0.0/16.3	0.070.8		24
11 SPARE	20 1	0.0/0.0 1 20 SP		12 27 SPARE	20 1	0.0 / 16.3	3 125		28
13 SPARE	20 1 0.0 / 0.0	1 20 SP		14 29 SPARE	20 1		0.0 / 15.7		30
15 SPARE	20 1 0.070.0 20 1 0.070.0			31 SPARE	20 1	0.0 / 25.7			32
17 SPARE	20 1 0.070.0			33 SPARE	20 1	0.0 / 28.4	3 175	1L TLART	34
	20 1 20 1 0.0/0.0	0.0/0.0 1 20 SP/		35 SPARE	20   1		0.0 / 29.9		36
19 SPARE		0 3 30 SPI		JI JFANL	20 1				38
21 SPARE	20 1 0.0/0.0 20 1			00 01 / 11 12	20 1	0.0 / 0.0	3 30	SPDL	40
23 SPARE		0.0 / 0.0		24 41 SPARE	20 1		0.0 / 0.0		42
	Total Load: 0.7 kVA 0.2 kVA				Total Load:	48.4 kVA 51.6 kVA	50.2 kVA		
	Total Amps:6 A1 A	2 A			Total Amps:	175 A 187 A	182 A		
Classification	Connected Load Demand Factor		Panel Totals	Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
ting	0.4 kVA 125.00%	0.5 kVA		HVAC	1.2 kVA	100.00%	1.2 kVA		
ellaneous	0.0 kVA 0.00%	0.0 kVA	Total Conn. Load: 1.1 kVA	Lighting	27.9 kVA	125.00%	34.9 kVA	Total Conn. Load: 150.2 kVA	
eptacles	0.7 kVA 100.00%	0.7 kVA	Total Est. Demand: 1.2 kVA	Miscellaneous	85.2 kVA	100.00%	85.2 kVA	Total Est. Demand: 144.5 kVA	
			Total Conn. Current: 3 A	Other	0.4 kVA	100.00%	0.4 kVA	Total Conn. Current: 181 A	
		Тс	tal Est. Demand Current: 3 A	Receptacles	35.5 kVA	64.10%	22.7 kVA	Total Est. Demand Current: 174 A	
S:	Abbrevations	s:		Notes:		Abbrevations:			
		E GFCI CIRCUIT BREAKER					FCI CIRCUIT BREAKER		
		E PERMANENT LOCK-OFF DEVICE					PERMANENT LOCK-OFF D	EVICE	
	LU - PROVID	DE PERMANENT LOCK-ON DEVICE					PERMANENT LOCK-ON DE		
						1L - REFER TO			

### PANELBOARD CIRCUIT DIRECTORY: CONTRACTOR SHALL RECORD AND/OR PRESERVE THE

EXISTING CIRCUIT DIRECTORY, IF ANY, FOR THE SOLE PURPOSE UPON COMPLETION OF NEW WORK OF PRODUCING A NEW DIRECTORY. CONTRACTOR SHALL PROVIDE AS PART OF THE

CONSTRUCTION DOCUMENTS A NEW, NEATLY TYPED DIRECTORY. CONTRACTOR SHALL TRACE EXISTING CIRCUITS AND SHALL LEGIBLY IDENTIFY AS TO IT'S CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE, LOADS SERVED, LOCATION AND/OR THE PANELBOARD SCHEDULE ON THE DRAWINGS. THE WORD "EXISTING" SHALL NOT BE USED ON PANELBOARD DIRECTORIES. SPARE BREAKERS ARE TO BE LISTED AS "SPARE" AND SWITCHED TO THE OFF POSITION. SPACES WITH NO BREAKERS ARE TO BE LEFT BLANK. REFER TO

NEC-2023: 408.4(A) FOR DETAILS. CONTRACTOR SHALL PERMANENTLY LABEL AS PART OF THE CONSTRUCTION DOCUMENTS ALL SWITCHBOARDS, SWITCHGEAR AND PANELBOARDS TO INDICATE EACH POWER SOURCE. REFER TO NEC-2023: 408.4(A) FOR DETAILS.

Branch Panel: BBL						EXISTING	PANEL									
Location: Supply From: ABL Mounting: RECESSED			Volts: 120/ Phases: 3 Wires: 4 Phase	·		A.I.C. Rating: 10,000 Enclosure: Type 1 Mains: 50A MCB										
Circuit Description	Wire	Breaker A	в	с	Breaker	Wire Circuit Description	CKT Note	В	ranch Panel: LART						NEW P	 ANEL
•		05/00	)		1 20		2			1010		Valta 400/0				
SPARE		20 2 0.570.0	0.5 / 0.0			(E) RECEPTACLES	4			1019	-	Volts: 120/2	08 Wye		<b>A.I.C. Rating:</b> 10,000	
HAND CHAIR LIFT	(E)	20 1		0.0 / 0.0	1 20	(É) RECEPTACLES	6		Supply From: TLART		F	Phases: 3			Enclosure: Type 1	
SCOREBOARD	(E)	20 1 0.0/0.0			1 20	(E) HAND CHAIR LIFT LTG	8		Mounting: Surface			Wires: 4			Mains: 400A MCB	
RECEPTACLES BLEACHERS	(E)	20 1	0.0 / 0.0			(E) RECEPTACLES	10					Phase in	n kVA			
SOUND SYSTEM	(E)	20 1		0.0 / 0.0	1 20	SPARE	12									
BATTING CAGE	(E)	20 1 0.0/0.0			1 20	(E) DUGOUT 3RD BASE	14									
BATTING CAGE	(E)	20 1	0.0 / 0.0		1 20		16	Note CKT	<b>Circuit Description</b>	Wire Breaker	Δ	в	С	Breaker Wire	<b>Circuit Description</b>	CKT Not
				0.0 / 0.0	1 20	#12 DMS-17 CONDENSATION PUMP	18		_N FAN	#12 20 1	0.2 / 1.1		•		Receptacles DIGITAL ART G1017	
STORAGE	(E)	20 3 0.0 / 1.0			2 30	#10 DMSCU-17	20 22 1		_N FAN	#12 20 1	0.271.1	0.2 / 0.4			Receptacles DIGITAL ART G1017	
			0.0 / 1.0				22		ceptacles KILN G1026	#12 20 1		0.270.4	0.2/0.4		Receptacles DIGITAL ART G1017	6
MAINTENANCE Receptacles	#12	20 1		0.2 / 0.0	1	SPACE	24	_	ceptacles Room G1004, G1006, G1008	#12 20 1	0.5/0.4		0.270.4		Receptacles DIGITAL ART G1017	8
SPACE		1 0.0 / 0.0			1		26		ceptacles BLACK BOX G1006	#12 20 1	0.070.4	1.1/0.4			Receptacles DIGITAL ART G1017	10
SPACE		1	0.0 / 0.0		1	SPACE	28		ceptacles CHAIR STORAGE G1005	#12 20 1		1.170.4	0.5/0.4		Receptacles DIGITAL ART G1017	12
SPACE				0.0 / 0.0	1	SPACE	30			#12 20 1	0.4 / 0.4		0.570.4		Receptacles DIGITAL ART G1017	14
SPACE		1 0.0 / 0.0			1		32		ceptacles	#12 20 1	0.470.4	0.4 / 0.4			Receptacles DIGITAL ART G1017	16
SPACE		1	0.0 / 0.0		1	SPACE	34		ceptacles Room 1003	#12 20 1		0.470.4	0.4 / 0.4		Receptacles DIGITAL ART G1017	18
SPACE		•		0.0 / 0.0	1	SPACE	36		eceptacles	#12 20 1	0.4 / 0.5		0.470.4		ROOFTOP RECEPTACLES	20
SPACE		1 0.0/0.0					38		eceptacles	#12 20 1	0.470.3	0.4 / 0.6		1 20 #12 F		20
SPACE		1	0.0 / 0.0		3 30	#10 SPDL	40 1		eceptacles	#12 20 1		0.470.0	0.4 / 0.6			24
SPACE		1		0.0 / 0.0			42		ceptacles Room G1024, G1025, G1022, G10		0.9 / 0.5		0.470.0	1 20 #12 0		24
	Total	Load: 1.5 kVA	1.5 kVA	0.2 kVA					ceptacles MUSIC LIBRARY G1023	#12 20 1	0.970.3	0.9 / 0.1				28
	Total A	Amps: 14 A	14 A	2 A					ceptacles ENSEMBLE G1018	#12 20 1		0.970.1	1.1/0.1	2 20 #10 3	D PRINTER	30
ification		•	mand Factor	Estimat	ed Deman	d Panel Totals			ceptacles ENSEMBLE G1018	#12 20 1	0.4 / 0.4		1.170.1	1 20 #10 3		32
		) kVA	100.00%		0 kVA				ceptacles OFFICE G1010	#12 20 1	0.470.4	0.7 / 0.5		1 20 #10 0		34
									ceptacles OFFICE G1010	#12 20 1		0.770.5	0.7 / 0.5			36
JS		) kVA	100.00%		0 kVA	Total Conn. Load: 3.2 kVA			ceptacles CONTROL ROOM G1009	#12 20 1	09/05		0.170.0	1 20 #12 0		38
	0.2	2 kVA	100.00%	0.	2 kVA	Total Est. Demand: 3.2 kVA			CONNECTIVITY WALL PLATE	#12 20 1	0.370.3	1.5 / 0.0		1 20 #12 1		40
						Total Conn. Current: 9 A			ceptacles DIGITAL ART G1017	#12 20 1		1.07 0.0	11/05	1 20 #12 0		40
						Total Est. Demand Current: 9 A			DRD REEL	#12 20 1	0.5/0.4		1.170.0		UDIO CONNECTIVITY CONSOLE	44
									ceptacles ART OFFICE G1014	#12 20 1	0.070.4	0.9 / 0.4				46
									ceptacles ART OFFICE G1014	#12 20 1		0.070.7	1.1/0.2		Receptacles BLACK BOX-1 G1006-1	48
									ceptacles BLACK BOX-1 G1006-1	#12 20 1	0.2/0.4		, 0.2		Receptacles BLACK BOX-1 G1006-1	50
/ WORK IN BOLD			Abbrevations:						ceptacles ART G1011	#12 20 1	0.27 0.1	1.4 / 1.5		1 20 #10 A		52
E NEW BREAKER			G - PROVIDE (	GFCI CIRCUIT	BREAKER				ceptacles ART G1011	#12 20 1				1 20 #10 A		54
EXISTING LOAD IS DEMOLISHED, LEAVE BI	REAKER AS	SPARE	LF - PROVIDE	PERMANENT	LOCK-OFF	DEVICE			DRD REEL	#12 20 1	0.5/1.5		0.071.0	1 20 #10 <i>/</i>		56
			-	PERMANENT					DRD REEL	#12 20 1	0.071.0	0.5 / 1.5		1 20 #10 <i>/</i>		58
					LOOK-ON				DRD REEL	#12 20 1		0.071.0	0.5 / 0.5		HEATRICAL PANEL	60
									DRD REEL	#12 20 1	0.5/0.5		0.07 0.0		HEATRICAL PANEL	62
									ceptacles ART G1011	#12 20 1		02/10				64 1

ranch Panel: FBL										EXISTING PANEL				
Location: Supply From: ABL Mounting: RECESSED			F	Volts: 120/20 Phases: 3 Wires: 4 Phase in				A.I.C. Rating: 10,000 Enclosure: Type 1 Mains: 50A MCB						
Circuit Description	14/5+0	Breeke				Dre	eaker	\A/iro	Circuit Deseri	ation CK	T Note			
Circuit Description	Wire	Breake	• <b>A</b>	В	C		20		Circuit Descri					
ARE		20 2	0.070.0	0.0 / 0.0		1	20	(E) (E)	RECEPTACLES	2				
ND CHAIR LIFT	(E)	20 1		0.070.0	0.0 / 0.0	1	20	(E)	RECEPTACLES	6				
UND SYSTEM	(E)	20 1			0.070.0	1	20	(E)	HAND CHAIR LIFT LIGHTING	8				
	(Ľ)			0.0 / 0.0		1	20		SPARE	10				
ARE		20 2		0.070.0	0.0 / 0.0	1	20		SPARE	12				
IS-18 CONDENSATION PUMP	#12	20 1	1.0 / 1.0		0.070.0	<u> </u>				12				
INTENANCE Receptacle	#12	20 1		0.2 / 1.0		2	30	#10	DMSCU-18	16				
ACE		1		0.271.0	0.0 / 0.0	1			SPACE	18				
ACE		1	0.0 / 0.0			1			SPACE	20				
ACE		1		0.0 / 0.0		1			SPACE	22				
ACE		1			0.0/0.0	1			SPACE	24				
ACE		1	0.0 / 0.0			1			SPACE	26				
ACE		1		0.0 / 0.0		1			SPACE	28				
ACE		1			0.0/0.0	1			SPACE	30				
ACE		1	0.0 / 0.0			1			SPACE	32				
ACE		1		0.0 / 0.0		1			SPACE	34	4			
ACE		1			0.0 / 0.0	1			SPACE	36	3			
ACE		1	0.0 / 0.2							38	3			
ACE		1		0.0 / 0.2		3	30	#10	NEW SPDL	40	0 1			
ACE		1			0.0/0.2	1				42	2			
	Total	Load:	2.2 kVA	1.3 kVA	0.2 kVA	<u> </u>								
	Total /	Amps:	20 A	13 A	1 A	_								
ation		ted Loa		and Factor	Estimat	ed De	eman	d	Panel	Totals				
		kVA		100.00%		) kVA		-						
		kVA		100.00%		5 kVA			Total Conn. Load:	3 7 k)/A				
	0.2	kVA		100.00%	0.4	2 kVA	4		Total Est. Demand:					
									Total Conn. Current:					
									Total Est. Demand Current:	10 A				
ORK IN BOLD EW BREAKER STING LOAD IS DEMOLISHED, LEAVE E	BREAKER AS	SPARE	G Lf	<b>bbrevations:</b> - PROVIDE GI - PROVIDE P - PROVIDE F	ERMANENT	LOCI	K-OFF	DEVI						

ranch Panel: LFS					NEW	P P	NEL	. WIT	TH INTEGRAL 15kVA T	RANSFORM	IER	
Location: Supply From: Mounting: Surface			F	Volts: 120/20 Phases: 3 Wires: 4 Phase in	-				A.I.C. Rating: 10,000 Enclosure: Type 1 Mains: 50A M	СВ		
Circuit Description	Wire	Breaker	Α	В	с	Br	eaker	Wire	Circuit Descri	ntion	СКТ	Note
eceptacles	#12	20 1	0.7 / 0.0		Ū	1	20		SPARE	ption	2	
terior Lighting	#12	20 1	0.170.0	0.2 / 0.0		1	20		SPARE		4	
erior Lighting	#12	20 1		0.270.0	0.3 / 0.0	1	20		SPARE		6	
F-FH-1	#12	20 1	0.0 / 0.0			1	20		SPARE		8	
PARE		20 1		0.0 / 0.0		1	20		SPARE		10	
PARE		20 1			0.0 / 0.0	1	20		SPARE		12	
PARE		20 1	0.0 / 0.0			1	20		SPARE		14	
PARE		20 1		0.0 / 0.0		1	20		SPARE		16	
PARE		20 1			0.0 / 0.0	1	20		SPARE		18	
PARE		20 1	0.0 / 0.0								20	
PARE		20 1		0.0 / 0.0		3	30		SPDL		22	1
PARE		20 1			0.0 / 0.0						24	1
	Total	Load:	0.7 kVA	0.2 kVA	0.3 kVA						·	•
	Total A	Amps:	6 A	1 A	2 A	_						
ation	Connec	cted Load	l Den	nand Factor	Estimate	ed D	emano	k	Panel	Totals		
	0.4	kVA		125.00%	0.5	5 kV/	4					
	0.0	) kVA		0.00%	0.0	) kV/	4		Total Conn. Load:	1.1 kVA		
	0.7	′ kVA		100.00%	0.7	7 kV	4		Total Est. Demand:	1.2 kVA		
									Total Conn. Current:	3 A		
									Total Est. Demand Current:	3 A		
	-		G Li	bbrevations: - PROVIDE GF - PROVIDE P D - PROVIDE F	ERMANENT	LOC	K-OFF					

**Salas O'Brien**, salasobrien.com 281-664-1900 Houston 10930 W. Sam Houston Pkwy North, Suite 900 Houston, TX 77064 Registration: F-4111 Project No: 2023-05942-00

Branch Panel: LART Location: MECHANICAL G1 Supply From: TLART Mounting: Surface	019	1		P	Volts: 120/20 Phases: 3 Wires: 4 Phase in	-			1	NEW PANI A.I.C. Rating: 10,000 Enclosure: Type 1 Mains: 400A MCB	<b>= L</b>	1
	Mire	Broo	kor	•	В	6	Dr	ookor	Wire	Circuit Description	СИТ	Not
Circuit Description           KILN FAN           KILN FAN	Wire #12 #12	<b>Brea</b> 20 20		<b>A</b> / 1.1	B 0.2 / 0.4	C	<b>D</b> r 1	<b>eaker</b> 20 20	#12	Circuit Description Receptacles DIGITAL ART G1017 Receptacles DIGITAL ART G1017	2 4	NOU
Receptacles KILN G1026 Receptacles Room G1004, G1006, G1008	#12	20 20 20	1 1.5	/ 0.4	0.270.1	0.2/0.4	1	20 20 20	#12	Receptacles DIGITAL ART G1017 Receptacles DIGITAL ART G1017	6	
Receptacles BLACK BOX G1006 Receptacles CHAIR STORAGE G1005	#12 #12	20 20	1 1		1.1 / 0.4	0.5 / 0.4	1 1	20 20	#12	Receptacles DIGITAL ART G1017 Receptacles DIGITAL ART G1017	10 12	
Receptacles       Receptacles	#12 #12	20 20	1 0.4 1	/ 0.4	0.4 / 0.4		1 1	20 20	#12	Receptacles DIGITAL ART G1017 Receptacles DIGITAL ART G1017	14 16	
Receptacles Room 1003           Receptacles	#12 #12	20 20	1 1 0.4	/ 0.5		0.4 / 0.4	1	20 20	#12	Receptacles DIGITAL ART G1017 ROOFTOP RECEPTACLES	18 20	
Receptacles Receptacles	#12 #12	20 20	1	/ 0. 5	0.4 / 0.6	0.4 / 0.6	1	20 20	#12	EF-G-6 EF-G-4	22 24	
Receptacles Room G1024, G1025, G1022, G102 Receptacles MUSIC LIBRARY G1023 Receptacles ENSEMBLE G1018	21 #12 #12 #12	20 20 20	1 0.9	/ 0.5	0.9 / 0.1	1.1/0.1	1	20 20		CORD REEL 3D PRINTER	26 28 30	-
Receptacles ENSEMBLE G1018           Receptacles ENSEMBLE G1018           Receptacles OFFICE G1010	#12 #12 #12	20 20 20	1 0.4	/ 0.4	0.7 / 0.5	1.170.1	1	20 20		3D PRINTER CORD REEL	30 32 34	
Receptacles OFFICE G1010 Receptacles CONTROL ROOM G1009	#12 #12 #12	20 20 20	1	/ 0.5	0.770.3	0.7 / 0.5	1	20 20 20	#12	CORD REEL CORD REEL	36	
AV CONNECTIVITY WALL PLATE Receptacles DIGITAL ART G1017	#12	20 20 20	1	, 0.0	1.5 / 0.0	1.1 / 0.5	1	20 20 20	#12	TRAP PRIMER CORD REEL	40	
CORD REEL Receptacles ART OFFICE G1014	#12	20 20		/ 0.4	0.9 / 0.4		1	20 20	#12	AUDIO CONNECTIVITY CONSOLE AUDIO CONNECTIVITY CONSOLE	44 46	
Receptacles ART OFFICE G1014 Receptacles BLACK BOX-1 G1006-1	#12 #12		1 1 0.2	/ 0.4		1.1/0.2	1 1	20 20	#12	Receptacles BLACK BOX-1 G1006-1 Receptacles BLACK BOX-1 G1006-1	48 50	
Receptacles ART G1011 Receptacles ART G1011	#12 #12	20 20	1		1.4 / 1.5	0.5 / 1.5	1	20 20	#10 #10	AV RACK AV RACK	52 54	
CORD REEL	#12 #12	20 20	1	/ 1.5	0.5 / 1.5	05/05	1	20 20	#10	AV RACK AV RACK	56 58	
CORD REEL         CORD REEL         3         Receptacles ART G1011	#12 #12	20 20 20	1 1 0.5	/ 0.5	0.2/10	0.5 / 0.5	1	20 20 20	#12	THEATRICAL PANEL THEATRICAL PANEL THEATRICAL Lighting	60 62	4
Receptacles ART G1011         Receptacles ART G1011         Receptacles ART G1011	#12 #12 #12	20 20 20	1 1 1 02	/ 1.0	0.2 / 1.0	0.2 / 1.0	1 1 1	20 20 20	#10	THEATRICAL Lighting THEATRICAL Lighting THEATRICAL Lighting	64 66 68	1 1 1
Receptacles ART G1011 Receptacles ART G1011 Receptacles ART STORAGE G1013	#12 #12 #12	20 20 20	1	, 1.0	0.2 / 1.0	0.9 / 1.0	1 1 1	20 20 20	#10	THEATRICAL Lighting THEATRICAL Lighting THEATRICAL Lighting	70	1 1 1
WATER FOUNTAIN/BOTTLE FILLER	#12 #12 #12	20 20 20	1 0.2	/ 1.0	0.2 / 1.0	0.07 1.0	1	20 20 20	#10	THEATRICAL Lighting THEATRICAL Lighting THEATRICAL Lighting	74	1
Receptacles CONTROL ROOM G1009 AUDIO CONSOLE	#12	20 20 20	1 1.5	/ 1.0		0.7 / 1.0	1	20 20 20	#10	THEATRICAL Lighting THEATRICAL Lighting	78	1
AUDIO CONSOLE AUDIO CONNECTIVITY CONSOLE	#12 #12	20 20	1		1.5 / 1.0	0.4 / 1.0	1	20 20	#10	THEATRICAL Lighting THEATRICAL Lighting	82 84	1
THEATRICAL Lighting THEATRICAL Lighting	#10 #10	20 20	1 1.0 1	/ 0.0	1.0 / 0.0		1 1	20 20		SPARE SPARE	86 88	
THEATRICAL Lighting THEATRICAL Lighting	#10 #10	20 20		/ 0.0		1.0 / 0.0	1	20 20		SPARE SPARE	90 92	
THEATRICAL Lighting THEATRICAL Lighting	#10 #10	20 20	1		1.0 / 0.0	1.0 / 0.0	1	20 20		SPARE SPARE	94 96	
THEATRICAL Lighting THEATRICAL Lighting	#10 #10	20 20	1 1.0 1	/ 0.0	1.0 / 0.0		1	20 20		SPARE SPARE	98 100	
1 THEATRICAL Lighting 3 THEATRICAL Lighting	#10 #10	20 20	1 1.0	/ 0.0	4.0.4.0.0	1.0 / 0.0	1	20 20		SPARE SPARE	102	
5 THEATRICAL Lighting 7 THEATRICAL Lighting 9 THEATRICAL Lighting	#10 #10 #10	20 20 20	1 1.0	/ 0.0	1.0 / 0.0	1.0 / 0.0	1 1 1	20 20 20		SPARE SPARE SPARE	106 108 110	
1 CP-1 3 SPARE	#12	20 20 20	1	7 0.0	0.6 / 0.0	0.0 / 4.2	1	20		SPARE	112	
5 SPARE 7 SPARE		20 20	1 0.0	/ 4.2	0.0 / 4.2		2	50		KILN	116 118	
9 SPARE 1 SPARE		20 20	1 1 0.0	/ 0.0		0.0/4.2	2	50	#6	KILN	120 122	
3     SPARE       5     SPARE		20 20	1 1		0.0 / 0.0	0.0 / 0.0	3	30		SPDL	124 126	
	Total Total	Load: Amps:		7 kVA 15 A	28.4 kVA 240 A	29.9 kVA 252 A						
ssification	Connection 1.2	c <b>ted L</b> 2 kVA	oad	-	and Factor	Estimat	<b>ed D</b> 2 kV/		d	Panel Totals		
eous		0 kVA 2 kVA			125.00% 100.00%		.0 kV .2 kV			Total Conn. Load: 84.0 kVA Total Est. Demand: 80.4 kVA		
	0.4	4 kVA		1	00.00%	0.4	4 kV/	Ą		Total Conn. Current: 233 A		
es	29.	2 kVA			67.15%	19	.6 kV	Ά		Total Est. Demand Current: 223 A		
O E3.07-G KEYNOTE 14				G LF	obrevations: - PROVIDE GI - PROVIDE P ) - PROVIDE F	ERMANENT	LOC	K-OFF	DEVI			
Branch Panel: HART Location: MECHANICAL G1 Supply From: Mounting: Surface	019			P	Volts: 277/4 Phases: 3 Wires: 4 Phase in	-				NEW PAN A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 400A MCB	EL	1
Location: MECHANICAL G1 Supply From: Mounting: Surface					Phases: 3 Wires: 4 Phase in	kVA				A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 400A MCB		• 5
Location: MECHANICAL G1 Supply From: Mounting: Surface T Circuit Description Lighting CORRIDOR-1 G1001-1	<b>Wire</b> #12	20		P A / 0.0	Phases: 3 Wires: 4 Phase in B	-	1	eaker		A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 400A MCB Circuit Description	<b>CKT</b> 2	Note
Location: MECHANICAL G1 Supply From: Mounting: Surface T Circuit Description Lighting CORRIDOR-1 G1001-1 Lighting Room G1021, G1022, G1024, G1023, Lighting	Wire #12 #12 #12	20 20 20	1 1.7 1 1	<b>A</b> 7 0.0	Phases: 3 Wires: 4 Phase in	kVA	Br 1 1		-	A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 400A MCB Circuit Description	<b>CKT</b> 2 4 6	Note  
Location: MECHANICAL G1 Supply From: Mounting: Surface T Circuit Description Lighting CORRIDOR-1 G1001-1 Lighting Room G1021, G1022, G1024, G1023, Lighting SPARE SPARE	Wire #12 #12 #12  	20 20 20 20 20	1 1.7 1 1 1 1 0.0 1	A	Phases: 3 Wires: 4 Phase in B	kVA C	1			A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 400A MCB Circuit Description SPACE SPACE	<b>CKT</b> 2 4 6 8 10	Note  
Location: MECHANICAL G1 Supply From: Mounting: Surface T Circuit Description Lighting CORRIDOR-1 G1001-1 Lighting Room G1021, G1022, G1024, G1023, Lighting SPARE SPARE SPARE SPARE	Wire #12 #12 #12     	20 20 20 20 20 20 20 20	1 1.7 1 1 1 1 0.0 1 1	<b>A</b> 7 0.0	Phases: 3 Wires: 4 Phase in B 2.2 / 0.0	kVA C	1 1 1 3	  20	  #12	A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 400A MCB Circuit Description SPACE SPACE SPACE EWH-1	CKT 2 4 6 8 10 12 14	Note  
Location: MECHANICAL G1 Supply From: Mounting: Surface Circuit Description Lighting CORRIDOR-1 G1001-1 Lighting Room G1021, G1022, G1024, G1023, Lighting SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	Wire #12 #12 #12 ==- == == == == ==	20 20 20 20 20 20 20 20 20 20	1     1.7       1     1       1     0.0       1     1       1     0.0       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1	<b>A</b> / 0.0 / 4.1 / 0.0	Phases: 3 Wires: 4 Phase in B 2.2 / 0.0	kVA C	1 1 1	  	  #12	A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 400A MCB Circuit Description SPACE SPACE SPACE	CKT           2           4           6           8           10           12           14           16           18	Note
Location: MECHANICAL G1 Supply From: Mounting: Surface Circuit Description Lighting CORRIDOR-1 G1001-1 Lighting Room G1021, G1022, G1024, G1023, Lighting SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	Wire #12 #12 #12             	20 20 20 20 20 20 20 20 20 20 20 20	1     1.7       1     1       1     0.0       1     1       1     0.0       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1	<b>A</b> / 0.0 / 4.1	Phases: 3 Wires: 4 Phase in B 2.2 / 0.0	kVA C 0.0 / 0.0 0.0 / 4.1	1 1 1 3	  20	  #12 #10	A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 400A MCB Circuit Description SPACE SPACE SPACE EWH-1	CKT           2           4           6           8           10           12           14           16           18           20           22	Not:
Location: MECHANICAL G1 Supply From: Mounting: Surface Circuit Description Lighting CORRIDOR-1 G1001-1 Lighting Room G1021, G1022, G1024, G1023, Lighting SPARE SPARE SPARE SPARE SPARE SPARE	Wire #12 #12 #12            	20 20 20 20 20 20 20 20 20 20 20	1     1.7       1     1       1     0.0       1     1       1     0.0       1     1       1     0.0       1     1       1     0.0       1     1       1     1       1     1       1     1       1     1       1     1       1     1       1     1	<b>A</b> / 0.0 / 4.1 / 0.0	Phases: 3 Wires: 4 Phase in B 2.2 / 0.0 0.0 / 4.1	kVA C 0.0 / 0.0 0.0 / 4.1	1 1 3 3	  20 30	  #12 #10 #12	A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 400A MCB Circuit Description SPACE SPACE SPACE EWH-1 AHU-G5	CKT           2           4           6           8           10           12           14           16           18           20	Note

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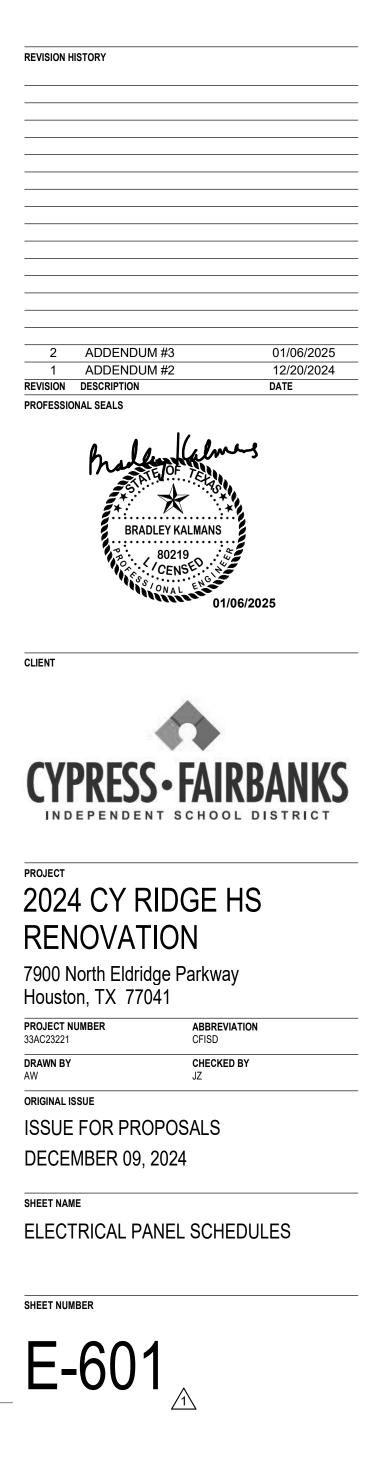
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Branch Panel: CPL Location: ELECTRICAL F Supply From: TCPL Mounting: Surface	ROOM 1966				Volts: 120/20 hases: 3 Wires: 4	·			NEW PANEL A.I.C. Rating: 10,000 Enclosure: Type 1 Mains: 50A MCB
					Phase in	kVA			
te         CKT         Circuit Description           1         BAS CONTROLLER	Wire (E)	20	1	<b>A</b> 0.3 / 0.3	В	С	1	eaker 20	(E) BAS 2
3     5 RECEPTACLES       5     WATER SOFTENER       7     WATER TREATMENT	(E) (E) (E)	20 20 20	1 1 1	0.2 / 0.6	0.9 / 0.2	0.3 / 0.6	1 3	20 20	#12 CARBON MONOXIDE 4 6 #12 B-1 (1 HP) 8
9 WATER TREATMENT 11 SPARE	(E) (E) (E)	20 20 20	1 1	0.270.0	0.2 / 0.6	0.3 / 0.6	3	20	#12     b-1 (1 HP)     0       10     12
13         1 ROOF RECEPTACLE           15         EF-H-15 (1/4 HP)           17         EF-H-15 (1/4 HP)	(E) (E)	20 20	1	0.2 / 0.6	0.7 / 0.6	2.6 / 0.6	3	20	#12 B-2 (1 HP) 14 16 18
19 EF-H-1 (5KW) 21 EF H 2 (5kM)	(E)	20	2	2.6 / 0.6	2.6 / 0.6	2.070.0	3	20	#12 B-3 (1 HP) 20 22
21     EF-H-2 (5kW)       25     IRRIGATION CONTROL	(E) (E)	20 20	2	0.3 / 0.6	0.0/0.0	2.6 / 0.6	3	20	#12 B-4 (1 HP) 24 26
27       1 RECEPTACLE         29       4 RECEPTACLES         31       BATTERY CHARGER	(E) (E) (E)	20 20 20	1 1 1	0.5 / 0.6	0.2 / 0.6	0.7 / 0.6	3	20	28 30 #12 B-5 (1 HP) 32
33 3 RECEPTACLES 35 WATER TREATMENT	(E) (E)	20 20	1	0.0 / 0.0	0.5 / 0.6	0.2 / 0.0	1	20	34 #10 CWP-1 HEATER 36
37WATER TREATMENT391 ROOF RECEPTACLE414 RECEPTACLES AND EXHAUST FAN	(E) (E) (E)	20 20 20	1 1 1	0.2 / 0.0	0.2 / 0.0	1.2 / 1.0	1 1 1	20 20 20	#10         CWP-2 HEATER         38           #10         CWP-3 HEATER         40           #10         CT-1 CONTROLS         42
<ul><li>43 CT-2 CONTROLS</li><li>45 CT-3 CONTROLS</li><li>47 SPARE</li></ul>	#10 #10	20 20	1 1 1	1.0 / 0.0	0.5 / 0.0	0.0/0.0	1		SPACE         44            SPACE         46
47         SPARE           49         SPARE           51         SPARE	  	20 20 20	1	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0	1 1 1	 	SPACE         48            SPACE         50            SPACE         52
53 SPARE 55 SPARE		20 20	1	0.0 / 0.0	0.0/0.0	0.0 / 0.0	1		SPACE 54 SPACE 56
57     SPARE       59     SPARE       61     SPARE		20 20 20	1 1 1	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0	1 1 1	 	SPACE         58            SPACE         60            SPACE         62
63 SPARE 65 SPARE		20 20	1	0.0/0.0	0.0 / 0.0	0.0 / 0.0	1		SPACE 64 SPACE 66
67SPARE69SPARE71SPACE	  	20 20 	1 1 1	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0	1 1 1	 	SPACE         68            SPACE         70            SPACE         72
73SPACE75SPACE			1	0.0 / 0.0	0.0 / 0.0		1		SPACE 74 SPACE 76
77SPACE79SPACE81SPACE	  	 	1 1 1	0.0 / 0.2	0.0 / 0.2	0.0 / 0.0	1 3	 30	SPACE 78 80 #10 SPDL 82
83 SPACE		 Load:	1	8.7 kVA	9.2 kVA	0.0 / 0.2 12.1 kVA	-		84
d Classification	Total A	cted Lo		73 A Dem	77 A and Factor	102 A Estimate	d D	emano	Panel Totals
C	9.0	2 kVA ) kVA		1	00.00% 00.00%		kV	٩	Total Conn. Load: 30.0 kVA
ellaneous er eptacles	0.2	kVA 2 kVA 5 kVA		1	00.00% 00.00% 00.00%	0.2	kV/ kV/	4	Total Est. Demand:       30.0 kVA         Total Conn. Current:       83 A         Total Est. Demand Current:       83 A
ONNECT PRESERVED LOAD TO NEW PANEL				G - LF	Distributions: - PROVIDE GF - PROVIDE P - PROVIDE F	ERMANENT I	.00	K-OFF	DEVICE
	ROOM 1966			G - LF LC	Volts: 277/48 hases: 3 Wires: 4	ERMANENT I PERMANENT	.00	K-OFF	
Location: ELECTRICAL F Supply From: CPDA Mounting: Surface	Wire	Breal	-	G - LF LC P	- PROVIDE GF - PROVIDE P ) - PROVIDE F ) - PROVIDE F Volts: 277/48 hases: 3	ERMANENT I PERMANENT		K-OFF K-ON	DEVICE NEW PANEL A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO Wire Circuit Description CKT
ONNECT PRESERVED LOAD TO NEW PANEL  Branch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface		<b>Brea</b> 20 20	<b>ker</b>	G - LF LC	Volts: 277/48 hases: 3 Wires: 4 Phase in	ERMANENT I PERMANENT 30 Wye <b>kVA</b>		K-OFF :K-ON	DEVICE NEW PANEL A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO
Branch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface CKT Circuit Description 1 RELAY 1 3 RELAY 4 5 7 PARKING LOT 9	Wire (E)	20	1	G - LF LC P	Volts: 277/48 hases: 3 Wires: 4 Phase in	ERMANENT I PERMANENT 30 Wye kVA C 0.2 / 0.2	Br 1	K-OFF K-ON eaker 20	DEVICE NEW PANEL A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO Wire Circuit Description CKT (E) RELAY 2 2 (E) RELAY 3 4 (E) FCU-H1 6 8 10
Branch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface	Wire (E) (E)	20 20	1	G - LF LC P 0.5 / 0.5	Volts: 277/48 hases: 3 Wires: 4 Phase in 0.5 / 0.5	ERMANENT I PERMANENT 30 Wye kVA C	Br 1 1	K-OFF K-ON 20 20	DEVICE       NEW PANEL         AI.C. Rating: 18,000       Enclosure: Type 1         Enclosure: Type 1       Mains: 200A MLO         Wire       Circuit Description       CKT         (E)       RELAY 2       2         (E)       RELAY 3       4         (E)       FCU-H1       6         #12       HWP-4 (3 HP)       14
ONNECT PRESERVED LOAD TO NEW PANEL  Branch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface  CKT Circuit Description  RELAY 1 RELAY 1 RELAY 1 RELAY 1 RELAY 1 HWP-3 (3 HP) 15 I7 ELECTRIC HEATER I9	Wire (E) (E) (E) #12 (E)	20 20 30 20 20	1 1 3 3 1	G - LF LC P 0.5 / 0.5 0.2 / 0.2	Volts: 277/48 hases: 3 Wires: 4 Phase in 0.5 / 0.5 0.2 / 0.2	ERMANENT I PERMANENT 30 Wye kVA C 0.2 / 0.2	Br 1 3	K-OFF K-ON 20 20 30	DEVICE       NEW PANEL         AI.C. Rating: 18,000       Enclosure: Type 1         Mains: 200A MLO       Mains: 200A MLO         Wire       Circuit Description       CKT         (E)       RELAY 2       2         (E)       RELAY 3       4         (E)       FCU-H1       6         #12       HWP-4 (3 HP)       12         #12       HWP-5 (3 HP)       18
ONNECT PRESERVED LOAD TO NEW PANEL  Branch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface  CKT Circuit Description  I RELAY 1  3 RELAY 4  5  7 PARKING LOT 9  11  13 HWP-3 (3 HP) 15  17 ELECTRIC HEATER 19  21 HWP-6 (3 HP) 23 25	Wire (E) (E) (E) #12 (E) #12	20 20 30 20 20 20	1 1 3 3 1 3	G - LF LC P 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4	Volts: 277/48 hases: 3 Wires: 4 Phase in 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4	ERMANENT I PERMANENT 30 Wye <b>kVA</b> <b>C</b> 0.2 / 0.2	Br 1 3 3	K-OFF %-ON <b>eaker</b> 20 20 30 20	DEVICE       NEW PANEL         Al.C. Rating: 18,000       Enclosure: Type 1         Bains: 200A MLO       Mains: 200A MLO         Wire       Circuit Description       CKT         (E)       RELAY 2       2         (E)       RELAY 3       4         (E)       FCU-H1       6         #12       HWP-4 (3 HP)       12         #12       HWP-5 (3 HP)       20         #12       HWP-7 (3 HP)       20         #12       HWP-7 (3 HP)       24
ONNECT PRESERVED LOAD TO NEW PANEL  Branch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface  CKT Circuit Description  RELAY 1 RELAY 1 RELAY 1 RELAY 1 RELAY 4  PARKING LOT P ARKING LOT P I1 HWP-3 (3 HP) I5 I7 ELECTRIC HEATER I9 I1 HWP-6 (3 HP) I3 ED EUH-1 (5 KW) I3 I	Wire (E) (E) (E) #12 (E)	20 20 30 20 20	1 1 3 3 1	G - LF LC P 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.4	Volts: 277/48 hases: 3 Wires: 4 Phase in 0.5 / 0.5 0.2 / 0.2	ERMANENT I PERMANENT I 30 Wye <b>kVA</b> 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4	Br 1 1 3 3 3	K-OFF K-ON 20 20 20 20 20 20 20 20	DEVICE       NEW PANEL         A.I.C. Rating: 18,000       Enclosure: Type 1         Bains: 200A MLO       Mains: 200A MLO         Wire       Circuit Description       CKT         (E)       RELAY 2       2         (E)       RELAY 3       4         (E)       FCU-H1       8         10       10       10         112       114       16         #12       HWP-4 (3 HP)       12         #12       HWP-5 (3 HP)       20         #12       HWP-7 (3 HP)       26         28       30       30
ONNECT PRESERVED LOAD TO NEW PANEL  Branch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface  CKT Circuit Description 1 RELAY 1 3 RELAY 1 3 RELAY 4 5 7 PARKING LOT 9 11 13 HWP-3 (3 HP) 15 17 ELECTRIC HEATER 19 21 HWP-6 (3 HP) 23 25 27 EUH-1 (5 kW) 29 31 33 EUH-3 (5 kW) 35	Wire (E) (E) (E) #12 (E) #12	20 20 30 20 20 20	1 1 3 3 1 3	A 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.4 1.7 / 1.7	Volts: 277/48 hases: 3 Wires: 4 Phase in 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4	ERMANENT I PERMANENT I 30 Wye <b>kVA</b> 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4	Br 1 3 3	K-OFF K-ON 20 30 20 20	DEVICE       NEW PANEL         Al.C. Rating: 18,000       Enclosure: Type 1         Bains: 200A MLO       Mains: 200A MLO         Wire       Circuit Description       CKT         (E)       RELAY 2       2         (E)       RELAY 3       4         (E)       FCU-H1       6         (E)       FCU-H1       12         #12       HWP-4 (3 HP)       12         #12       HWP-5 (3 HP)       18         #12       HWP-7 (3 HP)       200         #12       HWP-7 (3 HP)       20         #12       HWP-7 (3 HP)       20         #12       HWP-7 (3 HP)       30         #12       HWP-7 (3 HP)       30         #14       30       32         #11       FCU-H4 (3 HP)       30
ONNECT PRESERVED LOAD TO NEW PANEL  Branch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface  CKT Circuit Description  RELAY 1 RELAY 1 RELAY 1 RELAY 4 REL	Wire (E) (E) (E) #12 (E) #12 #12	20 20 30 20 20 20 20	1 1 3 3 1 3 3	G - LF LC P 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.4	Volts: 277/48 hases: 3 Wires: 4 Phase in 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.4	ERMANENT I PERMANENT I 30 Wye <b>kVA</b> <b>C</b> 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4 1.7 / 1.7 1.7 / 1.7	Br 1 1 3 3 3 3	K-OFF K-ON 20 20 20 20 20 20 20 20	DEVICE       NEW PANEL         Al.C. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO       K         Wire       Circuit Description       CKT         (E)       RELAY 2       2         (E)       RELAY 3       4         (E)       FCU-H1       6         #12       HWP-4 (3 HP)       12         #12       HWP-5 (3 HP)       18         #12       HWP-7 (3 HP)       20         #12       HWP-7 (3 HP)       26         #12       EUH-2 (5 KW)       30         #11       FCU-H4 (3 HP)       36         #12       EUH-2 (5 KW)       36         #112       EUH-4 (5 KW)       36
ONNECT PRESERVED LOAD TO NEW PANEL           Branch Panel: CPH           Location: ELECTRICAL F           Supply From: CPDA           Mounting: Surface           CKT         Circuit Description           1         RELAY 1         3         RELAY 1           3         RELAY 4         5           7         PARKING LOT         9           11         HWP-3 (3 HP)         15           17         ELECTRIC HEATER         19           13         HWP-6 (3 HP)         23           25         EUH-1 (5 kW)         29           31         33         EUH-3 (5 kW)           35         37         39           21         H-3 (5 kW)         35           37         39         EUH-5 (5 kW)           41         43         FCU-H2 (3 HP)           45         FCU-H3 (3 HP)         45	Wire (E) (E) (E) #12 (E) #12 #12 #12	20 20 30 20 20 20 20 20	1 1 3 3 1 3 3 3 3	A 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.4 1.7 / 1.7	Volts: 277/48 PROVIDE P PROVIDE P PROVIDE F Pases: 3 Wires: 4 Phase in B 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.4 1.7 / 1.7	ERMANENT I PERMANENT I 30 Wye <b>kVA</b> 0.2 / 0.2 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4 1.7 / 1.7 1.7 / 1.7	OC OC OC 3 3 3 3 3 3 3 1	K-OFF %-ON 20 20 20 20 20 20 20 20 20 20	DEVICE       NEW PANEL         Al.C. Rating: 18,000       Enclosure: Type 1         Bains: 200A MLO       Mains: 200A MLO         Wire       Circuit Description       CKT         (E)       RELAY 2       2         (E)       RELAY 3       4         (E)       FCU-H1       6         #12       HWP-4 (3 HP)       12         #12       HWP-5 (3 HP)       18         #12       HWP-7 (3 HP)       20         #12       HWP-7 (3 HP)       26         #12       HWP-4 (3 HP)       30         #12       HWP-4 (5 KW)       30         #12       EUH-2 (5 kW)       32         #12       EUH-4 (5 kW)       44         11       TCPL       44
CKT         Circuit Description           1         RELAY 1           3         RELAY 4           5         7           9         PARKING LOT           9         11           13         HWP-3 (3 HP)           15         17           21         HWP-6 (3 HP)           23         25           27         EUH-1 (5 kW)           29         31           33         EUH-3 (5 kW)           35         37           39         EUH-5 (5 kW)           41         43           45         FCU-H2 (3 HP)           45         FCU-H3 (3 HP)           47         49  <	Wire (E) (E) (E) #12 (E) #12 #12 #12 #12 #12	20 20 30 20 20 20 20 20 20 20 20 20	1 1 3 3 1 3 3 3 3 1 1	A 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7	Volts: 277/48 hases: 3 Wires: 4 Phase in 0.5 / 0.5 0.2 / 0.2 0.2 / 0.2 1.4 / 1.4 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 4.0 / 9.2	ERMANENT I PERMANENT I 30 Wye <b>kVA</b> <b>C</b> 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4 1.7 / 1.7 1.7 / 1.7	OC OC OC 3 3 3 3 3 3 3 3 3 3 3 3 3 3	K-OFF %-ON <b>eaker</b> 20 20 20 20 20 20 20 20 20 20	DEVICE       NEW PANEL         AI.C. Rating: 18,000       Enclosure: Type 1         Mains: 200A MLO       Mains: 200A MLO         Vire       Circuit Description       CKT         (E)       RELAY 2       2         (E)       RELAY 3       4         (E)       RUP-4 (3 HP)       12         #12       HWP-5 (3 HP)       12         #12       HWP-7 (3 HP)       20         21       22       24         #12       EUH-2 (5 kW)       32         #12       EUH-2 (5 kW)       32         #14       FOU-H4 (3 HP)       36         #12       EUH-4 (5 kW)       40         41       40       40         42       44       46         41       46       48          SPACE       50
ONNECT PRESERVED LOAD TO NEW PANEL           Branch Panel: CPH           Location: ELECTRICAL F           Supply From: CPDA           Mounting: Surface           CKT         Circuit Description           1         RELAY 1         3         RELAY 4         5           7         PARKING LOT         9         11           13         HWP-3 (3 HP)         15           17         ELECTRIC HEATER         19           11         13         HWP-6 (3 HP)           23         25         27         EUH-1 (5 kW)           29         31         33         EUH-3 (5 kW)           35         37         9         EUH-5 (5 kW)           41         43         FCU-H2 (3 HP)         45           43         FCU-H2 (3 HP)         45         5           53         SPACE         55         SPACE	Wire (E) (E) (E) (E) #12 (E) #12 #12 #12 #12 #12 #12	20 20 30 20 20 20 20 20 20 20 20 20	1         1         3         3         1         3         3         3         3         3         3         3         3         3         3         1         1         3         1         1         1         1         1         1         1         1	A 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.4 1.7 / 1.7 1.7 / 1.7 4.0 / 8.7	Volts: 277/48 hases: 3 Wires: 4 Phase in 0.5 / 0.5 0.2 / 0.2 0.2 / 0.2 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 4.0 / 9.2 0.8 / 0.0	ERMANENT I PERMANENT I 30 Wye <b>kVA</b> 0.2 / 0.2 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4 1.7 / 1.7 1.7 / 1.7	OC OC OC Br 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	K-OFF %-ON <b>eaker</b> 20 20 20 20 20 20 20 20 20 20	DEVICE   NEW PANEL   ALIC. Rating: 18,000   Enclosure: Type 1   Mains: 200A MLO   Wire Circuit Description   CKT   (E) RELAY 2   (E) RELAY 3   (E) RELAY 3   (E) RELAY 3   (E) RELAY 1   (E) RELAY 3   (E) RELAY 4   (E) (E)   (E) (E)
ONNECT PRESERVED LOAD TO NEW PANEL           Branch Panel: CPH           Location: ELECTRICAL F           Supply From: CPDA           Mounting: Surface           CKT         Circuit Description           1         RELAY 1           3         RELAY 4           5         PARKING LOT           9         11           13         HWP-3 (3 HP)           15         17           27         EUH-1 (5 kW)           29         31           31         EUH-3 (5 kW)           35         FOU-H2 (3 HP)           45         FCU-H2 (3 HP)           45         FCU-H2 (3 HP)           45         FCU-H2 (3 HP)           47         49           47         49	Wire (E) (E) (E) #12 (E) #12 #12 #12 #12 #12 #12 #12 #12 #12 #12	20 20 30 20 20 20 20 20 20 20 20 20 20    	1         1         3         3         1         3         3         3         3         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	A 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 4.0 / 8.7 0.8 / 0.0 0.0 / 0.0	Volts: 277/48 hases: 3 Wires: 4 Phase in 0.5 / 0.5 0.2 / 0.2 0.2 / 0.2 1.4 / 1.4 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 4.0 / 9.2	ERMANENT I ERMANENT I BOWye <b>kVA</b> 0.2 / 0.2 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 0.8 / 12.1	OC OC OC Br 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	K-OFF %-ON %-ON 20 20 20 20 20 20 20 20 20 20	DEVICE  DEVICE  DEVICE  DEVICE  IC  DEVID  AL.C. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO   Circuit Description  CKT (E)  RELAY 2 (E)  RELAY 2 (E)  RELAY 3  4  (E)  RELAY 3  4  (E)  RELAY 3  4  1  (E)  RELAY 3  (E)  (E)  (E)  RELAY 3  (E)  (E)  (E)  (E)  (E)  (E)  (E)  (E
ONNECT PRESERVED LOAD TO NEW PANEL           Branch Panel: CPH           Location: ELECTRICAL F           Supply From: CPDA           Mounting: Surface           CKT           Circuit Description           1           RELAY 1           3           RELAY 4           5           7           PARKING LOT           9           11           13           HWP-3 (3 HP)           15           17           ELECTRIC HEATER           19           21           HWP-6 (3 HP)           23           25           27           EUH-1 (5 kW)           29           31           32           33           EUH-3 (5 kW)           41           43           FCU-H2 (3 HP)           45           51           53           54           55           55           56           57           59           57           59           <	Wire           (E)           (E)           (E)           (E)           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #13	20 20 30 20 20 20 20 20 20 20 20 20  	1         1         3         3         1         3         3         3         3         3         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	A 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 4.0 / 8.7 0.8 / 0.0 0.0 / 0.0	Volts: 277/48 hases: 3 Wires: 4 Phase in 0.5 / 0.5 0.2 / 0.2 0.2 / 0.2 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 4.0 / 9.2 0.8 / 0.0	ERMANENT I ERMANENT I ERMANENT I 30 Wye <b>kVA</b> <b>C</b> 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4 1.7 / 1.7 1.7 / 1.7 0.8 / 12.1 0.0 / 0.0	OC OC OC Br 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	K-OFF %-ON %-ON 20 20 20 20 20 20 20 20 20 20	DEVICE  DEVICE  DEVICE
ONNECT PRESERVED LOAD TO NEW PANEL           Branch Panel: CPH           Location: ELECTRICAL F           Supply From: CPDA           Mounting: Surface           CKT         Circuit Description           1         RELAY 1           3         RELAY 4           5           7         PARKING LOT           9         11           11         HWP-3 (3 HP)           15         17           17         ELECTRIC HEATER           19         11           13         HWP-6 (3 HP)           23         25           27         EUH-1 (5 kW)           29         31           33         EUH-3 (5 kW)           35         37           39         EUH-5 (5 kW)           41         43           43         FCU-H2 (3 HP)           45         FCU-H3 (3 HP)           45         FCU-H3 (3 HP)           45         FCU-H3 (3 HP)           45         FCU-H2 (3 HP)           45         FCU-H2 (3 HP)           45         FCU-H2 (3 HP)           45         FCU-H2 (3 HP)           45         SPACE	Wire         (E)         (E)         (E)         (E)         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #13         #14         #15         #16         #17	20 20 30 20 20 20 20 20 20 20 20 20 20 20 20      	1         1         3         3         1         3         3         3         3         3         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	A 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 4.0 / 8.7 0.8 / 0.0 0.0 / 0.0	<ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>D.277/48</li> <li>Mases: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>B</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>1.4 / 1.4</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>0.8 / 0.0</li> <li>0.0 / 0.0</li> <li>0.0 / 0.0</li> </ul>	ERMANENT I ERMANENT I ERMANENT I 30 Wye <b>kVA</b> <b>C</b> 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 0.8 / 12.1 0.0 / 0.0 0.0 / 0.0	OC OC OC Br 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	K-OFF %-ON %-ON 20 20 20 20 20 20 20 20 20 20	DEVICE         NEW PANEL           A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO         K           Wire         Circuit Description         CKT           (E)         RELAY 2         2           (E)         RELAY 3         4           (E)         REUP 4         10           #12         HWP-4 (3 HP)         12           #12         HWP-5 (3 HP)         20           24         24         24           #12         HWP-7 (3 HP)         26           28         30         32           #12         EUH-2 (5 kW)         32           #11         FCU-H4 (3 HP)         36           #12         EUH-4 (5 kW)         32           #11         TCPL         44           41         40         42           #11         TCPL         58           #12         EUH-4 (5 kW)         32           #13         SPACE         50           SPACE         50
ONNECT PRESERVED LOAD TO NEW PANEL           Branch Panel: CPH           Location: ELECTRICAL F           Supply From: CPDA           Mounting: Surface           CKT         Circuit Description           1         RELAY 1           3         RELAY 4           5           7         PARKING LOT           9         11           13         RELAY 4           5         PARKING LOT           9         11           13         HWP-3 (3 HP)           15         ELECTRIC HEATER           19         21           11         HWP-6 (3 HP)           25         27           21         HWP-6 (5 KW)           23         EUH-1 (5 kW)           29         31           33         EUH-3 (5 kW)           35         SPACE           37         SPACE           33         SPACE           53         SPACE           54         FCU-H2 (3 HP)           45         FCU-H3 (3 HP)           45         FCU-H3 (3 HP)           45         FCU-H2 (3 HP)           45         SPACE	Wire         (E)         (E)         (E)         (E)         (E)         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12	20         20         30         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         21	1         1         3         3         1         3         3         3         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td>A 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 4.0 / 8.7 0.8 / 0.0 0.0 / 0.0</td><td><ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Nases: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>0.2 / 0.2</li> <li>0.2 / 0.2</li> <li>0.2 / 0.2</li> <li>1.4 / 1.4</li> <li>1.4 / 1.4</li> <li>1.4 / 1.4</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>0.8 / 0.0</li> <li>0.0 / 0.0</li> <li>0.0 / 0.0</li> <li>0.0 / 0.0</li> </ul></td><td>ERMANENT I ERMANENT I ERMANENT I SO Wye <b>kVA</b> <b>C</b> 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 0.8 / 12.1 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0</td><td>OC OC OC OC I I I I I I I I I I I I I I</td><td>K-OFF %-ON %-ON %-ON 20 20 20 20 20 20 20 20 20 20</td><td>DEVICE  DEVICE</td></td<>	A 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 4.0 / 8.7 0.8 / 0.0 0.0 / 0.0	<ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Nases: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>0.2 / 0.2</li> <li>0.2 / 0.2</li> <li>0.2 / 0.2</li> <li>1.4 / 1.4</li> <li>1.4 / 1.4</li> <li>1.4 / 1.4</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>0.8 / 0.0</li> <li>0.0 / 0.0</li> <li>0.0 / 0.0</li> <li>0.0 / 0.0</li> </ul>	ERMANENT I ERMANENT I ERMANENT I SO Wye <b>kVA</b> <b>C</b> 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 0.8 / 12.1 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0	OC OC OC OC I I I I I I I I I I I I I I	K-OFF %-ON %-ON %-ON 20 20 20 20 20 20 20 20 20 20	DEVICE  DEVICE
ONNECT PRESERVED LOAD TO NEW PANEL           Branch Panel: CPH           Location: ELECTRICAL F           Supply From: CPDA           Mounting: Surface           CKT         Circuit Description           1         RELAY 1           3         RELAY 4           5         PARKING LOT           9         11           11         HWP-3 (3 HP)           15         17           17         ELECTRIC HEATER           19         11           23         25           27         EUH-1 (5 kW)           29         31           33         EUH-3 (5 kW)           41         43           43         FCU-H2 (3 HP)           45         FCU-H3 (3 HP)           45         FCU-H3 (3 HP)           47         49           47         49           47         49           47         49           47         49           47         49           55         SPACE           56         SPACE           57         SPACE           58         SPACE           59         <	Wire         (E)         (E)         (E)         (E)         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12	20         20         30         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         21	1         1         3         3         1         3         3         3         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td>A 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 4.0 / 8.7 0.8 / 0.0 0.0 / 0.0 0.0 / 0.0</td><td><ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Nase: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>1.4 / 1.4</li> <li>1.4 / 1.4</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>0.8 / 0.0</li> <li>0.0 / 0.0</li> </ul></td><td>ERMANENT I ERMANENT I ERMANENT I 30 Wye <b>kVA</b> <b>C</b> 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 0.8 / 12.1 0.0 / 0.0 0.0 / 0.0</td><td>OC OC OC Br 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</td><td>K-OFF %-ON %-ON %-ON 20 20 20 20 20 20 20 20 20 20</td><td>DEVICE  DEVICE</td></td<>	A 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 4.0 / 8.7 0.8 / 0.0 0.0 / 0.0 0.0 / 0.0	<ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Nase: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>1.4 / 1.4</li> <li>1.4 / 1.4</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>0.8 / 0.0</li> <li>0.0 / 0.0</li> </ul>	ERMANENT I ERMANENT I ERMANENT I 30 Wye <b>kVA</b> <b>C</b> 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 0.8 / 12.1 0.0 / 0.0 0.0 / 0.0	OC OC OC Br 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	K-OFF %-ON %-ON %-ON 20 20 20 20 20 20 20 20 20 20	DEVICE  DEVICE
ONNECT PRESERVED LOAD TO NEW PANEL           Branch Panel: CPH           Location: ELECTRICAL F           Supply From: CPDA           Mounting: Surface           CKT         Circuit Description           1         RELAY 1           3         RELAY 4           5         7           PARKING LOT         9           11         13           13         HWP-3 (3 HP)           15         17           17         ELECTRIC HEATER           19         11           13         HWP-6 (3 HP)           23         25           27         EUH-1 (5 kW)           29         31           33         EUH-3 (5 kW)           41         43           43         FCU-H2 (3 HP)           45         FCU-H3 (3 HP)           47         49           47         49           47         49           55         SPACE           56         SPACE           57         SPACE           58         SPACE           59         SPACE           57         SPACE           57	Wire         (E)         (E)         (E)         (E)         (E)         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12	20         20         30         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         21         22         23         24         25         26         27         27	1         1         3         3         3         3         3         3         3         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td>A 0.5 / 0.5 0.2 / 0.2 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 1.7 / 1.7 4.0 / 8.7 0.8 / 0.0 0.0 / 0.0 0.0 / 0.0</td><td><ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Nases: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>0.2 / 0.2</li> <li>0.2 / 0.2</li> <li>0.2 / 0.2</li> <li>1.4 / 1.4</li> <li>1.4 / 1.4</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>1.7 / 1.7</li> <li>0.8 / 0.0</li> <li>0.0 / 0.0</li> </ul></td><td>ERMANENT I ERMANENT I ERMANENT I ERMANENT I SO Wye <b>kVA</b> <b>C</b> 0.2 / 0.2 0.2 / 0.2 1.4 / 1.4 0.5 / 1.4 1.4 / 1.4 1.7 / 1.7 1.7 / 1.7 0.8 / 12.1 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0</td><td>OC OC OC OC OC I I I I I I I I I I I I I</td><td>K-OFF %-ON %-ON %-ON 20 20 20 20 20 20 20 20 20 20</td><td>DEVICE  DEVICE  DEVICE  DEVICE  DEVICE  IDEVICE  DEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE IDEVICE 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ONNECT PRESERVED LOAD TO NEW PANEL           Branch Panel: CPH           Location: ELECTRICAL F           Supply From: CPDA           Mounting: Surface           CKT         Circuit Description           1         RELAY 1           3         RELAY 4           5           7         PARKING LOT           9         11           13         RELAY 4           5         PARKING LOT           9         11           13         HWP-3 (3 HP)           15         17           17         ELECTRIC HEATER           19         1           23         25           27         EUH-1 (5 kW)           29         31           33         EUH-3 (5 kW)           35         FCU-H2 (3 HP)           45         FCU-H3 (3 HP)           45         FCU-H3 (3 HP)           45         FCU-H3 (3 HP)           45         FCU-H3 (3 HP)           45         FCU-H2 (3 HP)           45         FCU-H2 (3 HP)           45         FCU-H2 (3 HP)           45         FCU-H3 (3 HP)           45         SPACE	Wire         (E)         (E)         (E)         (E)         (E)         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12         #12	20 20 30 20 20 20 20 20 20 20 20 20 20 20 20 20	1         1         3         3         1         3         3         3         3         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td>G - LF LC LC</td><td><ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Volts: 277/48</li> <li>hases: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>0.3 / 0.0</li> <li>0.0 / 0.0</li> </ul></td><td>ERMANENT I ERMANENT I ERMANENT I ERMANENT I ERMANENT I C 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0</td><td>OC OC OC OC I I I I I I I I I I I I I I</td><td>K-OFF %-ON %-ON %-ON 20 20 20 20 20 20 20 20 20 20</td><td>Mire         Circuit Description         CKT           (E)         RELAY 2         2           (E)         RELAY 3         4           (E)         FCU-H1         6           #12         HWP-4 (3 HP)         10           #12         HWP-5 (3 HP)         22           #12         HWP-7 (3 HP)         20           #12         EUH-2 (5 kW)         30           #12         EUH-2 (5 kW)         32           #13         EUH-2 (5 kW)         32           #14         EUH-2 (5 kW)         32           #15         EUH-2 (5 kW)         34           #16         FCU-H4 (5 kW)         42           #17         FCPL         46           #18         SPACE         50           SPACE         52         54      <t< td=""></t<></td></td<>	G - LF LC LC	<ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Volts: 277/48</li> <li>hases: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>0.3 / 0.0</li> <li>0.0 / 0.0</li> </ul>	ERMANENT I ERMANENT I ERMANENT I ERMANENT I ERMANENT I C 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.2/0.2 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0	OC OC OC OC I I I I I I I I I I I I I I	K-OFF %-ON %-ON %-ON 20 20 20 20 20 20 20 20 20 20	Mire         Circuit Description         CKT           (E)         RELAY 2         2           (E)         RELAY 3         4           (E)         FCU-H1         6           #12         HWP-4 (3 HP)         10           #12         HWP-5 (3 HP)         22           #12         HWP-7 (3 HP)         20           #12         EUH-2 (5 kW)         30           #12         EUH-2 (5 kW)         32           #13         EUH-2 (5 kW)         32           #14         EUH-2 (5 kW)         32           #15         EUH-2 (5 kW)         34           #16         FCU-H4 (5 kW)         42           #17         FCPL         46           #18         SPACE         50           SPACE         52         54 <t< td=""></t<>
ONNECT PRESERVED LOAD TO NEW PANEL         Baranch Panel: CPH         Location: ELECTRICAL F         Supply From: CPDA         Mounting: Surface         OKKT       Circuit Description         1       RELAY 1       3         3       RELAY 1       3         3       RELAY 4       5         7       PARKING LOT       9         11       13       HWP-3 (3 HP)         15       ELECTRIC HEATER       19         17       ELECTRIC HEATER       19         23       25       27       EUH-1 (5 kW)         23       25       27       EUH-1 (5 kW)         23       11       37       39         23       25       27       EUH-1 (5 kW)         23       11       15       FCU-H2 (3 HP)         43       FCU-H2 (3 HP)       45       FCU-H3 (3 HP)         44       55       SPACE       55         55       SPACE       55       SPACE         55       SPACE       55       SPACE         61       SPACE       55       SPACE         63       SPACE	Wire           (E)           (E)           (E)           (E)           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12	20 20 30 20 20 20 20 20 20 20 20 20 20 20 20 20	1         1         3         3         1         3         3         3         3         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td>G · LF LC</td><td><ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Volts: 277/48</li> <li>hases: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>0.3 / 0.0</li> <li>0.0 / 0.0</li> </ul></td><td>ERMANENT I PRMANENT I PRMANE</td><td>OC OC OC OC OC OC OC OC OC OC OC OC OC O</td><td>K-OFF K-ON 20 20 20 20 20 20 20 20 20 20 20 20 20</td><td>DEVICE       NEW PANEL         ALC. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO       CKT         (E)       Circuit Description       CKT         (E)       RELAY 2       2         (E)       RELAY 3       4         (E)       RELAY 3       4         (E)       FCU-H1       6         #12       HWP-4 (3 HP)       10         #12       HWP-5 (3 HP)       20         #12       HWP-7 (3 HP)       20         #12       EUH-2 (5 kW)       32         #12       EUH-2 (5 kW)       32         #12       EUH-4 (5 kW)       44         10       42       44         11       TCPL       44         12       EUH-4 (5 kW)       32         #11       FCU-H4 (3 HP)       36         #12       EUH-4 (5 kW)       42         4       44       44         14       6       50        </td></td<>	G · LF LC	<ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Volts: 277/48</li> <li>hases: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>0.3 / 0.0</li> <li>0.0 / 0.0</li> </ul>	ERMANENT I PRMANENT I PRMANE	OC OC OC OC OC OC OC OC OC OC OC OC OC O	K-OFF K-ON 20 20 20 20 20 20 20 20 20 20 20 20 20	DEVICE       NEW PANEL         ALC. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO       CKT         (E)       Circuit Description       CKT         (E)       RELAY 2       2         (E)       RELAY 3       4         (E)       RELAY 3       4         (E)       FCU-H1       6         #12       HWP-4 (3 HP)       10         #12       HWP-5 (3 HP)       20         #12       HWP-7 (3 HP)       20         #12       EUH-2 (5 kW)       32         #12       EUH-2 (5 kW)       32         #12       EUH-4 (5 kW)       44         10       42       44         11       TCPL       44         12       EUH-4 (5 kW)       32         #11       FCU-H4 (3 HP)       36         #12       EUH-4 (5 kW)       42         4       44       44         14       6       50
ONNECT PRESERVED LOAD TO NEW PANEL  Branch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface  CKT Circuit Description  RELAY 1 RELAY 1 RELAY 1 RELAY 4  S PARKING LOT P II HWP-3 (3 HP) II RELECTRIC HEATER P P II HWP-6 (3 HP) II RELAY 4  S EUH-3 (5 kW) II RELAY 4  S SPACE SS SPACE	Wire           (E)           (E)           (E)           (E)           (E)           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12	20 20 30 20 20 20 20 20 20 20 20 20 20 20 20 20	1         1         3         3         1         3         3         3         3         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td>G · LF LC</td><td><ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Volts: 277/48</li> <li>hases: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>0.3 / 0.0</li> <li>0.0 / 0.0</li> <li>0.</li></ul></td><td>ERMANENT I ERMANENT I ERMANENT I ERMANENT I ERMANENT I C 0.2 / 0.2 0.2 / 0.2 0.0 / 0.0 0.0 / 0.0 / 0.0 0.0 / 0.0 / 0.0 0.0 / 0.0 / 0</td><td>OC OC OC OC OC OC OC OC OC OC OC OC OC O</td><td>K-OFF K-ON 20 20 20 20 20 20 20 20 20 20 20 20 20</td><td>NEW PANEL         AI.C. Rating: 18.000 Enclosure: Type 1 Mains: 200A MLO         Wire       Circuit Description       CKT         (E)       RELAY 2       2         (E)       RELAY 3       4         (E)       RELAY 3       6         (E)       FCU-H1       7         (E)       FCU-H1       10         #12       HWP-4 (3 HP)       12         #12       HWP-5 (3 HP)       22         #12       HWP-7 (3 HP)       26         #12       EUH-2 (5 kW)       32         #11       FCU-H4 (3 HP)       36         #12       EUH-4 (5 kW)       32         #11       TCPL       44         41       48         #12       EUH-4 (5 kW)       32         #11       TCPL       44         48       50         -       SPACE       52         -       SPACE       52         -       SPACE       54         -       SPACE       54         -       SPACE       62         -       SPACE       54         -       SPACE       62         <td< td=""></td<></td></td<>	G · LF LC	<ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Volts: 277/48</li> <li>hases: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>0.3 / 0.0</li> <li>0.0 / 0.0</li> <li>0.</li></ul>	ERMANENT I ERMANENT I ERMANENT I ERMANENT I ERMANENT I C 0.2 / 0.2 0.2 / 0.2 0.0 / 0.0 0.0 / 0.0 / 0.0 0.0 / 0.0 / 0.0 0.0 / 0.0 / 0	OC OC OC OC OC OC OC OC OC OC OC OC OC O	K-OFF K-ON 20 20 20 20 20 20 20 20 20 20 20 20 20	NEW PANEL         AI.C. Rating: 18.000 Enclosure: Type 1 Mains: 200A MLO         Wire       Circuit Description       CKT         (E)       RELAY 2       2         (E)       RELAY 3       4         (E)       RELAY 3       6         (E)       FCU-H1       7         (E)       FCU-H1       10         #12       HWP-4 (3 HP)       12         #12       HWP-5 (3 HP)       22         #12       HWP-7 (3 HP)       26         #12       EUH-2 (5 kW)       32         #11       FCU-H4 (3 HP)       36         #12       EUH-4 (5 kW)       32         #11       TCPL       44         41       48         #12       EUH-4 (5 kW)       32         #11       TCPL       44         48       50         -       SPACE       52         -       SPACE       52         -       SPACE       54         -       SPACE       54         -       SPACE       62         -       SPACE       54         -       SPACE       62 <td< td=""></td<>
ONNECT PRESERVED LOAD TO NEW PANEL  Branch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface  CKT Circuit Description  I RELAY 1  3 RELAY 1  3 RELAY 4  5  7 PARKING LOT  9  PARKING LOT  9  21  HWP-3 (3 HP)  15  ELECTRIC HEATER  19  21 HWP-6 (3 HP)  23  25  27 EUH-1 (5 kW)  23  EUH-3 (5 kW)  35 EUH-3 (5 kW)  41 SPACE 55 SPACE 57 SPAC	Wire           (E)           (E)           (E)           (E)           (E)           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12           #12	20 20 30 20 20 20 20 20 20 20 20 20 20 20 20 20	1         1         3         3         1         3         3         3         3         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td>G · LF LC</td><td><ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Volts: 277/48</li> <li>hases: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>0.3 / 0.0</li> <li>0.0 / 0.0</li> <li>0.</li></ul></td><td>ERMANENT I ERMANENT I ERMANENT I ERMANENT I ERMANENT I C 0.2 / 0.2 0.2 / 0.2 0.0 / 0.0 0.0 / 0.0 / 0.0 0.0 / 0.0 / 0.0 0.0 / 0.0 / 0</td><td>OC OC OC OC I I I I I I I I I I I I I I</td><td>K-OFF K-ON 20 20 20 20 20 20 20 20 20 20 20 20 20</td><td>DEVICE INTERPOLATION INTERPOL</td></td<>	G · LF LC	<ul> <li>PROVIDE GF</li> <li>PROVIDE P</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>PROVIDE F</li> <li>Volts: 277/48</li> <li>hases: 3</li> <li>Wires: 4</li> <li>Phase in</li> <li>0.5 / 0.5</li> <li>0.2 / 0.2</li> <li>0.3 / 0.0</li> <li>0.0 / 0.0</li> <li>0.</li></ul>	ERMANENT I ERMANENT I ERMANENT I ERMANENT I ERMANENT I C 0.2 / 0.2 0.2 / 0.2 0.0 / 0.0 0.0 / 0.0 / 0.0 0.0 / 0.0 / 0.0 0.0 / 0.0 / 0	OC OC OC OC I I I I I I I I I I I I I I	K-OFF K-ON 20 20 20 20 20 20 20 20 20 20 20 20 20	DEVICE INTERPOLATION INTERPOL

PANELBOARD CIRCUIT DIRECTORY: CONTRACTOR SHALL RECORD AND/OR PRESERVE THE EXISTING CIRCUIT DIRECTORY, IF ANY, FOR THE SOLE PURPOSE UPON COMPLETION OF NEW WORK OF

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PRODUCING A NEW DIRECTORY. CONTRACTOR SHALL PROVIDE AS PART OF THE CONSTRUCTION DOCUMENTS A NEW, NEATLY TYPED DIRECTORY. CONTRACTOR SHALL TRACE EXISTING CIRCUITS AND SHALL LEGIBLY IDENTIFY AS TO IT'S CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE, LOADS SERVED, LOCATION AND/OR THE PANELBOARD SCHEDULE ON THE DRAWINGS. THE WORD "EXISTING" SHALL NOT BE USED ON PANELBOARD DIRECTORIES. SPARE BREAKERS ARE TO BE LISTED AS "SPARE" AND SWITCHED TO THE OFF POSITION. SPACES WITH NO BREAKERS ARE TO BE LEFT BLANK. REFER TO NEC-2023: 408.4(A) FOR DETAILS.

CONTRACTOR SHALL PERMANENTLY LABEL AS PART OF THE

SWITCHGEAR AND PANELBOARDS TO INDICATE EACH POWER SOURCE. REFER TO NEC-2023: 408.4(A) FOR DETAILS.

CONSTRUCTION DOCUMENTS ALL SWITCHBOARDS,

ranch Panel: CPL Location: ELECTRICAL F Supply From: TCPL Mounting: Surface	ROOM 1966				Volts: 120/2 hases: 3 Wires: 4 Phase in	-			1	A.I.C. Rating: 10,000 Enclosure: Type 1 Mains: 50A MCE	NEW PANEL	-	
Circuit Description	Wire			<b>A</b>	В	С	Br	reaker		•	lion		Note
AS CONTROLLER RECEPTACLES	(E) (E)	20 20	1	0.3 / 0.3	0.9/0.2		1	20 20		BAS CARBON MONOXIDE		2 4	1
ATER SOFTENER	(E)	20	1		0.970.2	0.3/0.6	1	20	#12			6	
ATER TREATMENT	(E)	20	1	0.2/0.6		0.070.0	3	20	#12	B-1 (1 HP)		8	
ATER TREATMENT	(E)	20	1		0.2/0.6							10	
PARE	(E)	20	1			0.3 / 0.6						12	
ROOF RECEPTACLE	(E)	20	1	0.2 / 0.6			3	20	#12	B-2 (1 HP)		14	
F-H-15 (1/4 HP)	(E)	20	1		0.7 / 0.6							16	
F-H-1 (5kW)	(E)	20	2			2.6 / 0.6						18	-
· · · ·				2.6 / 0.6	26/06		3	20	#12	B-3 (1 HP)		20 22	-
-H-2 (5kW)	(E)	20	2		2.6 / 0.6	2.6 / 0.6	-					22	
RIGATION CONTROL	(E)	20	1	0.3 / 0.6		2.070.0	3	20	#12	B-4 (1 HP)		24	-
RECEPTACLE	(E)	20	1	0.07 0.0	0.2/0.6		Ť	20	112			28	
RECEPTACLES	(E)	20	1			0.7 / 0.6						30	
ATTERY CHARGER	(E)	20	1	0.5 / 0.6			3	20	#12	B-5 (1 HP)		32	
RECEPTACLES	(E)	20	1		0.5 / 0.6							34	
ATER TREATMENT	(E)	20	1			0.2/0.0	1	20		CWP-1 HEATER		36	
	(E)	20	1	0.2 / 0.0	0.0/0.0		1	20		CWP-2 HEATER		38	
ROOF RECEPTACLE RECEPTACLES AND EXHAUST FAN	(E) (E)	20 20	1		0.2 / 0.0	1.2 / 1.0	1	20 20		CWP-3 HEATER CT-1 CONTROLS		40 42	
-2 CONTROLS	(∟) #10	20	1	1.0 / 0.0		1.271.0	1			SPACE		42	
T-3 CONTROLS	#10	20	1	1.0 / 0.0	0.5 / 0.0		1			SPACE		46	
PARE		20	1			0.0 / 0.0	1			SPACE		48	
PARE		20	1	0.0 / 0.0			1			SPACE		50	
PARE		20	1		0.0 / 0.0		1			SPACE		52	
PARE		20	1			0.0 / 0.0	1			SPACE		54	
PARE		20	1	0.0 / 0.0	0.0/0.0		1			SPACE		56	
PARE PARE		20 20	1		0.0 / 0.0	0.0/0.0	1			SPACE SPACE		58 60	
PARE		20	1	0.0 / 0.0		0.070.0	1			SPACE		62	
PARE		20	1		0.0 / 0.0		1			SPACE		64	
PARE		20	1			0.0 / 0.0	1			SPACE		66	
PARE		20	1	0.0 / 0.0			1			SPACE		68	
PARE		20	1		0.0 / 0.0		1			SPACE		70	
PACE			1	00/00		0.0 / 0.0	1			SPACE		72	
PACE			1	0.0 / 0.0	0.0 / 0.0		1			SPACE SPACE		74 76	
PACE			1		0.070.0	0.0/0.0	1			SPACE		78	
PACE			1	0.0/0.2		0.070.0	<u> </u>					80	
PACE			1		0.0 / 0.2		3	30	#10	SPDL		82	1
PACE			1			0.0/0.2						84	
	Total	Load:		8.7 kVA	9.2 kVA	12.1 kVA							
	Total A	Amps:		73 A	77 A	102 A							
ation	Connee	cted L	oad	Dema	and Factor	Estimat	ed D	eman	d	Panel T	otals		
	11.	2 kVA		1	00.00%	11.	2 k\	/A					
	9.0	) kVA		1	00.00%	9.0	) kV	A		Total Conn. Load: 3	80.0 kVA		
	7.1	1 kVA		1	00.00%	7.	1 kV	A		Total Est. Demand: 3	80.0 kVA		
	0.2	2 kVA		1	00.00%	0.2	2 kV	A		Total Conn. Current: 8	33 A		
	2.5	5 kVA		1	00.00%	2.	5 kV	A		Total Est. Demand Current: 8	33 A		
					brevations:								
PRESERVED LOAD TO NEW PANEL													ľ
					- PROVIDE P								
				LO	- PROVIDE F	'ERMANENT	LOC	K-ON	DEVIC	)と			

									Project No:	$\sim\sim\sim\sim\sim$
·····	~~~~~~	~~~~~~			Branch Panel: LTC Location: TENNIS COURTS Supply From: HTC Mounting: Surface	P		PANEL WITH INTEGRA A.I.C. Ra Enclo		
Branch Panel: CPL			NEW PA	ANEL			Phase in kVA			
Location: ELECTRICAL F Supply From: TCPL	ROOM 1966	Volts: 120/208 Wye Phases: 3	A.I.C. Rating: 10,000 Enclosure: Type 1	Note CKT	Circuit Description	Wire Breaker A	ВС	Breaker Wire	Circuit Description	CKT No
Mounting: Surface		Wires: 4 Phase in kVA	Mains: 50A MCB		Receptacles LIGHTS CONTROL PANEL	#12         20         1         0.2 / 0.0           #12         20         1         1		1 SPACE 1 SPACE	•	2 4
				7	Receptacles SPARE	#12         20         1            20         1         0.0 / 0.0	0.2 / 0.0	1          SPACE           1          SPACE		6 8
Circuit Description BAS CONTROLLER	Wire         Breaker         I           (E)         20         1         0.3		Breaker         Wire         Circuit Description           1         20         (E)         BAS	2 1 11	SPARE SPARE SPARE	20         1            20         1            20         1	0.0 / 0.0	1          SPACE           1           SPACE           1           SPACE		10 12
5 RECEPTACLES WATER SOFTENER WATER TREATMENT	(E)         20         1           (E)         20         1           (E)         20         1	0.9 / 0.2 0.3 / 0.6	1 20 #12 CARBON MONOXIDE 3 20 #12 B-1 (1 HP)	6 15	SPARE SPARE	20 1 20 1 20 1	0.0 / 0.0 0.0 / 0.0	1           SPACE           1           SPACE           1           SPACE		14 16 18
WATER TREATMENT SPARE	(E) 20 1 (E) 20 1	0.2/0.6 0.3/0.6		10          19           12          21	SPARE	20 1 0.0/0.2 20 1	0.0 / 0.2	3 30 #10 SPDL		20 22 24
ROOF RECEPTACLE F-H-15 (1/4 HP)	(E) 20 1 0.2 (E) 20 1 (E) 20 (	/ 0.6 0.7 / 0.6 2.6 / 0.6	3 20 #12 B-2 (1 HP)	14 16 18	SPARE	20         1           Total Load:         0.3 kVA	0.0 / 0.2 0.7 kVA 0.3 kVA			24
F-H-1 (5kW) F-H-2 (5kW)	(E) 20 2 2.6 (E) 20 2	2.6 / 0.6	3 20 #12 B-3 (1 HP)	20       22       24         Miscellanec			6 A 3 A and Factor Estimated		Panel Totals	
RRIGATION CONTROL	(E) 20 1 0.3 (E) 20 1	0.2 / 0.6	3 20 #12 B-4 (1 HP)	26 28			100.00% 1.0 100.00% 0.4	kVA Total	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA	
RECEPTACLES ATTERY CHARGER RECEPTACLES	(E)         20         1           (E)         20         1         0.5           (E)         20         1         0.5	0.7 / 0.6 / 0.6 0.5 / 0.6	3 20 #12 B-5 (1 HP)	30 32 34				Total C	onn. Current: 4 A	
VATER TREATMENT VATER TREATMENT	(E) 20 1 (E) 20 1 0.2	/ 0.0	1         20         #10         CWP-1 HEATER           1         20         #10         CWP-2 HEATER	36 38						
ROOF RECEPTACLE RECEPTACLES AND EXHAUST FAN CT-2 CONTROLS	(E)         20         1           (E)         20         1           #10         20         1         1.0		1         20         #10         CWP-3 HEATER           1         20         #10         CT-1 CONTROLS           1           SPACE	40 42 44	I		bbrevations: - PROVIDE GFCI CIRCUIT B	REAKER		
CT-3 CONTROLS SPARE	#10 20 1 20 1	0.5 / 0.0 0.0 / 0.0	1 SPACE 1 SPACE	46 48			- PROVIDE PERMANENT L - PROVIDE PERMANENT L			
PARE PARE PARE	20         1         0.0            20         1            20         1	0.0 / 0.0	1          SPACE           1          SPACE           1          SPACE	50 52 54						
ARE ARE ARE	20         1         0.0            20         1 <td>/ 0.0</td> <td>1 SPACE 1 SPACE 1 SPACE</td> <td>56 58 60</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	/ 0.0	1 SPACE 1 SPACE 1 SPACE	56 58 60						
PARE	20 1 0.0 v 20 1	/ 0.0 / 0.0 / 0.0	1 SPACE 1 SPACE	62	Dranah Darah UTA					
ARE ARE ARE	20         1            20         1         0.0 /            20         1         1	/ 0.0	1          SPACE           1          SPACE           1          SPACE	66 68 70	Branch Panel: HTC Location: TENNIS COURTS		Volts: 277/480 Wye		NEW P ating: 18,000	ANEL
ACE ACE	1 1 0.0	/ 0.0	1 SPACE 1 SPACE	<u>72</u> 74	Supply From: ABH Mounting: Surface	P	Phases: 3 Wires: 4	Enclo	sure: Type 1 lains: 100A MCB	
ACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACEACE _ACE	1 1 1 0.0	0.0 / 0.0	1 SPACE 1 SPACE	76            78            80			Phase in kVA			
ACE	1 1	0.0 / 0.2 0.0 / 0.2	3 30 #10 SPDL	82         1           84         1	Circuit Description	Wire         Breaker         A           0.0 / 0.0         0.0 / 0.0		Breaker Wire (	Circuit Description	<b>CKT</b> N
tion		kVA         9.2 kVA         12.1 kVA           3 A         77 A         102 A           Demand Factor         Estimate	ed Demand Panel Totals	5	TENNIS LIGHTS	#10 20 3	0.0 / 0.0 0.0 / 0.0	1 SPACE 1 SPACE		4 6
	11.2 kVA 9.0 kVA	100.00% 11.2	2 kVA Total Conn. Load: 30.0 kVA	9	SPACE SPACE SPACE	1 0.0/0.0 1 1	0.0 / 0.0	1          SPACE           1          SPACE           1          SPACE		8 10 12
	7.1 kVA 0.2 kVA	100.00% 7.1	I kVA         Total Est. Demand:         30.0 kVA           2 kVA         Total Conn. Current:         83 A	<u>13</u> 15	SPACE SPACE SPACE	1 0.0 / 0.0 1 1	0.0 / 0.0	1           SPACE           1           SPACE           1           SPACE		14 16 18
	2.5 kVA	100.00% 2.5	5 kVA     Total Est. Demand Current:     83 A	19 21	SPACE	1 1 0.0 / 0.0		1 SPACE 1 SPACE		20 22
						== 1				
		Abbrevations:		23 25	SPACE SPACE	1 1 0.0 / 0.0	0.0/0.0	1 SPACE 1 SPACE 1 SPACE		24 - 26 - 28 -
PRESERVED LOAD TO NEW PANEL		G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT L	LOCK-OFF DEVICE	23 25 27 29 31	SPACE SPACE SPACE SPACE SPACE	1             1         0.0 / 0.0             1             1             1            1         0.0 / 0.3	0.0 / 0.0	1          SPACE           1           SPACE           1           SPACE		30 -
T PRESERVED LOAD TO NEW PANEL		G - PROVIDE GFCI CIRCUIT E	LOCK-OFF DEVICE	23 25 27 29 31 33 35 37	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1 1 0.0/0.0 1 1	0.0 / 0.0	1 SPACE 1 SPACE		24 26 28 30 32 34 36 38
CT PRESERVED LOAD TO NEW PANEL		G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT L	LOCK-OFF DEVICE	23 25 27 29 31 33 35 37	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1           1           1           1           1           1           1           1           1           1           1           1           1           1           1	0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.7 0.0 / 0.3 0.0 / 0.0 0.0 / 0.0	1          SPACE           1           SPACE           1           SPACE		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
CT PRESERVED LOAD TO NEW PANEL		G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT L	LOCK-OFF DEVICE	23 25 27 29 31 33 35 37 39	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1       0.0 / 0.0           1       0.0 / 0.0           1            1       0.0 / 0.3           1       0.0 / 0.3           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.3 kVA         Total Load:       0.3 kVA       1 A	0.0 / 0.0 0.0 / 0.0 0.0 / 0.7 0.0 / 0.7 0.0 / 0.3 0.0 / 0.0	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL	Panel Totals	30
		G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT L	LOCK-OFF DEVICE	23 25 27 29 31 33 35 37 39 41 <b>Load Class</b> Miscellaneo	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1       0.0 / 0.0           1       0.0 / 0.0           1            1       0.0 / 0.3           1       0.0 / 0.3           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.3 kVA         Total Load:       0.3 kVA       1A         Connected Load       Dem         1.0 kVA       1	0.0 / 0.0 0.0 / 0.0 0.0 / 0.7 0.0 / 0.7 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 1 A	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d       Demand       KVA       Total	I Conn. Load: 1.4 kVA	30
Branch Panel: CPH Location: ELECTRICAL F	ROOM 1966	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT L LO - PROVIDE PERMANENT	LOCK-OFF DEVICE LOCK-ON DEVICE NEW PA A.I.C. Rating: 18,000	23 25 27 29 31 33 35 37 39 41 <b>Load Class</b> Miscellaneo	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1       0.0 / 0.0           1       0.0 / 0.0           1            1       0.0 / 0.3           1       0.0 / 0.3           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.3 kVA         Total Load:       0.3 kVA       1A         Connected Load       Dem         1.0 kVA       1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         100.00%       1.0	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d       Demand       KVA       Total I         KVA       Total I       Total C	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A	30
Branch Panel: CPH	ROOM 1966	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT L LO - PROVIDE PERMANENT	LOCK-OFF DEVICE	23 25 27 29 31 33 35 37 39 41 <b>Load Class</b> Miscellaneo	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1       0.0 / 0.0           1       0.0 / 0.0           1            1       0.0 / 0.3           1       0.0 / 0.3           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.3 kVA         Total Load:       0.3 kVA       1A         Connected Load       Dem       1.0 kVA       1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         100.00%       1.0	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d       Demand       KVA       Total I         KVA       Total I       Total C	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA	30 -
Branch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface		G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT L LO - PROVIDE PERMANENT I Volts: 277/480 Wye Phases: 3 Wires: 4	NEW PA	23 25 27 29 31 33 35 35 37 39 41 <b>Load Class</b> Miscellaned Receptacles Miscellaned Receptacles	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1 $0.0 / 0.0$ 1 $0.0 / 0.0$ 1 $0.0 / 0.3$ 1 $0.0 / 0.3$ 1 $0.0 / 0.3$ 1 $0.0 / 0.3$ 1 $0.0 / 0.0$ 1 $0.0 / 0.0$ 1 $0.0 / 0.0$ 1 $0.0 / 0.0$ 1 $0.0 / 0.0$ 1 $0.0 / 0.0$ 1 $0.0 / 0.0$ 1 $0.3 \text{ kVA}$ Total Load:       0.3 kVA       1         1.0 kVA       1       1         0.4 kVA       1       1         -       -       -       -         -       -       -       -         1.0 kVA       1       -         0.4 kVA       1       -         -       -       -       -	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         100.00%       1.0	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d Demand       KVA       Total I         kVA       Total Control I       Total Est. Dem	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A	30 -
Pranch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface	Wire         Breaker         ∅           (E)         20         1         0.5	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT L LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA	NEW PA A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO Breaker Wire Circuit Description 1 20 (E) RELAY 2	23 25 27 31 33 35 35 37 39 41 <b>Load Class</b> Miscellaned Receptacles	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1       0.0 / 0.0           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1         Total Load:       0.3 kVA         Total Amps:       1 A         Connected Load       Dem         1.0 kVA       1         0.4 kVA       1                     1.0 kVA       1         0.4 kVA       1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         Dand Factor       Estimated         100.00%       1.0         00.00%       0.4	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d       Demand       KVA         kVA       Total       Total         Total Est. Dem       Image: Constraint of the set	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A	30 -
ranch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface	Wire Breaker	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2	NEW PA A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO Breaker Wire Circuit Description	23 25 27 29 31 33 35 37 39 41 <b>Load Class</b> Miscellaned Receptacles  Notes: Notes:	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1       0.0 / 0.0           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1         Total Load:       0.3 kVA         Total Amps:       1 A         Connected Load       Dem         1.0 kVA       1         0.4 kVA       1                     1.0 kVA       1         0.4 kVA       1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         nand Factor       Estimated         100.00%       1.0         100.00%       0.4	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d       Demand       KVA         kVA       Total       Total         Total Est. Dem       Image: Constraint of the set	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A	30
ranch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface	Wire         Breaker         A           (E)         20         1         0.5 /           (E)         20         1	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2 / 0.2 0.2 / 0.2 1.4 / 1.4	LOCK-OFF DEVICE         LOCK-ON DEVICE         NEW PA         Al.C. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Breaker       Wire         Circuit Description         1       20         1       20         (E)       RELAY 2         1       20         (E)       RELAY 3	23 25 27 31 33 35 37 39 41 <b>Load Class</b> Miscellaned Receptacles 41 Notes: Notes: Notes:	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1       0.0 / 0.0           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1         Total Load:       0.3 kVA         Total Amps:       1 A         Connected Load       Dem         1.0 kVA       1         0.4 kVA       1                     1.0 kVA       1         0.4 kVA       1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         nand Factor       Estimated         100.00%       1.0         100.00%       0.4	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d       Demand       KVA         kVA       Total       Total         Total Est. Dem       Image: Constraint of the set	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A	30
Circuit Description Circuit Description AY 1 AY 4 RKING LOT /P-3 (3 HP)	Wire         Breaker $4$ (E)         20         1         0.5           (E)         20         1         1           (E)         20         1         1           (E)         30         3         0.2           #12         20         3         1.4           (E)         20         1         1	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2 (0.2 0.2 / 0.2 1.4 / 1.4 / 1.4 / 1.4 0.5 / 1.4	LOCK-OFF DEVICE         NEW PA         AI.C. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Breaker       Wire       Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       FCU-H1         3       20       #12       HWP-4 (3 HP)	23          25          27          31          35          37          39          41         Kodd Class         Miscellaned         Miscellaned         Receptacle          31          39          41          31          39          41              41              39	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1       0.0 / 0.0           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1         Total Load:       0.3 kVA         Total Amps:       1 A         Connected Load       Dem         1.0 kVA       1         0.4 kVA       1                     1.0 kVA       1         0.4 kVA       1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         nand Factor       Estimated         100.00%       1.0         100.00%       0.4	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d       Demand       KVA         kVA       Total       Total         Total Est. Dem       Image: Constraint of the set	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A	30 .
Circuit Description AY 1 AY 4 RKING LOT CTRIC HEATER	Wire         Breaker $4$ (E)         20         1         0.5 ////////////////////////////////////	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I DO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.4 1.4 / 1.4 1.4 / 1.4 1.4 / 1.4	LOCK-OFF DEVICE         NEW PA           NEW PA         A.I.C. Rating: 18,000           Enclosure: Type 1         Mains: 200A MLO           1         20         (E)         RELAY 2           1         20         (E)         RELAY 3           3         30         (E)         FCU-H1           3         20         #12         HWP-4 (3 HP)           3         20         #12         HWP-5 (3 HP)	23          25          27          29          31          35          37          39          41         Load Class         Miscellanec         Receptacle          1          1          1          1          1          1          1          1          1          1          1          1          1          1          1          1          1          1          1          1          1          1          1          1          1          1	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1       0.0 / 0.0           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1         Total Load:       0.3 kVA         Total Amps:       1 A         Connected Load       Dem         1.0 kVA       1         0.4 kVA       1                     1.0 kVA       1         0.4 kVA       1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         nand Factor       Estimated         100.00%       1.0         100.00%       0.4	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d       Demand       KVA         kVA       Total       Total         Total Est. Dem       Image: Constraint of the set	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A	
Panel: CPH         Location: ELECTRICAL F         Supply From: CPDA         Mounting: Surface         Circuit Description         AY 1         AY 4         RKING LOT         'P-3 (3 HP)         ECTRIC HEATER         'P-6 (3 HP)	Wire       Breaker $A$ (E)       20       1       0.5 ////////////////////////////////////	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2 / 0.2	DEVICE         NEW PA         AI.C. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Breaker       Wire       Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       FCU-H1         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-5 (3 HP)         3       20       #12       HWP-7 (3 HP)	23          25          27          29          31          35          37          39          39          41         Load Class         Miscellaned         Receptacle          41          39          41          39          41          39          41          39          41          39          41              39	SPACE	1       0.0 / 0.0           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1         0.4	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.1 / 0.0         0.0 / 0.0%       1.0         100.00%       0.4         0.0 / 0.0%       0.4         0.0 / 0.0%       0.4         0.0 / 0.0%       0.4         0.0 / 0.0%       0.4         0.0 / 0.0%       0.4         0.0 / 0.0%       0.4         0.0 / 0.0%       0.4         0.0 / 0.0%       0.4         0.0 / 0.0%       0.4         0.0 / 0.0%       0.4         0.0 / 0.0%       0.4         0.0 / 0.0% <td>1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d       Demand       KVA         kVA       Total       Total         kVA       Total       Total         REAKER       OCK-OFF       DEVICE         OCK-ON       DEVICE         OCK-ON       DEVICE         AI.C. Ra</td> <td>I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A EXISTING ating: 10,000</td> <td></td>	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d       Demand       KVA         kVA       Total       Total         kVA       Total       Total         REAKER       OCK-OFF       DEVICE         OCK-ON       DEVICE         OCK-ON       DEVICE         AI.C. Ra	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A EXISTING ating: 10,000	
AY 1 AY 1 AY 4 RKING LOT P-3 (3 HP) ECTRIC HEATER P-6 (3 HP) H-1 (5 KW)	Wire       Breaker $A$ (E)       20       1       0.5 ////////////////////////////////////	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2 / 0.2	DOCK-OFF DEVICE         NEW PA         AI.C. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Breaker       Wire       Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       FCU-H1         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-5 (3 HP)         3       20       #12       HWP-7 (3 HP)         3       20       #12       EUH-2 (5 kW)	23          25          27          29          31          33          35          37          39          41         Load Class         Miscellaned         Receptacle          41          39          41          39          41         Notes:          Notes:          10          12          14          10          12          14          20          22          24          26          30          32	SPACE	1       0.0 / 0.0           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1         0.4 kVA       1	0.0 / 0.0 0.0 / 0.0 0.0 / 0.7 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.7 kVA 2 A 1 A and Factor Estimated 100.00% 1.0 100.00% 0.4 0 0.0 / 0.0 1.0 0.0 / 0.0 0.4 0 0.0 / 0.0 0.4 0 0 0.0 / 0.0 0.4 0 0 0 0.0 / 0.0 0.4 0 0 0 0 0 0 0 0 0 0 0 0 0	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d       Demand       KVA         kVA       Total       Total         kVA       Total       Total         C       Total       Total         REAKER       OCK-OFF       DEVICE         OCK-ON       DEVICE       Al.C. Ra	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A	
Anch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface Circuit Description AY 1 AY 1 AY 4 RKING LOT P-3 (3 HP) CTRIC HEATER P-6 (3 HP) H-1 (5 KW)	Wire       Breaker $A$ (E)       20       1       0.5 ////////////////////////////////////	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2 / 0.2	NEW PA         NEW PA         A.I.C. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Breaker       Wire       Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       FCU-H1         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-5 (3 HP)         3       20       #12       HWP-7 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)	23          25          27          29          31          33          35          37          39          41         Load Class         Miscellaneo         Receptacle          31          39          41          31          39          41          31          31          39          41              41	SPACE	1       0.0 / 0.0           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1         0.4 kVA       1	Volts: 120/208 Wye Phases: 3 Wires: 4	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         d       Demand       KVA         kVA       Total       Total         kVA       Total       Total         C       Total       Total         REAKER       OCK-OFF       DEVICE         OCK-ON       DEVICE       Al.C. Ra	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A EXISTING ating: 10,000 sure: Type 1	
Ary 1 Ary 1 Ary 4 RKING LOT P-3 (3 HP) ECTRIC HEATER P-6 (3 HP) 1-1 (5 kW) 1-3 (5 kW) J-H2 (3 HP)	Wire       Breater $I$ (E)       20       1       0.5         (E)       20       1       1         (E)       20       1       1         (E)       30       3       0.2         #12       20       3       1.4         #12       20       1       1.4         #12       20       3       1.4         #12       20       3       1.4         #12       20       3       1.4         #12       20       3       1.4         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #14 </td <td>G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2 / 1.4 / 1.4 / 1.4 / 1.4 / 1.4 / 1.4 / 1.7 / 1.7</td> <td>NEW PA         NEW PA         Al.C. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO         Breaker       Wire       Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       FCU-H1         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-5 (3 HP)         3       20       #12       HWP-7 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-4 (5 kW)</td> <td>       23          25          27          29          31          33          33          33          33          33          33          33          33          39          41          39          41          39          41          39          41          39          41              31          31          31          31          31          31          31                             </td> <td>SPACE SPACE Ification Is /td> <td>       1       0.0 / 0.0           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1        </td> <td>0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         nand Factor       Estimated         100.00%       1.0         100.00%       0.4         00.0 / 0.0       0.4         Dobrevations:       -         - PROVIDE GFCI CIRCUIT B         - PROVIDE PERMANENT L         Dobrevations:         - Phase in kVA         B       C</td> <td>1        SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         4       Demand       KVA         kVA       Total       Total         kVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       OCK-ON DEVICE         OCK-ON DEVICE       AI.C. Ra         Enclo       M         4       20       IRRIGATION COMM</td> <td>ExiSTING ating: 10,000 sure: Type 1 lains: 50A MCB</td> <td>30 32 34 36 38 40 42</td>	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2 / 1.4 / 1.4 / 1.4 / 1.4 / 1.4 / 1.4 / 1.7 / 1.7	NEW PA         NEW PA         Al.C. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO         Breaker       Wire       Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       FCU-H1         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-5 (3 HP)         3       20       #12       HWP-7 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-4 (5 kW)	23          25          27          29          31          33          33          33          33          33          33          33          33          39          41          39          41          39          41          39          41          39          41              31          31          31          31          31          31          31	SPACE Ification Is	1       0.0 / 0.0           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         nand Factor       Estimated         100.00%       1.0         100.00%       0.4         00.0 / 0.0       0.4         Dobrevations:       -         - PROVIDE GFCI CIRCUIT B         - PROVIDE PERMANENT L         Dobrevations:         - Phase in kVA         B       C	1        SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         4       Demand       KVA         kVA       Total       Total         kVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       OCK-ON DEVICE         OCK-ON DEVICE       AI.C. Ra         Enclo       M         4       20       IRRIGATION COMM	ExiSTING ating: 10,000 sure: Type 1 lains: 50A MCB	30 32 34 36 38 40 42
Canch Panel: CPH         Location: ELECTRICAL F         Supply From: CPDA         Mounting: Surface         Circuit Description         AY 1         AY 4         RKING LOT         P-3 (3 HP)         CTRIC HEATER         P-6 (3 HP)         +-1 (5 kW)         +-3 (5 kW)         J-H2 (3 HP)         J-H2 (3 HP)	Wire       Breater $I$ (E)       20       1       0.5         (E)       20       1       1         (E)       20       1       1         (E)       30       3       0.2         #12       20       3       1.4         #12       20       1       1.4         #12       20       3       1.4         #12       20       3       1.4         #12       20       3       1.4         #12       20       3       1.4         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #12       20       3       1.7         #14 </td <td>G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in KVA A B C / 0.5 0.5 / 0.5 0.5 / 0.5 0.2 / 0.2 / /td> <td>NEW PA         NEW PA         AI.C. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Breaker       Wire       Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       FCU-H1         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-7 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-4 (5 kW)         3       20       #12       EUH-4 (5 kW)         3       50       1L       TCPL         1       30       1L       TCPL</td> <td>ANEL</td> <td>SPACE SPACE Ification US IS Location: Supply From: ABL Mounting: RECESSED Circuit Description SPARE DUGOUT 3RD BASE</td> <td>        1           1           1          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0           1           1           1           1           1         Total Load:       0.3 kVA         Total Amps:       1A         Connected Load       Dem         1.0 kVA       1         0.4 kVA       1         0.4 kVA       1                          20       2          20       1          20</td> <td>0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         nand Factor       Estimated         100.00%       1.0         100.00%       0.4         00.0 / 0.0       0.4         00.00%       1.0         00.00%       1.0         00.00%       0.4         00.00%       0.4         00.00%       0.4         00.00%       0.4         00.00%       0.4         00.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.10       0.4         0.2       Wires: 4         Phase in kVA</td> <td>1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         4       Demand       KVA       Total         kVA       Total       Total       I         kVA       Total       I       Total       I         REAKER       OCK-OFF       DEVICE       OCK-ON       DEVICE         OCK-ON       DEVICE       A.I.C. Ra       Enclo       M         M       20       (E)       IRRIGATION       C         1       20       (E)       BLEACHERS       1       20         1       20       (E)       BLEACHERS       C       C</td> <td>Existing: 10,000 sure: Type 1 lains: 50A MCB</td> <td>30 32 34 36 38 40 42</td>	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in KVA A B C / 0.5 0.5 / 0.5 0.5 / 0.5 0.2 / 0.2 /	NEW PA         NEW PA         AI.C. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Breaker       Wire       Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       FCU-H1         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-7 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-4 (5 kW)         3       20       #12       EUH-4 (5 kW)         3       50       1L       TCPL         1       30       1L       TCPL	ANEL	SPACE Ification US IS Location: Supply From: ABL Mounting: RECESSED Circuit Description SPARE DUGOUT 3RD BASE	1           1           1          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0           1           1           1           1           1         Total Load:       0.3 kVA         Total Amps:       1A         Connected Load       Dem         1.0 kVA       1         0.4 kVA       1         0.4 kVA       1                          20       2          20       1          20	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         nand Factor       Estimated         100.00%       1.0         100.00%       0.4         00.0 / 0.0       0.4         00.00%       1.0         00.00%       1.0         00.00%       0.4         00.00%       0.4         00.00%       0.4         00.00%       0.4         00.00%       0.4         00.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.00%       0.4         0.10       0.4         0.2       Wires: 4         Phase in kVA	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         4       Demand       KVA       Total         kVA       Total       Total       I         kVA       Total       I       Total       I         REAKER       OCK-OFF       DEVICE       OCK-ON       DEVICE         OCK-ON       DEVICE       A.I.C. Ra       Enclo       M         M       20       (E)       IRRIGATION       C         1       20       (E)       BLEACHERS       1       20         1       20       (E)       BLEACHERS       C       C	Existing: 10,000 sure: Type 1 lains: 50A MCB	30 32 34 36 38 40 42
Anch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface Circuit Description AY 1 AY 4 RKING LOT P-3 (3 HP) CTRIC HEATER P-6 (3 HP) 4-1 (5 kW) 4-3 (5 kW) 4-3 (5 kW) 1-4-16 (3 HP) 4-16 (3 HP) 4-16 (3 HP)	Wire       Breaker $A$ (E)       20       1       0.5 ////////////////////////////////////	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2 / 0.2	DEVICE         NEW PA         A.I.C. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Breaker       Wire       Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       FCU-H1         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-5 (3 HP)         3       20       #12       HWP-7 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-4 (5 kW)         3       50       1L       TCPL         1        SPACE          1        SPACE	23 25 27 29 31 33 33 39 41 <b>Load Class</b> Miscellanec Receptacle 41 33 39 41 41  Notes: Notes: Notes:  Notes:  Notes:  Notes:                                                                                                                                                                                                                                                                                       	SPACE CE SPACE SPARE DUGOUT 3RD BASE SPARE OUTDOOR WALLPACK SOUND SYSTEM	1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1                    20       1          20       1          20       1          20       1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         nand Factor       Estimated         100.00%       1.0         100.00%       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.5 / 0.4       0.4 / 0.4	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4       Demand       KVA       Total         kVA       Total       Total         kVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       Total Est. Dem         OCK-OFF DEVICE       A.I.C. Ra         Breaker       Wire       G         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       RECEPTACLES         1       20       (E)       RECEPTACLES	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING	30 32 34 36 38 40 42 42 5 PANEL
Ar 1 Ar 1 Ar 4 Circuit Description Ar 1 Ar 4 RKING LOT P-3 (3 HP) CTRIC HEATER P-6 (3 HP) 1-1 (5 kW) 1-3 (5 kW) 1-5 (5 kW) 1-16 (3 HP) -1-16 (3 HP) ACE ACE ACE ACE ACE ACE ACE ACE	Wire       Breaker $A$ (E)       20       1       0.5 /         (E)       20       1       0.5 /         (E)       20       1       0.2 /         (E)       30       3       0.2 /         (E)       30       3       0.2 /         (E)       20       1       1.4 /         #12       20       3       1.4 /         #12       20       3       1.4 /         #12       20       3       1.4 /         #12       20       3       1.7 /         #12       20       3       1.7 /         #12       20       3       1.7 /         #12       20       3       1.7 /         #12       20       3       1.7 /         #12       20       3       1.7 /         #12       20       3       1.7 /         #12       20       1       4.0 /         #12       20       1       4.0 /         #12       20       1       4.0 /         #12       20       1       0.0 /           1	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.4 / 1.4 / 1.4 / 1.7 / 1.7 / 1.7 / 1.7	LOCK-OFF DEVICE         NEW PA         AL.C. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Breaker       Wire       Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       RCU-H1         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-5 (3 HP)         3       20       #12       HWP-7 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-4 (5 kW)         3       50       1L       TCPL         1        SPACE          1        SPACE          1        SPACE          1        SPACE          1        SPACE	ANEL	SPACE CICUITODI SUPPLYFOR: ABL Mounting: RECESSED CICUIT Description SPARE DUGOUT 3RD BASE SPARE DUGOUT 3RD BASE SPARE OUTDOOR WALLPACK SOUND SYSTEM BATTING CAGE SCORE BOARD BATTING CAGE	1           1           1           1           1           1           1           1           1           1           1           1           1           1          1       0.0 / 0.0           1           1           1           1         0.4 KVA       1         0.4 KVA       1               20       1          20       1          20       1          20       1          20       1         (E)       20       1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         aand Factor       Estimated         100.00%       1.0         100.00%       0.4         100.00%       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4	1         SPACE         1         SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4       Demand       KVA       Total         kVA       Total       Total       Total         kVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       OCK-ON DEVICE         OCK-ON DEVICE       A.I.C. Ra         Breaker       Wire       C         1       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       DUGOUT 1ST B         1       20       (E)       DUGOUT 1ST B         1       20       (E)       DUGOUT 1ST B	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING	30 32 34 36 38 40 42 42 5 PANEL
Anch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface Circuit Description AY 1 AY 4 RKING LOT P-3 (3 HP) CCTRIC HEATER P-6 (3 HP) 4-1 (5 kW) 4-3 (5 kW) 4-5 (5 kW) J-H2 (3 HP) H-16 (3 HP) H-16 (3 HP) KCE KCE KCE KCE KCE	Wire       Breaker $//$ (E)       20       1       0.5 /         (E)       20       1       0.5 /         (E)       20       1       0.2 /         (E)       30       3       0.2 /         (E)       30       3       0.2 /         (E)       20       1       1.4 /         #12       20       3       1.4 /         #12       20       3       1.4 /         #12       20       3       1.4 /         #12       20       3       1.4 /         #12       20       3       1.7 /         #12       20       3       1.7 /         #12       20       3       1.7 /         #12       20       3       1.7 /         #12       20       3       1.7 /         #12       20       1       4.0 /         #12       20       1       4.0 /         #12       20       1       4.0 /         #12       20       1       0.0 /           1       0.0 /           1	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in kVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 0.3 / 1.7 / 1.7 (1.7	ICOCK-OFF DEVICE         NEW PA         ALIC. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Brewker       Wire       Circuit Description         1       20       (E)       RELAY 2	23          25          29          31          33          33          33          33          33          33          31          33          39          41          39          41          38         10       12         14       1         6       8         10       12         14       16         18       20         22       24         26       28         300       32         34       36         30       32         34       5         35          70       54         52          54          58       -         56       -         58       -         64       -      <	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SP	1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1          1       0.3 kVA         Total Amps:       1A         0.4 kVA       1         0.4 kVA       1         0.4 kVA       1                  20       1          20       1          20       1          20       1         (E)       20	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.1 / 0.4         0.5 / 0.4       0.1 / 0.4         0.5 / 0.4       0.1 / 0.4         0.5 / 0.0       0.4 / 0.0         1.0 / 0.2       0.4 / 0.0	1        SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         4       Demand       KVA       Total         kVA       Total       Total         kVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       Al.C. Ra         OCK-OFF DEVICE       OCK-ON DEVICE       Maintendo Com         M       Al.C. Ra       Enclo         M       Q       E       BLEACHERS         M       Q       E       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       RECEPTACLES         1       20       (E)       DUGOUT 1ST B         1       20       (E)       DMS-16 CONDE         2       30       #10       DMSCU-16         1       20       #12       MAINTEN	ExiSTING	30 32 34 36 38 40 42 42 5 PANEL 5 PANEL 5 PANEL 5 PANEL 5 PANEL 6 8 10 10 12 4 6 8 10 10 12 14 14 16 18 20 22
Ary 1 Ary 1 Ary 4 RKING LOT P-3 (3 HP) CTRIC HEATER P-6 (3 HP) H-1 (5 kW) H-5 (5 kW) J-H2 (3 HP) H-16 (3 HP) H-16 (3 HP) ACE ACE ACE ACE ACE ACE ACE	Wire       Breaker $//$ (E)       20       1       0.5 //         (E)       20       1       0.5 //         (E)       20       1       0.2 //         (E)       30       3       0.2 //         (E)       30       3       0.2 //         (E)       20       1       -         #12       20       3       1.4 //         #12       20       3       -         #12       20       3       -         #12       20       3       -         #12       20       3       -         #12       20       3       -         #12       20       3       -         #12       20       3       -         #12       20       1       4.0 ////////////////////////////////////	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in KVA A B C / 0.5 0.5 / 0.5 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 0.5 / 0.5 0.5 / 0.5 0.2 / 0.2 0.2 / 0.2 0.2 / 0.2 0.5 / 0.5 0.2 / 0.2 0.2 / 0.2 0.5 / 0.5 0.2 / 0.2 0.2 / 0.2 0.3 / 0.0 0.0 / 0	LOCK-OFF DEVICE LOCK-ON DEVICE           NEW PA           Al.C. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO           Mains: 200A MLO           1         20           20         (E)           RELAY 2           1         20           1         20           20         (E)           RELAY 3           3         30           3         20           #12         HWP-4 (3 HP)           3         20           #12         HWP-5 (3 HP)           3         20           #10         FCU-H4 (3 HP)           3         20           #10         FCU-H4 (5 kW)           1         30           3         50           1	23          25          31          31          33          35          37          39          34          34          34          34          34          34          34          34          35          37          39          34          35          37          39          34             12       1         14       16         18       20         22          24          20          22          24          26          33          32          34	SPACE	1 $0.0 / 0.0$ 1 $0.0 / 0.3$ 1 $0.0 / 0.3$ 1 $0.0 / 0.0$ 1 $0.0 / 0.0$ 1 $0.0 / 0.0$ 1 $0.0 / 0.0$ 1 $0.0 / 0.0$ 1 $0.3 \text{ kVA}$ Total Load:       0.3 kVA       1         Total Amps:       1 A       1         0.4 kVA       1       1         0.5 / 0.2       1       1         0.5 / 0.2       1       1         0.5 / 0.2       1       1         0.5 / 0.2       1       1         0.5 / 0.2       1       1         0.5 / 0.2       1       1         1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.7 kVA       0.3 kVA         2 A       1 A         aand Factor       Estimated         100.00%       1.0         100.00%       0.4         100.00%       0.4         2 A       1 A         aand Factor       Estimated         100.00%       0.4         100.00%       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0	1        SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4       Demand       KVA       Total         KVA       Total       Total         KVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       AI.C. Ra         OCK-ON DEVICE       AI.C. Ra       Enclo         M       20       (E)       IRRIGATION CO         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       RECEPTACLES         1       20       (E)       RECEPTACLES         1       20       (E)       DUGOUT 1ST B         1       20       (E)       DUGOUT 1ST B         1       20       (E)       DUGOUT 1ST B         1       20       (E)       D	ExiSTING	30 32 34 36 38 40 42 42 5 PANEL 5 PANEL
<b>Canch Panel: CPH</b> Location: ELECTRICAL F         Supply From: CPDA         Mounting: Surface <b>Circuit Description</b> LAY 1         LAY 1         LAY 1         LAY 1         Carcuit Description         LAY 1         LAY 4         RKING LOT         /P-3 (3 HP)         ECTRIC HEATER         /P-6 (3 HP)         H-1 (5 kW)         H-3 (5 kW)         U-H2 (3 HP)         U-H3 (3 HP)         -H-16 (3 HP)         ACE	Wire       Breaker $//$ (E)       20       1       0.5 //         (E)       20       1       0.5 //         (E)       20       1       0.2 //         (E)       30       3       0.2 //         (E)       30       3       0.2 //         #12       20       3       1.4 //         #12       20       1       1.4 //         #12       20       3       1.4 //         #12       20       3       1.4 //         #12       20       3       1.4 //         #12       20       3       1.4 //         #12       20       3       1.4 //         #12       20       3       1.7 //         #12       20       3       1.7 //         #12       20       3       1.7 //         #12       20       1       4.0 //         #12       20       1       4.0 //         #12       20       1       4.0 //         #12       20       1       4.0 //         #12       20       1       1.0 //	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Volts: 277/480 Wye Phases: 3 Wires: 4 Phase in KVA A B C / 0.5 0.5 / 0.5 0.5 / 0.5 0.5 / 0.5 0.2 / 0.2 0.2 / 0.2 0	NEW PA           ALIC. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO           Breaker         Wire         Circuit Description           1         20         (E)         RELAY 2           1         20         (E)         RELAY 2           1         20         (E)         RELAY 3           3         30         (E)         FCU-H1           3         20         #12         HWP-4 (3 HP)           3         20         #12         HWP-7 (3 HP)           3         20         #12         EUH-2 (5 kW)           1         30         #10         FCU-H4 (3 HP)           3         20         #12         EUH-4 (5 kW)           3         20         #12         EUH-4 (5 kW)           3         50         1L         TCPL           1          SPACE            1          SPACE            1          SPACE            1          SPACE            1          SPACE            1          SPACE <tr< td=""><td>       23          25          27          29          31          33          37          37          37          31          37          37          37          37          31          37          37          37          31          31          37          37          37          31          31          31                                                 </td><td>SPACE SPACE /td><td><math display="block"> \begin{array}{c c c c c c } &amp; &amp; &amp; 1 &amp; </math></td><td>0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0</td><td>1        SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         d Demand       KVA       KOR         kVA       Total       Total         kVA       Total Est. Dem       Total Est. Dem         REAKER       Total Est. Dem       Total Est. Dem         CK-OFF DEVICE       OCK-OFF DEVICE         OCK-ON DEVICE       AI.C. Ra         Breaker       Wire       G         1       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1</td><td>ExiSTING</td><td>30 32 34 36 38 40 42 42 5 PANEL 5 PANEL 5 1 1 1 1 1 1 1 1 1 1 1 1 1</td></tr<>	23          25          27          29          31          33          37          37          37          31          37          37          37          37          31          37          37          37          31          31          37          37          37          31          31          31	SPACE	$ \begin{array}{c c c c c c } & & & 1 & & & & & & & & & & & & $	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0	1        SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         d Demand       KVA       KOR         kVA       Total       Total         kVA       Total Est. Dem       Total Est. Dem         REAKER       Total Est. Dem       Total Est. Dem         CK-OFF DEVICE       OCK-OFF DEVICE         OCK-ON DEVICE       AI.C. Ra         Breaker       Wire       G         1       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1	ExiSTING	30 32 34 36 38 40 42 42 5 PANEL 5 PANEL 5 1 1 1 1 1 1 1 1 1 1 1 1 1
<b>Circuit Description</b> LAY 4         Circuit Description         LAY 4         RKING LOT         /P-3 (3 HP)         ECTRIC HEATER         /P-6 (3 HP)         H-1 (5 kW)         H-3 (5 kW)         U-H2 (3 HP)         H-16 (3 HP)         H-16 (3 HP)         ACE         ACE <td>Wire         Breaker         <math>A</math>           (E)         20         1         0.5 ////////////////////////////////////</td> <td>G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Volts: 277/480 Wye Phases: 3 Wires: 4 Phase in KVA A B C 0.5 / 0.5 0.5 / 0.5 0.5 / 0.5 0.5 / 0.5 0.2 / 0.2 0.2 / 0.2 0.3 / 1.7 0.0 0.0 / 0.0 0.0 / 0.0</td> <td>NEW PA           ALC. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO           Breaker         Wire         Circuit Description           1         20         (E)         RELAY 2           1         20         (E)         RELAY 3           3         30         (E)         FCU-H1           3         20         #12         HWP-4 (3 HP)           3         20         #12         HWP-5 (3 HP)           3         20         #12         EUH-2 (5 kW)           1         30         #10         FCU-H4 (3 HP)           3         20         #12         EUH-2 (5 kW)           1         30         #10         FCU-H4 (3 HP)           3         20         #12         EUH-4 (5 kW)           3         50         1L         TCPL           1          SPACE           1         -</td> <td>       23          25          29          31          33          33          39          41          39          41          39          41          39          41             2       1         4       1         6          10          12          14       16         18       20         22          24       26         28          30       32         34          36          38          40          28          30          32          34          36          50           11</td> <td>SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE Circuit Description SPARE DUGOUT 3RD BASE SPARE DUGOUT 3RD BASE SPARE DUGOUT 3RD BASE SPARE SPARE DUGOUT 3RD BASE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE</td> <td>        1           1           1           1           1           1           1           1           1           1           1           1           1          1           1           1           1           1          1.0 kVA       1          0.4 kVA       1       1                    20       2          20       1          20       1          20       1          20       1        </td> <td>0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.5 / 0.4       0.1 / 0.4         0.5 / 0.4       0.1 / 0.4         0.5 / 0.4       0.4 / 0.0         0.5 / 0.4       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0</td> <td>1        SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         4       Demand       KVA       Total         KVA       Total       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       Total Est. Dem       SCK-OFF         OCK-OFF       DEVICE       AI.C. Ra         Breaker       Wire       G         1       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       RECEPTACLES         1       20</td> <td>ExiSTING</td> <td>30 32 34 36 38 40 42 40 42 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7</td>	Wire         Breaker $A$ (E)         20         1         0.5 ////////////////////////////////////	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Volts: 277/480 Wye Phases: 3 Wires: 4 Phase in KVA A B C 0.5 / 0.5 0.5 / 0.5 0.5 / 0.5 0.5 / 0.5 0.2 / 0.2 0.2 / 0.2 0.3 / 1.7 0.0 0.0 / 0.0 0.0 / 0.0	NEW PA           ALC. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO           Breaker         Wire         Circuit Description           1         20         (E)         RELAY 2           1         20         (E)         RELAY 3           3         30         (E)         FCU-H1           3         20         #12         HWP-4 (3 HP)           3         20         #12         HWP-5 (3 HP)           3         20         #12         EUH-2 (5 kW)           1         30         #10         FCU-H4 (3 HP)           3         20         #12         EUH-2 (5 kW)           1         30         #10         FCU-H4 (3 HP)           3         20         #12         EUH-4 (5 kW)           3         50         1L         TCPL           1          SPACE           1         -	23          25          29          31          33          33          39          41          39          41          39          41          39          41             2       1         4       1         6          10          12          14       16         18       20         22          24       26         28          30       32         34          36          38          40          28          30          32          34          36          50           11	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE Circuit Description SPARE DUGOUT 3RD BASE SPARE DUGOUT 3RD BASE SPARE DUGOUT 3RD BASE SPARE SPARE DUGOUT 3RD BASE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1           1           1           1           1           1           1           1           1           1           1           1           1          1           1           1           1           1          1.0 kVA       1          0.4 kVA       1       1                    20       2          20       1          20       1          20       1          20       1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.5 / 0.4       0.1 / 0.4         0.5 / 0.4       0.1 / 0.4         0.5 / 0.4       0.4 / 0.0         0.5 / 0.4       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0	1        SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         4       Demand       KVA       Total         KVA       Total       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       Total Est. Dem       SCK-OFF         OCK-OFF       DEVICE       AI.C. Ra         Breaker       Wire       G         1       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       RECEPTACLES         1       20	ExiSTING	30 32 34 36 38 40 42 40 42 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Pranch Panel: CPH         Location: ELECTRICAL F         Supply From: CPDA         Mounting: Surface         Circuit Description         ELAY 1         ELAY 4         VRKING LOT         VP-3 (3 HP)         ECTRIC HEATER         VP-6 (3 HP)         JH-1 (5 kW)         JH-3 (5 kW)         JH-5 (5 kW)         SU-H2 (3 HP)         SU-H3 (3 HP)         Z-H16 (3 HP)         Z-H16 (3 HP)         Z-ACE         ZACE	Wire       Breaker $A$ (E)       20       1       0.5 ////////////////////////////////////	G - PROVIDE GFCI CIRCUIT E         LF - PROVIDE PERMANENT I         LO - PROVIDE PERMANENT I         Phases: 3         Wires: 4         Phase in KVA         A       B         C       0.5 / 0.5         0.5 / 0.5       0.2 / 0.2         / 0.5       0.2 / 0.2         / 0.2       0.2 / 0.2         / 0.2       0.2 / 0.2         / 0.2       0.2 / 0.2         / 0.2       0.2 / 0.2         / 0.4       1.4 / 1.4         / 1.4       1.4 / 1.4         / 1.4       1.4 / 1.4         / 1.4       1.4 / 1.4         / 1.4       1.4 / 1.4         / 1.4       1.7 / 1.7         / 1.7       1.7 / 1.7         / 1.7       0.8 / 0.0         / 1.7       0.8 / 0.0         / 0.0 / 0.0       0.0 / 0.0         / 0.0 / 0.0       0.0 / 0.0         / 0.0 / 0.0       0.0 / 0.0         / 1.7       0.0 / 0.0         / 1.7       0.0 / 0.0         / 0.0 / 0.0       0.0	INEW PA           ALIC. Rating: 18,000           Enclosure: Type 1           Mains: 200A MLO           Breaker         Wire         Circuit Description           1         20         (E)         RELAY 2           1         20         (E)         RELAY 3           3         30         (E)         RELAY 3           3         20         #12         HWP-4 (3 HP)           3         20         #12         HWP-5 (3 HP)           3         20         #12         EUH-2 (5 kW)           1         30         #10         FCU-H4 (3 HP)           3         20         #12         EUH-2 (5 kW)           1         30         #10         FCU-H4 (3 HP)           3         20         #12         EUH-4 (5 kW)           3         20         #12         EUH-4 (5 kW)           3         50         1L         TCPL           1          -         SPACE           1          -         SPACE           1          -         SPACE           1          -         SPACE	ANEL	SPACE	1       0.0 / 0.0          1           1       0.0 / 0.3          1       0.0 / 0.3          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0           1         0.4 kVA       1         0.5 / 0.2       1          20       1          20       2          20       1          20       1          20       1          20	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0	1        SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         d Demand       KVA       KOR         kVA       Total       Total         kVA       Total Est. Dem       Total Est. Dem         REAKER       Total Est. Dem       Total Est. Dem         CK-OFF DEVICE       OCK-OFF DEVICE         OCK-ON DEVICE       AI.C. Ra         Breaker       Wire       G         1       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1	ExiSTING	30 32 34 36 38 40 42 5 PANEL 5 PANEL 5 PANEL 5 PANEL 5 PANEL 5 PANEL 5 PANEL
Panch Panel: CPH         Location: ELECTRICAL F         Supply From: CPDA         Mounting: Surface         Circuit Description         ELAY 1         ELAY 1         ELAY 4         ARKING LOT         WP-3 (3 HP)         LECTRIC HEATER         WP-6 (3 HP)         JH-1 (5 kW)         JH-3 (5 kW)         SUH-12 (3 HP)         CU-H2 (3 HP)         CU-H3 (3 HP)         F-H-16 (3 HP)         PACE         PACE <t< td=""><td>Wire       Breater       <math>I</math>         (E)       20       1       0.5 mmmmmm         (E)       20       1       0.5 mmmmm         (E)       20       1       0.2 mmmmm         (E)       30       3       0.2 mmmmm         #12       20       3       1.4 mmmmm         #12       20       3       1.4 mmmm         #12       20       3       1.4 mmmm         #12       20       3       1.4 mmmm         #12       20       3       1.4 mmm         #12       20       3       1.4 mmmmm         #12       20       3       1.4 mmmmm         #12       20       3       1.4 mmmmm         #12       20       1       4.0 mmmmm         #12       20       1       4.0 mmmm         #12       20       3       0.8 mmmm           1       0.0 mmm           1       0.0 mmm</td><td>G - PROVIDE GFCI CIRCUIT E         LF - PROVIDE PERMANENT I         LO - PROVIDE PERMANENT I         Phases: 3         Wires: 4         Phase in KVA         A       B         C         0.5       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /1.4       1.4/1.4         /1.4       1.4/1.4         /1.4       1.4/1.4         /1.7       1.7/1.7         /1.7       0.5/1.4         /1.7       0.5/1.4         /1.7       1.7/1.7         /1.7       0.5/1.4         /1.7       0.5/1.4         /1.7       0.5/1.4         /1.7       0.5/1.4         /1.7       0.5/1.4         /1.7</td><td>NEW PA         NEW PA         ALIC. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Breaker         Wire       Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       FCU-H1         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-5 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-4 (5 kW)         3       20       #12       EUH-4 (5 kW)         1        -       SPACE         1      </td><td>ANEL CKT Note 2 1 4 1 CKT Note 2 1 4 1 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 3 3 3 3 3 3 3 3</td><td>SPACE SPACE Circuit Description SPARE DUGOUT 3RD BASE SPARE DUGOUT 3RD BASE SPARE DUGOUT 3RD BASE SPARE SPAR</td><td>        1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0            1         0.4 kVA            0.4 kVA            0.4 kVA      </td><td>0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0</td><td>1         SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4       Demand       KVA       Total         KVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       OCK-ON DEVICE         OCK-ON DEVICE       AI.C. Ra       Enclo         M       Z0       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20</td><td>ExiSTING</td><td>30 - 32 34 36 38 40 42 - - - - - - - - - - - - -</td></t<>	Wire       Breater $I$ (E)       20       1       0.5 mmmmmm         (E)       20       1       0.5 mmmmm         (E)       20       1       0.2 mmmmm         (E)       30       3       0.2 mmmmm         #12       20       3       1.4 mmmmm         #12       20       3       1.4 mmmm         #12       20       3       1.4 mmmm         #12       20       3       1.4 mmmm         #12       20       3       1.4 mmm         #12       20       3       1.4 mmmmm         #12       20       3       1.4 mmmmm         #12       20       3       1.4 mmmmm         #12       20       1       4.0 mmmmm         #12       20       1       4.0 mmmm         #12       20       3       0.8 mmmm           1       0.0 mmm           1       0.0 mmm	G - PROVIDE GFCI CIRCUIT E         LF - PROVIDE PERMANENT I         LO - PROVIDE PERMANENT I         Phases: 3         Wires: 4         Phase in KVA         A       B         C         0.5       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /0.2       0.2/0.2         /1.4       1.4/1.4         /1.4       1.4/1.4         /1.4       1.4/1.4         /1.7       1.7/1.7         /1.7       0.5/1.4         /1.7       0.5/1.4         /1.7       1.7/1.7         /1.7       0.5/1.4         /1.7       0.5/1.4         /1.7       0.5/1.4         /1.7       0.5/1.4         /1.7       0.5/1.4         /1.7	NEW PA         NEW PA         ALIC. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Breaker         Wire       Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       FCU-H1         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-5 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-4 (5 kW)         3       20       #12       EUH-4 (5 kW)         1        -       SPACE         1	ANEL CKT Note 2 1 4 1 CKT Note 2 1 4 1 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 30 32 34 3 3 3 3 3 3 3 3	SPACE Circuit Description SPARE DUGOUT 3RD BASE SPARE DUGOUT 3RD BASE SPARE DUGOUT 3RD BASE SPARE SPAR	1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0            1         0.4 kVA            0.4 kVA            0.4 kVA	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0	1         SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4       Demand       KVA       Total         KVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       OCK-ON DEVICE         OCK-ON DEVICE       AI.C. Ra       Enclo         M       Z0       (E)       BLEACHERS         1       20	ExiSTING	30 - 32 34 36 38 40 42 - - - - - - - - - - - - -
Panch Panel: CPH         Location: ELECTRICAL F         Supply From: CPDA         Mounting: Surface         Circuit Description         ELAY 1         ELAY 1         ELAY 4         ARKING LOT         WP-3 (3 HP)         LECTRIC HEATER         WP-6 (3 HP)         JH-1 (5 kW)         JH-3 (5 kW)         CU-H2 (3 HP)         CU-H3 (3 HP)         E-H-16 (3 HP)         PACE         <	Wire       Breaker $I$ (E)       20       1 $0.5$ (E)       20       1 $0.5$ (E)       30       3 $0.2$ (E)       30       3 $0.2$ #12       20       1 $1.4$ #12       20       1 $1.4$ #12       20       3 $1.4$ #12       20       1 $1.4$ #12       20       1 $1.4$ #12       20       3 $1.4$ #12       20       3 $1.4$ #12       20       3 $1.7$ #12       20       3 $1.7$ #12       20       3 $1.7$ #12       20       3 $1.7$ #12       20       1 $4.0$ #12       20       1 $4.0$ #12       20       1 $4.0$ #12       20       1 $4.0$ #12       20       1 $4.0$ $       1       0.0 $	G - PROVIDE GFCI CIRCUIT IS         LF - PROVIDE PERMANENT IS         LO - PROVIDE PERMANENT IS         LO - PROVIDE PERMANENT IS         Phases: 3         Wires: 4         Phase in KVA         A       B         C         0.5       0.2 / 0.2         /0.2       0.2 / 0.2         /0.2       0.2 / 0.2         /0.2       0.2 / 0.2         /0.2       0.2 / 0.2         /0.2       0.2 / 0.2         /0.2       0.2 / 0.2         /0.2       0.2 / 0.2         /0.2       0.2 / 0.2         /0.2       0.2 / 0.2         /0.1       0.5 / 1.4         /1.4 / 1.4       1.4 / 1.4         /1.4       1.4 / 1.4         /1.4       1.4 / 1.4         /1.7       1.7 / 1.7         /1.7       1.7 / 1.7         /1.7       0.8 / 0.0         /0.0       0.0 / 0.0         /0.0       0.0 / 0.0         /0.0       0.0 / 0.0         /0.0       0.0 / 0.0         /1.7       0.0 / 0.0         /1.7       0.0 / 0.0         /1.7       0.0 / 0.0         /1.0	NEW PA         NEW PA         ALC. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO         Breaker Wire Circuit Description         1       20       (E)       RELAY 2         1       20       (E)       RELAY 2         1       20       (E)       RELAY 2         3       30       (E)       FCU-H1         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-5 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-4 (5 kW)         3       20       #12       EUH-4 (5 kW)         3       50       1L       TCPL         1        -       SPACE         1        SPACE       -         1        SPACE       -         1        SPACE       -         1        SPACE       -	23          25          27          29          31          33          35          37          39          41         Load Class         Miscellanec         Receptacle             10          12          14          16          10          12          14          16          22          24          20          22          24          26          28          30          32          34          30          32          34          35          30          24	SPACE	1       0.0 / 0.0           1       0.0 / 0.3           1       0.0 / 0.3           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           0.5 / 0.2       0.5 / 0.2            0.0 / 0.0          20       1           20       1       0.0 / 0.0          20       1       0.0 / 0.0          20       1       0.0 / 0.0          20       1       0.0 / 0.0          1 <td< td=""><td>0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         <td< td=""><td>1         SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4        Total         KVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       OCK-OFF DEVICE         OCK-OFF DEVICE       AI.C. Ra         Breaker       Wire       CO         1       20       (E)       IRRIGATION CO         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       RECEPTACLES         1       20       (E)       DUGOUT 1ST B         1       20       (E)       DUGOUT 1ST B</td><td>I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING FT LIGHTING Receptacle Receptacle Receptacle ASE I Conn. Load: 8.9 kVA</td><td>30 - 32 34 36 38 40 42 - - - - - - - - - - - - -</td></td<></td></td<>	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0 <td< td=""><td>1         SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4        Total         KVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       OCK-OFF DEVICE         OCK-OFF DEVICE       AI.C. Ra         Breaker       Wire       CO         1       20       (E)       IRRIGATION CO         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       RECEPTACLES         1       20       (E)       DUGOUT 1ST B         1       20       (E)       DUGOUT 1ST B</td><td>I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING FT LIGHTING Receptacle Receptacle Receptacle ASE I Conn. Load: 8.9 kVA</td><td>30 - 32 34 36 38 40 42 - - - - - - - - - - - - -</td></td<>	1         SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4        Total         KVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       OCK-OFF DEVICE         OCK-OFF DEVICE       AI.C. Ra         Breaker       Wire       CO         1       20       (E)       IRRIGATION CO         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       RECEPTACLES         1       20       (E)       DUGOUT 1ST B	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING FT LIGHTING Receptacle Receptacle Receptacle ASE I Conn. Load: 8.9 kVA	30 - 32 34 36 38 40 42 - - - - - - - - - - - - -
<b>Pranch Panel: CPH</b> Location: ELECTRICAL F         Supply From: CPDA         Mounting: Surface         ELAY 1         ELAY 1         ELAY 4         ARKING LOT         WP-3 (3 HP)         LECTRIC HEATER         WP-6 (3 HP)         UH-1 (5 kW)         UH-3 (5 kW)         UH-5 (5 kW)         CU-H2 (3 HP)         CU-H3 (3 HP)         F-H-16 (3 HP)         PACE         PA	Wire       Breaker $I$ (E)       20       1 $0.5$ (E)       20       1 $0.5$ (E)       20       1 $0.5$ (E)       30       3 $0.2$ #12       20       3 $1.4$ #12       20       3 $1.4$ #12       20       3 $1.4$ #12       20       3 $1.4$ #12       20       3 $1.7$ #12       20       3 $1.7$ #12       20       3 $1.7$ #12       20       3 $1.7$ #12       20       3 $1.7$ #12       20       1 $4.0$ #12       20       1 $4.0$ #12       20       1 $4.0$ #12       20       1 $4.0$ #12       20       1 $4.0$ #12       20       1 $0.0$ 1 $0.0$ $$ 1 $0.0$	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in K/A A B C / 0.5 0.5 / 0.5 0.5 / 0.5 0.5 / 0.5 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 0.3 / 1.4 1.7 / 1.7 /	ICOCK-OFF DEVICE         NEW PA         ALC. Rating: 18,000         Breaker Wire Circuit Description         1       20       [2]       RELAY 2         1       20       [2]       RELAY 3	23          25          29          31          33          33          39          41         Load Class         Miscellanee         Receptacle          -         4       1         6       -         10       -         12       -         44       1         16       -         18       -         20       -         22       -         24       -         26       -         38       -         30       -         32       -         34       -         36       -         38       -         40       -         42       -         24       -         25       -         36       -         38       -         40       -         42       -         44       -	SPACE	1       0.0 / 0.0           1       0.0 / 0.3           1       0.0 / 0.3           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           0.5 / 0.2       0.5 / 0.2            0.0 / 0.0          20       1           20       1       0.0 / 0.0          20       1       0.0 / 0.0          20       1       0.0 / 0.0          20       1       0.0 / 0.0          1 <td< td=""><td>0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.1 / 0.1         00.00%       0.1 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.1 / 0.4         0.5 / 0.4       0.1 / 0.4         0.5 / 0.4       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0</td><td>1         SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4        Total         KVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       AI.C. Ra         OCK-ON DEVICE       AI.C. Ra       Enclo         M       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       BUGOUT 1ST B         1       20       (E)       DUGOUT 1ST B         1       20       SPA</td><td>I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING EReceptacle FT LIGHTING Receptacle ERECEPTACLE ASE ENSATION PUMP</td><td>30 - 32 34 36 38 40 42 - - - - - - - - - - - - -</td></td<>	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.1 / 0.1         00.00%       0.1 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.1 / 0.4         0.5 / 0.4       0.1 / 0.4         0.5 / 0.4       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0	1         SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4        Total         KVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       AI.C. Ra         OCK-ON DEVICE       AI.C. Ra       Enclo         M       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       BUGOUT 1ST B         1       20       (E)       DUGOUT 1ST B         1       20       SPA	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING EReceptacle FT LIGHTING Receptacle ERECEPTACLE ASE ENSATION PUMP	30 - 32 34 36 38 40 42 - - - - - - - - - - - - -
Pranch Panel: CPH         Location: ELECTRICAL F         Supply From: CPDA         Mounting: Surface         ELAY 1         ELAY 1         ELAY 4         ARKING LOT         WP-3 (3 HP)         LECTRIC HEATER         WP-6 (3 HP)         UH-1 (5 kW)         UH-3 (5 kW)         UH-5 (5 kW)         CU-H2 (3 HP)         CU-H3 (3 HP)         F-H-16 (3 HP)         PACE	Wire       Breaker       A         (E)       20       1       0.5 ////////////////////////////////////	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in K/A A B C / 0.5 0.5 / 0.5 0.5 / 0.5 0.5 / 0.5 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 0.3 / 1.4 1.7 / 1.7 /	INEW PA         INEW PA         ALLC. Rating: 18,000         Enclosure: Type 1         Mains: 200A MLO         Breaker       Wire       Circuit Description         1       20       (E)       RELAY 2	23          25          29          31          33          33          39          41         Load Class         Miscellanec         Receptacle          -          41          -          41          -          -          -          -          -          -          -          -          -          -          -          -          -          -          -          -          -          -          -          -          -          -          - <td>SPACE SPACE /td> <td>        1       0.0 / 0.0           1       0.0 / 0.3           1       0.0 / 0.3           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           0.5 / 0.2       0.5 / 0.2            0.0 / 0.0          20       1           20       1       0.0 / 0.0          20       1       0.0 / 0.0          20       1       0.0 / 0.0          20       1       0.0 / 0.0          1       <td< td=""><td>0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         <td< td=""><td>1         SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4        Total         KVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       AI.C. Ra         OCK-ON DEVICE       AI.C. Ra       Enclo         M       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       BUGOUT 1ST B         1       20       (E)       DUGOUT 1ST B         1       20       SPA</td><td>I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A and Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING FT LIGHTING Receptacle Receptacle Receptacle ASE I Conn. Load: 8.9 kVA Est. Demand: 9.1 kVA</td><td>30 32 34 36 38 40  42          -</td></td<></td></td<></td>	SPACE	1       0.0 / 0.0           1       0.0 / 0.3           1       0.0 / 0.3           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           0.5 / 0.2       0.5 / 0.2            0.0 / 0.0          20       1           20       1       0.0 / 0.0          20       1       0.0 / 0.0          20       1       0.0 / 0.0          20       1       0.0 / 0.0          1 <td< td=""><td>0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         <td< td=""><td>1         SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4        Total         KVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       AI.C. Ra         OCK-ON DEVICE       AI.C. Ra       Enclo         M       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       BUGOUT 1ST B         1       20       (E)       DUGOUT 1ST B         1       20       SPA</td><td>I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A and Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING FT LIGHTING Receptacle Receptacle Receptacle ASE I Conn. Load: 8.9 kVA Est. Demand: 9.1 kVA</td><td>30 32 34 36 38 40  42          -</td></td<></td></td<>	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0 <td< td=""><td>1         SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4        Total         KVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       AI.C. Ra         OCK-ON DEVICE       AI.C. Ra       Enclo         M       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       BUGOUT 1ST B         1       20       (E)       DUGOUT 1ST B         1       20       SPA</td><td>I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A and Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING FT LIGHTING Receptacle Receptacle Receptacle ASE I Conn. Load: 8.9 kVA Est. Demand: 9.1 kVA</td><td>30 32 34 36 38 40  42          -</td></td<>	1         SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4        Total         KVA       Total       Total         KVA       Total Est. Dem       Total Est. Dem         REAKER       OCK-OFF DEVICE       AI.C. Ra         OCK-ON DEVICE       AI.C. Ra       Enclo         M       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       BUGOUT 1ST B         1       20       (E)       DUGOUT 1ST B         1       20       SPA	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A and Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING FT LIGHTING Receptacle Receptacle Receptacle ASE I Conn. Load: 8.9 kVA Est. Demand: 9.1 kVA	30 32 34 36 38 40  42          -
Franch Panel: CPH Location: ELECTRICAL F Supply From: CPDA Mounting: Surface	Wire       Breaker $I$ (E)       20       1 $0.5$ (E)       20       1 $0.5$ (E)       20       1 $0.5$ (E)       30       3 $0.2$ #12       20       3 $1.4$ #12       20       3 $1.4$ #12       20       3 $1.4$ #12       20       3 $1.4$ #12       20       3 $1.7$ #12       20       3 $1.7$ #12       20       3 $1.7$ #12       20       3 $1.7$ #12       20       3 $1.7$ #12       20       1 $4.0$ #12       20       1 $4.0$ #12       20       1 $4.0$ #12       20       1 $4.0$ #12       20       1 $4.0$ #12       20       1 $0.0$ 1 $0.0$ $$ 1 $0.0$	G - PROVIDE GFCI CIRCUIT E LF - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I LO - PROVIDE PERMANENT I Phases: 3 Wires: 4 Phase in K/A A B C / 0.5 0.5 / 0.5 0.5 / 0.5 0.5 / 0.5 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 0.2 / 0.2 / 0.2 0.2 / 0.2 0.3 / 1.4 1.7 / 1.7 /	NEW PA         NEW PA         ALC. Rating: 18,000 Enclosure: Type 1 Mains: 2004 MLO         1       20       (E)       RELAY 2         1       20       (E)       RELAY 3         3       30       (E)       RELAY 3         3       20       #12       HWP-4 (3 HP)         3       20       #12       HWP-7 (3 HP)         3       20       #12       EUH-2 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-4 (5 kW)         1       30       #10       FCU-H4 (3 HP)         3       20       #12       EUH-4 (5 kW)         3       50       1L       TCPL         1        SPACE          1        SPACE      <	-       23         -       25         -       29         -       31         -       35         -       37         -       39         -       41         Load Class         Miscellanec         Receptacle         2       1         4       1         6       8         10       12         14       16         18       10         20       22         26       28         30       32         34       50         32       34         36       5         37       5         20       22         24       26         28       30         32       34         36       -         37       -         26       -         28       -         30       -         32       -         33       -         36       -         50       -         72       -	SPACE	1       0.0 / 0.0          1       0.0 / 0.3          1       0.0 / 0.3          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0          1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0           1       0.0 / 0.0         1.0 kVA        1       0.0 / 0.0          20       2       0.5 / 0.2         (E)       20       1	0.0 / 0.0       0.0 / 0.0         0.0 / 0.7       0.0 / 0.3         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.0 / 0.0       0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.4         0.5 / 0.4       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0         0.0 / 0.0       0.4 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0         0.0 / 0.0       0.0 / 0.0 <td< td=""><td>1        SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4       VA       Total         KVA       Total       Total         KVA       Total       Total         Total       Total       SPDL         REAKER       Total Est. Dem       Total         OCK-OFF       DEVICE       Al.C. Ra         Enclo       M       M         M       20       E)       IRRIGATION CC         1       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       DUGOUT       Total         1       20       (E)       DUGOUT       TST         1       20       (E)       DUGOUT       TST         1       20       (E)       DUGOUT       TST</td><td>I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING EReceptacle FT LIGHTING Receptacle ERECEPTACLE ASE ENSATION PUMP</td><td>30 32 34 36 38 40  42          -</td></td<>	1        SPACE         1        SPACE         3       30       1L       LTC         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         3       30       #10       SPDL         4       VA       Total         KVA       Total       Total         KVA       Total       Total         Total       Total       SPDL         REAKER       Total Est. Dem       Total         OCK-OFF       DEVICE       Al.C. Ra         Enclo       M       M         M       20       E)       IRRIGATION CC         1       20       (E)       IRRIGATION CC         1       20       (E)       BLEACHERS         1       20       (E)       BLEACHERS         1       20       (E)       DUGOUT       Total         1       20       (E)       DUGOUT       TST         1       20       (E)       DUGOUT       TST         1       20       (E)       DUGOUT       TST	I Conn. Load: 1.4 kVA Est. Demand: 1.4 kVA onn. Current: 2 A hand Current: 2 A EXISTING ating: 10,000 sure: Type 1 lains: 50A MCB Circuit Description DNTROL FT LIGHTING EReceptacle FT LIGHTING Receptacle ERECEPTACLE ASE ENSATION PUMP	30 32 34 36 38 40  42          -



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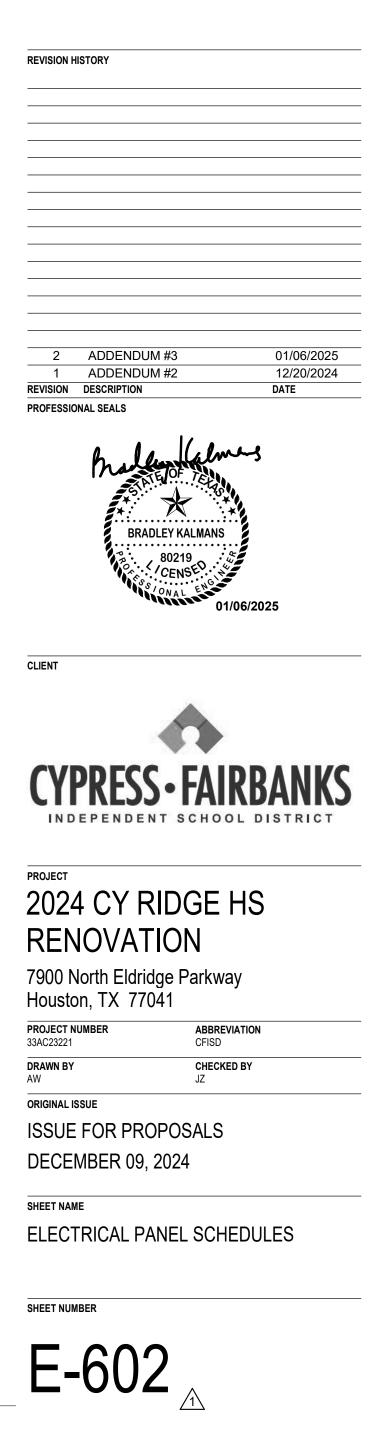
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# $\sim$ Bra Note CKT 23 SF WITH NO BREAKERS ARE TO BE LEFT BLANK. REFER TO 29 |SF 33 SF 35 SP. 37 SP 39 SP. - 41 SP/ Load Classifica HVAC Lighting Miscellaneous Receptacles

Notes: 1 - CONNECT P

Note CKT 
 33
 SI 7

 37
 SPA

 39
 SPA

 41
 SPA
 Load Classifica HVAC Lighting Miscellaneous eceptacles Notes: 1 - CONNECT PRI 2 - VERIFY LOAD

1       3       E0         1       5       E0         1       7       2N         1       9       O0         2       11       E0         2       13       E0         2       13       E0         2       15       E0         2       17       E0         2       19       E0         3       21       E0         3       25       E0         3       27       E0         3       29       E0         3       31       E0          33       SF          35       SF			B
1       3       E0         1       5       E0         1       7       2N         1       9       OI         2       11       E0         2       13       E2         2       15       E0         2       15       E0         2       17       E0         2       17       E0         2       19       E0         3       21       E0         3       23       E0         3       23       E0         3       27       E0         3       29       E0         3       29       E0         3       29       E0         3       31       E0          33       SF          37       SF          39       SF         1       41       Rf         Notes:         1       CONNECT         2       VERIFY LO	Note	скт	
1       3       E0         1       5       E0         1       7       2N         1       9       OI         2       11       E0         2       13       E2         2       15       E0         2       15       E0         2       17       E0         2       17       E0         2       19       E0         3       21       E0         3       23       E0         3       23       E0         3       27       E0         3       29       E0         3       29       E0         3       29       E0         3       31       E0          33       SF          37       SF          39       SF         1       41       Rf         Notes:         1       CONNECT         2       VERIFY LO			E۷
1       5       E0         1       7       2N         1       9       OI         2       11       E0         2       13       E2         2       15       E0         2       15       E0         2       17       E0         2       17       E0         2       19       E0         3       21       E0         3       23       E0         3       23       E0         3       27       E0         3       29       E0         3       21       E0         3       29       E0         3       31       E0          33       SF          37       SF          39       SF         1       41       RI         HOUSE         HOUSE         HVAC       Eighting         Miscellaneous       Receptacles         1       - CONNECT       2         2 - VERIFY LO       E0	1		
1       7       2N         1       9       OI         2       11       E0         2       13       E0         2       15       E0         2       15       E0         2       17       E0         2       19       E0         3       21       E0         3       23       E0         3       23       E0         3       25       E0         3       27       E0         3       29       E0         3       29       E0         3       29       E0         3       31       E0          33       SF          37       SF          39       SF         1       41       RF         HVAC         Lighting       Miscellaneous         Receptacles       Image: State St			
1       9       OI         2       11       EQ         2       15       EQ         2       15       EQ         2       17       EQ         2       17       EQ         2       19       EQ         3       21       EQ         3       23       EQ         3       25       EQ         3       27       ED         3       29       ED         3       29       ED         3       31       EQ          35       SF          37       SF          39       SF         1       41       RE         HVAC         Lighting       Miscellaneous         Receptacles       SE         1       -CONNECT         2       -VERIFY LO			
2       11       EQ         2       13       EX         2       15       EQ         2       17       EQ         2       17       EQ         3       21       EQ         3       23       EQ         3       23       EQ         3       25       EQ         3       27       EX         3       29       EX         3       29       EX         3       29       EX         3       31       EQ          33       SF          37       SF          39       SF         1       41       Rf         HVAC         Lighting       Miscellaneous         Receptacles       SF         1       -       CONNECT         2       -       VERIFY LO	1		
2       13       EX         2       15       EQ         2       17       EQ         3       21       EQ         3       21       EQ         3       23       EQ         3       25       EQ         3       27       EX         3       27       EX         3       29       EX         3       31       EQ          33       SF          37       SF          39       SF         1       41       RI         HVAC         Lighting       Miscellaneous         Receptacles       SE         1       -CONNECT         2       -VERIFY LO			
2       15       EQ         2       17       EQ         3       21       EQ         3       23       EQ         3       23       EQ         3       25       EQ         3       27       ED         3       29       ED         3       29       ED         3       31       EQ          33       SF          37       SF          39       SF         1       41       RI         HVAC         Lighting       Miscellaneous         Receptacles       SE         1       -CONNECT         2       -VERIFY LO			
2         17         EQ           2         19         EQ           3         21         EQ           3         23         EQ           3         25         EQ           3         25         EQ           3         27         ED           3         29         ED           3         29         ED           3         31         EQ            33         SF            35         SF            37         SF            39         SF           1         41         RF           HVAC         Lighting         Miscellaneous           Receptacles         SF         SF           1         -CONNECT         2           2         -VERIFY LO         SF	2		
2         19         EQ           3         21         EQ           3         23         EQ           3         25         EQ           3         27         ED           3         29         ED           3         29         ED           3         29         ED           3         29         ED           3         31         EQ            33         SF            37         SF            39         SF           1         41         RF           HVAC         Elighting         Miscellaneous           Receptacles         I         I           1         -CONNECT         Z           2         VERIFY LO         I	2		E
2         19         E0           3         21         E0           3         23         E0           3         25         E0           3         27         E0           3         27         E0           3         29         E0           3         31         E0            33         SF            35         SF            39         SF           1         41         RF           Load Classific           HVAC         Lighting           Miscellaneous         Receptacles           Notes:         1         - CONNECT           2 - VERIFY LO         -	2		EC
3         23         E0           3         25         E0           3         27         E0           3         29         E0           3         29         E0           3         31         E0            33         SF            35         SF            37         SF            39         SF           1         41         RF           Load Classific           HVAC         Lighting           Miscellaneous         Receptacles           Notes:         1         -           1 - CONNECT         2         -	2		EC
3         23         E0           3         25         E0           3         27         E2           3         29         E2           3         29         E2           3         31         E0            33         SF            35         SF            37         SF            39         SF           1         41         RF           Load Classific           HVAC         Lighting           Miscellaneous         Receptacles           Notes:         1         CONNECT           1         CONNECT         2	3	21	EC
3         27         EX           3         29         EX           3         31         EC            33         SF            35         SF            37         SF            39         SF           1         41         RF           Load Classific           HVAC         Lighting           Miscellaneous         Receptacles           Notes:         1         CONNECT           1         -         CONNECT           2         VERIFY LO         Connect	3		E
3         27         EX           3         29         EX           3         31         EC            33         SF            35         SF            37         SF            39         SF           1         41         RF           Load Classific           HVAC         Lighting           Miscellaneous         Receptacles           Notes:         1         CONNECT           1         CONNECT         2	3	25	F
3         29         EX           3         31         EC            33         SF            37         SF            39         SF           1         41         RF           Load Classific           HVAC         Lighting           Miscellaneous         Receptacles           Notes:         1         CONNECT           1         2 - VERIFY LO         Connect	3	27	
3         31         E0            33         SF            35         SF            37         SF            39         SF           1         41         RF           HVAC         Lighting         Miscellaneous           Receptacles         Notes:         1           1         -         CONNECT           2         VERIFY LO		21	
33 SF 35 SF 37 SF 1 41 RF Load Classific HVAC Lighting Miscellaneous Receptacles Notes: 1 - CONNECT 2 - VERIFY LO			
35 SF 37 SF 39 SF 1 41 RF Load Classific HVAC Lighting Miscellaneous Receptacles Notes: 1 - CONNECT 2 - VERIFY LO	3		
37 SF 39 SF 1 41 RF Load Classific HVAC Lighting Miscellaneous Receptacles Notes: 1 - CONNECT 2 - VERIFY LO			
39 SF 1 41 RI Load Classific HVAC Lighting Miscellaneous Receptacles Notes: 1 - CONNECT 2 - VERIFY LO		35	
39 SF 1 41 RI Load Classific HVAC Lighting Miscellaneous Receptacles Notes: 1 - CONNECT 2 - VERIFY LO		37	SF
1 41 RI			SF
Load Classific HVAC Lighting Miscellaneous Receptacles Notes: 1 - CONNECT 2 - VERIFY LO	1		
1 - CONNECT 2 - VERIFY LO	HVAC Lighti	C ng ellaneou	JS
	Rece	placies	

## PANELBOARD CIRCUIT DIRECTORY:

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CONTRACTOR SHALL RECORD AND/OR PRESERVE THE EXISTING CIRCUIT DIRECTORY, IF ANY, FOR THE SOLE PURPOSE UPON COMPLETION OF NEW WORK OF PRODUCING A NEW DIRECTORY.

CONTRACTOR SHALL PROVIDE AS PART OF THE CONSTRUCTION DOCUMENTS A NEW, NEATLY TYPED DIRECTORY. CONTRACTOR SHALL TRACE EXISTING CIRCUITS AND SHALL LEGIBLY IDENTIFY AS TO IT'S CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE, LOADS SERVED, LOCATION AND/OR THE PANELBOARD SCHEDULE ON THE DRAWINGS. THE WORD "EXISTING" SHALL NOT BE USED ON PANELBOARD DIRECTORIES. SPARE BREAKERS ARE TO BE LISTED AS "SPARE" AND SWITCHED TO THE OFF POSITION. SPACES

NEC-2023: 408.4(A) FOR DETAILS. CONTRACTOR SHALL PERMANENTLY LABEL AS PART OF THE CONSTRUCTION DOCUMENTS ALL SWITCHBOARDS, SWITCHGEAR AND PANELBOARDS TO INDICATE EACH POWER SOURCE. REFER TO NEC-2023: 408.4(A) FOR DETAILS.

Franch Panel: 2DHE									NEW PA	ANEL	
Location: WORKROOM-2 Supply From: ELSDP Mounting: Surface	2 2522-2		Pl	Volts: 277/48 nases: 3 Wires: 4 Phase in	-				A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 125A MLO		
				i nase in							
Circuit Description	Wire	Breaker	Α	В	с	Bre	eaker	Wire	Circuit Description	скт	Note
XIT LIGHTING	(E)	20 1	1.5 / 1.5			1	20	(E)	CORRIDOR EGRESS LIGHTING	2	1
GRESS LIGHTING	(E)	20 1		1.5 / 1.5		1	20	(E)	EXIT LIGHTING	4	1
ORRIDOR LIGHTING	(E)	20 1			1.5 / 1.5	1	20	(E)	EGRESS LIGHTING	6	1
GRESS LIGHTING	(E)	20 1	1.5 / 2.0			1	20	(E)	EGRESS LIGHTING	8	1
GRESS LIGHTING	(E)	20 1		2.0 / 0.0		1			SPACE	10	
PARE		20 1			0.0 / 0.0	1			SPACE	12	
PARE		20 1	0.0 / 0.0			1			SPACE	14	
PARE		20 1		0.0 / 0.0		1			SPACE	16	
PARE		20 1			0.0 / 0.0	1			SPACE	18	
PARE		20 1	0.0 / 0.0			1			SPACE	20	
PARE		20 1		0.0 / 0.0		1			SPACE	22	
PARE		20 1			0.0 / 0.0	1			SPACE	24	
PARE		20 1	0.0 / 0.0			1			SPACE	26	
PARE		20 1		0.0 / 0.0		1			SPACE	28	
PACE		1			0.0 / 0.0	1			SPACE	30	
PACE		1	0.0 / 3.9							32	
PACE		1		0.0 / 2.9		3	50	1L	2DTE	34	
PACE		1			0.0/4.1	1				36	
PACE		1	0.0 / 0.0							38	
PACE		1		0.0 / 0.0		3	30	#10	SPDL	40	
PACE		1			0.0 / 0.0	1				42	
	Total	Load:	10.4 kVA	7.9 kVA	7.1 kVA					·	•
	Total A	Amps:	38 A	29 A	26 A	_					
cation		ted Load		and Factor	Estimat	od Da	mand		Panel Totals		
		kVA		00.00%		) kVA		•			
	14.	5 kVA		25.00%		1 kV			Total Conn. Load: 25.5 kVA		
	6.2	kVA	10	00.00%	6.2	2 kVA	۱		Total Est. Demand: 29.1 kVA		
	0.7	′ kVA	10	00.00%	0.7	7 kVA	۹.		Total Conn. Current: 31 A		
									Total Est. Demand Current: 35 A		
			Ab	brevations:							
PRESERVED LOAD TO NEW PANEL				PROVIDE GF		RRF					
				- PROVIDE P							
			LO	- PROVIDE P	ERMANENT	LOC	K-ON I	DEVIO	CE		

KT       Circuit Description         1       EGRESS LIGHTS         3       EGRESS LIGHTS         5       EXIT LIGHTS         7       SPARE         9       EXIT LIGHTS	(E) (E) (E)	Breal	ker	Α	Phase in	kVA		<b>Volts:</b> 277/480 Wye <b>Phases:</b> 3 <b>Wires:</b> 4								
1 EGRESS LIGHTS 3 EGRESS LIGHTS 5 EXIT LIGHTS 7 SPARE	(E) (E) (E)	20	ker	Δ						<b>Mains:</b> 400A						
1 EGRESS LIGHTS 3 EGRESS LIGHTS 5 EXIT LIGHTS 7 SPARE	(E) (E) (E)	20	ker	Δ												
1 EGRESS LIGHTS 3 EGRESS LIGHTS 5 EXIT LIGHTS 7 SPARE	(E) (E) (E)	20	ker	Δ												
B EGRESS LIGHTS EXIT LIGHTS 7 SPARE	(E) (E)			~	В	С	Bre	eaker	Wire	Circuit Descrip	otion	СКТ	Note			
5 EXIT LIGHTS 7 SPARE	(E)	~ ~	1	1.5 / 1.5			1	20	· /	EGRESS LIGHTS		2	1			
7 SPARE		20	1		1.5 / 1.5		1	20	· /	MAIN GYM EMERGENCY LIGH	ITS	4	1			
		20	1			1.5 / 1.5	1	20	· /	EXIT LIGHTS		6	1			
		20	1	0.0 / 1.5			1	20		EGRESS LIGHTS		8	1			
		20	1		0.2 / 0.0		1	20		SPARE		10				
1 CORRIDOR LIGHTS		20	1			0.5 / 0.0	1	20		SPARE		12				
3 EGRESS LIGHTS		20	1	0.6 / 0.0			1	20		SPARE		14				
5 MULTIPURPOSE LIGHTS		20	1		2.5 / 0.0		1	20		SPARE		16				
7 OUTDOOR EGRESS LIGHTS	#8	20	1			0.3 / 0.0	1	20		SPARE		18				
9 SPARE		20	1	0.0 / 0.0			1			SPACE		20				
1 SPARE		20	1		0.0 / 0.0		1			SPACE		22				
3 SPARE		20	1			0.0 / 0.0	1			SPACE		24				
5 SPARE		20	1	0.0 / 0.0			1			SPACE		26				
7 SPARE		20	1		0.0 / 0.0		1			SPACE		28				
9 SPARE		20	1			0.0 / 0.0	1			SPACE		30				
1 SPARE		20	1	0.0 / 11.0						<b></b>		32	_			
3 SPARE		20	1		0.0 / 12.8		3	50	1L	2JTE		34	_			
5 SPACE			1			0.0 / 6.2						36				
7 SPACE			1	0.0 / 0.0								38	_			
9 SPACE			1		0.0 / 0.0		3	30	#10	SPDL		40	_			
1 SPACE			1			0.0/0.0						42				
	Total L	oad:		16.1 kVA	18.6 kVA	10.0 kVA										
	Total Ar	mps:		62 A	70 A	36 A										
assification	Connect	ed Lo	oad	Dema	and Factor	Estimate	ed De	emand		Panel	Totals					
	6.0	kVA		1(	00.00%	6.0	) kVA	<u>م</u>								
	14.6				25.00%		3 kV			Total Conn. Load:	11 6 k\/A					
neous	21.5				00.00%		5 kV			Total Est. Demand:						
cles	2.5	kVA		10	00.00%	2.5	5 kVA	۹		Total Conn. Current:						
										Total Est. Demand Current:	58 A					
				Ab	brevations:											
NECT PRESERVED LOAD TO NEW PANEL FY LOAD SERVED, INTERCEPT AND EXTEND CIR	CUIT FROM	/I PAI	NEL	'EHT' G - LF LO	PROVIDE GF - PROVIDE PI - PROVIDE P - ONELINE	ERMANENT I	LOCI	K-OFF								

Location: MECHANICA Supply From: ELSDP Mounting: Surface	P	Volts: 277/480 Wye Phases: 3 Wires: 4 Phase in kVA					A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 200A MLO						
		1			Phase in	kVA	1		1	1			1
Circuit Description	Wire	Brea	ker	А	В	с	Br	eaker	Wire	Circuit Descr	iption	скт	Note
LIGHTING	(E)	20	1	2.3 / 0.0			1	20		SPARE	•	2	
SS CORRIDOR LIGHTS	(E)	20	1		0.6 / 0.0		1	20		SPARE		4	
SS CORRIDOR LIGHTS	(E)	20	1			3.3/0.0	1	20		SPARE		6	
LOOR EGRESS LIGHTS	(E)	20	1	0.6 / 0.0			1	20		SPARE		8	
OOR EGRESS LIGHTS	(E)	20	1		3.3 / 0.0		1	20		SPARE		10	
SS LIGHTING	#8	20	1			2.3/0.0	1	20		SPARE		12	
LIGHTS	#8	20	1	0.6 / 0.0			1			SPACE		14	
SS LIGHTING	#8	20	1		3.3 / 0.0		1			SPACE		16	
SS LIGHTING	#8	20	1			1.2/0.0	1			SPACE		18	
ESS LIGHTING	#8	20	1	0.4 / 0.0			1			SPACE		20	
ESS LIGHTING	#10	20	1		1.5 / 0.0		1			SPACE		22	
SS LIGHTING	#10	20	1			1.5 / 0.0	1			SPACE		24	
SS LIGHTING	#10	20	1	1.5 / 0.0			1			SPACE		26	
LIGHTS	#10	20	1		1.5 / 0.0		1			SPACE		28	
LIGHTS	#10	20	1			1.5 / 0.0	1			SPACE		30	
ESS LIGHTS	#10	20	1	1.5 / 16.1								32	
E		20	1		0.0 / 15.8		3	80	1L	ETS		34	1
RE		20	1			0.0 / 10.6	1					36	1
E		20	1	0.0 / 0.0								38	
RE		20	1		0.0 / 0.0		3	30	#10	SPDL		40	1
Y PANEL ERS/RS	(E)	20	1			3.3/0.0	1					42	1
		Load:	-	23.0 kVA	25.9 kVA	23.7 kVA							
	Total		L	83 A	94 A	86 A							
										Dama	Tatala		
on	Conne		oad		and Factor	Estimate			ג	Pane	Totals		
		) kVA			00.00%	2.0	) kV/	A					
	30.	0 kVA		1	25.00%	37.	6 kV	'A		Total Conn. Load	72.6 kVA		
	38.	4 kVA		1	00.00%	38.	4 kV	Ά		Total Est. Demand	80.1 kVA		
		2 kVA		1	00.00%		2 kV			Total Conn. Current	- 87 Δ		
	2.2				00.0070	2.0				Total Est. Demand Current			
										iolai Est. Demana Current	90 A		
ESERVED LOAD TO NEW PANEL SERVED, INTERCEPT AND EXTEND SERVED, INTERCEPT AND EXTEND				'1CHE' G '2CHE' LF LC	Distributions: - PROVIDE GF - PROVIDE P - PROVIDE P - REFER TO (	ERMANENT ERMANENT	LOC	K-OFF					

				Salas O'Bri sobrien.com 281
·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	·····	Hous	ston 0 W. Sam Houston Pkwy North, Su
anch Panel: 2DHE Location: WORKROOM-2 2522-2 Supply From: ELSDP Mounting: Surface	Volts: 277/480 Wye Phases: 3 Wires: 4 Phase in kVA	NEW PANEL A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 125A MLO		stration: F-4111 ect No: 2023-05942-00
	A B C Breaker Wire	CORRIDOR EGRESS LIGHTING 2 1		
ESS LIGHTING         (E)         20         1           E          20         1	1.5 / 1.5         1         20         (E)           .5 / 2.0         1         20         (E)           2.0 / 0.0         1             0.0 / 0.0         1             0 / 0.0         1	EXIT LIGHTING41EGRESS LIGHTING61EGRESS LIGHTING81SPACE10SPACE12SPACE14SPACE16SPACE18		
20         1         0            20         1             20         1	.0 / 0.0     1         0.0 / 0.0     1         0.0 / 0.0     1         0.0 / 0.0     1	SPACE         20            SPACE         22            SPACE         24            SPACE         26		
1 1 0 1 1	0.0 / 0.0 1 .0 / 3.9 0.0 / 2.9 3 50 1L 0.0 / 4.1	SPACE         30            2DTE         32         34           36         36         36		
	0.0 / 0.0     3     30     #10       0.0 / 0.0     0.0 / 0.0     3     30     #10       0.4 kVA     7.9 kVA     7.1 kVA     7.1 kVA       38 A     29 A     26 A	SPDL         38 40 42		
Connected Load           4.0 kVA           14.5 kVA           6.2 kVA	Demand Factor         Estimated Demand           100.00%         4.0 kVA           125.00%         18.1 kVA           100.00%         6.2 kVA	Panel Totals       Total Conn. Load:     25.5 kVA       Total Est. Demand:     29.1 kVA		
0.7 kVA	100.00% 0.7 kVA	Total Conn. Current:       31 A         Total Est. Demand Current:       35 A		
ERVED LOAD TO NEW PANEL	Abbrevations: G - PROVIDE GFCI CIRCUIT BREAKER LF - PROVIDE PERMANENT LOCK-OFF DEV LO - PROVIDE PERMANENT LOCK-ON DEVI			
ch Panel: 2JHE		NEW PANEL	Branch Panel: EHU	
Location: ELECT J210 Supply From: ELSDP Mounting: Surface	Volts: 277/480 Wye Phases: 3 Wires: 4 Phase in kVA	A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 400A	Location: MECH. ROOM C109       Volts: 277/480 Wye       A.I.C. Rating: 18,000         Supply From: ELSDP       Phases: 3       Enclosure: Type 1         Mounting: Surface       Wires: 4       Mains: 125A MLO         Phase in kVA       Phase in kVA	
Circuit DescriptionWireBreakerLIGHTS(E)201	A B C Breaker Wire	Circuit Description CKT Note EGRESS LIGHTS 2 1	Note     CKT     Circuit Description     Wire     Breaker     A     B     C     Breaker     Wire     Circuit Description       1     1     EXIT LIGHTS     (E)     20     1     0.2/0.0     1      SPACE	CKT Note
LIGHTS       (E)       20       1         HTS       (E)       20       1          20       1       0         HTS       #10       20       1         DR LIGHTS       #10       20       1	1.5 / 1.5         1         20         (E)           .0 / 1.5         1         20         (E)	MAIN GYM EMERGENCY LIGHTS41EXIT LIGHTS61EGRESS LIGHTS81SPARE10SPARE12	1       3       EMERGENCY LIGHTS       (E)       20       1       1.0/0.0       1         SPACE         1       5       EMERGENCY LIGHTS       (E)       20       1       0.8/0.0       1         SPACE         1       7       OUTDOOR EGRESS LIGHTS       (E)       20       1       0.2/0.0       1         SPACE         1       9       RELAY PANEL ERU/RU       (E)       20       1       0.0/0.0       1         SPACE          11       SPARE        20       1       0.0/0.0       1         SPACE	4        6        8        10        12
S LIGHTS       #10       20       1       0         JRPOSE LIGHTS       #10       20       1       1         DR EGRESS LIGHTS       #8       20       1          20       1       0          20       1       0	.6/0.0 1 20 2.5/0.0 1 20 0.3/0.0 1 20	SPARE         14            SPARE         16            SPARE         18            SPACE         20	13       SPARE        20       1       0.0 / 0.0       1         SPACE          15       SPARE        20       1       0.0 / 0.0       1         SPACE          17       SPARE        20       1        0.0 / 0.0       1         SPACE          19       SPARE        20       1       0.0 / 0.0       1         SPACE          21       SPARE        20       1       0.0 / 0.0       1         SPACE	14        16        18        20        22
20 1 20 1 0 20 1 20 1 20 1 20 1 20 1	0.0 / 0.0         1             .0 / 0.0         1             0.0 / 0.0         1             0.0 / 0.0         1	SPACE         24            SPACE         26            SPACE         28	23       SPARE        20       1        0.0/0.0       1        SPACE          25       SPARE        20       1       0.0/0.0       1        SPACE          27       SPARE        20       1       0.0/0.0       1        SPACE          29       SPARE        20       1       0.0/0.0       1        SPACE          31       SPARE        20       1       0.0/0.0       1        SPACE	24        26        28        30        32
20 1 1 1 0 1	0.0 / 12.8 3 50 1L 0.0 / 6.2	2JTE 34 36 38	33       SPARE        20       1       0.0 / 0.0       1         SPACE          35       SPARE        20       1       0.0 / 0.0       1         SPACE          37       SPARE        20       1       0.0 / 0.0       1         SPACE          39       SPARE        20       1       0.0 / 0.0       3       30       #10       SPDL	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	61 kVA         18.6 kVA         10.0 kVA           62 A         70 A         36 A           Demand Factor         Estimated Demand           100.00%         6.0 kVA	Panel Totals	41     SPARE      20     1     0.0 / 0.0     0.0 / 0.0        Total Load:     0.4 kVA     1.0 kVA     0.8 kVA        Total Amps:     1 A     4 A     3 A       Load Classification     Connected Load     Demand Factor     Estimated Demand     Panel Totals       Lighting     2.3 kVA     125.00%     2.8 kVA     0.8 kVA	
14.6 kVA 21.5 kVA 2.5 kVA	100.00%         0.0 kVA           125.00%         18.3 kVA           100.00%         21.5 kVA           100.00%         2.5 kVA	Total Conn. Load:44.6 kVATotal Est. Demand:48.3 kVATotal Conn. Current:54 ATotal Est. Demand Current:58 A	Lighting       Z.S.V/A       123.00 //       Z.S.V/A       Miscellaneous       Z.S.V/A       Miscellaneous       O.0 kVA       O.0 kVA       O.0 kVA       Total Conn. Load:       Z.S.V/A       Z.S.V/A       Z.S.V/A       Miscellaneous       Z.S.V/A       O.0 kVA       O.0 kVA       Total Conn. Load:       Z.S.V/A       Z.S.V/A       Z.S.V/A       Demand:       Z.S.V/A       Z.S.V/A       Z.S.V/A       Demand:       Z.S.V/A       Z.S.V/A       Z.S.V/A       Demand:       Z.S.V/A	
RVED LOAD TO NEW PANEL	Abbrevations: G - PROVIDE GFCI CIRCUIT BREAKER		Notes:     Abbrevations:       1 - CONNECT PRESERVED LOAD TO NEW PANEL     G - PROVIDE GFCI CIRCUIT BREAKER	
RVED, INTERCEPT AND EXTEND CIRCUIT FROM PANEL 'EH'	T' LF - PROVIDE PERMANENT LOCK-OFF DEV LO - PROVIDE PERMANENT LOCK-ON DEVI 1L - ONELINE		LF - PROVIDE PERMANENT LOCK-OFF DEVICE LO - PROVIDE PERMANENT LOCK-ON DEVICE	
ch Panel: EHS Location: MECHANICAL ROOM-2 2058-2 Supply From: ELSDP	<b>Volts:</b> 277/480 Wye <b>Phases:</b> 3	NEW PANEL A.I.C. Rating: 18,000 Enclosure: Type 1	Branch Panel: ELSHA       No         Location: CENTRAL PLANT 1967       Volts: 277/480 Wye       A.I.C. Rating: 18,000         Supply From: ELSDP       Phases: 3       Enclosure: Type 1	EW PANEL
Mounting: Surface	Wires: 4 Phase in kVA	Mains: 200A MLO	Mounting: Surface Wires: 4 Mains: 125A MLO Phase in kVA	
CORRIDOR LIGHTS(E)201CORRIDOR LIGHTS(E)201	0.6 / 0.0         1         20            3.3 / 0.0         1         20	SPARE2SPARE4SPARE6SPARE8	NoteCKTCircuit DescriptionWireBreakerABCBreakerWireCircuit Description11EMERGENCY LIGHTING#102011.5/0.011SPACE13EMERGENCY LIGHTING#102011.5/0.011SPACE5SPARE2010.0/0.01SPACE7SPARE2010.0/0.01SPACE	CKT         Note           2            4            6            8
R EGRESS LIGHTS     (E)     20     1       LIGHTING     #8     20     1       HTS     #8     20     1       LIGHTING     #8     20     1       LIGHTING     #8     20     1       LIGHTING     #8     20     1	3.3 / 0.0         1         20            2.3 / 0.0         1         20            .6 / 0.0         1	SPARE         10            SPARE         12            SPACE         14            SPACE         16	9       SPARE        20       1       0.0 / 0.0       1        SPACE          11       SPARE        20       1       0.0 / 0.0       1        SPACE          11       SPARE        20       1       0.0 / 0.0       1         SPACE          13       SPARE        20       1       0.0 / 0.0       1        SPACE          15       SPARE        20       1       0.0 / 0.0       1        SPACE          17       SPARE        20       1       0.0 / 0.0       1        SPACE	10            12            14            16            18
LIGHTING       #8       20       1       0         LIGHTING       #10       20       1       1         LIGHTING       #10       20       1       1         LIGHTING       #10       20       1       1	.4 / 0.0     1         1.5 / 0.0     1         1.5 / 0.0     1         5 / 0.0     1	SPACE         20            SPACE         22            SPACE         24            SPACE         26	19       SPARE        20       1       0.0 / 0.0       1         SPACE          21       SPARE        20       1       0.0 / 0.0       1         SPACE          23       SPARE        20       1        0.0 / 0.0       1         SPACE          25       SPARE        20       1       0.0 / 0.0       1         SPACE	20 22 24 26
HTS       #10       20       1         HTS       #10       20       1         LIGHTS       #10       20       1       1.          20       1       1.          20       1       1.          20       1       1.	0.0 / 15.8 3 80 1L	SPACE         30            ETS         34            36	27       SPARE        20       1       0.0 / 0.0       1         SPACE          29       SPARE        20       1       0.0 / 0.0       1         SPACE          31       SPARE        20       1       0.0 / 0.0       1         SPACE          33       SPACE        1       0.0 / 0.0       1         SPACE          35       SPACE        1       0.0 / 0.0       1         SPACE          35       SPACE        1       0.0 / 0.0       1         SPACE	28        30        32        34        36        28
	.0 / 0.0 0.0 / 0.0 3.0 kVA 25.9 kVA 23.7 kVA 83 A 94 A 86 A	SPDL         38           40         42	37       SPACE        1       0.0 / 0.0        30       #10       SPDL          39       SPACE        1       0.0 / 0.0       0.0 / 0.0       3       30       #10       SPDL          41       SPACE        1       0.0 / 0.0       0.0 / 0.0       3       30       #10       SPDL          41       SPACE        1       0.0 / 0.0       0.0 / 0.0       3       30       #10       SPDL          Total Load:        1.5 kVA       1.5 kVA       0.0 kVA                         0.0 / 0.0               0.0 / 0.0              0.0 / 0.0	38       40       42
Connected Load           2.0 kVA           30.0 kVA           38.4 kVA	Demand Factor         Estimated Demand           100.00%         2.0 kVA           125.00%         37.6 kVA           100.00%         38.4 kVA	Panel Totals         Total Conn. Load:       72.6 kVA         Total Est. Demand:       80.1 kVA	Load Classification       Connected Load       Demand Factor       Estimated Demand       Panel Totals         Lighting       3.0 kVA       125.00%       3.8 kVA       125.00%       3.8 kVA       125.00%       3.8 kVA         Miscellaneous       0.0 kVA       0.00%       0.0 kVA       Total Conn. Load:       3.0 kVA	VA <b>{</b>
2.2 kVA	100.00% 30.4 KVA	Total Conn. Current:     87 A       Total Est. Demand Current:     96 A	Image: State of the state	
	Abbrevations:		Notes: Abbrevations:	



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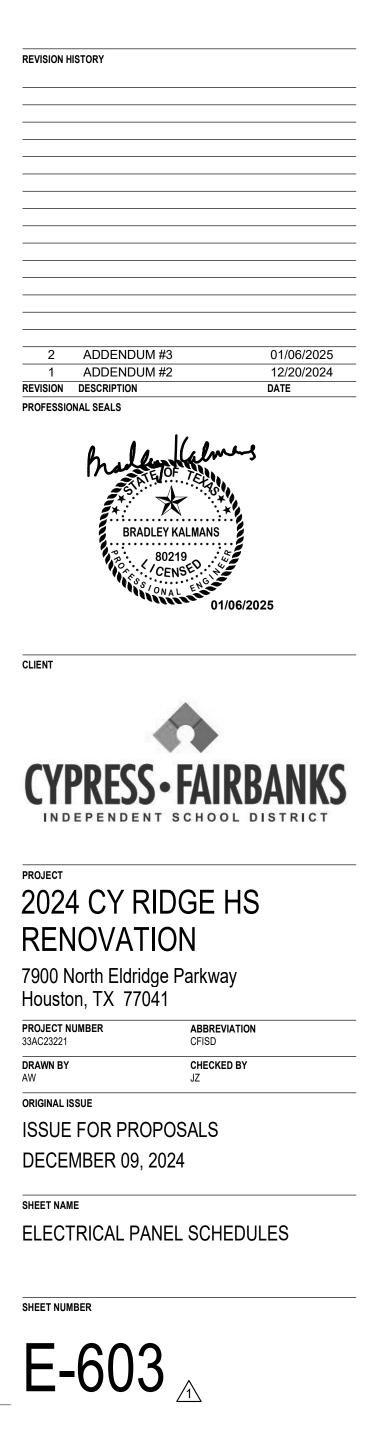
IN ASSOCIATION WITH: HarrisonKornberg ARCHITECTS Harrison Kornberg Architects 3800 Buffalo Speedway. Suite 550 Houston, TX 77098 pagethink.com TEL 713 229 0688 FAX 713 229 0692

CONSULTANT TEAM

STRUCTURAL ENGINEER Dally + Associates 9800 Richmond Avenue Suite 460 Houston, Texas 77042 713.337.8881

CIVIL ENGINEER Brooks & Sparks Inc. 21020 Park Row Dr. Katy, Texas 77449 281.578.9595

MEP & AV/THEATRICAL ENGINEER Salas O'Brien 10930 W Sam Houston Pkwy N Suite 900 Houston, TX 77064 281.664.1900



#### PANELBOARD CIRCUIT DIRECTORY:

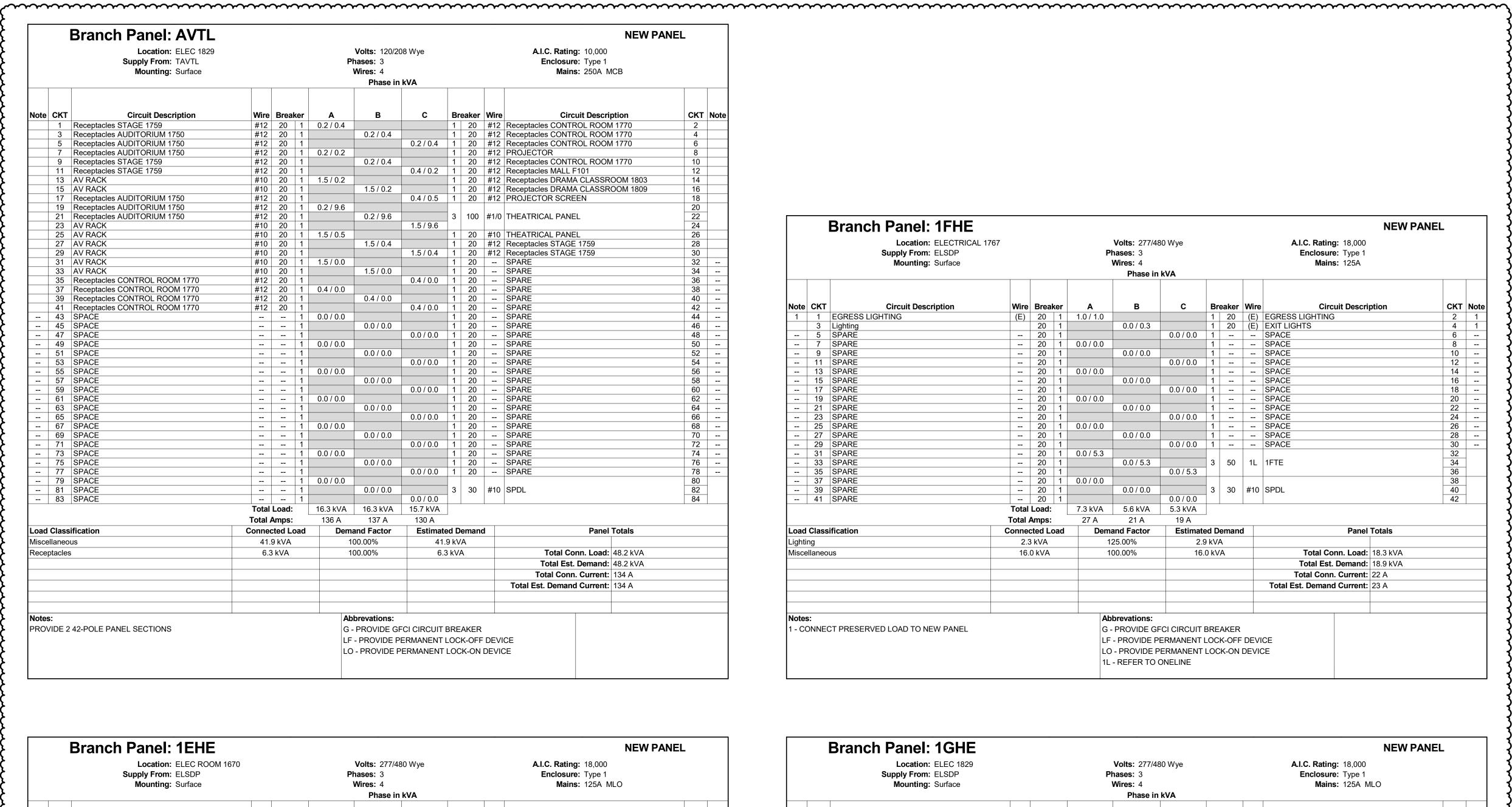
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CONTRACTOR SHALL RECORD AND/OR PRESERVE THE EXISTING CIRCUIT DIRECTORY, IF ANY, FOR THE SOLE PURPOSE UPON COMPLETION OF NEW WORK OF PRODUCING A NEW DIRECTORY.

CONTRACTOR SHALL PROVIDE AS PART OF THE CONSTRUCTION DOCUMENTS A NEW, NEATLY TYPED DIRECTORY. CONTRACTOR SHALL TRACE EXISTING CIRCUITS AND SHALL LEGIBLY IDENTIFY AS TO IT'S CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE, LOADS SERVED, LOCATION AND/OR THE PANELBOARD SCHEDULE ON THE DRAWINGS. THE WORD "EXISTING" SHALL NOT BE USED ON PANELBOARD DIRECTORIES. SPARE BREAKERS ARE TO BE LISTED AS "SPARE" AND SWITCHED TO THE OFF POSITION. SPACES WITH NO BREAKERS ARE TO BE LEFT BLANK. REFER TO NEC-2023: 408.4(A) FOR DETAILS.

CONTRACTOR SHALL PERMANENTLY LABEL AS PART OF THE CONSTRUCTION DOCUMENTS ALL SWITCHBOARDS, SWITCHGEAR AND PANELBOARDS TO INDICATE EACH

POWER SOURCE. REFER TO NEC-2023: 408.4(A) FOR DETAILS.



	Branch Panel: 1EHE						NE	W PANEL		Branch Panel: 1GHE							NEW PANEL
1       1       COUNCIL PROVING       1       2       1       2       1       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	Supply From: ELSDP	670	Pł	h <b>ases:</b> 3 <b>Wires:</b> 4	-		Enclosure: Type 1			Supply From: ELSDP		Phases: 3 Wires: 4	,			nclosure: Type 1	
1       Concepts Lighting       (a)       2       1       3       Concepts Lighting       4       3       Concepts Lighting       4       1       1       Concepts Lighting       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <th< th=""><th></th><th></th><th>_</th><th>_</th><th>_</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>			_	_	_												
1       0       0       0       0       1       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0			<b>A</b>	В	-					•		A B	C E			Circuit Descriptio	on CK
1       5       CarCleS UsiFind       5       CarCleS UsiFind       6       1         1       5       CarCleS UsiFind       20       1       20       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10       20.10 <td></td> <td></td> <td>2.3 / 1.2</td> <td>06/04</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>EGRESS LIGHTS</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>2</td>			2.3 / 1.2	06/04						EGRESS LIGHTS			1				2
r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r       r				0.670.4		1 20 (E) 1 20 (E)						1.070.0					
0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0              0			00/00		0.07 0.0	1 (E)	SPACE					10/00	0.270.0				-
11       BPARE       -       20       1       -       -       SPARE       10       SPARE       10       0.000       1       -       SPARE       10       0.000       10			0.070.0	0.0 / 0.0									1				-
15       SPARE       -       20       0       0.0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	11 SPARE				0.0/0.0	1	SPACE					0.2, 0.0			SPARE		
17       SPARE       -       20       1       -       -       SPARE       -       0.000       1       -       -       SPARE       0.000       1       -       SPARE       0.000       1       -       SPARE       0.000       1       -       SPARE       0.000       1       -       SPARE       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.000       0.0000       0.0000       0.0000 </td <td></td> <td> 20 1</td> <td>0.0 / 0.0</td> <td></td> <td></td> <td>1</td> <td></td> <td>14</td> <td>13</td> <td>EMERGENCY LIGHTING</td> <td>#12 20 1</td> <td></td> <td>1</td> <td>-</td> <td></td> <td></td> <td></td>		20 1	0.0 / 0.0			1		14	13	EMERGENCY LIGHTING	#12 20 1		1	-			
10       9xARE       -       20       1       -       -       3xACE       -       20       1       -       -       3xACE       -       3xACE       -       3xACE       -       -       3xACE       -       -       3xACE       -       -       3xACE       -       3xACE       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -				0.0 / 0.0								0.2 / 0.0					
2       8PARE       -       20       1       -       -       8PACE       2       -       -       -       8PACE       2       -       -       -       8PACE       2       -       -       -       -       8PACE       2       -       -       8PACE       -       2       8PACE       - <t< td=""><td></td><td></td><td></td><td></td><td>0.0 / 0.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>					0.0 / 0.0												
28       SPARE       -       -       -       SPACE       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -			0.0 / 0.0	0.0/0.0				20	19	SPARE							
28       SPARE       -       20       1       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00       0.07.00				0.0/0.0	0.0/0.0				21	SPARE		0.070.0					
27       SPARE       -       0       1       -       SPACE       20       -       0.01/0       0       1       -       SPACE       30       -       0.01/0       0       1       -       -       SPACE       30       -       0.01/0       0       1       -       -       SPACE       30       -       0.01/0       0       1       -       -       SPACE       30       -       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0       0.01/0       0 <t< td=""><td></td><td></td><td>00/00</td><td></td><td>0.070.0</td><td></td><td></td><td></td><td> 23</td><td>SPARE SPARE</td><td></td><td>00/00</td><td></td><td></td><td></td><td></td><td></td></t<>			00/00		0.070.0				23	SPARE SPARE		00/00					
29       SPARE       -       20       1       -       -       SPACE       -       20       1       -       -       SPACE       -       1       0.0700       0       1       -       -       SPACE       -       1       0.0700       0       1       -       -       SPACE       -       1       0.0700       0       0.0700       1       -       -       SPACE       -       3       SPACE       -       20       1       0.0700       0       0.0700       1       -       -       3       SPACE       -       20       1       0.0700       0       1       -       3       SPACE       -       20       1       0.0700       0       0.0700       1       -       0       0.0700       1       -       0.0700       0       -       3       SPACE       -       20       1       0.0700       0       0.0700       0       0.0700       0       -       -			0.070.0	00/00													
33       38/AC       -       -       1       0.0/10       0.0/10       3       3       5       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0				0.070.0					29	SPARE		0.070.0					
- 37 SPACE 20 1 0.0/0.0 0/0.0	- 31 SPACE		0.0 / 7.0			-			31	SPARE		0.0 / 0.0					32
- 39       SPACE       1       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0       0.0/0.0 <t< td=""><td></td><td> 1</td><td></td><td>0.0 / 4.0</td><td></td><td>3 50 1L</td><td>1ETE</td><td>34</td><td> 33</td><td>SPARE</td><td> 20 1</td><td>0.0 / 0.0</td><td></td><td>3 50</td><td>1L 1GTE</td><td></td><td>34</td></t<>		1		0.0 / 4.0		3 50 1L	1ETE	34	33	SPARE	20 1	0.0 / 0.0		3 50	1L 1GTE		34
- 39       SPACE       1       0.0/00       0.0/00       3       30       00       00/00       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40       40 <td< td=""><td></td><td>      1</td><td></td><td></td><td>0.0/3.1</td><td></td><td></td><td>36</td><td> 35</td><td>SPARE</td><td> 20 1</td><td></td><td>0.0 / 0.0</td><td></td><td></td><td></td><td>36</td></td<>		1			0.0/3.1			36	35	SPARE	20 1		0.0 / 0.0				36
I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I			0.0 / 0.0					38	37	SPARE							38
Total Load:       10.8 k/k       9.9 k/k       9.9 k/k       9.9 k/k       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4       38.4				0.0/0.0	0.0/0.0	3 30 #10	SPDL	40				0.0 / 0.0		3 30	#10 SPDL		40
Total Amps:       41 A       18 A       38 A         ad Classification       Connected Load       Demand Factor       Estimated Demand       Panel Totals         add Classification       13.8 VA       125.00%       14.1 kVA       Connected Load       Demand Factor       Estimated Demand       Panel Totals         scellaneous       12.5 kVA       100.00%       12.6 kVA       Total Conn. Load:       25.4 kVA         scellaneous       1.4 kVA       100.00%       1.4 kVA       Total Conn. Load:       25.4 kVA         scellaneous       1.4 kVA       100.00%       1.4 kVA       Total Conn. Load:       25.4 kVA         scellaneous       1.4 kVA       100.00%       1.4 kVA       Total Conn. Load:       25.4 kVA         scellaneous       1.4 kVA       100.00%       1.4 kVA       Total Conn. Load:       25.4 kVA         scellaneous       0.0 kVA       0.0 kVA       0.0 kVA       0.0 kVA       Total Conn. Load:       5.5 kVA         scellaneous       1.4 kVA       100.00%       1.4 kVA       Total Conn. Load:       5.4 kVA       Total Conn. Load:       5.5 kVA         scellaneous       1.4 kVA       Total Conn. Load:       5.4 kVA       Total Conn. Load:       5.6 kVA       Total Conn. Load:       5.6 kVA     <	- 41 SPACE			E 0 10/0				42	41	SPARE							42
ad Classification         Connected Load         Demand Factor         Estimated Demand         Pain - I         Connected Load         Demand Factor         Estimated Demand         Pain - I         Connected Load         Demand Factor         Estimated Demand         Pain - I         Connected Load         Demand Factor         Estimated Demand         Pain - I         Connected Load         Demand Factor         Estimated Demand         Pain - I         Connected Load         Demand Factor         Estimated Demand         Pain - I         Connected Load         Demand Factor         Estimated Demand         Connected Load         Conne Connected Load         Conne Conne																	
nhing 11.3 kVA 125.00% 14.1 kVA 125.00% 14.1 kVA 100.00% 12.6 kVA Total Conn. Load: 25.4 VVA 100.00% 12.6 kVA 100.00% 12.6 kVA Total Conn. Load: 25.4 VVA 0.0 kVA 0.0 kVA 0.0 kVA 0.0 kVA 100.0 kVA 101 Conn. Load: 25.4 VVA 100.00% 1.4 kVA 100.00% 1.4 kVA 104 E3.2 kVA 104 28.2 kVA 104 28.2 kVA 104 20.0 kV		-									•	•					
Incellaneous       12.6 kVA       100.00%       12.6 kVA       Total Conn. Load:       25.4 kVA         septacles       1.4 kVA       100.00%       1.4 kVA       Total Est. Demand:       28.2 kVA         septacles       1.4 kVA       100.00%       1.4 kVA       Total Conn. Current:       30.4         septacles       1.4 kVA       100.00%       1.4 kVA       Total Conn. Current:       30.4         septacles       1.4 kVA       Total Conn. Current:       30.4       10.0 kVA       0.0 kVA       Total Conn. Load:       5.5 kVA         septacles       1.4 kVA       Total Conn. Load:       30.4       10.0 kVA       0.0 kVA       Total Conn. Load:       6.9 kVA         septacles       1.4 kVA       Total Conn. Load:       34.4       10.0 kVA       Total Conn. Load:       8.4         septacles       1.4 kVA       Total Conn. Load:       34.4       10.0 kVA       10.0 kVA       Total Conn. Load:       8.4         septacles       1.4 kVA       Total Conn. Load:       34.4       10.0 kVA       10.0 kVA       Total Conn. Load:       8.4         septacles       1.4 kVA       Total St. Demand:       10.0 kVA       <							Panel Iotals			ification						Panel Io	als
ceptacies       1.4 kVA       100.0%       1.4 kVA       Total Est. Demail:       28.2 kVA         Image: Comparity of the state in the																	
Image: Section 1       Image: Section 2       Image: Section 2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Miscellaneou</td><td>us</td><td>0.0 kVA</td><td>0.00%</td><td>0.0 k</td><td>VA</td><td></td><td></td><td></td></t<>									Miscellaneou	us	0.0 kVA	0.00%	0.0 k	VA			
Image: state in the	ceptacles	1.4 kVA	10	00.00%	1.4	kVA		4									
Image: state       Image: state <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>Total Conn. Current: 30 A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Tot</td><td>tal Conn. Current: 7 A</td><td>١</td></th<>							Total Conn. Current: 30 A								Tot	tal Conn. Current: 7 A	١
CONNECT PRESERVED LOAD TO NEW PANEL       G - PROVIDE GFCI CIRCUIT BREAKER         LF - PROVIDE PERMANENT LOCK-OFF DEVICE       LF - PROVIDE PERMANENT LOCK-OFF DEVICE         LO - PROVIDE PERMANENT LOCK-ON DEVICE       LO - PROVIDE PERMANENT LOCK-ON DEVICE							Total Est. Demand Current: 34 A								Total Est.	Demand Current: 8 A	N Contraction of the second se
CONNECT PRESERVED LOAD TO NEW PANEL       G - PROVIDE GFCI CIRCUIT BREAKER         LF - PROVIDE PERMANENT LOCK-OFF DEVICE       LF - PROVIDE PERMANENT LOCK-OFF DEVICE         LO - PROVIDE PERMANENT LOCK-ON DEVICE       LO - PROVIDE PERMANENT LOCK-ON DEVICE																	
CONNECT PRESERVED LOAD TO NEW PANEL       G - PROVIDE GFCI CIRCUIT BREAKER         LF - PROVIDE PERMANENT LOCK-OFF DEVICE       LF - PROVIDE PERMANENT LOCK-OFF DEVICE         LO - PROVIDE PERMANENT LOCK-ON DEVICE       LO - PROVIDE PERMANENT LOCK-ON DEVICE																	
LF - PROVIDE PERMANENT LOCK-OFF DEVICE         LO - PROVIDE PERMANENT LOCK-ON DEVICE         LO - PROVIDE PERMANENT LOCK-ON DEVICE	tes:		Ab	brevations:					Notes:			Abbrevations:					
LO - PROVIDE PERMANENT LOCK-ON DEVICE	CONNECT PRESERVED LOAD TO NEW PANEL		G -	PROVIDE G	FCI CIRCUIT E	REAKER			1 - CONNEC	CT PRESERVED LOAD TO NEW PANEL		G - PROVIDE	GFCI CIRCUIT BR	EAKER			
			LF	- PROVIDE P	PERMANENT L	OCK-OFF DEVIC	E					LF - PROVIDE	PERMANENT LO	CK-OFF	DEVICE		
			LO	- PROVIDE P	PERMANENT L	OCK-ON DEVIC	E					LO - PROVIDE	PERMANENT LC	CK-ON D	DEVICE		
			1L	- ONELINE								1L - REFER TO	ONELINE				

ranch Panel: AVTL Location: ELEC 1829 Supply From: TAVTL Mounting: Surface	Location: ELEC 1829 Supply From: TAVTL								A.I.C. Rating: 10,000 Enclosure: Type 1 Mains: 250A MCB				
Circuit Description	Wire	Brea	-	<b>A</b>	В	С				•		T Note	
eceptacles STAGE 1759 eceptacles AUDITORIUM 1750	#12 #12	20 20	1	0.2 / 0.4	0.2/0.4		1	20 20		Receptacles CONTROL ROOM Receptacles CONTROL ROOM			
eceptacles AUDITORIUM 1750	#12	20	1		0.270.4	0.2/0.4	1	20		Receptacles CONTROL ROOM			
eceptacles AUDITORIUM 1750	#12	20	1	0.2 / 0.2			1	20		PROJECTOR	8		
eceptacles STAGE 1759	#12	20	1		0.2 / 0.4		1	20		Receptacles CONTROL ROOM			
eceptacles STAGE 1759	#12	20	1	4.5.4.0.0		0.4 / 0.2	1	20		Receptacles MALL F101	12		
/ RACK	#10	20	1	1.5 / 0.2	15/02		1	20		Receptacles DRAMA CLASSRO			
/ RACK eceptacles AUDITORIUM 1750	#10 #12	20 20	1		1.5 / 0.2	0.4 / 0.5	1	20 20		Receptacles DRAMA CLASSRC PROJECTOR SCREEN	DOM 1809 16		
eceptacles AUDITORIUM 1750	#12	20	1	0.2/9.6		0.47 0.0	Ľ	20	<i>m12</i>	Indebionation	20		
eceptacles AUDITORIUM 1750	#12	20	1		0.2 / 9.6		3	100	#1/0	THEATRICAL PANEL	22		
/ RACK	#10	20	1			1.5 / 9.6					24		
/ RACK	#10	20	1	1.5 / 0.5			1	20	_	THEATRICAL PANEL	26		
/ RACK / RACK	#10	20	1		1.5 / 0.4	15/04	1	20		Receptacles STAGE 1759	28		
/ RACK	#10 #10	20 20	1	1.5 / 0.0		1.5 / 0.4	1	20 20	#12	Receptacles STAGE 1759 SPARE	30		
/ RACK	#10	20	1	1.07 0.0	1.5 / 0.0		1	20		SPARE	34		
eceptacles CONTROL ROOM 1770	#12	20	1			0.4 / 0.0	1	20		SPARE	36		
eceptacles CONTROL ROOM 1770	#12	20	1	0.4 / 0.0			1	20		SPARE	38		
eceptacles CONTROL ROOM 1770	#12	20	1		0.4 / 0.0		1	20		SPARE	40		
eceptacles CONTROL ROOM 1770	#12	20	1	0.0/0.0		0.4 / 0.0	1	20		SPARE	42		
PACE			1	0.0 / 0.0	0.0 / 0.0		1	20 20		SPARE SPARE	46		
PACE			1		0.070.0	0.0 / 0.0	1	20		SPARE	48		
PACE			1	0.0 / 0.0			1	20		SPARE	50		
PACE			1		0.0 / 0.0		1	20		SPARE	52		
PACE			1			0.0 / 0.0	1	20		SPARE	54		
PACE PACE			1	0.0 / 0.0	0.0 / 0.0		1	20 20		SPARE SPARE	56		
PACE			1		0.070.0	0.0 / 0.0	1	20		SPARE	60		
PACE			1	0.0 / 0.0		0.070.0	1	20		SPARE	62		
PACE			1		0.0 / 0.0		1	20		SPARE	64		
PACE			1			0.0 / 0.0	1	20		SPARE	66		
PACE			1	0.0 / 0.0	0.0/0.0		1	20		SPARE	68		
PACE PACE			1		0.0 / 0.0	0.0 / 0.0	1	20 20		SPARE SPARE	70		
PACE			1	0.0 / 0.0		0.070.0	1	20		SPARE	74		
PACE			1	0.070.0	0.0 / 0.0		1	20		SPARE	76		
PACE			1			0.0 / 0.0	1	20		SPARE	78	3	
PACE			1	0.0 / 0.0							80		
PACE			1		0.0 / 0.0	00/00	3	30	#10	SPDL	82		
PACE	 Total	Load:	1	16.3 kVA	16.3 kVA	0.0 / 0.0 15.7 kVA					04	•	
	Total		l	136 A	137 A	130 A							
ation	Connec				and Factor	Estimat	od D	oman	h	Panel 1	<b>Fotals</b>		
		9 kVA	oau		00.00%		9 k\						
		3 kVA			00.00%		3 kV			Total Conn. Load:	18 2 1/1		
	0.0				00.0070	0.,	JKV	~		Total Est. Demand:			
										Total Conn. Current:			
										Total Est. Demand Current:			
										iotai Lot. Demanu Current.			
					h					I			
DOLE DANEL SECTIONS					brevations:								
-POLE PANEL SECTIONS													
				LF	- PROVIDE P	ERMANENT	LOC	-κ-O⊦F	· DFA	ICE			



	Bran	<b>ch Panel: 1FHE</b> Location: ELECTRICAL 1 Supply From: ELSDP Mounting: Surface	767			Pł	<b>Volts:</b> 277/48 hases: 3 Wires: 4	30 Wye				<b>A.I.C. Rating:</b> 18,000 <b>Enclosure:</b> Type 1 <b>Mains:</b> 125A	NEW PANE	<u> </u>	
							Phase in	kVA							
te Cl	кт	Circuit Description	Wiro	Break	or	Α	В	С	Bro	eaker	Wire	Circuit Descr	intion	СКТ	Note
		LIGHTING	(E)			A 1.0 / 1.0	D	U	1	20		EGRESS LIGHTING	ption	2	1
-	3 Lighting			20	1		0.0 / 0.3		1	20	(E)	EXIT LIGHTS		4	1
-	5 SPARE				1	0.0.10.0		0.0 / 0.0	1			SPACE		6	
	7 SPARE 9 SPARE				1	0.0 / 0.0	0.0 / 0.0		1			SPACE SPACE		8	
1					1		0.070.0	0.0 / 0.0	1			SPACE		10	
_	3 SPARE					0.0 / 0.0		0.070.0	1			SPACE		14	
1	5 SPARE			20	1		0.0 / 0.0		1			SPACE		16	
1					1			0.0 / 0.0	1			SPACE		18	
	9 SPARE					0.0 / 0.0	0.0/0.0		1			SPACE		20	
	21 SPARE 23 SPARE				1		0.0 / 0.0	0.0 / 0.0	1			SPACE SPACE		22 24	
	25 SPARE					0.0 / 0.0		0.070.0	1			SPACE		24	
2					1	0.070.0	0.0 / 0.0		1			SPACE		28	
	9 SPARE			20	1			0.0 / 0.0	1			SPACE		30	
3						0.0 / 5.3	0.0/5.0							32	_
	33 SPARE 35 SPARE			-	1		0.0 / 5.3	0.0 / 5.3	3	50	1L	1FTE		34 36	-
3						0.0 / 0.0		0.07 3.3						38	+
	9 SPARE			20	1		0.0 / 0.0		3	30	#10	SPDL		40	1
4				20	1			0.0 / 0.0						42	
			Total I			7.3 kVA	5.6 kVA	5.3 kVA							
			Total A	-		27 A	21 A	19 A							
	assification		Connec		ad		and Factor	Estimate			I	Pane	Totals		
hting				kVA			25.00%		9 kVA				40.012/2		
cellar	neous		16.0	) kVA		10	00.00%	16.	0 kV/	4		Total Conn. Load			
												Total Est. Demand			
												Total Conn. Current			
												Total Est. Demand Current	23 A		
tes:						A	brevations:								
		RVED LOAD TO NEW PANEL					PROVIDE GF								ſ
		IN ED LOAD TO NEW FAINEL					- PROVIDE GF								
							ם שנוועוו אם ב	ERMANENT			ערשם	~E			

	Branch Panel: 1GHE												NEW F	PANEL	
	Location: ELEC 1829 Supply From: ELSDP Mounting: Surface					Volts: 277/48 hases: 3 Wires: 4 Phase in	-				A	LI.C. Rating: 18,00 Enclosure: Type Mains: 125A	1		
скт	Circuit Description	Wire	Break	ker	А	В	с	Br	eaker	Wire		Circuit Desc	cription	СКТ	Note
1	EGRESS LIGHTS	(E)	20	1	1.0 / 0.0			1	20		SPARE			2	
3	EGRESS LIGHTS	(E)	20	1		1.0 / 0.0		1	20		SPARE			4	
5	EXIT LIGHTS	(E)	20	1			0.2/0.0	1	20		SPARE			6	
7	2018 ADDITION EMERGENCY LIGHTS	(E)	20	1	1.0 / 0.0			1	20		SPARE			8	
9	EGRESS LIGHTS	(E)	20	1		0.2 / 0.0		1	20		SPARE			10	
	EMERGENCY LIGHTING	#12	20	1			1.7 / 0.0	1	20		SPARE			12	
	EMERGENCY LIGHTING	#12	20	1	0.3 / 0.0			1	20		SPARE			14	
	EMERGENCY LIGHTING	#12	20	1		0.2 / 0.0		1	20		SPARE			16	
	SPARE		20	1			0.0 / 0.0	1			SPACE			18	
	SPARE		20	1	0.0 / 0.0			1			SPACE			20	
	SPARE		20	1		0.0 / 0.0		1			SPACE			22	
	SPARE		20	1			0.0 / 0.0	1			SPACE			24	
	SPARE		20	1	0.0 / 0.0			1			SPACE			26	
	SPARE		20	1		0.0 / 0.0		1			SPACE			28	
	SPARE		20	1			0.0/0.0	1			SPACE			30	
	SPARE		20	1	0.0 / 0.0	0.0 / 0.0			50		4075			32	_
	SPARE		20	1		0.0 / 0.0	00/00	3	50	1L	1GTE			34	-
	SPARE SPARE		20	1	00/00		0.0/0.0	-		_				36 38	
	SPARE		20 20	1	0.0 / 0.0	0.0 / 0.0		2	20	#10	SPDL			<u> </u>	-
	SPARE		20	1		0.070.0	0.0 / 0.0	3	30	#10	SPDL			40	-
41	SPARE	 Total		-	2.3 kVA	1.4 kVA	1.9 kVA							42	
						1.4 KVA 5 A	7 A								
	161 41				8 A					-1		Dem	-1 Totala		
lass	ification	Connec		bad		and Factor	Estimate			a		Pan	el Totals		
)			kVA			25.00%		9 kV							
aneo	us	0.0	kVA			0.00%	0.0	) kV	4			Total Conn. Loa			
												Total Est. Deman	<b>d:</b> 6.9 kVA		
												Total Conn. Currer	1 <b>t:</b> 7 A		
											Total E	st. Demand Currer	<b>1t:</b> 8 A		
		1			Ah	brevations:	I			I			1		
	CT PRESERVED LOAD TO NEW PANEL					- PROVIDE GF		RRF							
											CE				
						- PROVIDE P									
						- PROVIDE P		LOC	K-ON	DEAIC	Έ				
					1L	- REFER TO (	ONELINE								



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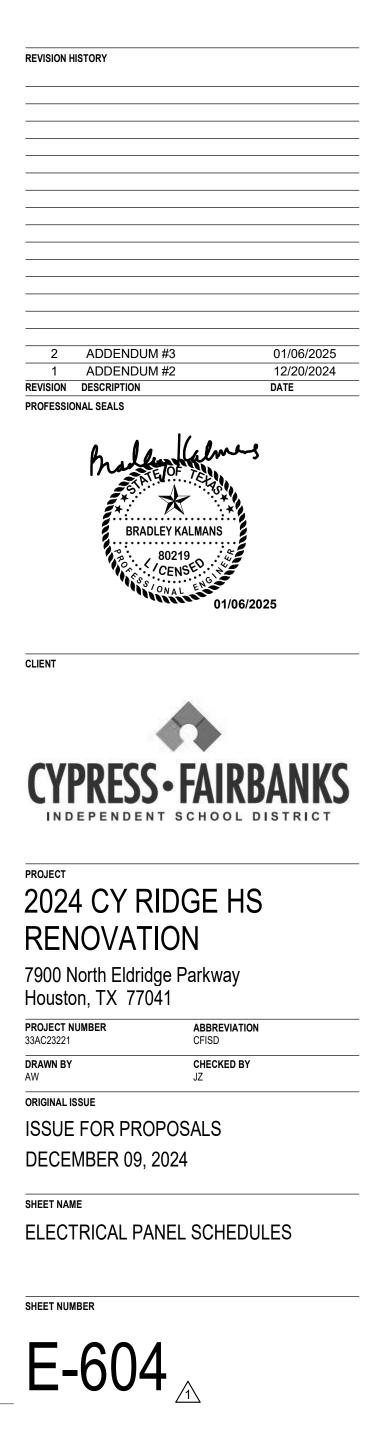
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CIVIL ENGINEER Brooks & Sparks Inc. 21020 Park Row Dr. Katy, Texas 77449 281.578.9595

MEP & AV/THEATRICAL ENGINEER Salas O'Brien 10930 W Sam Houston Pkwy N Suite 900 Houston, TX 77064 281.664.1900



# $\sim\sim\sim\sim\sim\sim$ Bra Note CKT —L6-5 FIR 9 F/A 11 |F/A 13 EM EM Re 21 |FN 29 -L6-35 SPA 37 SPA 39 SPA 41 SP/ Load Classifica Miscellaneous Receptacles Notes: 1 - CONNECT PF

PANELBOARD CIRCUIT DIRECTORY:

\_\_\_\_\_

CONTRACTOR SHALL RECORD AND/OR PRESERVE THE EXISTING CIRCUIT DIRECTORY, IF ANY, FOR THE SOLE PURPOSE UPON COMPLETION OF NEW WORK OF PRODUCING A NEW DIRECTORY.

CONTRACTOR SHALL PROVIDE AS PART OF THE CONSTRUCTION DOCUMENTS A NEW, NEATLY TYPED DIRECTORY. CONTRACTOR SHALL TRACE EXISTING CIRCUITS AND SHALL LEGIBLY IDENTIFY AS TO IT'S CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE, LOADS SERVED, LOCATION AND/OR THE PANELBOARD SCHEDULE ON THE DRAWINGS. THE WORD "EXISTING" SHALL NOT BE USED ON PANELBOARD DIRECTORIES. SPARE BREAKERS ARE TO BE LISTED AS "SPARE" AND SWITCHED TO THE OFF POSITION. SPACES

WITH NO BREAKERS ARE TO BE LEFT BLANK. REFER TO NEC-2023: 408.4(A) FOR DETAILS. CONTRACTOR SHALL PERMANENTLY LABEL AS PART OF THE CONSTRUCTION DOCUMENTS ALL SWITCHBOARDS, SWITCHGEAR AND PANELBOARDS TO INDICATE EACH POWER SOURCE. REFER TO NEC-2023: 408.4(A) FOR DETAILS.

ranch Panel: 1ELE Location: ELEC ROOM 1670 Supply From: 1ETE Mounting: Surface		Pl	Volts: 120/20 nases: 3 Wires: 4	)8 Wye				<b>A.I.C. Rating:</b> 10,000 <b>Enclosure:</b> Type 1 <b>Mains:</b> 100A M	NEW PANE	L			
					Phase in	kVA							
Circuit Description	Wire	Brea	ker	А	в	с	Br	eaker	Wire	Circuit Descrip	otion	скт	Note
5-30R TELE E153	#8	20	2	1.6 / 0.0	1.6 / 0.0		1	20 20	(E) (E)	MAIN FIRE CIRCUIT MAIN COMM RACK		2	1
RE ALARM PANEL	(E)	20	1		1.070.0	0.0/0.0	1	20	(E) (E)	MAIN COMM RACK		6	1
	(E)	20	1	0.0 / 0.0		0.070.0	1	20	(E)	EM OUTLETS		8	1
A CONTROL REMOTE	(E)	20	1	0.07 0.0	0.0 / 0.4		1	20		Receptacles TELE E153		10	1
A CONTROL CAB	(E)	20	1		0.070.4	0.0/0.0	1	20		FIRE ALARM REMOITE		12	1
MOUTLETS	(E)	20	1	0.0 / 0.0		0.070.0	1	20		DMS-3 CONDENSATE PUMP		14	
MOUTLETS	(E)	20	1	0.07 0.0	0.0 / 0.0		1	20		FIRE ALARM REMOTE		16	1
MOUTLETS	(E)	20	1		0.070.0	0.0 / 1.6	- · ·					18	-
eceptacles TELE E153	#10	20	1	0.4 / 1.6		0.071.0	2	20	#8	L6-30R TELE E153		20	-
M OUTLET	(E)	20	1	0.47 1.0	0.0 / 0.4		1	20	#10	QUAD RECEPTACLE PUBLIC	ADDRESS D162	22	
	(E)	20	1		0.070.4	0.0/0.0	1	20	(E)	1656 PLUG		24	1
ECURITY	(E)	20	1	0.0 / 0.4		0.070.0	1	20		QUAD RECEPTACLE PUBLIC	ADDRESS D162	26	
ECURITY	(E)	20	1	0.070.1	0.0 / 0.0		1	20	(E)	CAMERA POWER SUPPLY		28	1
ECURITY	(E)	20	1		0.070.0	0.0 / 1.6						30	· ·
				1.6 / 1.6		0.071.0	2	20	#10	L6-30R RECEPTACLE PUBLIC	ADDRESS D162	32	1
3-30R RECEPTACLE PUBLIC ADDRESS D162	#10	20	2	1.07 1.0	1.6 / 0.1		1	20	#12	ACP		34	
PARE		20	1		1.07 0.1	0.0/0.0	1	20		SPARE		36	
PARE		20	1	0.0 / 0.0		0.070.0	· ·	20				38	
PARE		20	1	0.0 / 0.0	0.0 / 0.0		3	30	#10	SPDL		40	1
PARE		20	1			0.0/0.0	Ť					42	1
	Total	Load:	· ·	7.0 kVA	4.0 kVA	3.1 kVA							
			l	59 A	34 A	26 A							
										David			
cation	Connec		oad		and Factor	Estimat			a	Panel	lotais		
		6 kVA			00.00%		.6 kV						
	1.4	l kVA		10	00.00%	1.4	4 kVA	4		Total Conn. Load:	14.0 kVA		
										Total Est. Demand:	14.0 kVA		
										Total Conn. Current:	39 A		
										Total Est. Demand Current:	39 A		
				Ab	brevations:								
PRESERVED LOAD TO NEW PANEL				G -	PROVIDE GF	CI CIRCUIT	BRE	AKER					
				LF	- PROVIDE P	ERMANENT	LOC	K-OFF	DEVI	CE			
					- PROVIDE P			-		-			
							LUU		DEVIC				

	Branch Panel: 1GLE										NEW PAN	EL	
	Location: ELECT. G201 Supply From: 1GTE Mounting: Surface				l	Volts: 120/20 Phases: 3 Wires: 4 Phase in					A.I.C. Rating: 10,000 Enclosure: Type 1 Mains: 100A MCB		
KT	Circuit Description	Wire	Brea	kor	А	в	С	Bra	eaker	Wire	e Circuit Description	СКТ	- Note
1	2 RECEPTACLES IDF/MDF	#10	20		0.5 / 1.6		U				• • • • • • • • • • • • • • • • • • •	2	NOLE
3	CP	#10	20	1	0.07 1.0	0.5 / 1.6		2	30	#10	IT RACK	4	-
	CARD ACCESS	#10	20	1			0.5 / 1.6					6	
7	GREENHOUSE	#10	20	1	0.5 / 1.6			2	30	#10	IT RACK	8	-
9	CARD READER	(E)	20	1		0.5 / 0.4		1	20	#12	IT RACK	10	
11	EM OUTLET	(E)	20	1			0.5 / 0.1	1	20	#12	ACP	12	
13	FIRE ALARM	(E)	20	1	0.5 / 1.1			1	20	#12	Receptacles IDF G1016	14	
15 17	DMSCU-14	#10	30	2		1.0 / 1.0	1.0 / 1.0	2	30	#10	DMSCU-4	16 18	_
19	DMS-14 CONDENSATE PUMP	#12	20	1	0.2 / 0.0			1	20	#12	DMS-4 CONDENSATE PUMP	20	
21 23	DMSCU-11	#10	30	2		1.0 / 0.0	1.0 / 0.0	2	30	#10	DMSCU-5	22 24	_
25	DMS-11 CONDENSATE PUMP	#12	20	1	0.0 / 1.6			2	30	#8	IT RACK	26	
27	IT RACK	#10	20	1		0.4 / 1.6		2	30			28	
29	Receptacles TELE-2 H209-2	#12	20	1			0.4 / 0.0	1	20	#12	DMS-5 CONDENSATE PUMP	30	
31 33	L6-30R TELEPHONE H174	#10	20	2	1.6 / 1.6	1.6 / 1.6		2	20		L6-30R TELEPHONE H174	32 34	_
	Receptacles TELEPHONE H174	#12	20	1			0.4 / 0.4	1	20	#12	Receptacles TELEPHONE H174	36	
37	SPARE		20	1	0.0 / 0.2							38	
	SPARE		20	1		0.0 / 0.2		3	30	#10	SPDL	40	_
41	SPARE		20	1			0.0/0.2					42	
		Total	Load:	: [	10.7 kVA	11.1 kVA	6.9 kVA						
		Total /	Amps:		94 A	98 A	58 A						
ass	ification	Conne	cted L	oad	Der	nand Factor	Estimat	ed De	emano	d	Panel Totals		
		6.0	) kVA			100.00%	6.	) kVA	١				
neo	US	19	7 kVA			100.00%	19	7 kV	A		Total Conn. Load: 28.8 kVA		
			2 kVA			100.00%		2 kVA			Total Est. Demand: 28.8 kVA		
cles	、		9 kVA			100.00%		9 kVA			Total Conn. Current: 80 A		
lues	,	2.3	INVA			100.00 %	Z.;	9 K V F	۱				
											Total Est. Demand Current: 80 A		
						bbrevations:							
	LOAD SERVED, INTERCEPT AND EXTEND CI	RCUIT FRO	DM PA	NEL	'ELU' G	- PROVIDE GF	CI CIRCUIT	BRE	AKER				
NEC	CT PRESERVED LOAD TO NEW PANEL				L	F - PROVIDE P	ERMANENT	LOCI	K-OFF	DEV	ICE		
					L	O - PROVIDE P	ERMANENT	LOC	K-ON	DEVI	CE		ľ

		Branch Panel: 2DLE											NEW PANE	EL	
		Location: ELEC-2 2609-2 Supply From: 2DTE Mounting: Surface					Volts: 120/20 hases: 3 Wires: 4 Phase in	-				A.I.C. Rating: 10,000 Enclosure: Type 1 Mains: 100A M	ICB		
Note	СКТ	Circuit Description	Wire	Brea	ker	Α	В	с	Br	eaker	Wire	e Circuit Descri	ption	скт	Note
1	1	CORRIDOR EGRESS LIGHTING	(E)	20	1	0.0 / 0.0			1	20	(E)	MALL EGRESS LIGHTING	-	2	1
1	3	ТТВ	(E)	20	1		0.0 / 0.0		1	20	(E)	TTB		4	1
1	5	AMPLIFIER	(E)	20	1			0.0 / 0.0	1	20	(E)	FA REMOTE POWER		6	1
1,LO	7	FIRE SMOKE DAMPER	(E)	20	1	0.0 / 0.0			1	20	(E)			8	1
1	9	4 RECEPTACLES	(E)	20	1		0.0 / 0.0		1	20	(E)			10	1
1	11	2 RECEPTACLES	(E)	20	1			0.0 / 0.0	1	20	(E)	DDC CONTROLLER		12	1
	13	DMSCU-10			2	1.0 / 0.0			1	20	(E)	DDC CONTROLLER		14	1
	15		#8	30	2		1.0 / 0.0		1	20	(E)	DDC CONTROLLER		16	1
	17	DMCCU 2		20	_			1.0/0.0	1	20	(E)	DDC CONTROLLER		18	1
	19	DMSCU-3	#8	30	2	1.0 / 0.0			1	20	(E)			20	1
	21	DMS-10 CONDENSATION PUMP	#10	20	1		0.0 / 1.6							22	
	23							1.6 / 1.6	2	20	#8	IT RACK		24	
	25	IT RACK	#8	30	2	1.6 / 0.4			1	20	#10	) IT RACK		26	
	27	Receptacles TELEPHONE-2 E210-2	#12	20	1		0.4 / 0.0		1			SPACE		28	
	29	SPARE		20	1			0.0/0.0	1			SPACE		30	
	31	SPARE		20	1	0.0 / 0.0			1			SPACE		32	
	33	SPARE		20	1		0.0 / 0.0		1			SPACE		34	
	35	SPARE		20	1		0.070.0	0.0/0.0	1			SPACE		36	
	37	SPARE		20	1	0.0 / 0.0		0.070.0	<u> </u>					38	
	39	SPARE		20	1	0.07 0.0	0.0 / 0.0		3	30	#10	) SPDL		40	-
		SPARE		20	1		0.070.0	0.0 / 0.0	Ĭ		110			40	-
		OF AILE	Total	Load:		3.9 kVA	2.9 kVA	4.1 kVA						72	
					L										
			Total /			34 A	24 A	36 A							
Load	Class	ification	Connec	cted L	oad	Dem	and Factor	Estimat	ed D	eman	d	Panel	Totals		
HVAC	;		4.0	) kVA		1	00.00%	4.	0 kV	Ą					
Misce	llaneo	US	6.2	2 kVA		1	00.00%	6.	2 kV	A		Total Conn. Load:	11.0 kVA		
	otacles			7 kVA			00.00%		7 kV			Total Est. Demand:	-		
Nece	JIACICS		0.7	ΝVΛ			00.00 /0	0.	/	<b>`</b>					
												Total Conn. Current:			
												Total Est. Demand Current:	30 A		
							h								
Notes							brevations:								
1 - CC	ONNE	CT PRESERVED LOAD TO NEW PANEL				G	- PROVIDE GI	FCI CIRCUIT	BRE	AKER					
						LF	- PROVIDE P	PERMANENT	LOC	K-OFF	- DEV	/ICE			
							) - PROVIDE F								
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Note         C           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           2         2           2,LO         3            3            3            4           HVAC         Miscellan           Recepta <t< th=""><th></th><th></th></t<>		
1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         2       2         2,LO       2         2,LO       2         2,LO       2         2,LO       3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3 <tr tr="">     &lt;</tr>	Note	С
1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         2       2         2,LO       2         2,LO       2         2,LO       2         2,LO       3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3 <tr tr="">     &lt;</tr>		
1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         2       2         2,LO       2         2,LO       2         2,LO       2         2,LO       3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3 <tr tr="">     &lt;</tr>		
1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         2       2         2,LO       2         2,LO       2         2,LO       2         2,LO       3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3 <tr tr="">     &lt;</tr>	1	
1       1         1       1         1       1         2       2         2,LO       3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3 <th>1</th> <th></th>	1	
1       1         1       1         2       2         2,LO       2         2,LO       2         2,LO       2         2,LO       2         2,LO       2         2,LO       3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          4         Notes:       PROVID         PROVID       1 - CONID         2 - VERI       2	1	
1       1         2       2         2,LO       2         2,LO       2         2,LO       2         2,LO       2         2,LO       2         2,LO       3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          4         Discellar       Recepta		
1         2       2         2,LO       2         2,LO       2         2,LO       2         2,LO       2         2,LO       3         3       3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          3          4		1
1         2       2         2,LO       2         2,LO       2         2,LO       2         2,LO       2         2,LO       3          3          3          3          3          3          3          3          4         HVAC       Miscellar         Recepta	1	
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2       2         2,LO       2         2,LO       2         2,LO       3         3       3          3          3          3          3          3          3          3          4         Load Cli       HVAC         Miscellai       Recepta          9         Notes:       PROVID         1 - CONI       2 - VERI		
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2,LO 2 2,LO 2 2,LO 3 3 3 4 <b>Load Cl</b> i HVAC Miscellar Recepta Notes: PROVID 1 - CONI 2 - VERI	2.LO	2
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Load Cla 3 4 Load Cla HVAC Miscellar Recepta Notes: PROVID 1 - CONI 2 - VERI	2,LU	
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4 Load Cla HVAC Miscellar Recepta Notes: PROVID 1 - CONI 2 - VERI		3
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| NNECT PRESERVED LOAD TO NEW PANEL         Branch Panel: 2DLE         Location: ELEC-2 2609-2         Supply From: 2DTE         Mounting: Surface         CKT         Circuit Description         1       CORRIDOR EGRESS LIGHTING         3       TTB         5       AMPLIFIER         7       FIRE SMOKE DAMPER         9       4 RECEPTACLES         11       2 RECEPTACLES         13       DMSCU-10         17       19         19       DMSCU-3         21       DMS-10 CONDENSATION PUMP         23       1T RACK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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DE<br><b>K</b><br><b>C</b><br><b>Breaker</b><br><b>X</b><br><b>C</b><br><b>1</b><br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20))<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1<br>20<br>(1))<br>(1<br>20<br>(1))<br>(1<br>20<br>(1))<br>(1<br>20<br>(1))<br>(1<br>20<br>(1))<br>(1))<br>(1))<br>(1))<br>(1))<br>(1))<br>(1))<br>(1) 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VERIF<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IECT PRESERVED LOAD TO NEW PANEL         Y LOAD SERVED, INTERCEPT AND EXTENT         Y LOAD SERVED, INTERCEPT AND EXTENT         Y LOAD SERVED, INTERCEPT AND EXTENT         Supply Form:         Location: CENTRAL F         Supply From:         Mounting: Surface         Circuit Description         FIRE SMOKE DAMPER         FA REMOTE POWER         DMS-15 CONDENSATE PUMP         ACP         Receptacles OFFICE H101         SPARE                                                                                                                                                                                                                                                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                                                                                                                                                                                                                                                                                                                                                          | G - PROVIDE GF<br>LF - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>Note: 120/20<br>Phases: 3<br>Wires: 4<br>Phase in<br>Mires: 4<br>Phase in<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.0 / 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                              | C       Breaker         08 Wye       1         kVA       1         0.0 / 0.0       1         1          0.0 / 0.0       1         1          1          1          1          1          1          1          1          1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A.I.C. Rating: 10<br>EVICE<br>A.I.C. Rating: 10<br>Enclosure: Ty<br>Mains: 40<br>Wire Circuit I<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,000<br>ype 1<br>00A                                                                                                | CKT<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>14<br>16<br>18<br>20<br>22<br>24<br>24<br>26<br>28<br>30<br>32                                                                                                                                                         |
| RIFY LOAD SERVED, INTERCEPT AND EXTEND CIRDNNECT PRESERVED LOAD TO NEW PANEL         DNNECT PRESERVED LOAD TO NEW PANEL         Branch Panel: 2DLE         Location: ELEC-2 2609-2         Supply From: 2DTE         Mounting: Surface         CKT       Circuit Description         1       CORRIDOR EGRESS LIGHTING       1         3       TTB       5         4       RECEPTACLES       1         11       2 RECEPTACLES       1         13       DMSCU-10       1         15       DMSCU-10       1         17       DMSCU-3       1         21       DMSCU-3       1         23       IT RACK       2         24       Receptacles TELEPHONE-2 E210-2       2         29       SPARE       3         33       SPARE       3         35       SPARE       3                                                                                                                                                                                                                                                                       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0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 1.6         0 / 0.0       0.0 / 1.6         0 / 0.0       0.0 / 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MANENT LOCK-OFF DI<br>MANENT LOCK-ON DE<br>MANENT LOCK-ON DE<br>Mye<br>A<br>C Breaker W<br>1 20 ((<br>1 20 ((<br>0.0 / 0.0 1 20 ((<br>1 20 ((<br>0.0 / 0.0 1 20 ((<br>1 20 (())))))))))))))))))))))))))))))))))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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- VERIF<br>3 - VERIF<br>1,LO 1<br>1,LO 1<br>1,LO 1<br>1,LO 3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>2<br>2<br>2<br>3<br>3<br>3<br>3<br>3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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PROVIDE GF<br>LF - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>Note: 120/20<br>Phases: 3<br>Wires: 4<br>Phase in<br>0.5 / 0.0<br>0.5 / 0.0<br>0.0 / 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | C       Breaker         08 Wye       1         kVA       1         0.0 / 0.0       1         1          0.0 / 0.0       1         1          1          1          1          1          1          1          1          1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A.I.C. Rating: 10<br>EVICE<br>A.I.C. Rating: 10<br>Enclosure: Ty<br>Mains: 40<br>Wire Circuit I<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                            | 0,000<br>ype 1<br>00A                                                                                                | CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36                           |
| RIFY LOAD SERVED, INTERCEPT AND EXTEND CIR<br>NNECT PRESERVED LOAD TO NEW PANEL<br>Branch Panel: 2DLE<br>Location: ELEC-2 2609-2<br>Supply From: 2DTE<br>Mounting: Surface<br>CKT Circuit Description<br>1 CORRIDOR EGRESS LIGHTING<br>3 TTB<br>5 AMPLIFIER<br>7 FIRE SMOKE DAMPER<br>9 4 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>13 DMSCU-10<br>15 DMSCU-3<br>19 DMSCU-3<br>11 DMSCU-3<br>21 DMSCU-3<br>21 DMSCU-3<br>21 DMSCU-3<br>21 DMSCU-3<br>21 DMSCU-3<br>23 IT RACK<br>27 Receptacles TELEPHONE-2 E210-2<br>29 SPARE<br>31 SPARE<br>33 SPARE<br>33 SPARE<br>39 SPARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Wire       Breaker         (E)       20       1       0.0         #8       300       2       1.0         #8       300       2       1.0         #10       200       1       1.0         #112       20       1       1.0         #12       20       1       1.0          20       1       0.0          20       1       0.0          20       1       0.0          20       1       0.0 <td< td=""><td>G - PROVIDE GFCI         LF - PROVIDE PER         LO - PROVIDE PER         LO - PROVIDE PER         Wires: 120/208 V         Phases: 3         Wires: 4         Phase in KV         A       B         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 1.6         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0</td><td>MANENT LOCK-OFF DI<br/>MANENT LOCK-ON DE<br/>MANENT LOCK-ON DE<br/>Mye<br/>A<br/>C Breaker W<br/>1 20 ((<br/>0.0 / 0.0 1 20 ((<br/>1 20 ((<br/>0.0 / 0.0 1 20 ((<br/>1 20
(())))))))))))))))))))))))))))))))))</td><td>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EVICE<br/>EV</td><td>CKT         Note           2         1           4         1           6         1           8         1           10         1           12         1           14         1           16         1           22         1           24         1           22         1           24         1           26         1           30            32            34            36            38        </td><td>PROVIDI<br/>1 - CONN<br/>2 - VERIF<br/>3 - VERIF<br/>3 - VERIF<br/>1,LO 1<br/>1,LO 1<br/>1,LO 1<br/>1,LO 3<br/> 1<br/> 2<br/> 2<br/> 2<br/> 3<br/> /td><td>IECT PRESERVED LOAD TO NEW PANEL<br/>Y LOAD SERVED, INTERCEPT AND EXTEN<br/>Y LOAD SERVED, INTERCEPT AND EXTEN<br/>EXT CENTRAL F<br/>Supply From:<br/>Mounting: Surface<br/>T Circuit Description<br/>FIRE SMOKE DAMPER<br/>FA REMOTE POWER<br/>DMS-15 CONDENSATE PUMP<br/>ACP<br/>Receptacles OFFICE H101<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>S</td><td>Wire       Breaker         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1</td><td>G - PROVIDE GF<br/>LF - PROVIDE P<br/>LO - PROVIDE P<br/>LO - PROVIDE P<br/>Note: 120/20<br/>Phases: 3<br/>Wires: 4<br/>Phase in<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.0 / 0.0</td><td>ERMANENT LOCK-OFF         ERMANENT LOCK-ON I         ERMANENT LOCK-ON I         8 Wye         kVA         C       Breker         1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1       &lt;</td><td>A.I.C. Rating: 10<br/>EVICE<br/>A.I.C. Rating: 10<br/>Enclosure: Ty<br/>Mains: 40<br/>Wire Circuit I<br/> SPACE<br/> SPACE</td><td>0,000<br/>ype 1<br/>00A</td><td>CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40</td></td<> | G - PROVIDE GFCI         LF - PROVIDE PER         LO - PROVIDE PER         LO - PROVIDE PER         Wires: 120/208 V         Phases: 3         Wires: 4         Phase in KV         A       B         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 1.6         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 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| Wire       Breaker         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1                 | G - PROVIDE GF<br>LF - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>Note: 120/20<br>Phases: 3<br>Wires: 4<br>Phase in<br>0.5 / 0.0<br>0.5 / 0.0<br>0.0 / 0.0                                                                                                             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Rating: 10<br>EVICE<br>A.I.C. Rating: 10<br>Enclosure: Ty<br>Mains: 40<br>Wire Circuit
I<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0,000<br>ype 1<br>00A                                                                                                | CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40 |
| RIFY LOAD SERVED, INTERCEPT AND EXTEND CIR<br>NNECT PRESERVED LOAD TO NEW PANEL<br>Branch Panel: 2DLE<br>Location: ELEC-2 2609-2<br>Supply From: 2DTE<br>Mounting: Surface<br>CKT Circuit Description<br>1 CORRIDOR EGRESS LIGHTING<br>3 TTB<br>5 AMPLIFIER<br>7 FIRE SMOKE DAMPER<br>9 4 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>13 DMSCU-10<br>17 DMSCU-3<br>19 DMSCU-3<br>19 DMSCU-3<br>21 DMS-10 CONDENSATION PUMP<br>23 IT RACK<br>27 Receptacles TELEPHONE-2 E210-2<br>29 SPARE<br>31 SPARE<br>33 SPARE<br>35 SPARE<br>39 SPARE                                                                                                                                                                                                                                                                                                                                                                                                   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LOCK-ON I         8 Wye         kVA         C       Br=ker         1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1       <                                 
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| RIFY LOAD SERVED, INTERCEPT AND EXTEND CIR<br>NNECT PRESERVED LOAD TO NEW PANEL<br>Branch Panel: 2DLE<br>Location: ELEC-2 2609-2<br>Supply From: 2DTE<br>Mounting: Surface<br>CKT Circuit Description<br>1 CORRIDOR EGRESS LIGHTING<br>3 TTB<br>5 AMPLIFIER<br>7 FIRE SMOKE DAMPER<br>9 4 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>11 DMSCU-10<br>17 DMSCU-3<br>21 DMS-10 CONDENSATION PUMP<br>23<br>25 IT RACK<br>27 Receptacles TELEPHONE-2 E210-2<br>29 SPARE<br>33 SPARE<br>33 SPARE<br>35 SPARE<br>37 SPARE<br>39 SPARE<br>41 SPARE                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | G - PROVIDE GFCI         LF - PROVIDE PER         LO - PROVIDE PER         LO - PROVIDE PER         Wires: 120/208 V         Phases: 3         Wires: 4         Phase in kV         A       B         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0<                                                                                                                                                                                                                                          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Rating: 10,000         Enclosure: Type 1         Mains: 100A MCB         Mains: 100A MCB         Mains: 100A MCB         Mains: 100A MCB         E)         MALL EGRESS LIGHTING         E)       TTB         E)       FA REMOTE POWER         E)       FIRE SMOKE DAMPERS         E)       DDC CONTROLLER         E)       SPACE        </td><td>CKT         Note           2         1           4         1           6         1           8         1           10         1           12         1           14         1           16         1           22         1           24         1           22         1           24         1           26         1           30            32            34            36            38        </td><td>PROVIDI         1 - CONN         2 - VERIF         3 - VERIF         3 - VERIF         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO            1            1            1            1            1                                                                     1                                   <td>IECT PRESERVED LOAD TO NEW PANEL<br/>Y LOAD SERVED, INTERCEPT AND EXTEN<br/>Y LOAD SERVED, INTERCEPT AND EXTEN<br/>INTERCEPT AND EXTENNE<br/>Location: CENTRAL F<br/>Supply From:<br/>Mounting: Surface<br/>T Circuit Description<br/>FIRE SMOKE DAMPER<br/>FA REMOTE POWER<br/>DMS-15 CONDENSATE PUMP<br/>ACP<br/>Receptacles OFFICE
H101<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE</td><td>D CIRCUIT FROM PANE</td><td>G - PROVIDE GF<br/>LF - PROVIDE P<br/>LO - PROVIDE P<br/>LO - PROVIDE P<br/>LO - PROVIDE P<br/>Nase: 3<br/>Wires: 4<br/>Phase in<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.0 / 0.0</td><td>C       Breaker         08 Wye       I         kVA       I         C       Breaker         1          0.0 / 0.0       1         1          0.0 / 0.0       1         1          1          1          1          1          1          1          1          1          1          1          1          1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1</td><td>AI.C. Rating: 10<br/>EVICE<br/>AI.C. Rating: 10<br/>Enclosure: Ty<br/>Mains: 40<br/>Wire<br/>Circuit E<br/> SPACE<br/> SPACE</td><td>0,000<br/>ype 1<br/>00A<br/>Description</td><td>CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40</td></td></t<> | EVICE         WICE         NEW F         A.I.C. Rating: 10,000         Enclosure: Type 1         Mains: 100A MCB         Mains: 100A MCB         Mains: 100A MCB         Mains: 100A MCB         E)         MALL EGRESS LIGHTING         E)       TTB         E)       FA REMOTE POWER         E)       FIRE SMOKE DAMPERS         E)       DDC CONTROLLER         E)       SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CKT         Note           2         1           4         1           6         1           8         1           10         1           12         1           14         1           16         1           22         1           24         1           22         1           24         1           26         1           30            32            34            36            38 | PROVIDI         1 - CONN         2 - VERIF         3 - VERIF         3 - VERIF         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO            1            1            1            1            1                                                                     1 <td>IECT PRESERVED LOAD TO NEW PANEL<br/>Y LOAD SERVED, INTERCEPT AND EXTEN<br/>Y LOAD SERVED, INTERCEPT AND EXTEN<br/>INTERCEPT AND EXTENNE<br/>Location: CENTRAL F<br/>Supply From:<br/>Mounting: Surface<br/>T Circuit Description<br/>FIRE SMOKE DAMPER<br/>FA REMOTE POWER<br/>DMS-15 CONDENSATE PUMP<br/>ACP<br/>Receptacles OFFICE H101<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE</td> <td>D CIRCUIT FROM PANE</td> <td>G - PROVIDE GF<br/>LF - PROVIDE P<br/>LO - PROVIDE P<br/>LO - PROVIDE P<br/>LO - PROVIDE P<br/>Nase: 3<br/>Wires: 4<br/>Phase in<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.0 / 0.0</td> <td>C       Breaker         08 Wye       I         kVA       I         C       Breaker         1          0.0 / 0.0       1
        1          0.0 / 0.0       1         1          1          1          1          1          1          1          1          1          1          1          1          1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1</td> <td>AI.C. Rating: 10<br/>EVICE<br/>AI.C. Rating: 10<br/>Enclosure: Ty<br/>Mains: 40<br/>Wire<br/>Circuit E<br/> SPACE<br/> SPACE</td> <td>0,000<br/>ype 1<br/>00A<br/>Description</td> <td>CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IECT PRESERVED LOAD TO NEW PANEL<br>Y LOAD SERVED, INTERCEPT AND EXTEN<br>Y LOAD SERVED, INTERCEPT AND EXTEN<br>INTERCEPT AND EXTENNE<br>Location: CENTRAL F<br>Supply From:<br>Mounting: Surface<br>T Circuit Description<br>FIRE SMOKE DAMPER<br>FA REMOTE POWER<br>DMS-15 CONDENSATE PUMP<br>ACP<br>Receptacles OFFICE H101<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE           | D CIRCUIT FROM PANE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | G - PROVIDE GF<br>LF - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>Nase: 3<br>Wires: 4<br>Phase in<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.0 / 0.0       | C       Breaker         08 Wye       I         kVA       I         C       Breaker         1          0.0 / 0.0       1         1          0.0 / 0.0       1         1          1          1          1          1          1          1          1          1          1          1          1          1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AI.C. Rating: 10<br>EVICE<br>AI.C. Rating: 10<br>Enclosure: Ty<br>Mains: 40<br>Wire<br>Circuit E<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0,000<br>ype 1<br>00A<br>Description                                                                                 | CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40 |
| RIFY LOAD SERVED, INTERCEPT AND EXTEND CIR<br>NNECT PRESERVED LOAD TO NEW PANEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Wire       Breaker         (E)       20       1       0.1         (E)       20       1       1.1         (E)       20       1       1.1         #8       30       2       1.1         #8       30       2       1.1         #8       30       2       1.1         #8       30       2       1.1         #8       30       2       1.1         #10       20       1       1.1         #110       20       1       1.1         #12       20       1       1.1         #12       20       1       1.1         #10       20       1       1.1         #10       20       1       1.1         #10       20       1       1.1          20       1       1.1          20 <td>G - PROVIDE GFCI<br/>LF - PROVIDE PER<br/>LO - PROVIDE PER<br/>LO - PROVIDE PER         Volts: 120/208 V         Phases: 3         Wires: 4         Phases: 3         Wires: 4         Phase in kV         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 1.6         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0<!--</td--><td>MANENT LOCK-OFF DI<br/>MANENT LOCK-ON DE<br/>MANENT LOCK-ON DE<br/>Marker W<br/>C Breaker W<br/>1 20 (1<br/>1 20 (1<br/>1 20 (1<br/>0.0 / 0.0 1 20 (1<br/>1 20 (1<br/>0.0 / 0.0 1 20 (1<br/>1 20</td><td>EVICE  EVICE  VICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EV</td><td>CKT         Note           2         1           4         1           6         1           8         1           10         1           12         1           14         1           16         1           22         1           24         1           22         1           24         1           26         1           30            32            34            36            38        </td><td>PROVIDI         1 - CONN         2 - VERIF         3 - VERIF         3 - VERIF         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO                                                                  1                                       1                                </td><td>IECT PRESERVED LOAD TO NEW PANEL<br/>Y LOAD SERVED, INTERCEPT AND EXTEN<br/>Y LOAD SERVED, INTERCEPT AND EXTEN<br/>I LOAD SERVED, INTERCEPT AND EXTEN<br/>Location: CENTRAL F<br/>Supply From:<br/>Mounting: Surface<br/>T Circuit Description<br/>FIRE SMOKE DAMPER<br/>FA REMOTE POWER<br/>DMS-15 CONDENSATE PUMP<br/>ACP<br/>Receptacles
OFFICE H101<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>S</td><td>D CIRCUIT FROM PANE</td><td>G - PROVIDE GF<br/>LF - PROVIDE P<br/>LO - PROVIDE P<br/>P<br/>Pases: 3<br/>Wires: 4<br/>Phase in<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.0 / 0.0</td><td>C       Breaker         kVA       1         C       Breaker         1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       3       30         0.0 / 0.0       0          0.0       0          0.0       0          0.0       0      &lt;</td><td>A.I.C. Rating: 10<br/>Evice<br/>A.I.C. Rating: 10<br/>Enclosure: Ty<br/>Mains: 40<br/>Wire Circuit E<br/> SPACE<br/> SPACE</td><td>0,000<br/>ype 1<br/>00A<br/>Description</td><td>CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40</td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | G - PROVIDE GFCI<br>LF - PROVIDE PER<br>LO - PROVIDE PER<br>LO - PROVIDE PER         Volts: 120/208 V         Phases: 3         Wires: 4         Phases: 3         Wires: 4         Phase in kV         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 1.6         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0 </td <td>MANENT LOCK-OFF DI<br/>MANENT LOCK-ON DE<br/>MANENT LOCK-ON DE<br/>Marker W<br/>C Breaker W<br/>1 20 (1<br/>1 20 (1<br/>1 20 (1<br/>0.0 / 0.0 1 20 (1<br/>1 20 (1<br/>0.0 / 0.0 1 20 (1<br/>1 20</td> <td>EVICE  EVICE  VICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EVICE EV</td> <td>CKT         Note           2         1           4         1           6         1           8         1           10         1           12         1           14         1           16         1           22         1           24         1           22         1           24         1           26         1           30            32            34            36            38        </td> <td>PROVIDI         1 - CONN         2 - VERIF         3 - VERIF         3 - VERIF         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO                                                                  1                                       1                                </td> <td>IECT PRESERVED LOAD TO NEW PANEL<br/>Y LOAD SERVED, INTERCEPT AND EXTEN<br/>Y LOAD SERVED, INTERCEPT AND EXTEN<br/>I LOAD SERVED, INTERCEPT AND EXTEN<br/>Location: CENTRAL F<br/>Supply From:<br/>Mounting: Surface<br/>T Circuit Description<br/>FIRE SMOKE DAMPER<br/>FA REMOTE POWER<br/>DMS-15 CONDENSATE PUMP<br/>ACP<br/>Receptacles OFFICE H101<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>S</td> <td>D CIRCUIT FROM PANE</td> <td>G - PROVIDE GF<br/>LF - PROVIDE P<br/>LO - PROVIDE P<br/>P<br/>Pases: 3<br/>Wires: 4<br/>Phase in<br/>0.5 /
0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.0 / 0.0</td> <td>C       Breaker         kVA       1         C       Breaker         1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       3       30         0.0 / 0.0       0          0.0       0          0.0       0          0.0       0      &lt;</td> <td>A.I.C. Rating: 10<br/>Evice<br/>A.I.C. Rating: 10<br/>Enclosure: Ty<br/>Mains: 40<br/>Wire Circuit E<br/> SPACE<br/> SPACE</td> <td>0,000<br/>ype 1<br/>00A<br/>Description</td> <td>CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MANENT LOCK-OFF DI<br>MANENT LOCK-ON DE<br>MANENT LOCK-ON DE<br>Marker W<br>C Breaker W<br>1 20 (1<br>1 20 (1<br>1 20 (1<br>0.0 / 0.0 1 20 (1<br>1 20 (1<br>0.0 / 0.0 1 20 (1<br>1 20                                                                                                                                                                                                                                                                                                                                                                   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       26         1           30            32            34            36            38 | PROVIDI         1 - CONN         2 - VERIF         3 - VERIF         3 - VERIF         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO                                                                  1                                       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IECT PRESERVED LOAD TO NEW PANEL<br>Y LOAD SERVED, INTERCEPT AND EXTEN<br>Y LOAD SERVED, INTERCEPT AND EXTEN<br>I LOAD SERVED, INTERCEPT AND EXTEN<br>Location: CENTRAL F<br>Supply From:<br>Mounting: Surface<br>T Circuit Description<br>FIRE SMOKE DAMPER<br>FA REMOTE POWER<br>DMS-15 CONDENSATE PUMP<br>ACP<br>Receptacles OFFICE H101<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>S           | D CIRCUIT FROM PANE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | G - PROVIDE GF<br>LF - PROVIDE P<br>LO - PROVIDE P<br>P<br>Pases: 3<br>Wires: 4<br>Phase in<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.0 / 0.0                              | C       Breaker         kVA       1         C       Breaker         1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       3       30         0.0 / 0.0       0          0.0       0          0.0       0          0.0       0      <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A.I.C. Rating: 10<br>Evice<br>A.I.C. Rating: 10<br>Enclosure: Ty<br>Mains: 40<br>Wire Circuit E<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,000<br>ype 1<br>00A<br>Description                                                                                 | CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40 |
| RIFY LOAD SERVED, INTERCEPT AND EXTEND CIR<br>NNECT PRESERVED LOAD TO NEW PANEL<br>Branch Panel: 2DLE<br>Location: ELEC-2 2609-2<br>Supply From: 2DTE<br>Mounting: Surface<br>CKT Circuit Description<br>1 CORRIDOR EGRESS LIGHTING<br>3 TTB<br>5 AMPLIFIER<br>7 FIRE SMOKE DAMPER<br>9 4 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>13 DMSCU-10<br>15<br>10 MSCU-3<br>21 DMSCU-3<br>21 DMSCU-3<br>21 DMSCU-3<br>21 DMSCU-3<br>21 DMSCU-3<br>21 DMSCU-3<br>21 DMSCU-3<br>23 IT RACK<br>25 IT RACK<br>26 IT RACK<br>27 Receptacles TELEPHONE-2 E210-2<br>29 SPARE<br>31 SPARE<br>33 SPARE<br>33 SPARE<br>34 SPARE<br>35 SPARE<br>36 SPARE<br>37 SPARE<br>39 SPARE<br>39 SPARE<br>30 SPARE<br>31 SPARE<br>30 SPARE<br>31 SPARE<br>32 SPARE<br>33 SPARE<br>34 SPARE<br>35 SPARE<br>36 SPARE<br>37 SPARE<br>39 SPARE<br>30 SPARE<br>31 SPARE<br>31 SPARE<br>32 SPARE<br>33 SPARE<br>34 SPARE<br>35 SPARE<br>36 SPARE<br>37 SPARE<br>39 SPARE<br>30 SPARE<br>30 SPARE<br>30 SPARE<br>31 SPARE<br>32 SPARE<br>33 SPARE<br>34 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PER         LO - PROVIDE PER         LO - PROVIDE PER         North State         Phases: 3         Wires: 4         Phase in KV         A         B         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MANENT LOCK-OFF DI<br>MANENT LOCK-ON DE<br>MANENT LOCK-ON DE<br>Mye<br>A<br>C Breaker W<br>1 20 (1<br>1 20 (1<br>0.0 / 0.0 1 20 (1<br>1 20 (1<br>0.0 / 0.0 1 20 (1<br>1 20 (1<br>0.0 / 0.0 1 20 (1<br>1 20 (                                                                                                                                                                                                                                                                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Rating: 10,000         Enclosure: Type 1         Mains: 100A MCB         Mains: 100A MCB         MALL EGRESS LIGHTING         E)         FA REMOTE POWER         E)         FIRE SMOKE DAMPERS         E)       DDC CONTROLLER         E)       SPACE         -       SPACE         -       SPACE         -       SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CKT         Note           2         1           4         1           6         1           8         1           10         1           12         1           14         1           16         1           22         1           24         1           22         1           24         1           26         1           30            32            34            36            38 | PROVIDI<br>1 - CONN<br>2 - VERIF<br>3 - VERIF<br>3 - VERIF<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,LO<br>1,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
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          | D CIRCUIT FROM PANE         A         Yire       Breaker         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1         #10       20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20                | $     \begin{array}{c}         G - PROVIDE GF         LF - PROVIDE P         LO - PROVI$                                                                                                                                                                           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| CRIFY LOAD SERVED, INTERCEPT AND EXTEND CIRDONNECT PRESERVED LOAD TO NEW PANEL         DATA SERVED LOAD TO NEW PANEL         Location: ELEC-2 2609-2         Supply From: 2DTE         Mounting: Surface         OKT         CKT         CIRCUID DESCRIPTION         1       CORRIDOR EGRESS LIGHTING         3       TTB         SAMPLIFIER         7       FIRE SMOKE DAMPER         9       A RECEPTACLES         11       2 RECEPTACLES         13       DMSCU-10         17       DMSCU-10         17       DMSCU-3         21       DMSCU-3         23       IT RACK         24       DMSE         33       SPARE         33       SPARE                                                                                                                                                                                                                                                                                                                                                                                         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Rating: 10,000         Enclosure: Type 1         Mains: 100A MCB         Mains: 100A MCB         MALL EGRESS LIGHTING         E)         FIRE SMOKE DAMPERS         E)       DDC CONTROLLER         E)       SPACE         -       SPACE         -       SPACE         -       SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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PANEL<br>Y LOAD SERVED, INTERCEPT AND EXTEN<br>Y LOAD SERVED, INTERCEPT AND EXTEN<br>I LOAD SERVED, INTERCEPT AND EXTEN<br>Location: CENTRAL F<br>Supply From:<br>Mounting: Surface<br>T Circuit Description<br>FIRE SMOKE DAMPER<br>FA REMOTE POWER<br>DMS-15 CONDENSATE PUMP<br>ACP<br>Receptacles OFFICE H101<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>S           | D CIRCUIT FROM PANE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | G - PROVIDE GF<br>LF - PROVIDE P<br>LO - PROVIDE P<br>P<br>Pases: 3<br>Wires: 4<br>Phase in<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.0 / 0.0                              | C       Breaker         kVA       1         C       Breaker         1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       3       30         0.0 / 0.0       0          0.0       0          0.0       0          0.0       0      <                                                                                                                                                                                                                                                                                                                                                                              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Rating: 10<br>Enclosure: Ty<br>Mains: 40<br>Wire Circuit I<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE                                                                                                                                                                                                                                             
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| VERIFY LOAD SERVED, INTERCEPT AND EXTEND CIR<br>CONNECT PRESERVED LOAD TO NEW PANEL<br>Branch Panel: 2DLE<br>Location: ELEC-2 2609-2<br>Supply From: 2DTE<br>Mounting: Surface<br>e CKT Circuit Description<br>1 CORRIDOR EGRESS LIGHTING<br>3 TTB<br>5 AMPLIFIER<br>0 7 FIRE SMOKE DAMPER<br>9 4 RECEPTACLES<br>11 2 RECEPTACLES<br>11 2 RECEPTACLES<br>13 DMSCU-10<br>17 DMSCU-3<br>21 DMS-10 CONDENSATION PUMP<br>23 IT RACK<br>27 Receptacles TELEPHONE-2 E210-2<br>29 SPARE<br>31 SPARE<br>33 SPARE<br>35 SPARE<br>37 SPARE<br>39 SPARE<br>39 SPARE<br>31 SPARE<br>39 SPARE<br>31 SPARE<br>39 SPARE<br>30 SPARE<br>30 SPARE<br>30 SPARE<br>31 SPARE<br>32 MARE<br>33 SPARE<br>34 Classification<br>AC<br>cellaneous<br>septacles                                                                                                                                                                                                                                                                                                  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              | G - PROVIDE GFCI         LF - PROVIDE PER         LO - PROVIDE PER         LO - PROVIDE PER         Wires: 120/208 \         Phases: 3         Wires: 4         Phase in kV         A       B         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0<                           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Rating: 10,000         Enclosure: Type 1         Mains: 100A MCB         Mains: 100A MCB         MALL EGRESS LIGHTING         E)       FA REMOTE POWER         E)       FIRE SMOKE DAMPERS         E)       DDC CONTROLLER         E)       SPACE         SPACE       SPACE         SPACE       SPACE         SPACE       SPACE         SPACE       SPACE         SPACE       SPACE         SPACE       SPACE         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CKT         Note           2         1           4         1           6         1           8         1           10         1           12         1           14         1           16         1           22         1           24         1           22         1           24         1           26         1           30            32            34            36            38 | PROVIDI         1 - CONN         2 - VERIF         3 - VERIF         3 - VERIF         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO            1            1            1            1            1            1            1            1            1            1            1            1            1            1            1            2            2            2            1            1 <td>IECT PRESERVED LOAD TO NEW PANEL<br/>Y LOAD SERVED, INTERCEPT AND EXTEN<br/>Y LOAD SERVED, INTERCEPT AND EXTEN<br/>I LOAD SERVED, INTERCEPT AND EXTEN<br/>Location: CENTRAL F<br/>Supply From:<br/>Mounting: Surface<br/>T Circuit Description<br/>FIRE SMOKE DAMPER<br/>FA REMOTE POWER<br/>DMS-15 CONDENSATE PUMP<br/>ACP<br/>Receptacles OFFICE H101<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>S</td> <td>D CIRCUIT FROM PANE</td> <td>G - PROVIDE GF<br/>LF - PROVIDE P<br/>LO - PROVIDE P<br/>LO - PROVIDE P<br/>LO - PROVIDE P<br/>Nase in<br/>Volts: 120/20<br/>Phases: 3<br/>Wires: 4<br/>Phase in<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.0 / 0.0<br/>100.0 / 0.0<br/>0.0 /</td> <td>C       Breaker         kVA       1         C       Breaker         1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       3       30         0.0 / 0.0       0          0.0       0          0.0       0          0.0       0      &lt;</td> <td>AI.C. Rating: 10<br/>Evice<br/>AI.C. Rating: 10<br/>Enclosure: Ty<br/>Mains: 40<br/>Wire Circuit I<br/> SPACE<br/> SP</td> <td>0,000<br/>ype 1<br/>00A<br/>Description<br/>Panel Totals<br/>Load: 1.5 kVA<br/>nand: 1.5 kVA<br/>irrent: 4 A</td> <td>CKT           2           4           6           8           10           12           14           16           22           24           26           28           30           32           34           36           38           40</td> | IECT PRESERVED LOAD TO NEW PANEL<br>Y LOAD SERVED, INTERCEPT AND EXTEN<br>Y LOAD SERVED, INTERCEPT AND EXTEN<br>I LOAD SERVED, INTERCEPT AND EXTEN<br>Location: CENTRAL F<br>Supply From:<br>Mounting: Surface<br>T Circuit Description<br>FIRE SMOKE DAMPER<br>FA REMOTE POWER<br>DMS-15 CONDENSATE PUMP<br>ACP<br>Receptacles OFFICE
H101<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>S           | D CIRCUIT FROM PANE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | G - PROVIDE GF<br>LF - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>Nase in<br>Volts: 120/20<br>Phases: 3<br>Wires: 4<br>Phase in<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.0 / 0.0<br>100.0 / 0.0<br>0.0 /     | C       Breaker         kVA       1         C       Breaker         1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       3       30         0.0 / 0.0       0          0.0       0          0.0       0          0.0       0      <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AI.C. Rating: 10<br>Evice<br>AI.C. Rating: 10<br>Enclosure: Ty<br>Mains: 40<br>Wire Circuit I<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SP | 0,000<br>ype 1<br>00A<br>Description<br>Panel Totals<br>Load: 1.5 kVA<br>nand: 1.5 kVA<br>irrent: 4 A                | CKT           2           4           6           8           10           12           14           16           22           24           26           28           30           32           34           36           38           40                           |
| Location: ELEC-2 2609-2         Supply From: 2DTE         Mounting: Surface         te       CKT       Circuit Description         1       CORRIDOR EGRESS LIGHTING         3       TTB         5       AMPLIFIER         0       7       FIRE SMOKE DAMPER         9       4 RECEPTACLES         11       2 RECEPTACLES         13       DMSCU-10         15       DMSCU-3         19       21         21       DMSCU-3         225       IT RACK         23       IT RACK         24       SPARE         33       SPARE         33       SPARE         33       SPARE         33       SPARE         33       SPARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Wire       Breaker         (E)       20       1 $0.1$ (E)       20       1 $1.1$ #8       30       2 $1.1$ #10       20       1 $1.1$ #10       20       1 $1.1$ #110       20       1 $1.1$ #110       20       1 $1.1$ #112       20       1 $1.1$ #12       20       1 $1.1$ $       20       1       0.1        20       1       0.1        20       1       0.1        20       1       0.1 $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | G - PROVIDE GFCI         LF - PROVIDE PER         LO - PROVIDE PER         LO - PROVIDE PER         Wires: 120/208 \         Phases: 3         Wires: 4         Phase in KV         A       B         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0         0 / 0.0       0.0 / 0.0<                           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Rating: 10,000         Enclosure: Type 1         Mains: 100A MCB         Mains: 100A MCB         MALL EGRESS LIGHTING         E)       FA REMOTE POWER         E)       FIRE SMOKE DAMPERS         E)       DDC CONTROLLER         E)       SPACE         SPACE       SPACE         SPACE       SPACE         SPACE       SPACE         SPACE       SPACE         SPACE       SPACE         SPACE       SPACE         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                                   | IECT PRESERVED LOAD TO NEW PANEL Y LOAD SERVED, INTERCEPT AND EXTEN Y LOAD SERVED, INTERCEPT AND EXTEN  I LOCATION: CENTRAL F Supply From: Mounting: Surface  T Circuit Description FIRE SMOKE DAMPER FA REMOTE POWER DMS-15 CONDENSATE PUMP ACP Receptacles OFFICE H101 SPARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | D CIRCUIT FROM PANE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | G - PROVIDE GF<br>LF - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>Nase in<br>Volts: 120/20<br>Phases: 3<br>Wires: 4<br>Phase in<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.1 / 0.0<br>0.0 / 0     | C       Breaker         kVA       1         C       Breaker         1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       1          0.0 / 0.0       3       30         0.0 / 0.0       0          0.0       0          0.0       0          0.0       0      <                                                                                                                                                                                                             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Rating: 10<br>Enclosure: Ty<br>Mains: 40<br>Wire Circuit I<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SP | 0,000<br>ype
1<br>00A<br>Description<br>Panel Totals<br>Load: 1.5 kVA<br>nand: 1.5 kVA<br>irrent: 4 A                | CKT       I         2       4         6       8         10       12         14       16         18       20         22       24         26       28         30       32         34       36         38       40                                                     |
| VERIFY LOAD SERVED, INTERCEPT AND EXTEND CIR<br>CONNECT PRESERVED LOAD TO NEW PANEL           Branch Panel: 2DLE           Location: ELEC-2 2609-2           Supply From: 2DTE           Mounting: Surface           te         CKT           CORRIDOR EGRESS LIGHTING           3         TTB           5         AMPLIFIER           0         7           9         4 RECEPTACLES           11         2 RECEPTACLES           13         DMSCU-10           17         DMSCU-3           21         DMSCU-3           23         IT RACK           24         SPARE           33         SPARE           34         SPARE           35         SPARE           36         SPARE           37         SPARE           39         SPARE           31         SPARE           33         SPARE           34         SPARE           35         SPARE           36         SPARE           37         SPARE           38         SPARE           39         SPARE           30         SPARE           31         SPARE <td>Wire       Breaker         (E)       20       1       <math>0.1</math>         (E)       20       1       <math>1.1</math>         #8       30       2       <math>1.1</math>         #10       20       1       <math>1.1</math>         #10       20       1       <math>1.1</math>         #110       20       1       <math>1.1</math>         #110       20       1       <math>1.1</math>         #112       20       1       <math>1.1</math>         #12       20       1       <math>1.1</math> <math>       20       1       <math>0.1</math> <math>       20       1       <math>0.1</math> <math>       20       1       <math>0.1</math> <math>       20       1       <math>0.1</math> </math></math></math></math></td> <td>G - PROVIDE GFCI         LF - PROVIDE PER         LO - PROVIDE PER         LO - PROVIDE PER         Wires: 120/208 N         Phases: 3         Wires: 4         Phases: 3         Wires: 4         Phase in KV         A         B         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         0 / 0.0         <t< td=""><td>MANENT LOCK-OFF DI<br/>MANENT LOCK-ON DE<br/>MANENT LOCK-ON DE<br/>Mye<br/>A<br/>C Breaker W<br/>1 20 (<br/>1 20 (<br/>0.0 / 0.0 1 20 (<br/>1 20 (<br/>0.0 / 0.0 1 20 (<br/>1 20 (</td><td>EVICE  EVICE  EVICE</td><td>CKT         Note           2         1           4         1           6         1           8         1           10         1           12         1           14         1           16         1           22         1           24         1           22         1           24         1           26         1           30            32            34            36            38        </td><td>PROVIDI         1 - CONN         2 - VERIF         3 - VERIF         3 - VERIF         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO            1            1            1            1            1            1            1            1            1            1            2            2            2            2            1            2            2            2            1         Kotes:         1        </td><td>IECT PRESERVED LOAD TO NEW PANEL Y LOAD SERVED, INTERCEPT AND EXTEN Y LOAD SERVED, INTERCEPT AND EXTEN Y LOAD SERVED, INTERCEPT AND EXTEN  I Location: CENTRAL F Supply From: Mounting: Surface  T Circuit Description FIRE SMOKE DAMPER FA REMOTE POWER DMS-15 CONDENSATE PUMP ACP Receptacles OFFICE H101 SPARE /td><td>D CIRCUIT FROM PANE</td><td>G - PROVIDE GF<br/>L'1CLE'<br/>L'1CLE'<br/>L'1CLE'<br/>Contemporation<br/>LF - PROVIDE P<br/>LO - PROVIDE P<br/>LO - PROVIDE P<br/>LO - PROVIDE P<br/>LO - PROVIDE P<br/>Note in<br/>Phase in<br/>Volts: 120/20<br/>Phases: 3<br/>Wires: 4<br/>Phase in<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.5 / 0.0<br/>0.0 /td><td>ERMANENT LOCK-OFF<br/>ERMANENT LOCK-ON I<br/>ERMANENT LOCK-ON I<br/>8 Wye<br/><b>kVA</b><br/><b>kVA</b><br/><b>kVA</b><br/><b>kVA</b><br/><b>k</b><br/><b>k</b><br/><b>k</b><br/><b>k</b><br/><b>k</b><br/><b>k</b><br/><b>k</b><br/><b>k</b></td><td>AI.C. Rating: 10<br/>Enclosure: Ty<br/>Mains: 40<br/>Wire Circuit I<br/> SPACE<br/> </td><td>0,000<br/>ype 1<br/>00A<br/>Description<br/>Panel Totals<br/>Load: 1.5 kVA<br/>nand: 1.5 kVA<br/>irrent: 4 A</td><td>CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40</td></t<></td> | Wire       Breaker         (E)       20       1 $0.1$ (E)       20       1 $1.1$ #8       30       2 $1.1$ #10       20       1 $1.1$ #10       20       1 $1.1$ #110       20       1 $1.1$ #110       20       1 $1.1$ #112       20       1 $1.1$ #12       20       1 $1.1$ $       20       1       0.1        20       1       0.1        20       1       0.1        20       1       0.1 $                                                                                                                                      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DE<br/>Mye<br/>A<br/>C Breaker W<br/>1 20 (<br/>1 20 (<br/>0.0 / 0.0 1 20 (<br/>1 20 (<br/>0.0 / 0.0 1 20 (<br/>1 20 (</td><td>EVICE  EVICE  EVICE</td><td>CKT         Note           2         1           4         1           6         1           8         1           10         1           12         1           14         1           16         1           22         1           24         1           22         1           24         1           26         1           30            32            34            36            38        </td><td>PROVIDI         1 - CONN         2 - VERIF         3 - VERIF         3 - VERIF         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO            1            1            1            1            1            1            1            1            1            1            2            2            2            2            1            2            2            2            1         Kotes:     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Rating: 10<br/>Enclosure: Ty<br/>Mains: 40<br/>Wire Circuit I<br/> SPACE<br/> </td><td>0,000<br/>ype 1<br/>00A<br/>Description<br/>Panel Totals<br/>Load: 1.5 kVA<br/>nand: 1.5 kVA<br/>irrent: 4 A</td><td>CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40</td></t<>                                                                                                                                                                                                                                                                                                                                                                    | MANENT LOCK-OFF DI<br>MANENT LOCK-ON DE<br>MANENT LOCK-ON DE<br>Mye<br>A<br>C Breaker W<br>1 20 (<br>1 20 (<br>0.0 / 0.0 1 20 (<br>1 20 (<br>0.0 / 0.0 1 20 (<br>1 20 (   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     38 | PROVIDI         1 - CONN         2 - VERIF         3 - VERIF         3 - VERIF         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO            1            1            1            1            1            1            1            1            1            1            2            2            2            2            1            2            2            2            1         Kotes:         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                                                                           | D CIRCUIT FROM PANE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | G - PROVIDE GF<br>L'1CLE'<br>L'1CLE'<br>L'1CLE'<br>Contemporation<br>LF - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>Note in<br>Phase in<br>Volts: 120/20<br>Phases: 3<br>Wires: 4<br>Phase in<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.0      | ERMANENT LOCK-OFF<br>ERMANENT LOCK-ON I<br>ERMANENT LOCK-ON I<br>8 Wye<br><b>kVA</b><br><b>kVA</b><br><b>kVA</b><br><b>kVA</b><br><b>k</b><br><b>k</b><br><b>k</b><br><b>k</b><br><b>k</b><br><b>k</b><br><b>k</b><br><b>k</b>                                                                                                                                                                                                                                                                                                                                                                                                                                               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Rating: 10<br/>Enclosure: Ty<br/>Mains: 40<br/>Wire Circuit I<br/> SPACE<br/> </td><td>0,000<br/>ype 1<br/>00A<br/>Description<br/>Panel Totals<br/>Load: 1.5 kVA<br/>nand: 1.5 kVA<br/>irrent: 4 A</td><td>CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40</td></t<> | MANENT LOCK-OFF DI<br>MANENT LOCK-ON DE<br>MANENT LOCK-ON DE<br>Mye<br>A<br>C Breaker W<br>1 20 (<br>1 20 (<br>0.0 / 0.0 1 20 (<br>1 20 (<br>0.0 / 0.0 1 20 (<br>1 20 (                                                                                                                                                                                                                                                                                                                                                                      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Rating: 10<br/>Enclosure: Ty<br/>Mains: 40<br/>Wire Circuit I<br/> SPACE<br/> </td><td>0,000<br/>ype 1<br/>00A<br/>Description<br/>Panel Totals<br/>Load: 1.5 kVA<br/>nand: 1.5 kVA<br/>irrent: 4 A</td><td>CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40</td></t<>                                                                                                                                                                                                                                                                                                                                                                   | MANENT LOCK-OFF DI<br>MANENT LOCK-ON DE<br>MANENT LOCK-ON DE<br>Mye<br>A<br>C Breaker W<br>1 20 (<br>1 20 (<br>0.0 / 0.0 1 20 (<br>1 20 (<br>0.0 / 0.0 1 20 (<br>1 20 (    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PROVIDE GF<br>L'1CLE'<br>L'1CLE'<br>L'1CLE'<br>Contemporation<br>LF - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>LO - PROVIDE P<br>Note in<br>Phase in<br>Volts: 120/20<br>Phases: 3<br>Wires: 4<br>Phase in<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.0      | ERMANENT LOCK-OFF<br>ERMANENT LOCK-ON I<br>ERMANENT LOCK-ON I<br>8 Wye<br><b>kVA</b><br><b>kVA</b><br><b>kVA</b><br><b>kVA</b><br><b>k</b><br><b>k</b><br><b>k</b><br><b>k</b><br><b>k</b><br><b>k</b><br><b>k</b><br><b>k</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AI.C. Rating: 10<br>Enclosure: Ty<br>Mains: 40<br>Wire Circuit I<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE<br>-    | 0,000<br>ype 1<br>00A<br>Description<br>Panel Totals<br>Load: 1.5 kVA<br>nand: 1.5 kVA<br>irrent: 4 A                | CKT           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40 |
| VERIFY LOAD SERVED, INTERCEPT AND EXTEND CIR<br>CONNECT PRESERVED LOAD TO NEW PANEL  BEACTOR PARENCE LOCATION NEW PANEL  Location: ELEC-2 2609-2 Supply From: 2DTE Mounting: Surface  Control Concentry from 2017 Mounting: Surface  Control Concentry from 2017 Concentry from 2017 Concentry from 2017 Concentry from 2017 DMSCU-10  Control Contensation PUMP  Control Contensation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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   -         24       -         26       -         30          32          34          36          38       40         42       -                                     | PROVIDI         1 - CONN         2 - VERIF         3 - VERIF         3 - VERIF         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         1,LO         2            1            1            1            1            1            1            1            1            1            1            2            2            1            1            1            2            1            1            1            1                                                                                                                                                                                                                                                                                                                                                                                                          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PROVIDE GF<br>L'1CLE'<br>L'2CLE'<br>Volts: 120/20<br>Phases: 3<br>Wires: 4<br>Phase in<br>Vires: 4<br>Phase in<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.5 / 0.0<br>0.0 / 0.0 | ERMANENT LOCK-OFF         ERMANENT LOCK-ON I         ERMANENT LOCK-ON I         I         I         KVA         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I <tdi< td="">         I</tdi<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A.I.C. Rating:   11   Enclosure:   Trical Construct   Mains:   40   Wire   Circuit I     SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0,000<br>ype 1<br>00A<br>Description<br>Panel Totals<br>Load: 1.5 kVA<br>mand: 1.5 kVA<br>irrent: 4 A<br>irrent: 4 A | CKT       I         2       4         6       8         10       12         14       16         18       20         24       26         28       30         32       34         36       38         40       42                                                     |

# **Salas O'Brien**, salasobrien.com 281-664-1900

Houston 10930 W. Sam Houston Pkwy North, Suite 900 Registration: F-4111 Project No: 2023-05942-00



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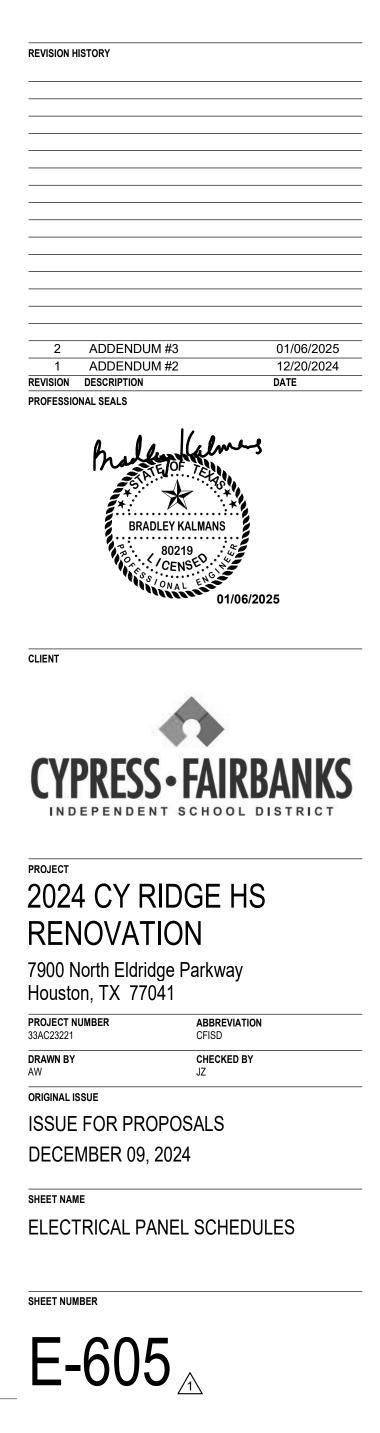
IN ASSOCIATION WITH: HarrisonKornberg ARCHITECTS Harrison Kornberg Architects 3800 Buffalo Speedway. Suite 550 Houston, TX 77098 pagethink.com TEL 713 229 0688 FAX 713 229 0692

CONSULTANT TEAM

STRUCTURAL ENGINEER Dally + Associates 9800 Richmond Avenue Suite 460 Houston, Texas 77042 713.337.8881

CIVIL ENGINEER Brooks & Sparks Inc. 21020 Park Row Dr. Katy, Texas 77449 281.578.9595

MEP & AV/THEATRICAL ENGINEER Salas O'Brien 10930 W Sam Houston Pkwy N Suite 900 Houston, TX 77064 281.664.1900



#### PANELBOARD CIRCUIT DIRECTORY:

NEC-2023: 408.4(A) FOR DETAILS.

\_\_\_\_\_

CONTRACTOR SHALL RECORD AND/OR PRESERVE THE EXISTING CIRCUIT DIRECTORY, IF ANY, FOR THE SOLE PURPOSE UPON COMPLETION OF NEW WORK OF PRODUCING A NEW DIRECTORY.

CONTRACTOR SHALL PROVIDE AS PART OF THE CONSTRUCTION DOCUMENTS A NEW, NEATLY TYPED DIRECTORY. CONTRACTOR SHALL TRACE EXISTING CIRCUITS AND SHALL LEGIBLY IDENTIFY AS TO IT'S CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE, LOADS SERVED, LOCATION AND/OR THE PANELBOARD SCHEDULE ON THE DRAWINGS. THE WORD "EXISTING" SHALL NOT BE USED ON PANELBOARD DIRECTORIES. SPARE BREAKERS ARE TO BE LISTED AS "SPARE" AND SWITCHED TO THE OFF POSITION. SPACES WITH NO BREAKERS ARE TO BE LEFT BLANK. REFER TO

CONTRACTOR SHALL PERMANENTLY LABEL AS PART OF THE CONSTRUCTION DOCUMENTS ALL SWITCHBOARDS, SWITCHGEAR AND PANELBOARDS TO INDICATE EACH POWER SOURCE. REFER TO NEC-2023: 408.4(A) FOR DETAILS.

**Notes:** NEW W 1 - PRC 2 - VER 3 - VER

Load C Miscell Recept



Houston 10930 W. Sam Houston Pkwy North, Suite 900 Houston, TX 77064 Registration: F-4111 Project No: 2023-05942-00

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Bran	nch Panel: 1CHE						EXISTIN	IG PANEL
	Location: ELEC 1253			7/480 Wye			ating: 18,000	
	Supply From: 1CDE Mounting: Surface		Phases: 3 Wires: 4				osure: Type 1 <b>//ains:</b> 400A	
	mounting. Sunace			e in kVA	I			I
Note CKT	Circuit Description	Wire Breaker	<b>A B</b> 0.0 / 0.0	С	Breaker Wire	00405	Circuit Description	CKT         Not           2
3 SPACE		1	0.0 / 0.0	D	1	SPACE		4
5 SPACE 7 SPACE		1	0.0 / 0.0	0.0 / 0.0	1 1			6 8
9 SPACE		1	0.0 / 0.0		1	SPACE		10
11 SPACE 13 SPACE		1	0.0 / 0.0	0.0 / 0.0	1 1	SPACE SPACE		12 14
15 SPACE		1	0.0 / 0.0		1	SPACE		16
17 SPACE 19 SPACE		1	0.0 / 0.0	0.0 / 0.0		SPACE SPACE		18
21 SPACE		1	0.0 / 0.0	0	<u>1</u> 1	SPACE		20 22
23 SPACE		1		0.0 / 0.0				24
25 SPACE 27 SPACE		1	0.0 / 0.0	0	3 30 #10			26 28 <b>1</b>
29 SPACE		1		0.0 / 0.0				30
31 SPACE		1	0.0 / 5.2					32
33         SPACE            35         SPACE		1	0.0 / 2.5	5 0.0 / 2.0	3 50 (E)			34
37			0.0 / 0.0					38
39 41		(E) 25 3	0.0 / 0.0	0.0 / 0.0	3 50 (E)	)  2BHE		20         28         1           30         32         34           36         38         40           42         42         40
		Total Load:	5.2 kVA 2.5 kVA					42
		Total Amps:	19 A 9 A	7 A				
Load Classification	l	Connected Load	Demand Factor		d Demand		Panel Totals	
Miscellaneous Recentacles		9.0 kVA 0.7 kVA	100.00% 100.00%		kVA kVA	T~**	Il Conn. Load: 9.7 kVA	
Receptacles		U.7 KVA	100.00%	0.7			Est. Demand: 9.7 kVA	
							Conn. Current: 12 A	
							mand Current: 12 A	
Notes: NEW WORK 1 - PROVIDE NEW B	BREAKER		LF - PROVIDE LO - PROVID	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L	OCK-OFF DEV			
	BREAKER		G - PROVIDE LF - PROVIDE	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L	OCK-OFF DEV			
	BREAKER		G - PROVIDE LF - PROVIDE LO - PROVID	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L	OCK-OFF DEV			
1 - PROVIDE NEW B	BREAKER		G - PROVIDE LF - PROVIDE LO - PROVID	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L	OCK-OFF DEV		EXISTIN	IG PANEL
1 - PROVIDE NEW B			G - PROVIDE LF - PROVIDE LO - PROVID	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE	OCK-OFF DEV	/ICE	EXISTIN ating: 10,000	IG PANEL
1 - PROVIDE NEW B	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE		G - PROVIDE LF - PROVIDE LO - PROVID 1L - REFER T Volts: 277 Phases: 3	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE	OCK-OFF DEV	/ICE A.I.C. R Enclo	ating: 10,000 osure: Type 1	IG PANEL
1 - PROVIDE NEW B	nch Panel: 1CPHE Location: ELECTRICAL F		G - PROVIDE LF - PROVIDE LO - PROVID 1L - REFER T Volts: 277 Phases: 3 Wires: 4	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE	OCK-OFF DEV	/ICE A.I.C. R Enclo	ating: 10,000	IG PANEL
1 - PROVIDE NEW B	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE		G - PROVIDE LF - PROVIDE LO - PROVID 1L - REFER T Volts: 277 Phases: 3 Wires: 4	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE	OCK-OFF DEV	/ICE A.I.C. R Enclo	ating: 10,000 osure: Type 1	IG PANEL
1 - PROVIDE NEW B	<b>nch Panel: 1CPHE</b> Location: ELECTRICAL F Supply From: 1CDE Mounting: Surface Circuit Description	ROOM 1966 Wire Breaker	G - PROVIDE LF - PROVIDE LO - PROVIDI 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase A B	E GFCI CIRCUIT B E PERMANENT L TO ONELINE 7/480 Wye e in kVA	OCK-OFF DEV	/ICE A.I.C. R Enclo N	ating: 10,000 osure: Type 1	CKT Not
1 - PROVIDE NEW B Bran Note CKT 2 1 SPARE 3	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE Mounting: Surface	Wire       Breaker          20       1	G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase A B 0.0 / 0.0	E GFCI CIRCUIT B E PERMANENT L TO ONELINE 7/480 Wye e in kVA C	OCK-OFF DEV LOCK-ON DEV Breaker Wird 1 20 1 20	/ICE A.I.C. R Enclo re SPARE SPARE	ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO	CKT Not 2 2 4
1 - PROVIDE NEW B Bran Note CKT 2 1 SPARE 3 5 EF-H-11	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE Mounting: Surface	Wire         Breaker            20         1           (E)         30         3	G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase A B 0.0 / 0.0 0.0 / 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye a in kVA C C 0 0.0 / 0.0	OCK-OFF DEV LOCK-ON DEV Breaker Wire 1 20 1 20 1 20	/ICE A.I.C. R Enclo M SPARE SPARE SPARE SPARE	ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO	CKT Not 2 2 4 6
1 - PROVIDE NEW B Bran Note CKT 2 1 SPARE 3 5 EF-H-11 7	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE Mounting: Surface	Wire       Breaker          20       1         (E)       30       3          20       1	G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE	OCK-OFF DEV LOCK-ON DEV ■ 20 1 20 1 20 1 20 1 20 1 20	/ICE A.I.C. R Enclo M SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO	CKT         Not           2         2           4            6            8
1 - PROVIDE NEW B         Image: Second system         Image: Second system         Note       CKT         Image: Second system	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE Mounting: Surface	ROOM 1966 Wire Breaker 20 1 (E) 30 3 20 1 20 1	G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase A B 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye e in kVA C 0 0 0.0 / 0.0	OCK-OFF DEV LOCK-ON DEV ■ 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 1	A.I.C. R Enclo SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO	CKT         Not           2         2           4            6            8            10            12
1 - PROVIDE NEW B         Image: state	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE Mounting: Surface	Wire       Breaker          20       1         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1	G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase A B 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye e in kVA C 0 0 0.0 / 0.0 0 0.0 / 0.0	OCK-OFF DEV LOCK-ON DEV ■ 1 20 1 20 1 20 1 20 1 20 1 20 1 1 1 1 1	A.I.C. R Enclo SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE	ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO	CKT         Not           2         2           4            6            8            10            12            14
I - PROVIDE NEW B         Bran         Bran         Note       CKT         2       1         2       1         3       5         5       EF-H-11         7           9       SPARE          11       SPARE          13       SPARE          13       SPARE         1,3       15       1871 UN          17       SPACE	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE Mounting: Surface	ROOM 1966 Wire Breaker 20 1 (E) 30 3 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 1	G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase A B 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0 0.0 / 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye e in kVA c 0 0 0.0 / 0.0 0 0.0 / 0.0 0 0 0.0 / 0.0	Breaker Wind 1 20 1 20 1 20 1 20 1 20 1	A.I.C. R A.I.C. R Enclo N SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO	CKT         Not           2         2           4            6            8            10            12            14            14            14            18
I - PROVIDE NEW B         I - PROVIDE NEW B         Bran         Note       CKT         2       1         2       1         3       5         5       EF-H-11         7          9       SPARE          11         13       SPARE         1,3       15         1871 UN          17         SPACE	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE Mounting: Surface	ROOM 1966 Wire Breaker 20 1 (E) 30 3 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 1	G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase 0.0 / 0.0 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye e in kVA c 0 0 0.0 / 0.0 0 0.0 / 0.0 0 0 0.0 / 0.0	Breaker Wire 1 20 1 20 1 20 1 20 1 20 1 	A.I.C. R A.I.C. R Enclo N SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO	CKT         Not           2         2           4            6            8            10            12            14            14            18            20
1 - PROVIDE NEW B         1 - PROVIDE NEW B         Bran         Note       CKT         2       1         2       1         5       EF-H-11         7           9         SPARE           11         SPARE          13         SPARE         1,3       15         15       1871 UN          10         SPACE	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE Mounting: Surface	Wire       Breaker          20       1         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1           1            1           1	G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase 0.0 / 0.0 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye e in kVA c 0 0 0.0 / 0.0 0 0.0 / 0.0 0 0 0.0 / 0.0	Breaker Wind 1 20 1 20 1 20 1 20 1 20 1	A.I.C. R A.I.C. R Enclo N SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO	CKT         Not           2         2           4            6            8            10            12            14            14            18            20            22            24
Note       CKT         2       1         2       1         5       EF-H-11         7          9       SPARE          11         9       SPARE          11         13       SPARE         1,3       15         1871 UN          17         5       EF-H-CE	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE Mounting: Surface	Wire       Breaker          20       1          20       1         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1           1           1           1	G - PROVIDE LF - PROVIDE LO - PROVIDE LO - PROVIDE LO - PROVIDE 11 - REFER T Volts: 277 Phases: 3 Wires: 4 Phase 0.0 / 0.0 0.0 / 0.	E GFCI CIRCUIT B E PERMANENT L FO ONELINE 7/480 Wye 2 in kVA C 0 0.0 / 0.0 0 0.0 / 0.0 0 0.0 / 0.0 0 0.0 / 0.0 0 0.0 / 0.0	OCK-OFF DEV         LOCK-ON DEVI         Breaker       Wird         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1 <tr td=""> <tr td=""> </tr></tr>	A.I.C. R A.I.C. R Enclo SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO	CKT         Not           2         2           4            6            8            10            12            14            14            18            20            22            24
Note         CKT           2         1           2         1           5         EF-H-11           7            9         SPARE            11           7            1.3         15           1.3         15           10         SPACE	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE Mounting: Surface	Wire       Breaker          20       1          20       1         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1       1          1       1          1       1          1       1          1       1          1       1           1           1           1           1           1	G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase 0.0 / 0.0 0.0	E GFCI CIRCUIT B E PERMANENT L FO ONELINE 7/480 Wye 2 in kVA C 0 0.0 / 0.0 0 0.0 / 0.0 0 0.0 / 0.0 0 0.0 / 0.0 0 0.0 / 0.0	Breaker Wire 1 20 1 20 1 20 1 20 1 20 1 	A.I.C. R A.I.C. R Enclo SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO	CKT         Not           2         2           4            6            8            10            12            14            14            18            20            22            24
Note         CKT           2         1         SPARE           3         5         EF-H-11           7          9         SPARE            11         SPARE            13         SPARE           1,3         15         1871 UN            17         SPACE	nch Panel: 1CPHE Location: ELECTRICAL F Supply From: 1CDE Mounting: Surface	Wire       Breaker          20       1          20       1         (E)       30       3          20       1         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1       1          1       1          1       1          1       1          1       1           1           1           1           1           1           1           1           1           1 </td <td>G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase 0.0 / 0.0 0.0 /td> <td>E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye e in kVA c c 0 0.0 / 0.0 0 0.0 / 0.0</td> <td>OCK-OFF DEV         LOCK-ON DEVI         Breaker       Wird         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       <tr td=""> <tr td=""> </tr></tr></td> <td>A.I.C. R A.I.C. R Enclo SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE</td> <td>ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO</td> <td>CKT         Not           2         2           4            6            8            10            12            14            18            20            22        </td>	G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase 0.0 / 0.0 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye e in kVA c c 0 0.0 / 0.0 0 0.0 / 0.0	OCK-OFF DEV         LOCK-ON DEVI         Breaker       Wird         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1 <tr td=""> <tr td=""> </tr></tr>	A.I.C. R A.I.C. R Enclo SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO	CKT         Not           2         2           4            6            8            10            12            14            18            20            22
1 - PROVIDE NEW B         Image: Image state	nch Panel: 1CPHE         Location: ELECTRICAL F         Supply From: 1CDE         Mounting: Surface         Circuit Description         1         NITS         I	Wire       Breaker          20       1         (E)       30       3         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1       1          1       1          1       1          1       1          1       1          1       1           1           1           1           1           1           1           1           1           1 <td>G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase 0.0 / 0.0 0.0 /td> <td>E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye a in kVA c c c c c c c c c c c c c c c c c c c</td> <td>OCK-OFF DEV         OCK-ON DEVI         Breaker       Wire         1       20          1       20          1       20          1       20          1       20          1       20          1       20          1           1           1           1           1           1           1           1           1           1           3       30       #10</td> <td>A.I.C. R A.I.C. R Enclo SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE</td> <td>ating: 10,000 psure: Type 1 Mains: 125A MLO Circuit Description</td> <td>CKT         Not           2         2           4            6            8            10            12            14            14            18            20            22            24        </td>	G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase 0.0 / 0.0 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye a in kVA c c c c c c c c c c c c c c c c c c c	OCK-OFF DEV         OCK-ON DEVI         Breaker       Wire         1       20          1       20          1       20          1       20          1       20          1       20          1       20          1           1           1           1           1           1           1           1           1           1           3       30       #10	A.I.C. R A.I.C. R Enclo SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	ating: 10,000 psure: Type 1 Mains: 125A MLO Circuit Description	CKT         Not           2         2           4            6            8            10            12            14            14            18            20            22            24
I - PROVIDE NEW B         I - PROVIDE NEW B         Bran         Note       CKT         2       1         2       1         2       1         3       5         5       EF-H-11         7          9       SPARE          11       SPARE          13       SPARE         1,3       15       1871 UN          19       SPACE          19       SPACE          23       SPACE          23       SPACE          27       SPACE          29       SPACE          29       SPACE	nch Panel: 1CPHE         Location: ELECTRICAL F         Supply From: 1CDE         Mounting: Surface         Circuit Description         1         NITS         I	Wire       Breaker          20       1          20       1         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1	G - PROVIDE LF - PROVIDE LO - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phases: 3 Wires: 4 Phases 0.0 / 0.0 G.0 / 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye a in kVA c c c c c c c c c c c c c c c c c c c	OCK-OFF DEV         OCK-ON DEVI         Breaker       Wire         1       20          1       20          1       20          1       20          1       20          1       20          1       20          1       20          1           1           1           1           1           1           1           1           1           3       30       #10	A.I.C. R A.I.C. R Enclo SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	ating: 10,000 osure: Type 1 <b>/ains:</b> 125A MLO	CKT         Not           2         2           4            6            8            10            12            14            14            18            20            22            24
1 - PROVIDE NEW B         1 - PROVIDE NEW B         Bran         Bran         Space         2       1         2       1         2       1         3       5         5       EF-H-11         7          9       SPARE          11       SPARE          11       SPARE         1,3       15       1871 UN          19       SPACE          19       SPACE          23       SPACE          27       SPACE          29       SPACE	nch Panel: 1CPHE         Location: ELECTRICAL F         Supply From: 1CDE         Mounting: Surface         Circuit Description         1         NITS         I	Wire       Breaker          20       1         (E)       30       3         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1       1          1       1          1       1          1       1          1       1          1       1           1           1           1           1           1           1           1           1           1 <td>G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase 0.0 / 0.0 0.0 /td> <td>E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye a in kVA c c c c c c c c c c c c c c c c c c c</td> <td>OCK-OFF DEV         OCK-ON DEVI         Breaker       Wire         1       20          1       20          1       20          1       20          1       20          1       20          1       20          1           1           1           1           1           1           1           1           1           1           3       30       #10</td> <td>AI.C. R Enclo SPARE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE</td> <td>ating: 10,000 osure: Type 1 Mains: 125A MLO Circuit Description</td> <td>CKT         Not           2         2           4            6            8            10            12            14            14            18            20            22            24        </td>	G - PROVIDE LF - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phase 0.0 / 0.0 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye a in kVA c c c c c c c c c c c c c c c c c c c	OCK-OFF DEV         OCK-ON DEVI         Breaker       Wire         1       20          1       20          1       20          1       20          1       20          1       20          1       20          1           1           1           1           1           1           1           1           1           1           3       30       #10	AI.C. R Enclo SPARE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	ating: 10,000 osure: Type 1 Mains: 125A MLO Circuit Description	CKT         Not           2         2           4            6            8            10            12            14            14            18            20            22            24
1 - PROVIDE NEW B         I - PROVIDE NEW B         Bran         Bran         Note       CKT         2       1         2       1         2       1         3       5         5       EF-H-11         7          9       SPARE          11         7          9       SPARE          13         1,3       15         1,3       15         1,3       15         1,3       15         1,3       15          19         SPACE          23         SPACE          27         SPACE          29         SPACE          29         SPACE	nch Panel: 1CPHE         Location: ELECTRICAL F         Supply From: 1CDE         Mounting: Surface         Circuit Description         1         NITS         I	Wire       Breaker          20       1          20       1         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1	G - PROVIDE LF - PROVIDE LO - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phases: 3 Wires: 4 Phases 0.0 / 0.0 G.0 / 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye a in kVA c c c c c c c c c c c c c c c c c c c	OCK-OFF DEV         OCK-ON DEVI         Breaker       Wire         1       20          1       20          1       20          1       20          1       20          1       20          1       20          1       20          1           1           1           1           1           1           1           1           1           3       30       #10	AI.C. R Enclo M SPARE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	ating: 10,000 osure: Type 1 Mains: 125A MLO Circuit Description	CKT         Not           2         2           4            6            8            10            12            14            14            18            20            22            24
I - PROVIDE NEW B         1 - PROVIDE NEW B         I - PROVIDE NEW B         Bran         Note       CKT         2       1         2       1         2       1         3       EF-H-11         7       FRE          9         SPARE           11         7       SPARE          13         1,3       15         1,3       15         1,3       15         1,3       SPARE          19         SPACE           23         SPACE           29         SPACE      <	nch Panel: 1CPHE         Location: ELECTRICAL F         Supply From: 1CDE         Mounting: Surface         Circuit Description         1         NITS         I	Wire       Breaker          20       1          20       1         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1	G - PROVIDE LF - PROVIDE LO - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phases: 3 Wires: 4 Phases 0.0 / 0.0 G.0 / 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye a in kVA c c c c c c c c c c c c c c c c c c c	OCK-OFF DEV         OCK-ON DEVI         Breaker       Wire         1       20          1       20          1       20          1       20          1       20          1       20          1       20          1       20          1           1           1           1           1           1           1           1           1           3       30       #10	AI.C. R Enclo M SPARE SPARE SPARE SPARE SPARE SPACE Tota	ating: 10,000 osure: Type 1 Mains: 125A MLO Circuit Description	CKT         Not           2         2           4            6            8            10            12            14            14            18            20            22            24
I - PROVIDE NEW B         I - PROVIDE NEW B <t< td=""><td>nch Panel: 1CPHE         Location: ELECTRICAL F         Supply From: 1CDE         Mounting: Surface         Circuit Description         1         NITS         I</td><td>Wire       Breaker          20       1          20       1         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1</td><td>G - PROVIDE LF - PROVIDE LO - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phases: 3 Wires: 4 Phases 0.0 / 0.0 G.0 / 0.0</td><td>E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye a in kVA c c c c c c c c c c c c c c c c c c c</td><td>OCK-OFF DEV         OCK-ON DEVI         Breaker       Wire         1       20          1       20          1       20          1       20          1       20          1       20          1       20          1       20          1           1           1           1           1           1           1           1           1           3       30       #10</td><td>AI.C. R Enclo M SPARE SPARE SPARE SPARE SPARE SPACE</td><td>ating: 10,000 Desure: Type 1 Mains: 125A MLO Circuit Description Panel Totals Panel Totals I Conn. Load: 5.0 kVA Est. Demand: 5.0 kVA</td><td>CKT         Not           2         2           4            6            8            10            12            14            14            18            20            22            24        </td></t<>	nch Panel: 1CPHE         Location: ELECTRICAL F         Supply From: 1CDE         Mounting: Surface         Circuit Description         1         NITS         I	Wire       Breaker          20       1          20       1         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1	G - PROVIDE LF - PROVIDE LO - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phases: 3 Wires: 4 Phases 0.0 / 0.0 G.0 / 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye a in kVA c c c c c c c c c c c c c c c c c c c	OCK-OFF DEV         OCK-ON DEVI         Breaker       Wire         1       20          1       20          1       20          1       20          1       20          1       20          1       20          1       20          1           1           1           1           1           1           1           1           1           3       30       #10	AI.C. R Enclo M SPARE SPARE SPARE SPARE SPARE SPACE	ating: 10,000 Desure: Type 1 Mains: 125A MLO Circuit Description Panel Totals Panel Totals I Conn. Load: 5.0 kVA Est. Demand: 5.0 kVA	CKT         Not           2         2           4            6            8            10            12            14            14            18            20            22            24
I - PROVIDE NEW B         I - PROVIDE NEW B         I - PROVIDE NEW B         Bran         Bran         Note       CKT         2       1       SPARE         2       1       SPARE         2       1       SPARE         3       5       EF-H-11         7        9       SPARE          11       SPARE          11       SPARE          11       SPARE         1,3       15       1871 UN          17       SPACE          19       SPACE          23       SPACE          21       SPACE          23       SPACE          27       SPACE          29       SPACE          29       SPACE          29       SPACE          29       SPACE          29       SPACE	nch Panel: 1CPHE         Location: ELECTRICAL F         Supply From: 1CDE         Mounting: Surface         Circuit Description         1         NITS         I	Wire       Breaker          20       1          20       1         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1	G - PROVIDE LF - PROVIDE LO - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phases: 3 Wires: 4 Phases 0.0 / 0.0 G.0 / 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye a in kVA c c c c c c c c c c c c c c c c c c c	OCK-OFF DEV         OCK-ON DEVI         Breaker       Wire         1       20          1       20          1       20          1       20          1       20          1       20          1       20          1       20          1           1           1           1           1           1           1           1           1           3       30       #10	AI.C. R Enclo M SPARE SPARE SPARE SPARE SPARE SPACE	ating: 10,000 Desure: Type 1 Mains: 125A MLO Circuit Description Panel Totals I Conn. Load: 5.0 kVA Est. Demand: 5.0 kVA Conn. Current: 6 A	CKT 2 4 6 8 10 12 14 14 16 18 20 22 24
1 - PROVIDE NEW B         Bran         Note       CKT         2       1         2       1         5       EF-H-11         5       EF-H-11         7       7          9       SPARE          11       SPARE          13       SPARE          13       SPARE          13       SPARE          13       SPARE          17       SPACE          19       SPACE          23       SPACE          23       SPACE          23       SPACE          29       SPACE	nch Panel: 1CPHE         Location: ELECTRICAL F         Supply From: 1CDE         Mounting: Surface         Circuit Description         1         NITS         I	Wire       Breaker          20       1          20       1         (E)       30       3          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          20       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1          1       1	G - PROVIDE LF - PROVIDE LO - PROVIDE LO - PROVIDE 1L - REFER T Volts: 277 Phases: 3 Wires: 4 Phases: 3 Wires: 4 Phases 0.0 / 0.0 G.0 / 0.0	E GFCI CIRCUIT B E PERMANENT L E PERMANENT L TO ONELINE 7/480 Wye a in kVA c c c c c c c c c c c c c c c c c c c	OCK-OFF DEV         LOCK-ON DEVI         Breaker       Wird         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1          1          1          1          1          1          1          1          1          1          1          1          1          3       30	AI.C. R Enclo M SPARE SPARE SPARE SPARE SPARE SPACE	ating: 10,000 Desure: Type 1 Mains: 125A MLO Circuit Description Panel Totals I Conn. Load: 5.0 kVA Est. Demand: 5.0 kVA Conn. Current: 6 A	

	Abbrevations:		
VORK IN BOLD	G - PROVIDE GFCI CIRCUIT BREAKER		
OVIDE NEW BREAKER	LF - PROVIDE PERMANENT LOCK-OFF DE	VICE	
RIFY LOAD SERVED, MOVE CIRCUIT TO 'ELSLA', LEAVE BREAKER AS SPAR RIFY LOAD SERVED. INTERCEPT AND EXTEND CIRCUIT FROM PANEL '1GH	LO - PROVIDE PERMANENT LOCK-ON DEV	VICE	

: 2CHE	CHE								·	EXIST	NG PANEL
n: ELECTRIC n: 1CHE g: Surface		C265-1			Volts: 277 Phases: 3 Wires: 4 Phase	7/480 Wye			4	A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 400A	
cription	ion		Breake		B	(		Breaker		Circuit Description	СКТ
			20 1					1 20			2
			20 1	1	0.0 / 0.0	)	0 / 0 0	1 20	SPARE		4
			20 1			0.0	0/0.0			2	6
			20 1					1 20			8
			20 1		0.0 / 2.0		0 / 0 0	1 20		С	10 12
			1			0.0	0/0.0		SPACE		12
				1 0.0 / 0.0				1			14
			1	1	0.0 / 0.0			1			1
			1			0.0	0/0.0		SPACE		1
			1 1	1 0.0 / 0.0				1			2
					0.0 / 0.0			1			2
			1	1		0.0	0 / 0.0		SPACE		24
				1 0.0/0.0				1			′
			1	1	0.0 / 0.0				SPACE		
			1	1		0.0	0 / 0.0	1	SPACE		
			1	1 0.0 / 0.0							3
			1	1	0.0 / 0.0			3 30	#10 SPDL		
			1			0.0	0 / 0.0				
			1	1 0.0/3.2							
			1	1	0.0 / 0.5	5		3 30	(E) 2CTE		
			1	1		0.0	0/2.0				
		Total	Load:	5.2 kVA	2.5 kVA	2.0	0 kVA				
		Total /	Amps:	19 A	9 A		7 A				
			cted Loa	d De	mand Factor	· Es	Estimated		d	Panel Totals	
			) kVA		100.00%		9.0				
		0.7	′ kVA		100.00%		0.7	κVA		Total Conn. Load: 9.7 kVA	
										Total Est. Demand: 9.7 kVA	
										Total Conn. Current: 12 A	
									Total E	Est. Demand Current: 12 A	
		1		I	Abbrevations:	;					
					G - PROVIDE	GFCI CIR	IRCUIT B	REAKER	ł		
					LF - PROVIDE						
								)( <u>K -</u> ( )Vi			
					LO - PROVIDE	E PERMA	ANENT L	OCK-ON	DEVICE		
					LO - PROVIDE	E PERMA	ANENT L	UCK-ON	DEVICE		



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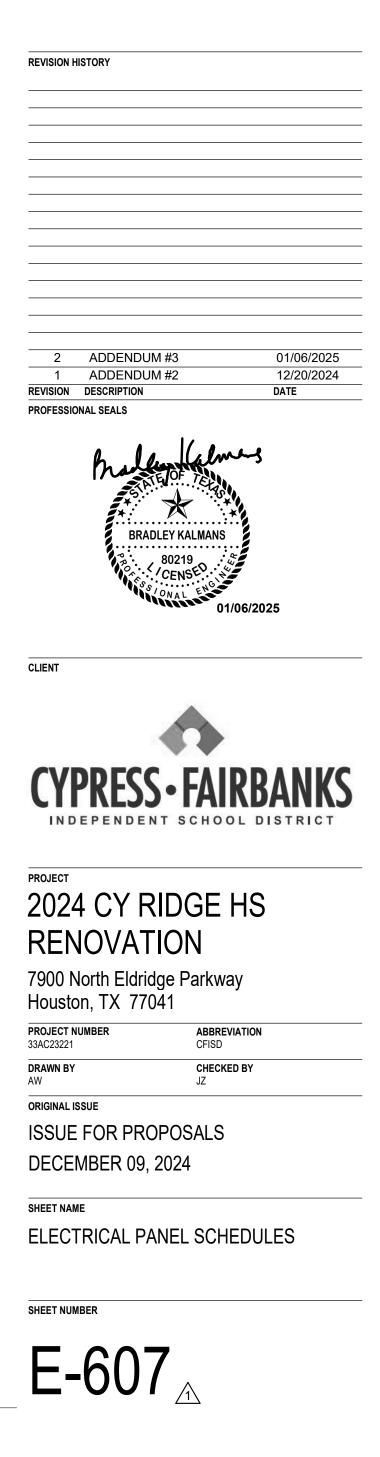
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**CIVIL ENGINEER** Brooks & Sparks Inc. 21020 Park Row Dr. Katy, Texas 77449 281.578.9595

MEP & AV/THEATRICAL ENGINEER Salas O'Brien 10930 W Sam Houston Pkwy N Suite 900 Houston, TX 77064 281.664.1900



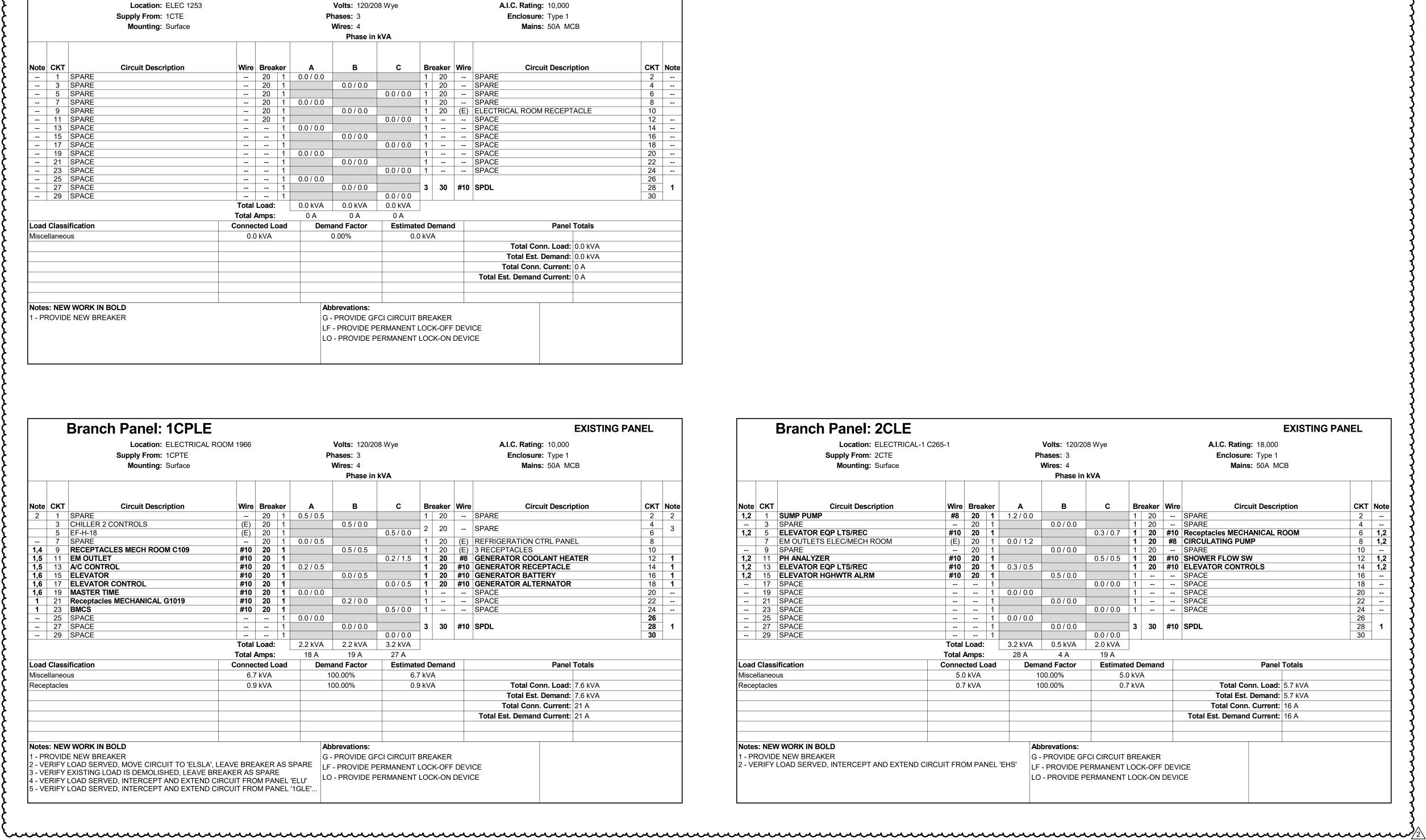
#### PANELBOARD CIRCUIT DIRECTORY:

\_\_\_\_\_

CONTRACTOR SHALL RECORD AND/OR PRESERVE THE EXISTING CIRCUIT DIRECTORY, IF ANY, FOR THE SOLE PURPOSE UPON COMPLETION OF NEW WORK OF PRODUCING A NEW DIRECTORY.

CONTRACTOR SHALL PROVIDE AS PART OF THE CONSTRUCTION DOCUMENTS A NEW, NEATLY TYPED DIRECTORY. CONTRACTOR SHALL TRACE EXISTING CIRCUITS AND SHALL LEGIBLY IDENTIFY AS TO IT'S CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE, LOADS SERVED, LOCATION AND/OR THE PANELBOARD SCHEDULE ON THE DRAWINGS. THE WORD "EXISTING" SHALL NOT BE USED ON PANELBOARD DIRECTORIES. SPARE BREAKERS ARE TO BE LISTED AS "SPARE" AND SWITCHED TO THE OFF POSITION. SPACES WITH NO BREAKERS ARE TO BE LEFT BLANK. REFER TO NEC-2023: 408.4(A) FOR DETAILS.

CONTRACTOR SHALL PERMANENTLY LABEL AS PART OF THE CONSTRUCTION DOCUMENTS ALL SWITCHBOARDS, SWITCHGEAR AND PANELBOARDS TO INDICATE EACH POWER SOURCE. REFER TO NEC-2023: 408.4(A) FOR DETAILS.



Bran	ich Panel: 1CLE											EXISTI	NG PANEL	
	Location: ELEC 1253 Supply From: 1CTE Mounting: Surface				Ρ	Volts: 120/20 hases: 3 Wires: 4	08 Wye				A.I.C. Rating: 10,000 Enclosure: Type 1 Mains: 50A MC	ЭВ		
	-					Phase in	kVA							
KT	Circuit Description		Brea	-	<u>A</u>	В	С	-	eaker			otion	СКТ	-
1 SPARE			20	1	0.0 / 0.0	0.0/0.0		1	20		SPARE		2	
3 SPARE 5 SPARE			20 20	1		0.0 / 0.0	0.0 / 0.0	1	20 20		SPARE SPARE		4	
7 SPARE			20	1	0.0 / 0.0		0.070.0	1	20				8	
9 SPARE			20	1	0.070.0	0.0 / 0.0		1	20		ELECTRICAL ROOM RECEPT		10	
1 SPARE			20	1		0.070.0	0.0/0.0	1		(L) 	SPACE	AULL	10	
3 SPACE				1	0.0 / 0.0		0.070.0	1			SPACE		14	
5 SPACE				1	0.070.0	0.0 / 0.0		1			SPACE		16	
7 SPACE				1			0.0/0.0	1			SPACE		18	
9 SPACE				1	0.0 / 0.0		0.070.0	1			SPACE		20	
1 SPACE				1	0.07 0.0	0.0 / 0.0		1			SPACE		22	
3 SPACE				1			0.0 / 0.0	1			SPACE		24	
25 SPACE				1	0.0 / 0.0								26	
27 SPACE				1		0.0 / 0.0		3	30	#10	SPDL		28	1
9 SPACE				1			0.0 / 0.0						30	
		Total	Load:		0.0 kVA	0.0 kVA	0.0 kVA			•				
		Total A	Amps:	L	0 A	0 A	0 A							
assification		Connec				and Factor	Estimat	ed D	emano	k	Panel	Totals		
neous		0.0	kVA			0.00%	0.	0 kV/	A					
											Total Conn. Load:	0.0 kVA		
											Total Est. Demand:	0.0 kVA		
											Total Conn. Current:			
											Total Est. Demand Current:			
												077		
NEW WORK	IN BOLD				Ab	brevations:								
VIDE NEW B						PROVIDE GI	FCI CIRCUIT	BRF	AKER					
						- PROVIDE P				עשט				
						- PROVIDE F	'ERMANEN I	LOC	K-UN	DEVI				

ranch Panel: 1CPLE										EXISTING P		
					Volts: 120/20							
	JOIN 1900			_		lo vvye				<b>A.I.C. Rating:</b> 10,000		
Supply From: 1CPTE				F	Phases: 3					Enclosure: Type 1		
Mounting: Surface					Wires: 4					Mains: 50A MCB		
					Phase in	kVA						
											ſ	
Circuit Description	Wire	Brea	ker	Α	В	С	Bre	eaker	Wire		СКТ	Note
ARE		20	1	0.5 / 0.5			1	20		SPARE	2	2
ILLER 2 CONTROLS	(E)	20	1		0.5 / 0.0		2	20		SPARE	4	3
-H-18	(E)	20	1			0.5 / 0.0					6	Ŭ
ARE		20	1	0.0 / 0.5			1	20	(E)	REFRIGERATION CTRL PANEL	8	
CEPTACLES MECH ROOM C109	#10	20	1		0.5 / 0.5		1	20	+ ` '	3 RECEPTACLES	10	
OUTLET	#10	20	1			0.2 / 1.5	1	20	#8	GENERATOR COOLANT HEATER	12	1
CONTROL	#10	20	1	0.2 / 0.5			1	20		GENERATOR RECEPTACLE	14	1
EVATOR	#10	20	1		0.0 / 0.5		1	20	#10	GENERATOR BATTERY	16	1
EVATOR CONTROL	#10	20	1			0.0 / 0.5	1	20	-	GENERATOR ALTERNATOR	18	1
STER TIME	#10	20	1	0.0 / 0.0			1			SPACE	20	
ceptacles MECHANICAL G1019	#10	20	1		0.2 / 0.0		1			SPACE	22	
ICS	#10	20	1			0.5 / 0.0	1			SPACE	24	
ACE			1	0.0 / 0.0							26	
ACE			1		0.0 / 0.0		3	30	#10	SPDL	28	1
ACE			1			0.0 / 0.0					30	
	Total	Load:		2.2 kVA	2.2 kVA	3.2 kVA						
	Total A	Amps:		18 A	19 A	27 A						
ition	Connec	cted L	oad	Dem	nand Factor	Estimate	ed D	emanc	k	Panel Totals		
	6.7	′ kVA			100.00%	6.7	7 kVA	۹				
	0.9	kVA			100.00%	0.9	9 kVA	4		Total Conn. Load: 7.6 kVA		
										Total Est. Demand: 7.6 kVA		
										Total Conn. Current: 21 A		
										Total Est. Demand Current: 21 A		
ORK IN BOLD				A	bbrevations:	I						
EW BREAKER				G	- PROVIDE GF		BRE	AKFR				
D SERVED, MOVE CIRCUIT TO 'ELSLA', L	EAVE BRE	AKER	AS S		- PROVIDE P					CE		
STING LOAD IS DEMOLISHED, LEAVE BRI				L1								
D SERVED, INTERCEPT AND EXTEND CI				'ELU' L <sup>(</sup>	) - PROVIDE P	ERMANENT	LOC	K-ON	DEAIC			
D SERVED, INTERCEPT AND EXTEND CI												
				1								

/

Load C Miscella Recepta

> Notes: 1 - PRC 2 - VER



	Branch Panel: 2CLE											EXISTIN	G PANEL	
	Location: ELECTRICAL-1 ( Supply From: 2CTE Mounting: Surface	C265-1			I	Volts: 120/20 Phases: 3 Wires: 4	18 Wye				A.I.C. Rating: 18,000 Enclosure: Type 1 Mains: 50A MC	'nB		
	mounting. Sunace					Phase in	kVA							
кт	Circuit Description		Brea	ker	Α	В	С	Br	eaker	Wire	•	otion	СКТ	- No
	SUMP PUMP	#8	20	1	1.2 / 0.0			1	20		SPARE		2	
	SPARE ELEVATOR EQP LTS/REC	#10	20 <b>20</b>	1 1		0.0 / 0.0	0.3 / 0.7	1	20 <b>20</b>		SPARE Receptacles MECHANICAL R	0014	4	
	ELEVATOR EQP LT3/REC EM OUTLETS ELEC/MECH ROOM	(E)	20	1	0.0 / 1.2		0.370.7	1	20	#10	CIRCULATING PUMP		6 8	1,2 1,2
	SPARE	(L) 	20	1	0.071.2	0.0 / 0.0		1	20		SPARE		10	
	PH ANALYZER	#10	20	1		0.070.0	0.5 / 0.5	1	20		SHOWER FLOW SW		12	1,2
	ELEVATOR EQP LTS/REC	#10	20	1	0.3 / 0.5			1	20		ELEVATOR CONTROLS		14	1,2
	ELEVATOR HGHWTR ALRM	#10	20	1		0.5 / 0.0		1			SPACE		16	
	SPACE			1			0.0 / 0.0	1			SPACE		18	
	SPACE			1	0.0 / 0.0			1			SPACE		20	
	SPACE			1		0.0 / 0.0	0.0 / 0.0	1			SPACE		22	
	SPACE SPACE			1	0.0 / 0.0		0.0 / 0.0	1			SPACE		24	
	SPACE			1	0.070.0	0.0 / 0.0		3	30	#10	SPDL		26 28	1
	SPACE			1		0.070.0	0.0 / 0.0	ľ		"10			30	- ·
		Total	Load:		3.2 kVA	0.5 kVA	2.0 kVA							
		Total		L	28 A	4 A	19 A							
lassi	fication	Conne				nand Factor	Estimat	ed D	emand	1	Panel	Totals		
ineoi			) kVA			100.00%		0 kV.		-				
acles			/ kVA			100.00%		7 kV			Total Conn. Load:	5 7 k\/A		
10100		0.1				100.0070	0.				Total Est. Demand:			
											Total Conn. Current:			
												-		
											Total Est. Demand Current:	16 A		
	WORK IN BOLD					bbrevations:								
						- PROVIDE GF								
	OAD SERVED, INTERCEPT AND EXTEND CI	RCUITERC		NEL	EHS L	F - PROVIDE P	ERMANENT	LOC	K-OFF	DEVI	CE			
					L	O - PROVIDE P	ERMANENT	LOC	K-ON	DEVIC	CE			



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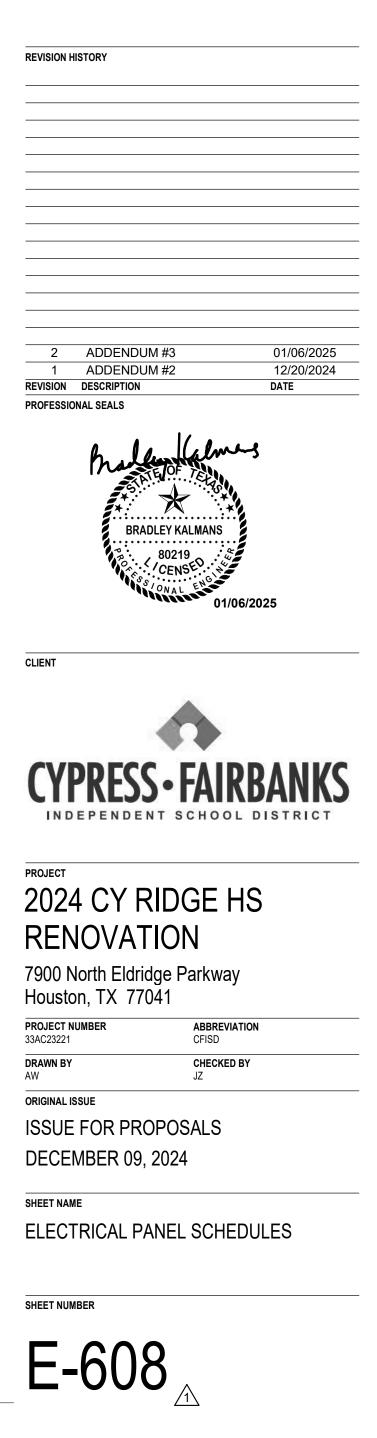
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			LIGHTIN	<b>IG FIXT</b>	URE	SCH	EDUL	E	
		CATALOG NUMBER							
Type Mark A1	MANUFACTURER COOPER	MODEL 24GR-LD5-48-F1-UNV-L840-CD1-U	MOUNTING RECESSED	LAMP TYPE 4821L LED	CCT 4000 K	CRI 80	VOLTAGE 277 V	LOAD 38 W 2'X4	4' LED FLAT PANEL
B1	LIGHTING	22GR-LD5-40-F1-UNV-L840-CD1-U	RECESSED	4098L LED	4000 K		277 V		2' LED FLAT PANEL
	LIGHTING								
BL	ALW	ADO0212-AAE-N	WALL	700L LED	4000 K	80	277 V		/ BLUELIGHT FIXTURE PROVIDE WITH ALLACCESSORY NEEDED FROM MANUFACTURER FOR ERATION/CONTROL INLCUDING 24V TRANSFORMER
C1	COOPER LIGHTING	4SNLED-LD5-37SL-UNV-L840-CD1-U	SURFACE / PENDANT	3924L LED	4000 K	80	277 V	28 W 4' LI	INEAR STRIP LED WITH 0-10V DIMMING DRIVER
C2	COOPER LIGHTING	4SNLED-LD5-37SL-UNV-L840-CD1-U	SURFACE / PENDANT	3924L LED	4000 K	80	120 V	28 W 4' LI	INEAR STRIP LED WITH 0-10V DIMMING DRIVER
C3	COOPER	4VT3-LD5-4-G-UNV-L840-CD1-U	SURFACE	4428L LED	4000 K	80	277 V	32 W 4' LI	INEAR STRIP LED, VAPOR TITE, WITH 0-10V DIMMING DRIVER
D1	COOPER	PR6-FS12-D010	RECESSED	1575L LED	4000 K	80	277 V	12 W 6-IN	ICH MEDIUM BEAM OPEN DOWNLIGHT WITH 0-10V DIMMING DRIVER (SUITABLE FOR WET LOCATIONS)
H1	LIGHTING TIVOLI	AC-WB-06-XX	SURFACE	E26	2700 K	80	277 V	28 W 12' E	EXTRUSION WITH BULB SOCKETS. PROVIDE WITH LED E26 BULBS. COORDINATE MOUNTING WITH CASE
				PROVIDED BY VENDOR				DET	TAILS.
H2	TIVOLI	AC-WB-06-XX	SURFACE	E26 PROVIDED	2700 K	80	277 V		EXTRUSION WITH BULB SOCKETS. PROVIDE WITH LED E26 BULBS. COORDINATE MOUNTING WITH SEWORK DETAILS.
110				BY VENDOR	0700 //	00	077.1/		
H3	TIVOLI	AC-WB-06-XX	SURFACE	E26 PROVIDED	2700 K	80	277 V		EXTRUSION WITH BULB SOCKETS. PROVIDE WITH LED E26 BULBS. COORDINATE MOUNTING WITH SEWORK DETAILS.
L1	ARCH LIGHTING	LP1SD-S8-HI-80-4000K-V05-EXT/F-XX-UNV-N	SURFACE /	BY VENDOR 4400L LED	4000 K	80	277 V	51 W SUS	SPENDED LINEAR WITH 0-10V DIMMING DRIVER, CUSTOM LENGTH.
P1	WORKS (ALW) COOPER	LD8B-50-D010TE	PENDANT RECESSED	1575L LED	4000 K	80	277 V	30 W 6-IN	ICH MEDIUM BEAM OPEN DOWNLIGHT.
S4	LIGHTING COOPER	PRV-C60-D-UNV-T2-SA		22,645L LED			277 V	612 W POI	LE LIGHT 4 HEADS, TYPE III AREA LUMINAIRE. 30' ROUND STEEL TAPER POLE
04	LIGHTING	RTSP-9.0-7-XXX-DM4090-BC	4 @ 90		4000 K		211 V		
T1	COOPER LIGHTING HALO	L2G-815-20-FL-940-XX-277	SURFACE / PENDANT	1944L LED / HEAD	4000 K	80	277 V	370 W 30' 1	TRACK EXTRUSION WITH HEADS EVERY 2'. PROVIDE HEADS AND TRACK FROM MANUFACTUER.
W1	COOPER	WPMLED10	WALL	4700L LED	4000 K	80	277 V	41 W MOU	UNT FIXTURE AT +14'-0" AFF
W2	LIGHTING COOPER	WPMLED10	WALL	4700L LED	4000 K	80	120 V	41 W MOU	UNT FIXTURE AT +14'-0" AFF
W3	LIGHTING COOPER	GAW-SA1A-740-U-T3	WALL	4880L LED	4000 K	80	277 V	34 W MOI	UNT FIXTURE ON WALL UNDER CANOPY.
X1	LIGHTING SURE-LITES	APX6R	UNIVERSAL	LED	N/A	80	277 V	5 W UNI	IVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING
X1 X2	SURE-LITES	APX6R	UNIVERSAL		N/A	80	277 V		IVERSAL LED EXIT SIGN WITH WHITE HOUSING, RED LETTERING
HALL BE INCLUDED IN	THE PROPOSAL.	AL REQUIREMENTS NOT INDICATED IN THE L							
LL LED FIXTURE BOAR XIT SIGNS AND EMER IGHTING FIXTURE MAN OR PRIOR APPROVALS IGHTING LEVELS FOR LL LIGHTING SPECIFIE HE CONTRACTOR SHA /HEN A UNIVERSAL (12 OR ALL SUSPENDED F IXTURES SHOWN ON T ISTURES SHOWN ON T ACK-UP. BATTERY BAG WNER/ARCHITECT PR LL EXTERIOR LIGHT FI Y THE BUILDING STRU	RDS AND DRIVERS SHALL GENCY BATTERY BACK-U NUFACTURERS OTHER TH S AND SUBMITTALS THAT EACH SPACE AND IMPAC ED SHALL BE 4000K INTER ALL PROVIDE ALL HARDW 20-277V) VOLTAGE OPTIOL TIXTURES, COORDINATE T THE FLOORPLAN HAVING CK-UPS SHALL BE INTEGE COR TO INSTALLATION BY IXTURES RECESSED IN A JCTURE FROM FALLING O	AN THOSE LISTED IN THE LIGHTING FIXTURI DEVIATE FROM NOMINAL WATTAGE AND/OR T ON THE OVERALL ELECTRICAL POWER SYS NOR UNLESS NOTED OTHERWISE. ARE AND ACCESSORIES AS REQUIRED TO IN N IS AVAILABLE, IT SHALL BE PROVIDED. OTH THE EXACT MOUNTING ELEVATION ABOVE FI A DESIGNATION OF "X" FOLLOWING THE BAS RAL TO THE FIXTURE AND REMOTE SHALL BE ( THE CONTRACTOR.	SELECT ALL FINISHES, COLORS, AND ON THE INDIVIDUAL MANUFACTURER LIGHTING CIRCUIT AHEAD OF ALL SW SCHEDULE AND DESIRING TO BID TH DELIVERED LUMENS, IT SHALL BE UP STEM. STALL FIXTURES IN LOCATIONS AS ILL ERWISE PROVIDE AS INDICATED IN SO VISHED FLOOR WITH ARCHITECT PRICE E DESIGNATION (I.E A FIXTURE TYPE SELECTED ONLY IN INSTANCES WHEN Y TO THE BOTTOM OF A CANOPY SHALL E EITHER DAMP OR WET LOCATION LI	TRIMS. S STATED LITE ITCHING AS RE IIS PROJECT SI THE ENGINEEI LUSTRATED WI CHEDULE. DR TO INSTALL/ E "AX, C2X, FX" E "A1A, C2A, F/ RE IT IS SPECII LL BE UL OR ET ISTED.	RATURE. Equired ' Hall Reg r's Sole Ith Moun Ation. Pf ) Shall E A'') Shall Fied or V Tl Listed	IF A "GI TO MAIN DUEST P DISCRE ITING ME ROVIDE S BE THE B BE THE B BE THE N HEN IT	EN 5" IS AVA TAIN THE B RIOR APPRO TION TO AP ETHODS DE GUSPENSIO ASE FIXTUF BASE FIXTUF IS THE ONL	ILABLE, "GEN ATTERIES AT F DVAL OF THE F PROVE OR DE SIRED. N HARDWARE E TYPE CONN JRE TYPE CONN JRE TYPE EXC Y AVAILABLE F	4" FIXTURES ARE NOT ACCEPTABLE. FULL CHARGE. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL WIRING AS REQUIRED. FIXTURES THEY WISH TO SUBSTITUTE. PRIOR APPROVAL REQUEST SHALL INCLUDE FIXTURE CUT SHEL ECLINE THESE FIXTURES BASED ON ANY AND ALL FACTORS INCLUDING BUT NOT LIMITED TO INTENDED IN LENGTHS AS REQUIRED. NECTED TO EMERGENCY LIGHTING INVERTER SYSTEM. REFER TO DETAIL 3 SHEET 10.42 FOR ADDITION CEPT SUITABLE FOR GYPSUM CEILING INSTALLATION AND EQUIPPED WITH THE APPROPRIATE BATTERY EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE CIFICALLY STATED IN THE LIGHTING FIXTURE SCHEDULE AS "DAMP LOCATION" FIXTURES AND PROTEC
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OTH THE EXACT MOUNTING ELEVATION ABOVE FI A DESIGNATION OF "A" FOLLOWING THE BAS RAL TO THE FIXTURE AND REMOTE SHALL BE THE CONTRACTOR. CANOPY OR SURFACED MOUNTED DIRECTL WIND DRIVEN RAIN OR SNOW, THEY MAY B IN A CANOPY OR SURFACED MOUNTED DIRECTL OR WIND DRIVEN RAIN OR SNOW, THEY MAY B IN A CANOPY OR SURFACED MOUNTED DIRECTL OR WIND DRIVEN RAIN OR SNOW, THEY MAY B ON A CANOPY OR SURFACED MOUNTED DIRECTL OR WIND DRIVEN RAIN OR SNOW, THEY MAY B ON A CANOPY OR SURFACED MOUNTED DIRECTL OR WIND DRIVEN RAIN OR SNOW, THEY MAY B ON A CANOPY OR SURFACED MOUNTED DIRECTL OR WIND DRIVEN RAIN OR SNOW, THEY MAY B ON A CANOPY OR SURFACED MOUNTED DIRECTL OR WIND DRIVEN RAIN OR SNOW, THEY MAY B ON A CANOPY OR SURFACED MOUNTED DIRECTL OR WIND DRIVEN RAIN OR SNOW, THEY MAY B ON A CANOPY OR SURFACED MOUNTED DIRECTL OF VACANCY - MANUAL ON / AUTO OFF VACANCY - MANUAL ON / AUTO OFF VACANCY - MANUAL ON / AUTO OFF OCCUPIED STATE - OCCUPANCY - AUTO ON ONLY UNOCCUPIED STATE - OCCUPANCY - AUTO ON ONLY UNOCCUPIED STATE - OCCUPANCY - AUTO ON / AUTO OFF NONE	SELECT ALL FINISHES, COLORS, AND ON THE INDIVIDUAL MANUFACTURERS LIGHTING CIRCUIT AHEAD OF ALL SW SCHEDULE AND DESIRING TO BID TH DELIVERED LUMENS, IT SHALL BE UP STEM. STALL FIXTURES IN LOCATIONS AS ILL ERWISE PROVIDE AS INDICATED IN SO VISHED FLOOR WITH ARCHITECT PRICE E DESIGNATION (I.E A FIXTURE TYPE SELECTED ONLY IN INSTANCES WHEN Y TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SELECTED ONLY IN INSTANCES WHEN TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SELECTED ONLY IN INSTANCES WHEN TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SELECTED ONLY IN INSTANCES WHEN TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SELECTED ONLY IN INSTANCES WHEN TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SELECTED ONLY IN INSTANCES WHEN TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SELECTED ONLY IN INSTANCES WHEN TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SELECTED ONLY IN INSTANCES WHEN TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI ECTLY TO THE BOTTOM OF A CANOPY SHAL E EITHER DAMP OR WET LOCATION LI E EITHER DAMP OR WET LOCATION LI E EITHER DAMP OR WET LOCATION LI E E E E E E E E E E E E E E E E E E E	TRIMS. S STATED LITE ITCHING AS RE IIS PROJECT SI THE ENGINEEI LUSTRATED WI CHEDULE. DR TO INSTALL/ TO	RATURE. EQUIRED HALL REG R'S SOLE ITH MOUN ATION. PF ) SHALL E A") SHALL E A") SHALL E A") SHALL E DR ETL LI DR ETL DR E	IF A "GI TO MAIN QUEST P DISCRE ITING ME ROVIDE S BE THE B BE THE B HEN IT D AS WET STED AS DUL E (DIMM DETAIL DETAIL DETAIL DETAIL M DETAIL	EN 5" IS AVA TAIN THE B RIOR APPRI TION TO AP ETHODS DE BUSPENSIO ASE FIXTUF BASE FIXTUF BASE FIXTUF IS THE ONL LOCATION WET FROM	ILABLE, "GEN ATTERIES AT P DVAL OF THE P PROVE OR DE SIRED. N HARDWARE E TYPE CONN JRE TYPE EXC Y AVAILABLE P WHERE SPEC ABOVE LOCA	FULL CHARGE. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL WIRING AS REQUIRED. FIXTURES THEY WISH TO SUBSTITUTE. PRIOR APPROVAL REQUEST SHALL INCLUDE FIXTURE CUT SHEI CLINE THESE FIXTURES BASED ON ANY AND ALL FACTORS INCLUDING BUT NOT LIMITED TO INTENDED IN LENGTHS AS REQUIRED. NECTED TO EMERGENCY LIGHTING INVERTER SYSTEM. REFER TO DETAIL 3 SHEET 10.42 FOR ADDITION CEPT SUITABLE FOR GYPSUM CEILING INSTALLATION AND EQUIPPED WITH THE APPROPRIATE BATTERY EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE CIFICALLY STATED IN THE LIGHTING FIXTURE SCHEDULE AS "DAMP LOCATION" FIXTURES AND PROTEC ATION.

NONE

BMCS

NONE

RG

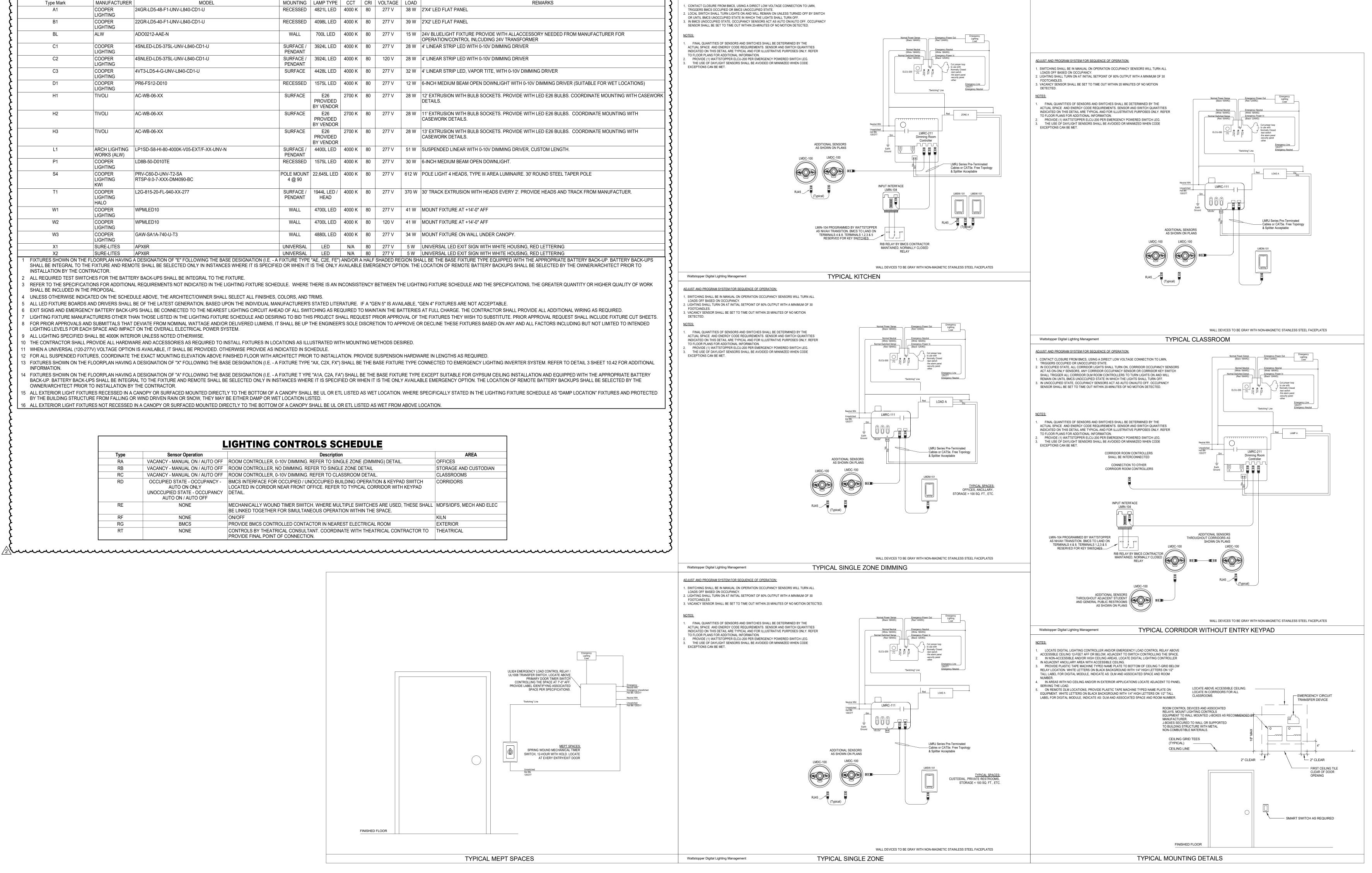
ON/OFF

PROVIDE FINAL POINT OF CONNECTION.

PROVIDE BMCS CONTROLLED CONTACTOR IN NEAREST ELECTRICAL ROOM

FINISHED FLOOR

KILN



ADJUST AND PROGRAM SYSTEM FOR SEQUENCE OF OPERATION:





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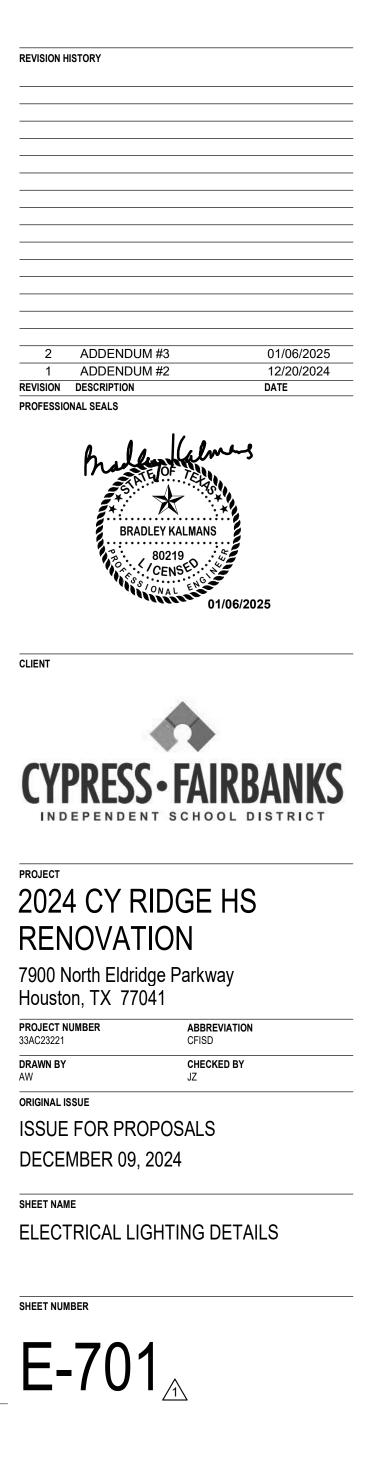
IN ASSOCIATION WITH: HarrisonKornberg ARCHITECTS Harrison Kornberg Architects 3800 Buffalo Speedway. Suite 550 Houston, TX 77098 pagethink.com TEL 713 229 0688 FAX 713 229 0692

CONSULTANT TEAM

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	TECHNO	LOGY LEGE	ND - 27 10 00			ACCESS CONTROL LEGE	ND - 28 10	00 & 28 10	00.05
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES	SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
*#	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C		ACP	ACCESS CONTROL SYSTEM, CONTROL PANEL.	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER NOTE #4.
V# ▽	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE		CR *#	ACCESS CONTROL PROXIMITY CARD READER. DEFAULT SYMBOL INDICATES WALL MOUNTED *M - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
W	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C			DOOR MOUNTED ACCESS CONTROL	+42" AFF	N/A	
B	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C		CR	PROXIMITY CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.			
D#	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH	FINISHED HARDWARE PROVIDED BY DIV 27	DS *#	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *DEFAULT INDICATES WALL MOUNTED *M - INDICATES MULLION MOUNTED DEVICE	+42" AFF	*W: 1-G, 3/4" C *M: 3/4"C	COORDINATE POWER NOTE #4.
	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT D#": NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK		DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER NOTE #4
	NDICATES BACK BOX SIZE.			-	MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER NOTE #4
	NDICATES CONDUIT SIZE. : UNLESS NOTED OTHERWISE				DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
4. CON	DUIT STUB UP AND SLEEVES SHALL HAVE A CONDUITS SHALL EXCEED FOR 40% MAXIMU				REX	PIR MOTION REQUEST TO EXIT DEVICE			
5. NO (	UNDUITS SHALL EACEED FOR 40% MAAIWUI	FILE RATIO. CONTRACT	JR TO PROVIDE ADDITIONAL COI	NDOITS REQUIRED.	DP	DOOR PROP ALARM	CEILING MOUNTED	N/A	N/A
	AUDIO/VIDE	EO LEGEND	- 27 41 16.10			DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR	FLUSH MOUNTED	N/A	PROVIDED BY ACS CONTRACTOR.
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES	2 SS	NETWORK STROBE SIREN	CEILING MOUNTED		NOTE #4
WMP V	WALL MOUNTED PROJECTOR AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING TWO(2) 1.25"C	NOTE #5	<u>NOTES:</u>				L
		CEILING MOUNTED	N/A	NOTE #5	2. #-C II	NDICATES BACK BOX SIZE. NDICATES CONDUIT SIZE.			

\_\_\_\_\_

AUDIO/VIDE	EO LEGEND	- 27 41 16.10	
DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
MOUNTED PROJECTOR /VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
IG MOUNTED PROJECTOR /VISUAL OUTPUT OUTLET	CEILING MOUNTED	N/A	NOTE #5
MOUNTED AUDIO/VIDEO INPUT T	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
MOUNTED FLAT SCREEN DISPLAY //VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
MOUNTED FLAT SCREEN DISPLAY /VISUAL OUTPUT OUTLET CIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
ACTIVE VIDEO DISPLAY /VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
NTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
INSTRUCTIONAL SPACE	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
MING CAMERA	CEILING UNO	N/A	NOTE #5

	AUDIO/VIDE	EO LEGEND	- 27 41 16.10	
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP ₩	WALL MOUNTED PROJECTOR AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
	CEILING MOUNTED PROJECTOR AUDIO/VISUAL OUTPUT OUTLET	CEILING MOUNTED	N/A	NOTE #5
AV-1	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
FSD-1 ₩	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
FSD-2 ₩	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VISUAL OUTPUT OUTLET ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
IVD ₩	INTERACTIVE VIDEO DISPLAY AUDIO/VISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CP ▽	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
PS	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
$\bigotimes$	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5
<u>NOTES:</u> 1. #-G	INDICATES BACK BOX SIZE.			

2. #-C INDICATES CONDUIT SIZE.

. UNO: UNLESS NOTED OTHERWISE THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR. 5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

	LOCAL SOUND S	SYSTEM LEC	GEND - 27 41 16.	20	3. UNC 4. THE	NDICATES CONDUIT SIZE. ): UNLESS NOTED OTHERWISE SYSTEM INTEGRATOR SHALL COORDINATE AL JECTS ELECTRICAL CONTRACTOR.	L BOX AND CONDUIT SI	ZE REQUIREMENTS PRIOR TO RO	UGH-IN BY THE
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES		VIDE AND INSTALL ONE (1) CATEGORY CABLE	TO CONNECT DEVICE TO	O NETWORK	
(S <sub>*</sub>	LOCAL SOUND SYSTEM SPEAKER P: POLE MOUNTED SPEAKER	CEILING MOUNT UNO	CONTRACTOR PROVIDED BACK BOX OR 4"X4"X2 1/8" J BOX WITH COVER, 1"C			INTRUSIC	N LEGEND	- 28 31 00	
LSC	LOCAL SOUND SYSTEM CONTROL PLATE	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C		SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
MI	MICROPHONE INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C		IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1"C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
MA	COMBINATION OUTLET CONSISTING OF ONE (1) MICROPHONE INPUT AND ONE	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH		KP	INTRUSION DETECTION SYSTEM KEYPAD.	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
1117	(1) AUXILIARY INPUT		1-G MUD RING, 1"C		X	CEILING MOUNTED MOTION DETECTOR	CEILING		
A	3.5MM STEREO AUDIO AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C		₩.	WALL MOUNTED MOTION DETECTOR LR: LONG RANGE	REFERENCE FLOOR PLAN	N/A	
(H)	HANGING MICROPHONE	CEILING MOUNT	N/A		-GB	CEILING MOUNTED GLASS BREAK	CEILING	N/A	
ABM	AUXILIARY INPUT AND BLUETOOTH MIXER	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C			DETECTOR			
RACK	VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK	WALL MOUNT UNO	N/A		DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR.
WA	WIRELESS ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C		[SDC]	SURFACE MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
ALA	ASSISTED LISTENING ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C		[ODC]	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
SUB	SUBWOOFER	CEILING MOUNT UNO			DB	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	
<u>NOTES:</u> 1. #-G	INDICATES BACK BOX SIZE.		1		<u>NOTES:</u> 1. #-G	NDICATES BACK BOX SIZE.		•	-

#-C INDICATES CONDUIT SIZE.

. UNO: UNLESS NOTED OTHERWISE THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR. 5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

	INTERCO	M LEGEND	0 - 27 50 00	
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ICS	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
S	CEILING MOUNT INTERCOM SPEAKER, LAY-IN CEILING	CEILING	CONTRACTOR PROVIDED	
<u>(S2</u> )	CEILING MOUNT INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
<u>(\$3)</u>	WALL MOUNT INTERIOR INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
<u>(</u> \$4)	WALL MOUNT EXTERIOR INTERCOM SPEAKER	+10' AFF UNO	CONTRACTOR PROVIDED	
S5)	PENDANT MOUNT INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
<u>(\$6)</u>	SURFACE MOUNT INTERCOM SPEAKER, MOUNT TO STRUCTURE	CEILING	CONTRACTOR PROVIDED	
§7)	CEILING MOUNTED EXTERIOR INTERCOM SPEAKER.	CEILING	CONTRACTOR PROVIDED	
#IP	IP BASED SPEAKER. '#' TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
VC	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
СВ	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
$\bigcirc$	SINGLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
©2)	DOUBLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RPS	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
ACS	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5
LD	LOCKDOWN BUTTON	REF. DETAILS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
	LARGE MESSAGE BOARD, POE+ POWERED	REFERENCE FLOOR PLANS		NOTE #5
<ol> <li>2. #-C IN</li> <li>3. UNO:</li> <li>4. THE S PROJ</li> </ol>	IDICATES BACK BOX SIZE. IDICATES CONDUIT SIZE. UNLESS NOTED OTHERWISE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX A ECTS ELECTRICAL CONTRACTOR. IDE AND INSTALL ONE (1) CATEGORY CABLE TO CON			IN BY THE

UNO: UNLESS NOTED OTHERWISE
 PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

	VIDEO SURV	EILLANCE LE	EGEND - 28 20 0	0
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
H A	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
K K	2-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
K	1-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
VRS	VIDEO RECORDING SERVER			
#MU	VIDEO SURVEILLANCE MAIN UNIT	ABOVE CEILING		NOTE #5
F	SYMBOL INDICATED THAT A VIDEO SURVEILLANCE DEVICE IS WALL MOUNTED			

NOTES: 1. #-G INDICATES BACK BOX SIZE.

#-C INDICATES CONDUIT SIZE.
 UNO: UNLESS NOTED OTHERWISE

REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

	FIRE ALARM - 28 46 00
SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL
FAA	FIRE ALARM ANNUNCIATOR PANEL
NOTES:	

FIRE ALARM SYSTEM IS PERFORMANCE BASED PER SPECIFICATIONS. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

TEXT		-	VTER			
'WP'	DEVICE SHALL BE WEATHER PROOF AND RA	IED FOR E	XTERIO	R CONL	DITIONS	
_						
AFF			/.			
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERS	SIDE OF THE	EELEVA	TED CA	NOPY.	
'WM'	DEVICE IS TO BE WALL MOUNTED.					
'WG'	WIRE GUARD TO BE PROVIDED AND INSTALL	ED TO PRO	TECT A	SSOCIA	TED DEVICE.	
SUBS	CRIPTS LEGEND - EX	(ISTIN	IG [	DEV	ICES	
TEXT	DESCRIPT	ION				
'E'	EXISTING TO REMAIN.					
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.					
'R'	REMOVE EXISTING DEVICE AND RELOCATE T DRAWINGS.	O A LOCAT	ion ine	ICATED	ON THE	
			סר			
	NOTES TO CONTR					
I. EVERY SYMB	OL SHOWN ON LEGEND MAY NOT APPEAR ON	DRAWINGS				
	ALLERS SHALL COORDINATE LOCATIONS AND CONTRACTOR.	CONNECTI	ONS WI	TH THE	PROJECT'S	
	r to provide properly grounded lightin Id exiting the building.	G PROTEC	HON OF	ALL C	ABLING	
	RESPONSIBILITY MA					
	SCOPE ITEM	RES	PONSIB	ILITY	NOTES	
OMMUNICATION		OFOI	CFCI	OFCI		
ATEGORY 6/6A S	TRUCTURED CABLING SYSTEM (SCS)	$\checkmark$				
	ON SYSTEM - SPECIAL SPACE		$\checkmark$		SEE NOTE 4.	
UDIO DISTRIBUTI	ON SYSTEM - INSTRUCTIONAL SPACE					
AT PANEL DISPL						
AT PANEL DISPL						
TERACTIVE DISF		V				
ITERACTIVE DISF		- <u>v</u> ./				
	DM/PA, BELL, AND CLOCK SYSTEM		$\checkmark$			
NETWORK SWIT		J				
ETWORK EQUIPM			<b>۱</b> ــــــــــــــــــــــــــــــــــــ	ı		
→ MDF/IDF NETW	ORK EQUIPMENT	$\checkmark$				
→ VOIP TELEPHOI	NES					
→ WIRELESS ACC	ESS POINTS					
	BLE POWER SUPPLIES (UPS)	Ţ,				
			$\checkmark$		SEE NOTE 1.	
ACEWAY: CONDU	JII, BACK BUXES, ETC.		1 -	1		
ACEWAY: CONDU	ACEWAY, SLEEVES				SEE NOTF 1	
ACEWAY: CONDU OW VOLTAGE: RA			$\checkmark$		SEE NOTE 1. SEE NOTE 5.	
ACEWAY: CONDU OW VOLTAGE: RA TRUCTURED CAE	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES		√ 		SEE NOTE 5.	
ACEWAY: CONDU OW VOLTAGE: RA TRUCTURED CAE LECTRICAL POW	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES			OFCI		
ACEWAY: CONDU OW VOLTAGE: RA TRUCTURED CAE LECTRICAL POW	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28			OFCI	SEE NOTE 5.	
ACEWAY: CONDU OW VOLTAGE: RA TRUCTURED CAE LECTRICAL POW IFE SAFETY AND CCESS CONTROI	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28 L SYSTEM(ACS)			OFCI	SEE NOTE 5.	
ACEWAY: CONDU OW VOLTAGE: RA TRUCTURED CAE LECTRICAL POW IFE SAFETY AND CCESS CONTROI ITRUSION DETEC	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28 L SYSTEM(ACS)			OFCI	SEE NOTE 5.	
ACEWAY: CONDU DW VOLTAGE: RA TRUCTURED CAE LECTRICAL POW FE SAFETY AND CCESS CONTROI ITRUSION DETEC OOR ACCESS VIE	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28 L SYSTEM(ACS) CTION SYSTEM			OFCI	SEE NOTE 5.	
ACEWAY: CONDU OW VOLTAGE: RA TRUCTURED CAE LECTRICAL POW IFE SAFETY AND CCESS CONTROI ITRUSION DETEC OOR ACCESS VII IDEO SURVEILLA	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28 L SYSTEM(ACS) CTION SYSTEM DEO INTERCOM SYSTEM		$\frac{\sqrt{3}}{\sqrt{3}}$	OFCI	SEE NOTE 5.	
ACEWAY: CONDU DW VOLTAGE: RA IRUCTURED CAE LECTRICAL POW <b>FE SAFETY AND</b> CCESS CONTROL TRUSION DETEC DOR ACCESS VIE DEO SURVEILLA VSS SERVERS	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28 L SYSTEM(ACS) CTION SYSTEM DEO INTERCOM SYSTEM			OFCI	SEE NOTE 5.	
ACEWAY: CONDU DW VOLTAGE: RA TRUCTURED CAE LECTRICAL POW <b>FE SAFETY AND</b> CCESS CONTROL TRUSION DETEC OOR ACCESS VIE DEO SURVEILLA VSS SERVERS VSS CAMERAS	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28 L SYSTEM(ACS) ETION SYSTEM DEO INTERCOM SYSTEM NCE SYSTEM (VSS)		$\frac{\sqrt{3}}{\sqrt{3}}$	OFCI	SEE NOTE 5.	
ACEWAY: CONDU DW VOLTAGE: RA TRUCTURED CAE LECTRICAL POW IFE SAFETY AND CCESS CONTROI ITRUSION DETEC OOR ACCESS VIE IDEO SURVEILLA VSS SERVERS VSS CAMERAS	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28 L SYSTEM(ACS) ETION SYSTEM DEO INTERCOM SYSTEM NCE SYSTEM (VSS)	OFOI	$\frac{\sqrt{3}}{\sqrt{3}}$	OFCI	SEE NOTE 5. SEE NOTE 1.	
ACEWAY: CONDU OW VOLTAGE: RA TRUCTURED CAE LECTRICAL POW IFE SAFETY AND CCESS CONTROI VTRUSION DETEC OOR ACCESS VII OOR ACCESS VII DEO SURVEILLA > VSS SERVERS > VSS CAMERAS > VSS PROGRAMI > VSS CABLING	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28 L SYSTEM(ACS) CTION SYSTEM DEO INTERCOM SYSTEM NCE SYSTEM (VSS) MING		$\frac{\sqrt{3}}{\sqrt{3}}$	OFCI	SEE NOTE 5.	
ACEWAY: CONDU OW VOLTAGE: RA TRUCTURED CAE LECTRICAL POW IFE SAFETY AND CCESS CONTROI ITRUSION DETEC OOR ACCESS VII IDEO SURVEILLA > VSS SERVERS > VSS CAMERAS > VSS PROGRAMM > VSS CABLING IRE ALARM SMOP	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28 L SYSTEM(ACS) CTION SYSTEM DEO INTERCOM SYSTEM NCE SYSTEM (VSS) MING KE DETECTION WITH VOICE EVACUATION	OFOI	$\frac{\sqrt{3}}{\sqrt{3}}$	OFCI	SEE NOTE 5.	
ACEWAY: CONDU OW VOLTAGE: RA TRUCTURED CAE LECTRICAL POW IFE SAFETY AND CCESS CONTROL TRUSION DETECTION TRUSION DETECTION OOR ACCESS VIE JOOR ACCESS VIE DOOR ACCESS VIE DOOR ACCESS VIE SOOR ACCESS VIE VSS SERVERS VSS CAMERAS VSS CAMERAS VSS CABLING IRE ALARM SMOR ACEWAY: CONDU	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28 L SYSTEM(ACS) CTION SYSTEM DEO INTERCOM SYSTEM NCE SYSTEM (VSS) MING KE DETECTION WITH VOICE EVACUATION JIT, BACK BOXES, SLEEVES, ETC.	OFOI	$\frac{\sqrt{3}}{\sqrt{3}}$	OFCI	SEE NOTE 5. SEE NOTE 1. SEE NOTE 5. SEE NOTE 1.	
ACEWAY: CONDU DW VOLTAGE: RA TRUCTURED CAE LECTRICAL POW IFE SAFETY AND CCESS CONTROI ITRUSION DETEC OOR ACCESS VIE IDEO SURVEILLA VSS SERVERS VSS CAMERAS VSS PROGRAMI VSS CABLING RE ALARM SMOR ACEWAY: CONDU LECTRICAL POW	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28 L SYSTEM(ACS) CTION SYSTEM DEO INTERCOM SYSTEM NCE SYSTEM (VSS) MING KE DETECTION WITH VOICE EVACUATION JIT, BACK BOXES, SLEEVES, ETC. ER	OFOI	$\frac{\sqrt{3}}{\sqrt{3}}$	OFCI	SEE NOTE 5.	
ACEWAY: CONDU W VOLTAGE: RA RUCTURED CAE ECTRICAL POW E SAFETY AND CCESS CONTROL TRUSION DETEC DOR ACCESS VIE DOR ACCESS VIE DEO SURVEILLA VSS SERVERS VSS CAMERAS VSS PROGRAM VSS CABLING RE ALARM SMOR ACEWAY: CONDU ECTRICAL POW	ACEWAY, SLEEVES BLING: RACEWAY, SLEEVES ER SECURITY - DIVISION 28 L SYSTEM(ACS) CTION SYSTEM DEO INTERCOM SYSTEM NCE SYSTEM (VSS) MING KE DETECTION WITH VOICE EVACUATION JIT, BACK BOXES, SLEEVES, ETC.	OFOI	$\frac{\sqrt{3}}{\sqrt{3}}$	OFCI	SEE NOTE 5. SEE NOTE 1. SEE NOTE 5. SEE NOTE 1.	

. IF SYSTEM REQUIRES NETWORK SWITCH IT SHALL BE OFOI. CONTRACTOR TO COORDINATE WITH OWNER. SLEEVES FOR STRUCTURED CABLING WILL BE OWNER FURNISHED, OWNER INSTALLED. NOT TO BE USED BY ANY OTHER TRADE.





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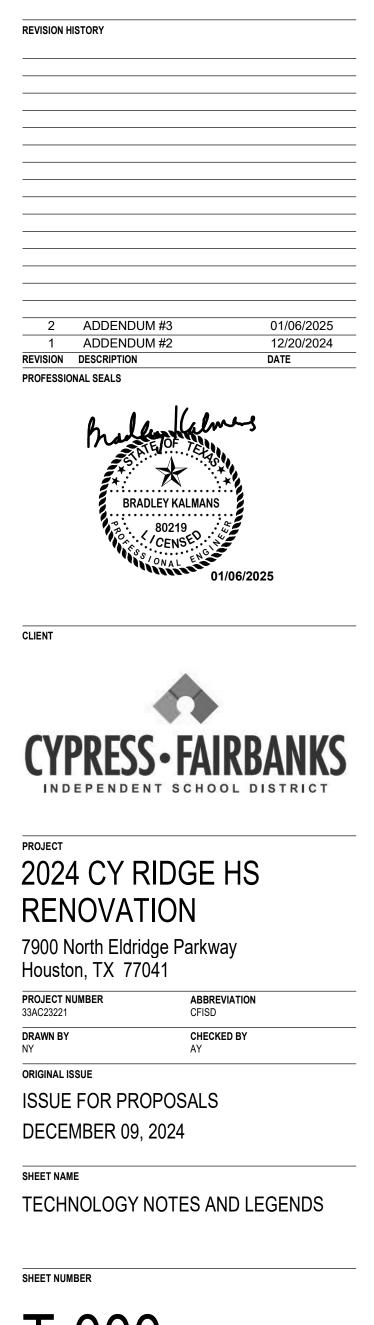
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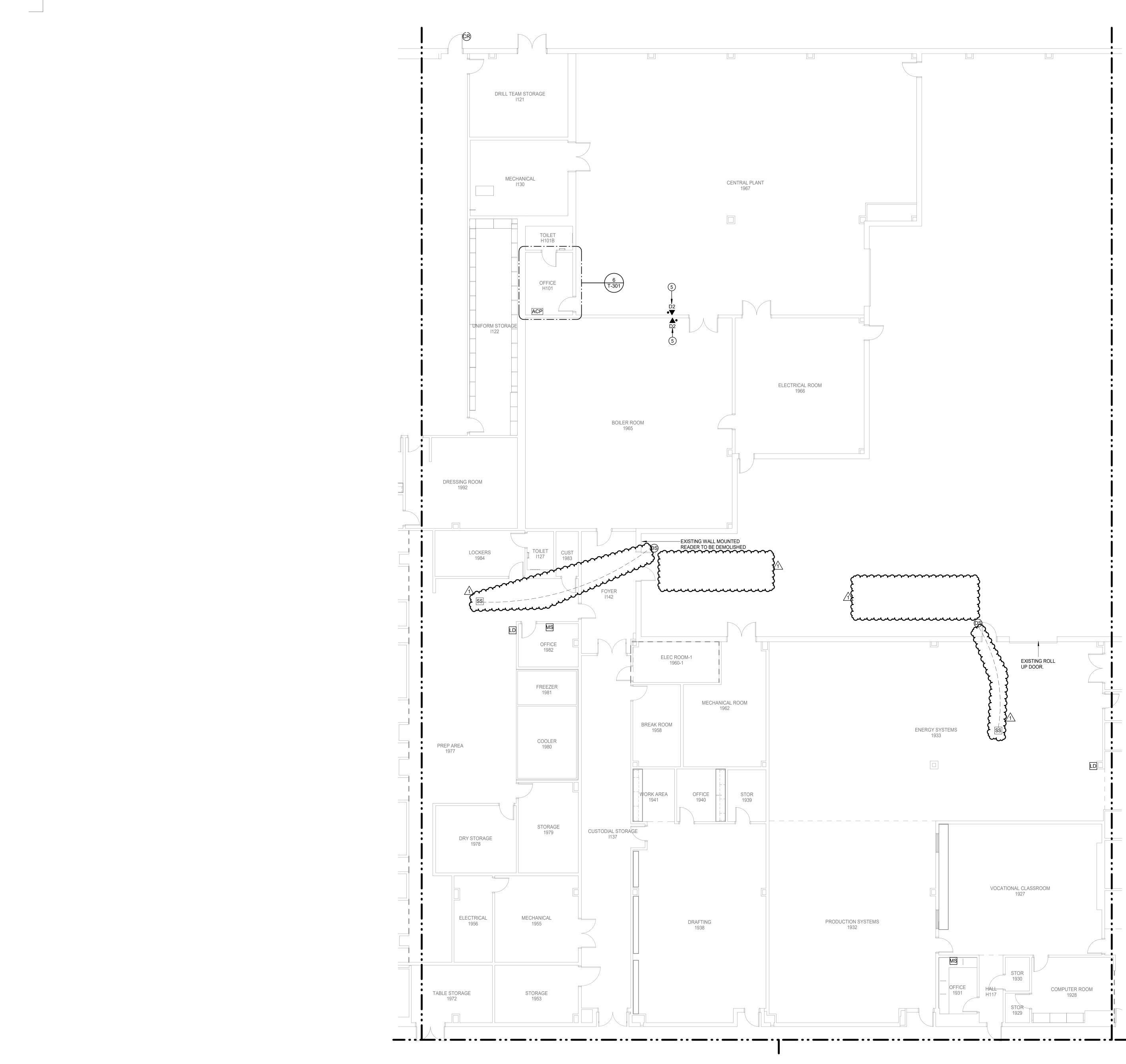
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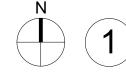
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T-000





# 1 **TECHNOLOGY FLOOR PLAN - LEVEL 01 - AREA I** Scale: 1/8" = 1'-0"



#### **TECHNOLOGY PLAN KEY NOTES** INDICATED LOCAL SOUND SYSTEM SPEAKER SHALL BE DIRECTED AT CENTER COURT 1

- INDICATED LOCAL SOUND SPEAKER SHALL BE DIRECTED AT 2 BLEACHERS.
- 3 NEW LOCAL SOUND SYSTEM HEAD END EQUIPMENT SHALL BE LOCATED IN EXISTING GYM AV RACK.
- INTERCOM SPEAKERS IN THIS ROOM SHALL BE CONNECTED TO INTERCOM SYSTEM ANALOG GATEWAY. THESE SPEAKERS SHALL BE 4 MOUNTED TO PIPE GRID WITH CONTRACTOR PROVIDED AND INSTALLED BEAM CLAMPS. SPEAKERS AND CLAMPS SHALL BE PAINTED BLACK BY CONTRACTOR.
- DATA RESERVED FOR BMCS SYSTEM. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR. 5

6

SYSTEM HEAD END.



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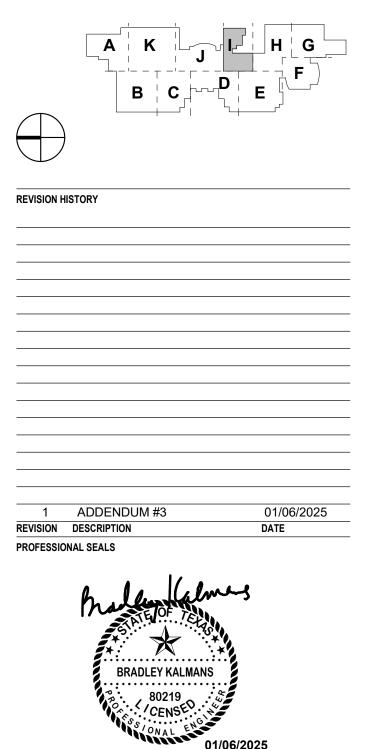
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KEYPLAN



CLIENT



# PROJECT 2024 CY RIDGE HS RENOVATION

7900 North Eldridge Parkway Houston, TX 77041

PROJECT NUMBER ABBREVIATION

CFISD 33AC23221

DRAWN BY CHECKED BY AY

ORIGINAL ISSUE

ISSUE FOR PROPOSALS

DECEMBER 09, 2024

SHEET NAME

TECHNOLOGY FLOOR PLAN - LEVEL 1 -AREA I

SHEET NUMBER

T-209-I

INDICATED ACS NETWORK CABLE SHALL CONNECTED DIRECTLY TO PA