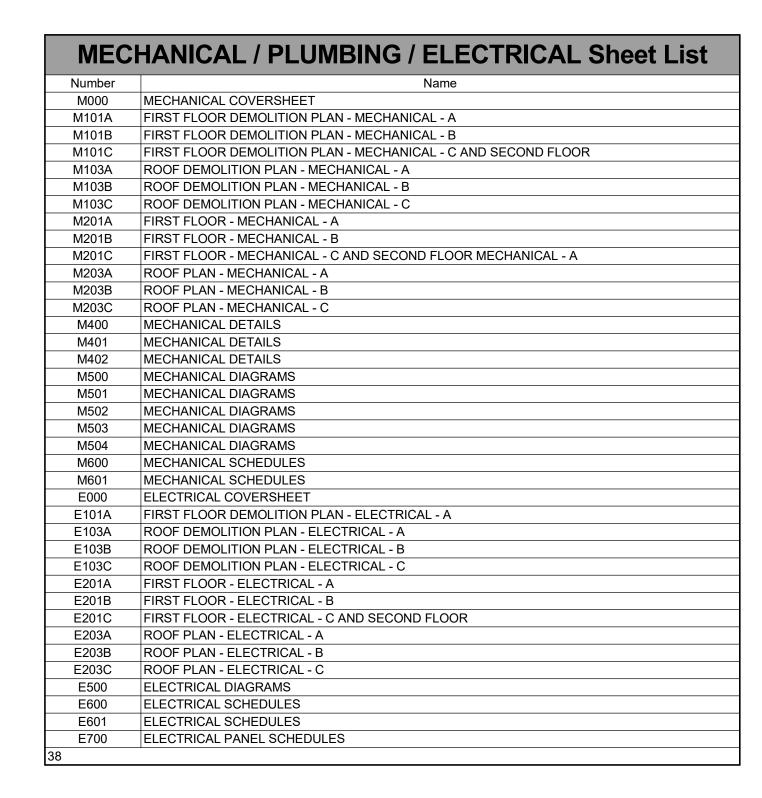
# Rockford Public School District #205

1750 Madron Rd, Rockford, IL 61107

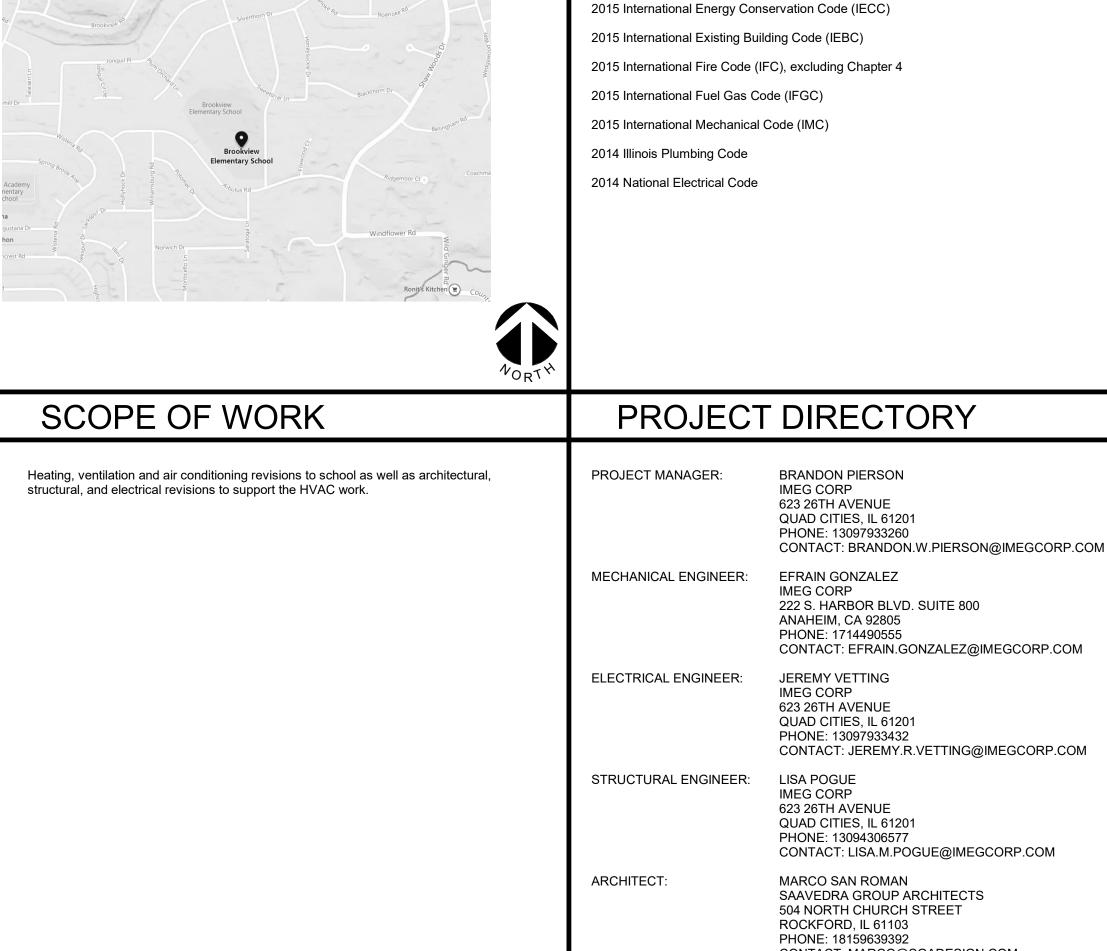
IFB# 23-16 PROJECT NUMBER: 2306

# ESSER HVAC Improvements - Brookview Elementary School

	ARCHITECTURAL Sheet List
C000	PROJECT COVERSHEET
G000	GENERAL INFORMATION
G001	FIRST FLOOR & SECOND CODE PLAN
G002	FINISH ROOM SCHEDULE FIRST & SECOND FLOOR
D101A	FIRST FLOOR DEMOLITION PLAN AREA A
D101B	FIRST FLOOR DEMOLITION PLAN AREA B
D101C	FIRST FLOOR DEMOLITION PLAN AREA C
A101A	FIRST FLOOR PLAN AREA A
A101B	FIRST FLOOR PLAN AREA B
A101C	FIRST FLOOR PLAN AREA C & SECOND FLOOR PLAN AREA A
A201A	FIRST FLOOR REFLECTED CEILING PLAN AREA A
A201B	FIRST FLOOR REFLECTED CEILING PLAN AREA B
A201C	FIRST FLOOR REFLECTED CEILING PLAN AREA C
A202A	SECOND FLOOR REFLECTED CEILING PLAN AREA A
A301	ROOF PLAN
15	







APPLICABLE CODES

CONTACT: MARCO@SGADESIGN.COM Structural Engineer: M/P Engineer: Architect: E Engineer: IMEG Corp. **Saavedra Group Architects** IMEG Corp. IMEG Corp. 504 North Church Street 623 26th Avenue Rockford, IL 61103 Rock Island, IL 61201 Rock Island, IL 61201 Rock Island, IL 61201 LICENSE EXP: mm/dd/yyyy LICENSE EXP: mm/dd/yyyy LICENSE EXP: mm/dd/yyyy LICENSE EXP: mm/dd/yyyy



ESSER HVAC Improvements - Brookview Elementary School

1750 Madron Rd, Rockford, IL 61107

Rockford Public School District #205



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REVISIONS

Date Revision / Issue

SHEET INFORMATION

Construction Documents

November 03, 2022

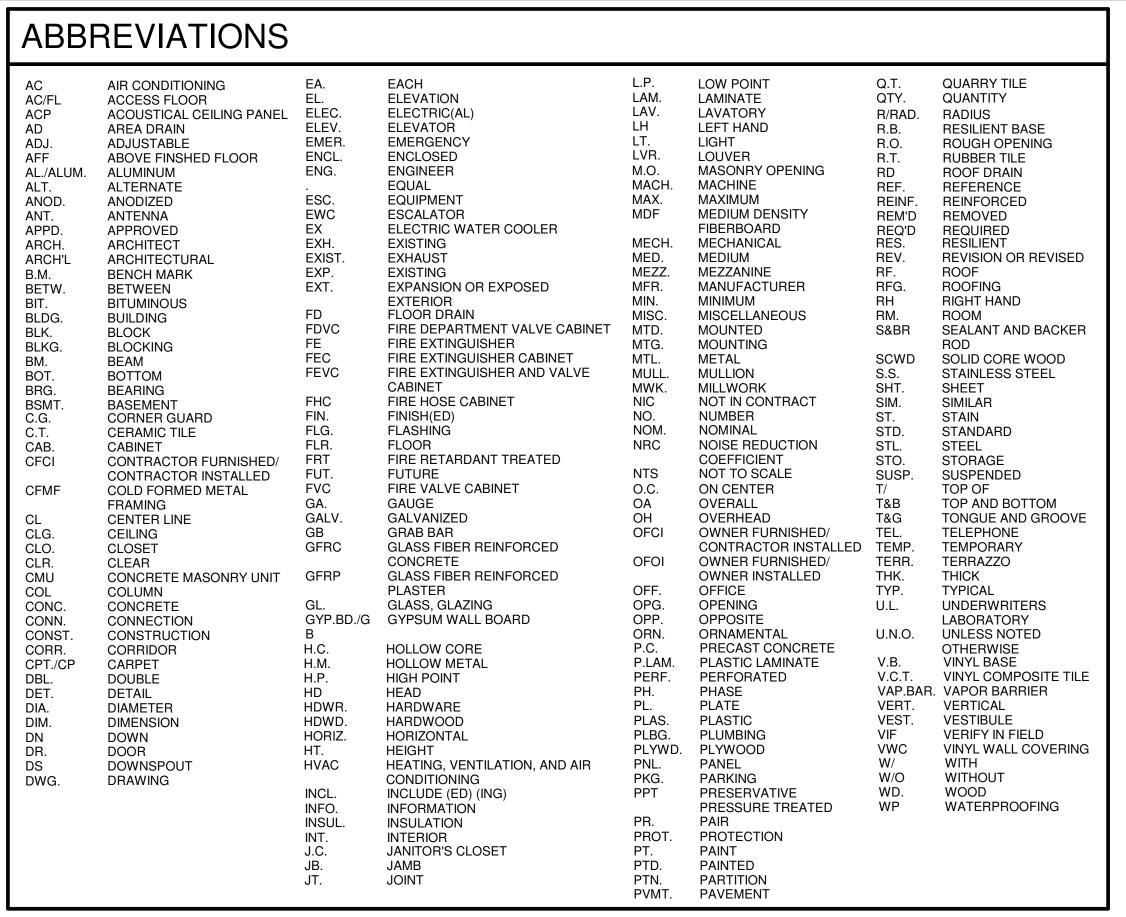
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PROJECT COVERSHEET

Scale:

SHEET NUMBER

400000F 40 44/2/2022 2:45.00 DM = 555ED UVA



WALL TYPE

CONTINUE ENTIRE PARTITION

SHAPE OF STRUCTURE.

5/8" IR TYPE X- GB (BOTH SIDES)

WALL BASE - REFER TO

07 | 1 HOUR RATED PARTITION

UL DESIGN NO U465

ROOM FINISH PLAN.

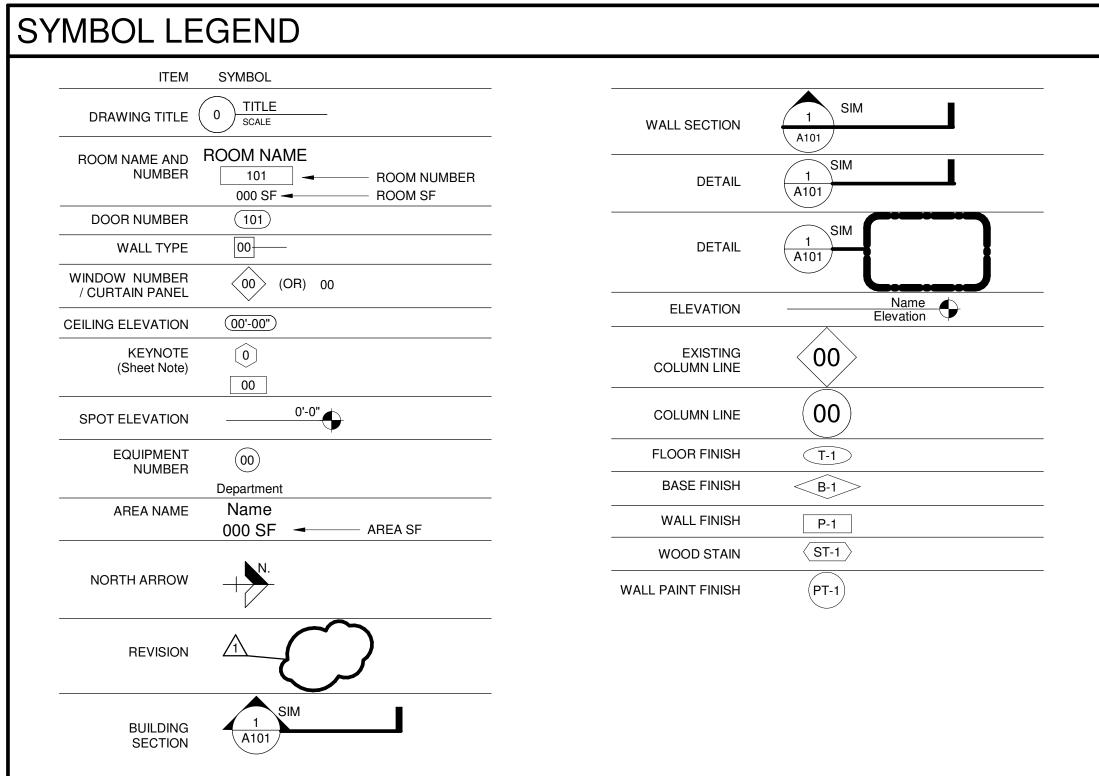
3 5/8" METAL STUDS @ 16"OC

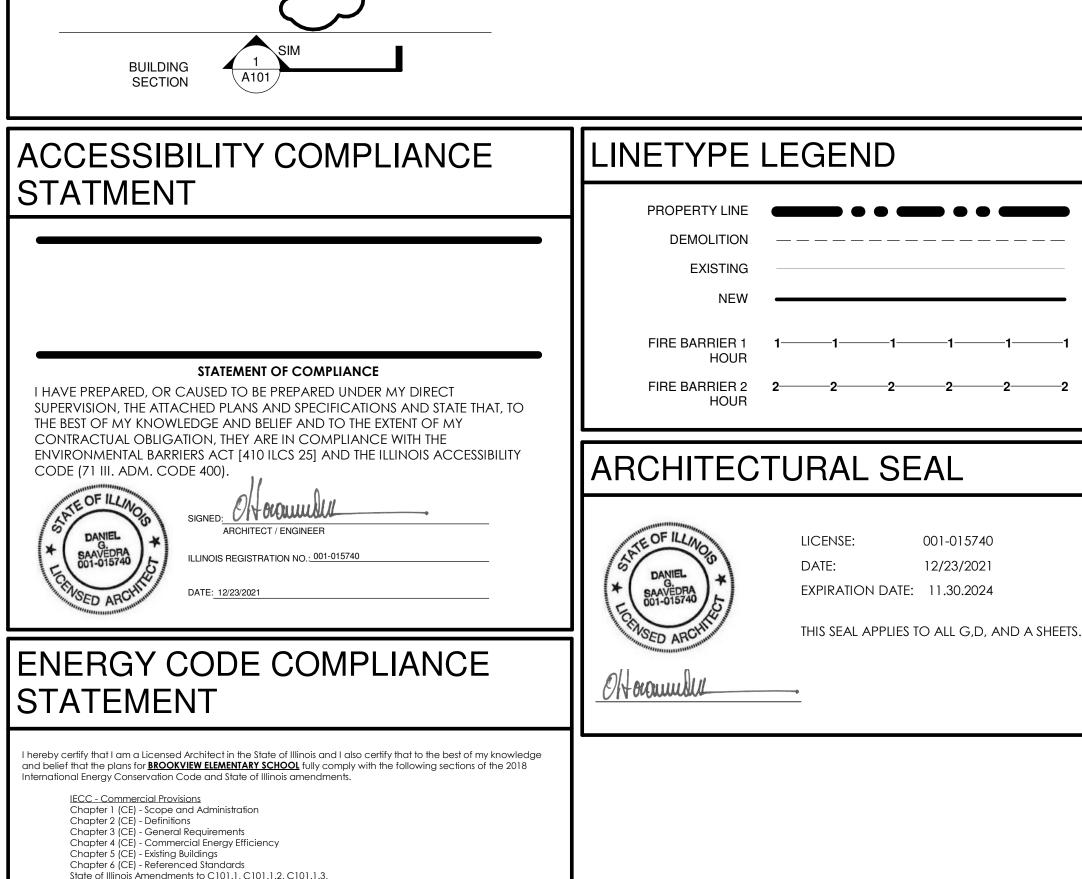
FROM FLOOR STRUCTURE TO

STRUCTURE ABOVE. FOLLOW

WALL TO BE FIRE TAPED BOTH SIDES TIGHT TO DECK

CEILING - SEE ROOM FINISH SCHEDULE





### GENERAL DEMOLITION NOTES

PERFORM DEMOLITION WORK AS NECESSARY TO ACCOMPLISH THE WORK INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ITEMS WHICH ARE EXPOSED AND NOT TO REMAIN IN USE, INCLUDING BUT NOT NECESSARILY LIMITED TO ELECTRICAL ITEMS, ELECTRICAL DEVICES, MECHANICAL ITEMS, PLUMBING ITEMS, ETC.

DRAWINGS INDICATE THE GENERAL INTENT OF THE DEMOLITION WORK AND AR FOR REFERENCE PURPOSES ONLY. THEY ARE NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS TO BE DEMOLISHED.

EXACT EXTENT OF DEMOLITION AS SHOWN ON DRAWINGS AND TO BE PERFORMED SHALL BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE DRAWINGS WITH EXISTING SITE CONDITIONS. OPERATIONS SHALL BE DONE IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY, AND INTERFERENCE WITH THE USE OF ADJACENT AREAS, AND INTERRUPTION OF FREE PASSAGE TO AND FROM SUCH AREAS.

CONTRACTOR TO PERFORM REQUIRED DEMOLITION AND TO LAWFULLY AND PROPERLY DISPOSE OF DEMOLISHED MATERIAL, OTHER OBSTACLES, DEBRIS, AND MATERIALS INCIDENTAL TO THE WORK FROM THE SITE.

CONTRACTOR TO TAKE SPECIAL PRECAUTIONS TO ENSURE EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED DURING DEMOLITION. IF ANY ITEM INDICATED TO BE REMOVED, STORED AND/OR REINSTALLED IS DAMAGED DURING THE DEMOLITIONS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE THE ITEM TO ITS PRE-DEMOLITION CONDITION, IF ANY ITEM SCHEDULED FOR DEMOLITION WAS DAMAGED PRIOR TO DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE PERFORMING THE DEMOLITION WORK.

WHETHER OR NOT SPECIFICALLY INDICATED, THE CONTRACTOR SHALL RELOCATE EXISTING MECHANICAL, ELECTRICAL AND PLUMBING DEVICES AS REQUIRED INCLUDING BUT NOT LIMITED TO REROUTING CONDUITS, WIRING, PIPING, ETC. TO ACCOMMODATE THE WORK. PROVIDE NEW DEVICES INCLUDING BUT NOT LIMITED TO CONDUITS, WIRING, PIPING, ETC AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING SYSTEMS.

### GENERAL NOTES

ALLOW FOR OWNER'S REUSE.

EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF WORK INCLUDED UNDER THE

FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND

MAINTAIN REQUIRED EXITS FROM THE EXISTING BUILDING AND SITE ACCESS

ITEMS NOTED AS EXISTING ARE TO REMAIN, UNLESS OTHERWISE NOTED.

VERIFY WITH OWNER ITEMS TO BE SALVAGED AND RETURNED TO OWNER. INCLUDING BUT NOT NECESSARILY LIMITED TO MECHANICAL, ELECTRICAL,

EXISTING LOOSE ITEMS INCLUDING FURNITURE, EQUIPMENT, AND SUPPLIES SHALL BE REMOVED BY OWNER AS NECESSARY. COORDINATE MOVING SCHEDULE WITH OWNER FOR LOOSE ITEMS TO BE REMOVED BY OWNER PRIOR TO START OF THE WORK.

REMOVE AND REINSTALL EXISTING CEILINGS, MECHANICAL, AND ELECTRICAL EQUIPMENT, DEVICES, LIGHTING, EXIT SIGNS, FIRE ALARM DEVICES, CONDUIT, WIRING, ETC. AS REQUIRED TO ACCOMPLISH REMOVAL AND INSTALLATION OF NEW WORK, UNLESS OTHERWISE NOTED, VERIFY THE OPERATING CONDITION OF EQUIPMENT PRIOR TO THE START OF THE WORK AND REPORT CONDITIONS TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE

AT LOCATIONS WHERE NEW ELECTRICAL CONDUITS, MECHANICAL AND PLUMBING PIPING, ETC. PENETRATE THROUGH NEW OR EXISTING WALLS, INSTALL UL RATED THROUGH-PENETRATION FIRE STOPPING SYSTEM AROUND CONDUITS AND PIPING, ETC. TO PROVIDE A COMPLETE FIRE RATED SEPARATION AS REQUIRED.

WHERE NEW PENETRATIONS ARE MADE IN EXISTING WALLS AND FLOORS AND WHERE DEMOLITION HAS OCCURRED, CONTRACTOR SHALL RECONSTRUCT WALL OR FLOOR TIGHT AROUND PENETRATION WITH MATERIALS TO MATCH

0. PATCH AND REPAIR EXISTING CONSTRUCTION, EXISTING SURFACES, AND AND FINISHES CONSISTENT WITH EXISTING TO MATCH ADJACENT SURFACES AND FINISHES, WHETHER SHOWN OR NOT ON THE DRAWINGS, TYP. - UNLESS NOTED OTHERWISE. PROVIDE NECESSARY AND REQUIRED PREPARATORY AND PROPER FINISHES.

. RESTORE ITEMS/DAMAGED AREAS AT STAGING AREAS, ETC. TO ORIGINAL

12. CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING AND ADJUSTING CONDUITS, MECHANICAL, PLUMBING, FLOOR DRAIN COVERS, ETC.

3. PATCH, REPAIR, AND PAINT EXISTING WALLS AND CEILINGS AS REQUIRED IN AREAS WHERE MECHANICAL SYSTEMS AND SUPPORTS, PLUMBING SYSTEMS AND SUPPORTS, AND EQUIPMENT AND SUPPORTS WERE REMOVED. PATCH, REPAIR, AND PAINT WALLS AND CEILINGS TO MATCH ADJACENT SURFACE.

PAVING, GRASS, LANDSCAPING, ETC. FROM DAMAGE DURING CONSTRUCTION. REPLACE ANY DISTURBED AND DAMAGED AREAS WITH NEW LIKE MATERIALS, SOD, LANDSCAPING, ETC, MATCHING EXISTING.

15. EXISTING ENTRANCES AND DRIVES MUST REMAIN OPEN AND PASSABLE.

17. COORDINATE STAGING AREA/LOCATIONS WITH OWNER.

QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.

THROUGH SUBSTANTIAL COMPLETION.

PLUMBING, ETC. ITEMS TO BE SALVAGED SHALL BE CAREFULLY REMOVED AS TO

REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.

EXISTING WALL OR FLOOR CONSTRUCTION.

NEWLY EXPOSED CONSTRUCTION AFFECTED BY THE WORK WITH MATERIALS WORK TO EXISTING CONSTRUCTION AFFECTED BY THE WORK TO RECEIVE NEW

FULLY FUNCTIONAL CONDITION.

EXISTING ITEMS WHETHER SHOWN OR NOT, INCLUDING ELECTRICAL, WIRING,

PROPERLY PROTECT EXISTING BUILDING, CONCRETE WALKS, CURBS,

6. MAINTAIN REQUIRED EXITS FROM THE EXISTING BUILDING THROUGH SUBSTANTIAL COMPLETION.

18. CONTRACTOR TO AVOID EXISTING ROOF AREAS WHERE NO WORK IS REQUIRED. DO NOT STAGE MATERIALS ON EXISTING ROOFING AREAS. DAMAGE TO EXISTING ROOF AREAS CAUSED BY CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AND PROVIDE A WATERTIGHT CONDITION THAT MATCHES ADJACENT ROOF SYSTEM. MAINTAIN EXITING WARRANTIES.

19. G.C. TO ENSURE THAT ANY FIRE RATED WALL SHALL MAINTAIN ITS FIRE RATING.

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ESSER HVAC Improvements -Brookview Elementary School

1750 Madron RD. Rockford IL, 61107 Rockford Public School

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AGENCY APPROVAL

REVISIONS

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> REFERENCE SCALE IN INCHES

> > Revision / Issue

CONSTRUCTION DOCUMENTS Checked

> **GENERAL INFORMATION**

As indicated

C101.5, C102.1.1, C109.1, C109.3, C402.2.2, C402.5.1, C402.5.1.1 and C503.1

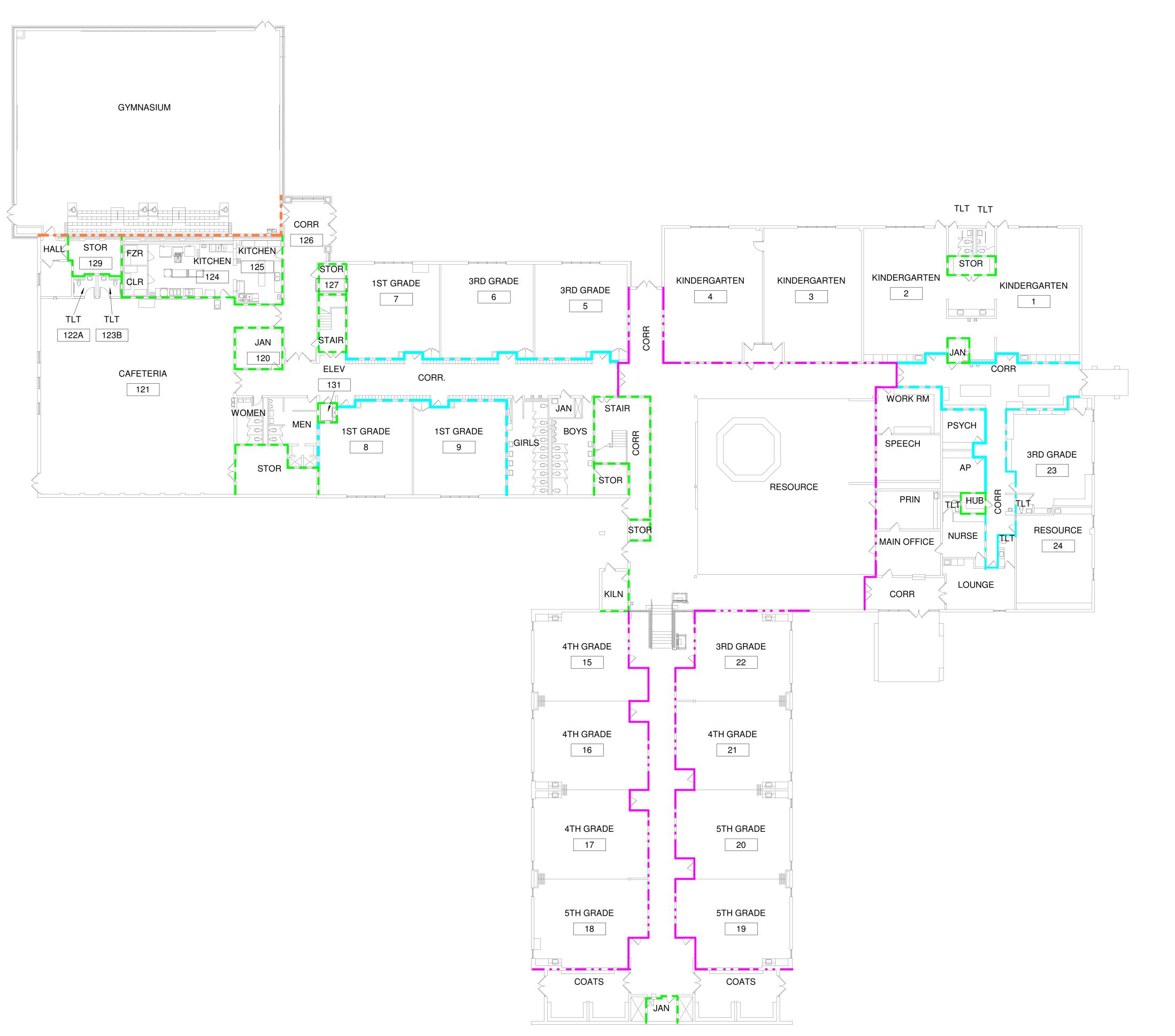
ncluding attached supporting documentation and calculations.

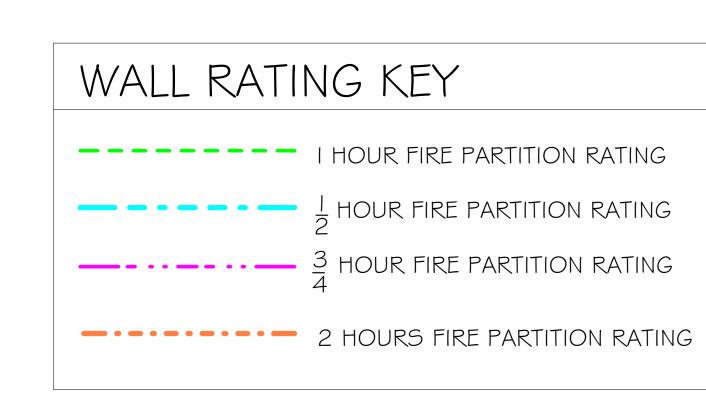
accordance with Illinois Amendment to C101.5, US DOE COMcheck Energy Code Compliance Certificates have een submitted to the AHJ (Authority Having Jurisdiction) along with all associated supporting documentation. In accordance with IECC Section 103.2. Insulation materials and R-values, Fenestration U-factors and SHGC's, area reighted U-factors and SHGC calculations, mechanical system design criteria, mechanical system and service hot ater system equipment types, sizes and efficiencies, economizer description, equipment and system controls, fan mot orsepower and controls, duct sealing, duct and pipe insulation and location, lighting and fixture schedules with rattage and control system, air sealing details and system commissioning requirements area detailed, described and

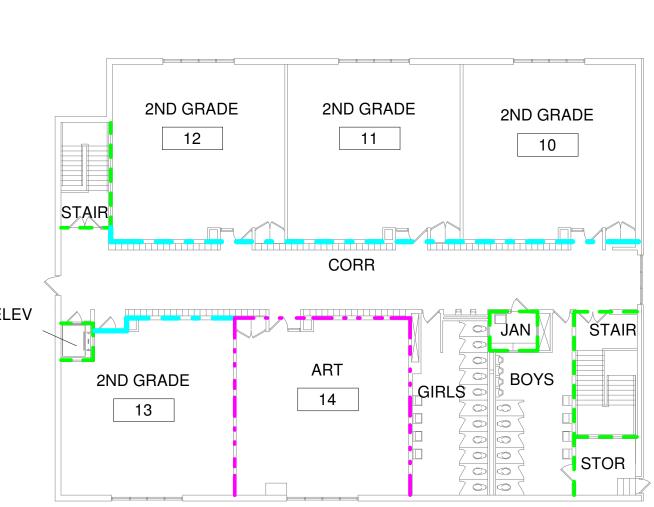
pecified in the construction documents (Drawings and Project Manual) and the COMcheck Compliance Certificate

SHEET NUMBER

SCALE











623 26TH AVENUE QUAD CITIES, IL 61201

PH: 309.788.0673 FAX: 309.786.5967 www.imegcorp.com

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1750 Madron RD,
Rockford IL, 61107

Rockford Public School
District # 205

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REFERENCE SCALE IN INCHES

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No. Date Revision / Issue

CONSTRUCTION DOCUMENTS
November 3, 2022

Number 22006.60
vn MI
cked MS
roved DS/MS

FIRST FLOOR & SECOND CODE PLAN

= 1/16" = 1'-0"

G001

# **BROOKVIEW ELEMENTARY SCHOOL** BOOM EINICH SCHEDIIIE

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	FLO	OR			BASE				CEIL	ING				CEI	ILING	HT.		TRM		WA	ALL		KEYNOTE
VCT	CARPET	MATCH EXISTING	EXISTING	RUBBER	MATCH EXISTING	EXISTING	2 X2 SUSP. ACT.	GYPSUM BOARD	EXPOSED	GYPSUM BOARD SOFFIT	PAINT	EXISTING	9'-0" AFF	8'-5" AFF	8'-0" AFF	EXPOSED	EXISTING	EXISTING	CMU	GYPSUM BOARD	PAINT	EXISTING	

			<u>т</u> <u>т</u> о ∞ ∞	О Ф Ш	
		SECOND F	FLOOR		
B02	BOYS				1,2,4
G02	GIRLS				1,2,4
T20	STAIR				1,2,4
T21	STOR				1,2,4
T22	JAN				1,2,3
T23	CORR.				1,2,3
10	2ND GRADE				1,2,3
11	2ND GRADE				1,2,3
12	2ND GRADE				1,2,3
13	2ND GRADE				1,2,3
14	ART				1,2,3

### **ROOM FINISH SCHEDULE GENERAL NOTES:**

- A. DO NOT PAINT SUSPENDED ACOUSTICAL CEILING SYSTEM.
- B. PAINT ALL NEW EXPOSED DUCTWORK, CONDUIT, JUNCTION BOXES, ETC.INCLUDING ALL HANGERS, TRIM AND ASSOCIATED COMPONENTS WHETHER INDICATED OR NOT IN THE ROOM FINISH SCHEDULE.
- C. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
- D. PATCH TO MATCH EXISTING WALLS WHETHER INDICATED OR NOT TO ACCOMMODATE THE NEW WORK.
- E. PROVIDE GYPSUM BOARD CONTROL JOINTS ON HORIZONTAL AND VERTICAL SURFACES AT LOCATIONS INDICATED ON THE DRAWINGS.

### **ROOM FINISH SCHEDULE KEYNOTES:**

- 1. PATCH EXISTING FINISH FLOORING WHERE NEWLY EXPOSED SUBFLOOR, NEW FLOORING TO MATCH EXISTING IN COLOR, TEXTURE, SIZE AND THICKNESS
- 2. REINSTALL SALVAGED ACOUSTIC CEILING TILE TO MATCH EXISTING HEIGHT
- 3. PAINT INFILL WALL TO MATCH EXISTING ADJACENT WALL
- 4. PATCH, PREP, AND PAINT GYPSUM BOARD CEILING

### **GENERAL PAINTING NOTES:**

- 1. PROVIDE NEW PAINT FINISH AT EXISTING AREAS AFFECTED BY THE WORK, AS INDICATED IN THE ROOM FINISH SCHEDULE, AND AS NOTED ON THE DRAWINGS.
- 2. FIELD VERIFY ITEMS, CONDITIONS, QUANTITIES, ETC.
- 3. PROVIDE PREPARATION AS NECESSARY PRIOR TO PAINTING WORK INCLUDING BUT NOT LIMITED TO PATCHING HOLES AND OTHER AREAS OF DAMAGE, SECURING LOOSE TRIM, CONDUITS AND ANY OTHER WALL OR CEILING HARDWARE ITEMS REQUIRING ATTENTION.
- 4. PROPERLY PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING INCLUDING BUT NOT LIMITED.
- 5. PRIOR TO PAINTING WORK, PROVIDE TRI-SODIUM PHOSPHATE (TSP) CLEANING OF EXISTING SURFACES TO RECEIVE PAINT USING APPROVED METHODS OF CLEANING PER CHEMICAL MANUFACTURER'S REQUIREMENTS. PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING.
- 6. PAINT NEWLY EXPOSED WALL SURFACES PREVIOUSLY CONCEALED BY THE EXISTING CONDITIONS.PAINT THE ENTIRE WALL THAT WILL REMAIN VISIBLE.
- 7. DO NOT PAINT ELECTRICAL FIXTURES, HOUSINGS, ELECTRICAL WALL DEVICES, SAFETY DEVICES, FIRE ALARM EQUIPMENT INCLUDING PULLS, HORNS, VISUAL DEVICES, SMOKE AND HEAT DETECTORS, ETC. PAINT EXPOSED ELECTRICAL CONDUIT AND ELECTRICAL BOXES.
- 8. PAINT NEW ITEMS AS INDICATED.
- 9. PAINT NEW EXPOSED INTERIOR CONDUIT, JUNCTION BOXES, ETC. INCLUDING HANGERS, TRIM, AND ASSOCIATED COMPONENTS WITHIN FINISHED EXPOSED SPACES WHETHER
- 10. AT NEW MASONRY INFILL, PAINT ENTIRE WALL THAT WILL REMAIN VISIBLE.

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Revision / Issue

CONSTRUCTION DOCUMENTS

**FINISH ROOM FLOOR** 

BO1 BOYS

G002

### GENERAL COORDINATION NOTES

GENERAL CONTRACTOR TO COORDINATE DEMOLITION WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF TO WORK.

### GENERAL DEMOLITION NOTES

- PERFORM DEMOLITION WORK AS NECESSARY TO ACCOMPLISH THE WORK INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ITEMS WHICH ARE EXPOSED AND NOT TO REMAIN IN USE, INCLUDING BUT NOT NECESSARILY LIMITED TO ELECTRICAL ITEMS, ELECTRICAL DEVICES, MECHANICAL ITEMS, PLUMBING ITEMS, ETC.
- DRAWINGS INDICATE THE GENERAL INTENT OF THE DEMOLITION WORK AND ARE FOR REFERENCE PURPOSES ONLY. THEY ARE NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS TO BE DEMOLISHED.
- EXACT EXTENT OF DEMOLITION AS SHOWN ON DRAWINGS AND TO BE PERFORMED SHALL BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE DRAWINGS WITH EXISTING SITE CONDITIONS. OPERATIONS SHALL BE DONE IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY, AND INTERFERENCE WITH THE USE OF ADJACENT AREAS, AND INTERRUPTION OF FREE PASSAGE TO AND FROM SUCH AREAS.
- CONTRACTOR TO PERFORM REQUIRED DEMOLITION AND TO LAWFULLY AND PROPERLY DISPOSE OF DEMOLISHED MATERIAL, OTHER OBSTACLES, DEBRIS, AND MATERIALS INCIDENTAL TO THE WORK FROM THE SITE.
- CONTRACTOR TO TAKE SPECIAL PRECAUTIONS TO ENSURE EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED DURING DEMOLITION. IF ANY ITEM INDICATED TO BE REMOVED, STORED AND/OR REINSTALLED IS DAMAGED DURING THE DEMOLITIONS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE THE ITEM TO ITS PRE-DEMOLITION CONDITION. IF ANY ITEM SCHEDULED FOR DEMOLITION WAS DAMAGED PRIOR TO DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE PERFORMING THE
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### DEMOLITION KEY NOTES

- REMOVE WINDOW AC UNITS REFER TO MECHANICAL DRAWINGS.
- DEMOLISH UNIT ON ROOF. SEE MECHANICAL DRAWINGS AND ARCHITECTURAL ROOF PLANS.
- DEMOLISH OR REMOVE FLOOR GRILLES. UNDERGROUND DUCTWORK TO BE CAPPED AN ABANDONED.
- CORE/REMOVE MASONRY TO AS NECESSARY TO ROUTE NEW DUCTWORK OR NEW PIPING. IF CORING TIGHT TO NEW DUCTWORK OR NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU AND OR BRICK - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE PORTION OF EXISTING FRAMING AND PLASTER AS NECESSARY TO ACCOMODATE NEW DUCTWORK OR PIPING - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PERFORM THE NEW WORK AND SALVAGE FOR REINSTALATION.
- REMOVE PORTION OF EXISTING GYPSUM BOARD CEILING TO ACCOMMODATE NEW WORK - SEE MECHANICAL DRAWINGS.
- REMOVE PORTION OF EXISTING EXTERIOR MASONRY WALL TO ACCOMMODATE NEW WORK. SALVAGED FACEBRICK FOR REINSTALLATION. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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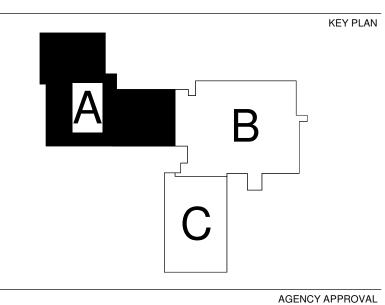
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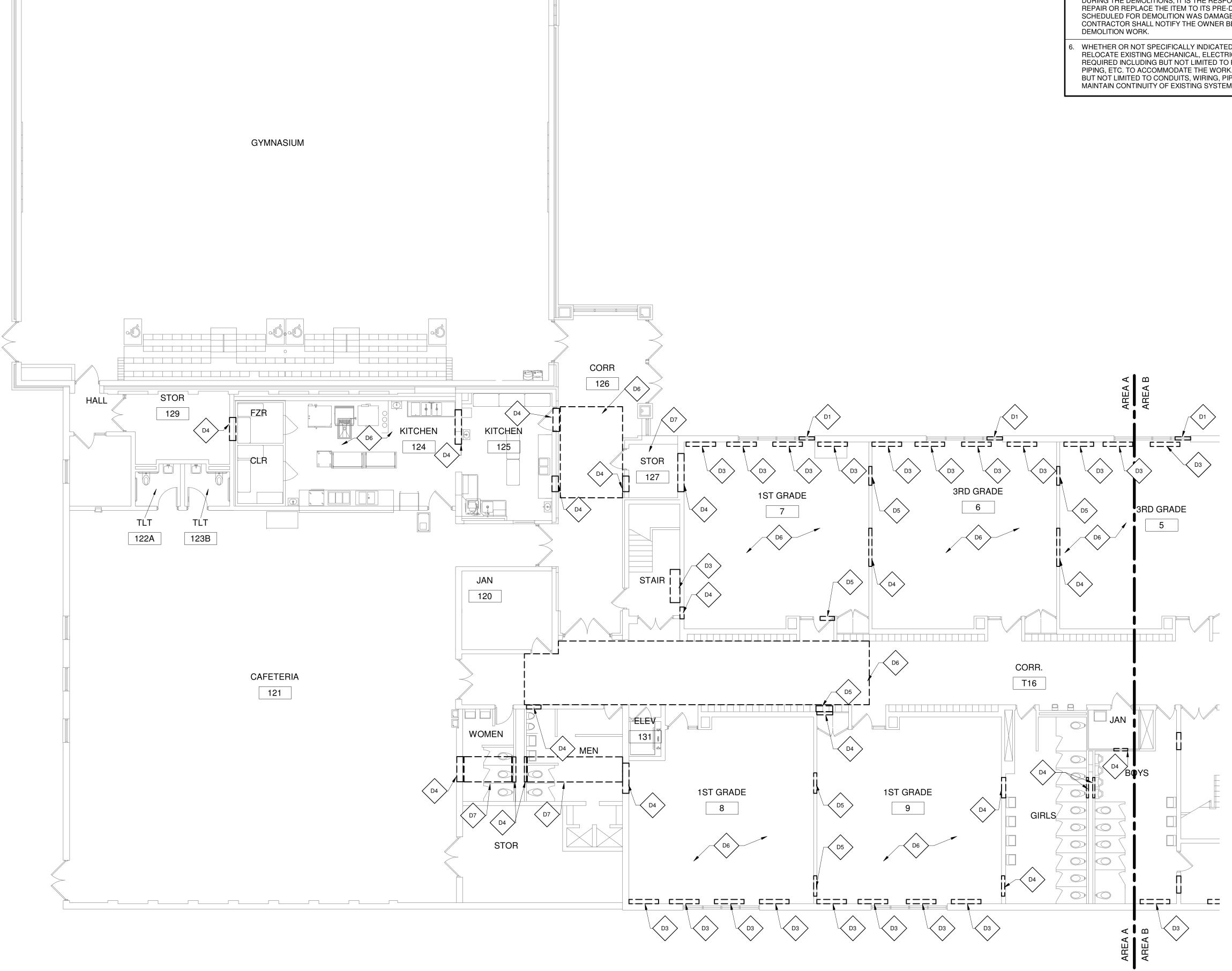
REFERENCE SCALE IN INCHES 

Revision / Issue

**FIRST FLOOR DEMOLITION** PLAN AREA A

REVISIONS

**D101A** 



## GENERAL COORDINATION NOTES

GENERAL CONTRACTOR TO COORDINATE DEMOLITION WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF TO WORK.

### S GENERAL DEMOLITION NOTES

- 1. PERFORM DEMOLITION WORK AS NECESSARY TO ACCOMPLISH THE WORK INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ITEMS WHICH ARE EXPOSED AND NOT TO REMAIN IN USE, INCLUDING BUT NOT NECESSARILY LIMITED TO ELECTRICAL ITEMS, ELECTRICAL DEVICES, MECHANICAL ITEMS, PLUMBING ITEMS, ETC.
- PLUMBING ITEMS, ETC.

  DRAWINGS INDICATE THE GENERAL INTENT OF THE DEMOLITION WORK AND ARE FOR REFERENCE PURPOSES ONLY. THEY ARE NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS TO BE DEMOLISHED.
- 3. EXACT EXTENT OF DEMOLITION AS SHOWN ON DRAWINGS AND TO BE PERFORMED SHALL BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE DRAWINGS WITH EXISTING SITE CONDITIONS. OPERATIONS SHALL BE DONE IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY, AND INTERFERENCE WITH THE USE OF ADJACENT AREAS, AND INTERRUPTION OF FREE PASSAGE TO AND FROM SUCH AREAS.
- CONTRACTOR TO PERFORM REQUIRED DEMOLITION AND TO LAWFULLY AND PROPERLY DISPOSE OF DEMOLISHED MATERIAL, OTHER OBSTACLES, DEBRIS, AND MATERIALS INCIDENTAL TO THE WORK FROM THE SITE.
- CONTRACTOR TO TAKE SPECIAL PRECAUTIONS TO ENSURE EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED DURING DEMOLITION. IF ANY ITEM INDICATED TO BE REMOVED, STORED AND/OR REINSTALLED IS DAMAGED DURING THE DEMOLITIONS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE THE ITEM TO ITS PRE-DEMOLITION CONDITION. IF ANY ITEM SCHEDULED FOR DEMOLITION WAS DAMAGED PRIOR TO DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE PERFORMING THE
- 6. WHETHER OR NOT SPECIFICALLY INDICATED, THE CONTRACTOR SHALL RELOCATE EXISTING MECHANICAL, ELECTRICAL AND PLUMBING DEVICES AS REQUIRED INCLUDING BUT NOT LIMITED TO REROUTING CONDUITS, WIRING, PIPING, ETC. TO ACCOMMODATE THE WORK. PROVIDE NEW DEVICES INCLUDING BUT NOT LIMITED TO CONDUITS, WIRING, PIPING, ETC AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING SYSTEMS.

### DEMOLITION KEY NOTES

- D1 REMOVE WINDOW AC UNITS REFER TO MECHANICAL DRAWINGS.
- DEMOLISH UNIT ON ROOF. SEE MECHANICAL DRAWINGS AND ARCHITECTURAL ROOF PLANS.
- DEMOLISH OR REMOVE FLOOR GRILLES. UNDERGROUND DUCTWORK TO BE CAPPED AN ABANDONED.
- CORE/REMOVE MASONRY TO AS NECESSARY TO ROUTE NEW DUCTWORK OR NEW PIPING. IF CORING TIGHT TO NEW DUCTWORK OR NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU AND OR BRICK REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DRAWINGS FOR ADDITIONAL INFORMATION.

  REMOVE PORTION OF EXISTING FRAMING AND PLASTER AS NECESSARY TO ACCOMODATE NEW DUCTWORK OR PIPING REFER TO MECHANICAL
- CAREFULLY REMOVE EXISTING ACT TILE SYSTEM AS RERQUIRED TO PERFORM THE NEW WORK AND SALVAGE FOR REINSTALATION.
- REMOVE PORTION OF EXISTING GYPSUM BOARD CEILING TO ACCOMMODATE NEW WORK SEE MECHANICAL DRAWINGS.

DRAWINGS FOR ADDITIONAL INFORMATION.

REMOVE PORTION OF EXISTING EXTERIOR MASONRY WALL TO ACCOMMODATE NEW WORK. SALVAGED FACEBRICK FOR REINSTALLATION. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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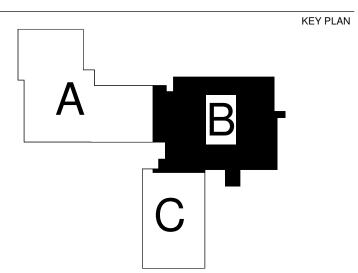
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Date Revision / Issue

CONSTRUCTION DOCUMENT

November 3, 202

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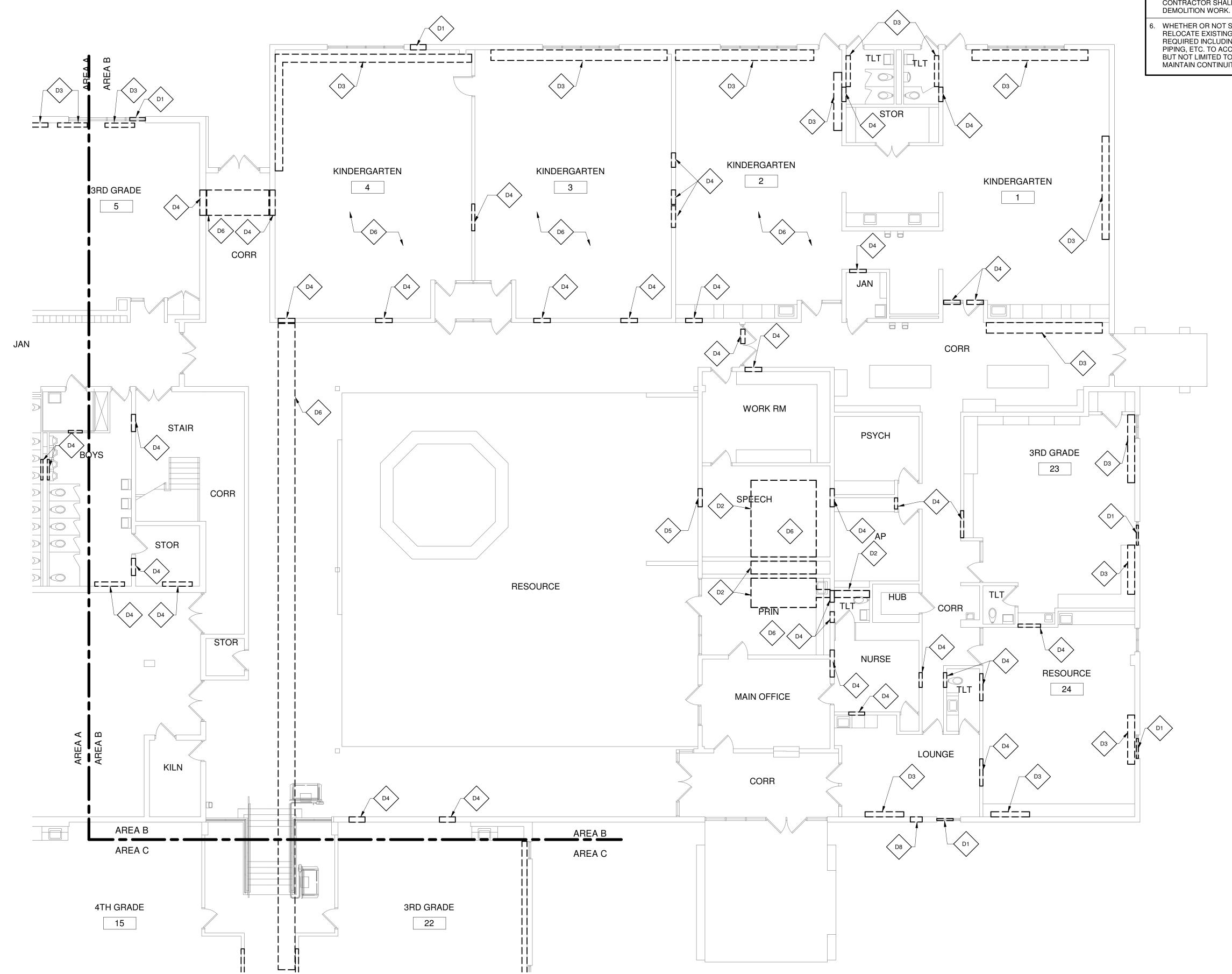
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FIRST FLOOR
DEMOLITION
PLAN AREA B

Scale: As

SHEET NUM

EGEND D101B



# GENERAL COORDINATION NOTES

ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF TO WORK.

AREA B

AREA C

3RD GRADE

22

4TH GRADE

21

# GENERAL CONTRACTOR TO COORDINATE DEMOLITION WITH MECHANICAL AND

# GENERAL DEMOLITION NOTES

### PERFORM DEMOLITION WORK AS NECESSARY TO ACCOMPLISH THE WORK INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ITEMS WHICH ARE

### EXPOSED AND NOT TO REMAIN IN USE, INCLUDING BUT NOT NECESSARILY LIMITED TO ELECTRICAL ITEMS, ELECTRICAL DEVICES, MECHANICAL ITEMS, PLUMBING ITEMS, ETC.

### DRAWINGS INDICATE THE GENERAL INTENT OF THE DEMOLITION WORK AND ARE FOR REFERENCE PURPOSES ONLY. THEY ARE NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS TO BE DEMOLISHED.

### EXACT EXTENT OF DEMOLITION AS SHOWN ON DRAWINGS AND TO BE PERFORMED SHALL BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE DRAWINGS WITH EXISTING SITE CONDITIONS. OPERATIONS SHALL BE DONE IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY, AND INTERFERENCE WITH THE USE OF ADJACENT AREAS, AND INTERRUPTION OF FREE PASSAGE TO AND FROM SUCH AREAS.

- CONTRACTOR TO PERFORM REQUIRED DEMOLITION AND TO LAWFULLY AND PROPERLY DISPOSE OF DEMOLISHED MATERIAL, OTHER OBSTACLES, DEBRIS, AND MATERIALS INCIDENTAL TO THE WORK FROM THE SITE.
- CONTRACTOR TO TAKE SPECIAL PRECAUTIONS TO ENSURE EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED DURING DEMOLITION. IF ANY ITEM INDICATED TO BE REMOVED, STORED AND/OR REINSTALLED IS DAMAGED DURING THE DEMOLITIONS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE THE ITEM TO ITS PRE-DEMOLITION CONDITION. IF ANY ITEM SCHEDULED FOR DEMOLITION WAS DAMAGED PRIOR TO DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE PERFORMING THE DEMOLITION WORK.
- WHETHER OR NOT SPECIFICALLY INDICATED, THE CONTRACTOR SHALL RELOCATE EXISTING MECHANICAL, ELECTRICAL AND PLUMBING DEVICES AS REQUIRED INCLUDING BUT NOT LIMITED TO REROUTING CONDUITS, WIRING, PIPING, ETC. TO ACCOMMODATE THE WORK. PROVIDE NEW DEVICES INCLUDING BUT NOT LIMITED TO CONDUITS, WIRING, PIPING, ETC AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING SYSTEMS.

### DEMOLITION KEY NOTES

- REMOVE WINDOW AC UNITS REFER TO MECHANICAL DRAWINGS.
- DEMOLISH UNIT ON ROOF. SEE MECHANICAL DRAWINGS AND ARCHITECTURAL ROOF PLANS.

TO BE CAPPED AN ABANDONED.

- DEMOLISH OR REMOVE FLOOR GRILLES. UNDERGROUND DUCTWORK
- CORE/REMOVE MASONRY TO AS NECESSARY TO ROUTE NEW DUCTWORK OR NEW PIPING. IF CORING TIGHT TO NEW DUCTWORK OR NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU AND OR BRICK - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE PORTION OF EXISTING FRAMING AND PLASTER AS NECESSARY TO ACCOMODATE NEW DUCTWORK OR PIPING - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PERFORM THE NEW WORK AND SALVAGE FOR REINSTALATION.
- REMOVE PORTION OF EXISTING GYPSUM BOARD CEILING TO ACCOMMODATE NEW WORK - SEE MECHANICAL DRAWINGS.
- REMOVE PORTION OF EXISTING EXTERIOR MASONRY WALL TO ACCOMMODATE NEW WORK. SALVAGED FACEBRICK FOR REINSTALLATION. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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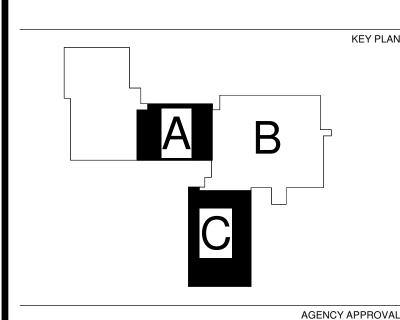
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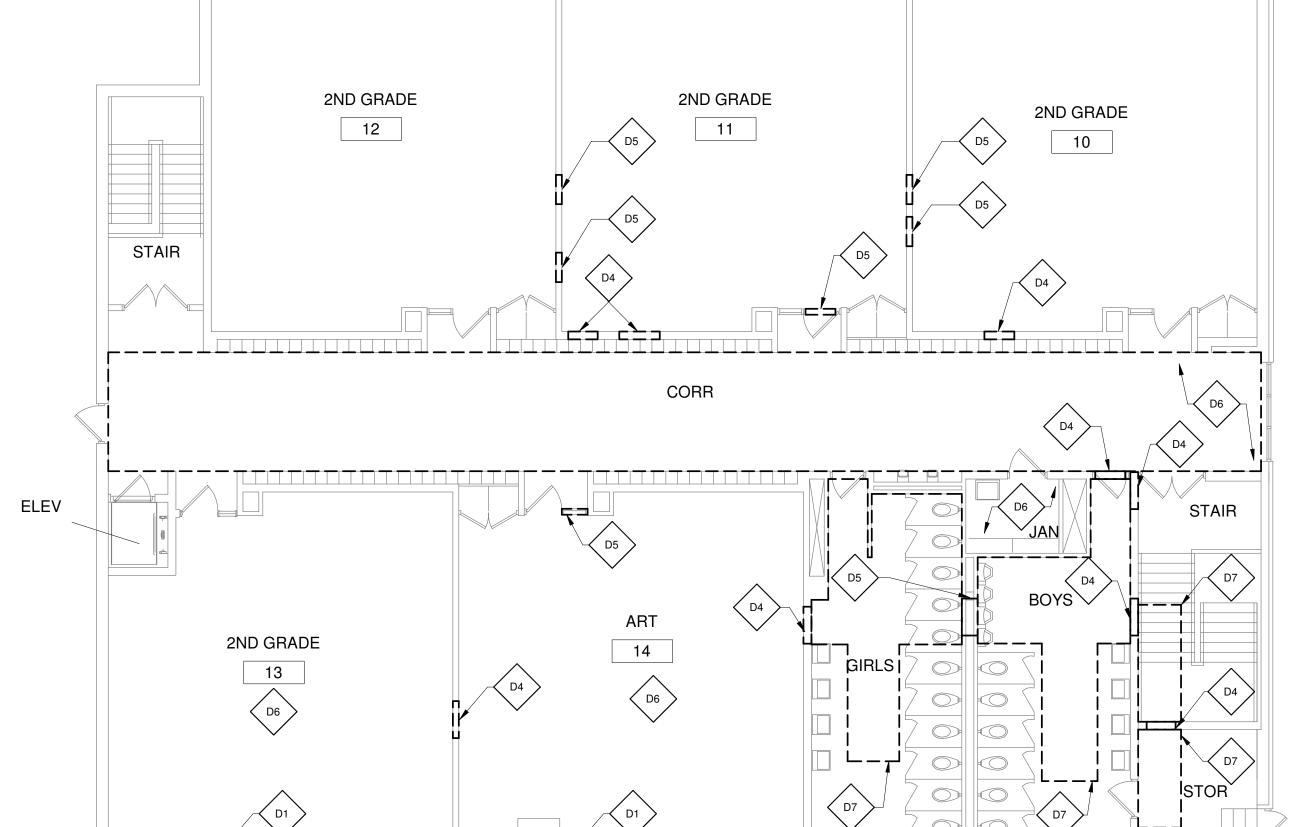
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**FIRST FLOOR PLAN AREA C** 

**D101C** 







AREA B

4TH GRADE

15

16

17



- EXISTING FLOORING - VIF

NEW FLOORING TO MATCH EXISTING IN COLOR, TEXTURE, SIZE AND THICKNESS

HARD CAULK - TYP.

FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS, SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK, WALL

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NEW WORK KEY NOTES

> INSTALL GLAZING TO MATCH EXISTING IN R-VALUE AND COLOR.

PATCH, PREP, AND PAINT NEWLY EXPOSED WALL SURFACE TO MATCH EXISTING ADJACENT SURFACE.

WHERE FLOOR GRILLES WERE REMOVED; PATCH SUBFLOOR TO MATCH EXISTING. PATCH FINISHED FLOOR TO MATCH EXISTING IN COLOR, TEXTURE, AND SIZE. SEE DETAIL 2/A101A

WHERE PIPING OR DUCTWORK HAS BEEN ROUTHED THROUGH A FRAMING WALL. INFILL HOLE TIGHT TO NEW PIPING OR NEW DUCTWORK.

WHERE PIPING, DUCTWORK HAS BEEN ROUTED THROUGH A MASONRY WALL. INFILL HOLE TIGHT TO NEW PIPING OR NEW DUCTWORK WITH FULL CMU. MATCH THICKNESS AND COURSING - PROVIDE FIRE CAULK AROUND PENETRATION OF EXISTING FIRE RATED WALLS AND PAINT TO MATCH EXISTING ADJACENT SURFACE

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RAISE EXISTING WALL TO UNDERSIDE OF EXISTING ROOF DECK TO MATCH EXISTING FIRE RATING WALL.

INFILL EXISTING HOLE TO MATCH EXISTING WALL MATERIAL AND FIRE

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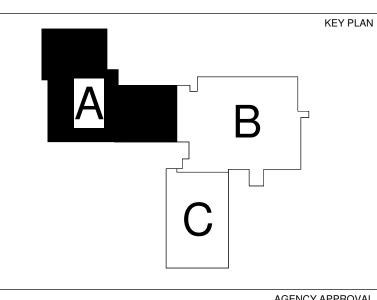
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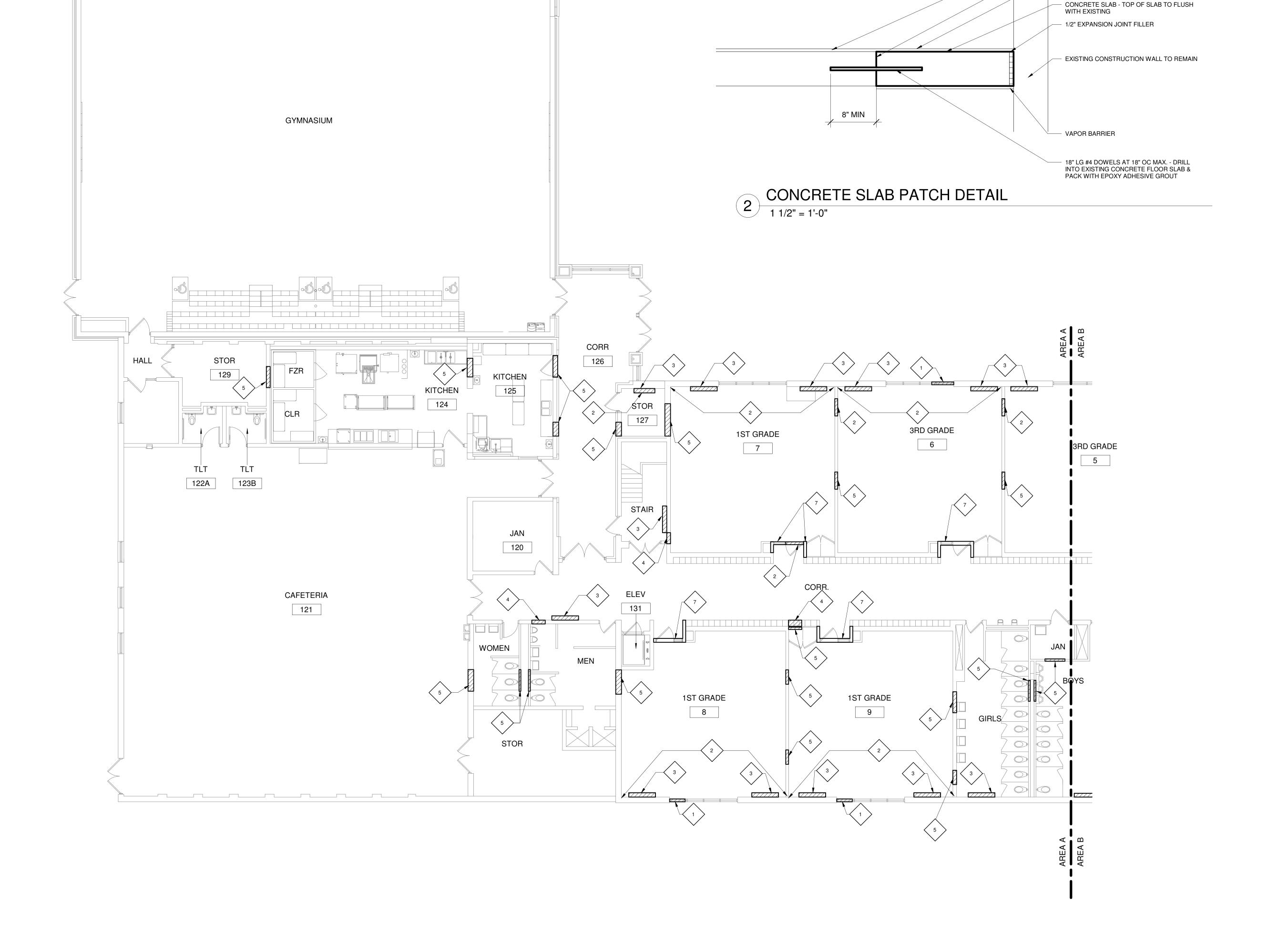
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FIRST FLOOR

A101A



LEGEND

FIRST FLOOR PLAN AREA A

1/8" = 1'-0"

KINDERGARTEN

1

3RD GRADE

23

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AND SIZE. SEE DETAIL 2/A101A WHERE PIPING OR DUCTWORK HAS BEEN ROUTHED THROUGH A

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FIRST FLOOR PLAN AREA B

A101B

FIRST FLOOR PLAN AREA B

1/8" = 1'-0"

3RD GRADE

22

KINDERGARTEN

4

CORR

3RD GRADE

AREA B

AREA C

KINDERGARTEN

2

**WORK RM** 

**PSYCH** 

3

RESOURCE

AREA C

LEGEND

///// NEW WORK

## GENERAL NOTES

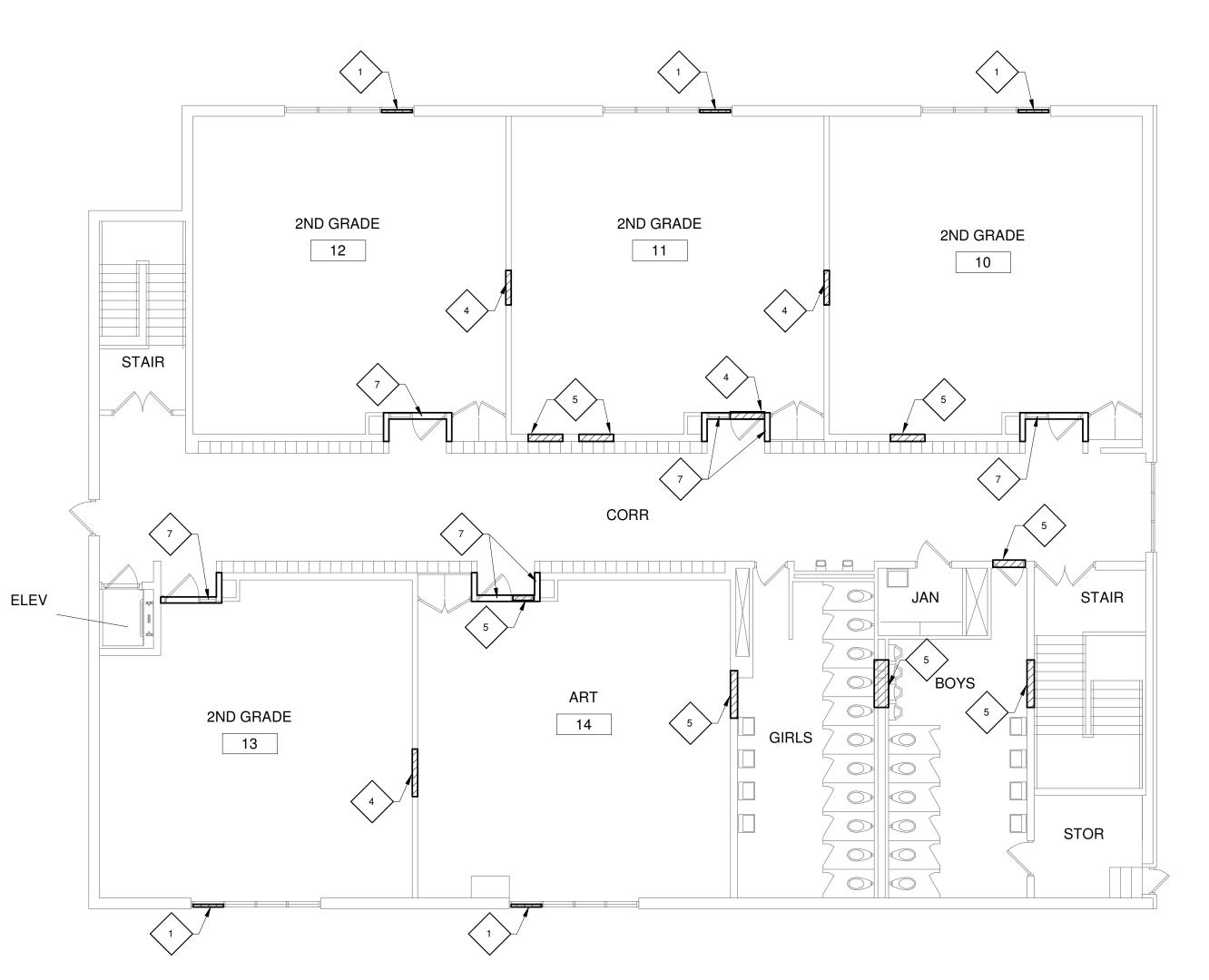
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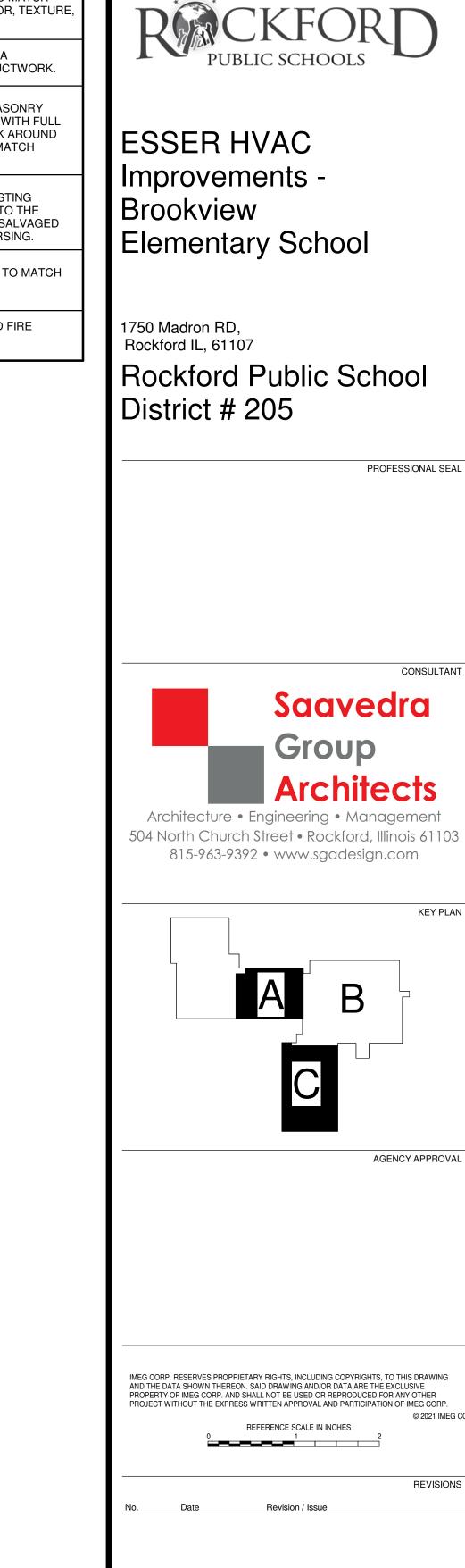
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SECOND FLOOR PLAN AREA A

1/8" = 1'-0"



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FIRST FLOOR PLAN AREA C & SECOND FLOOR PLAN AREA A

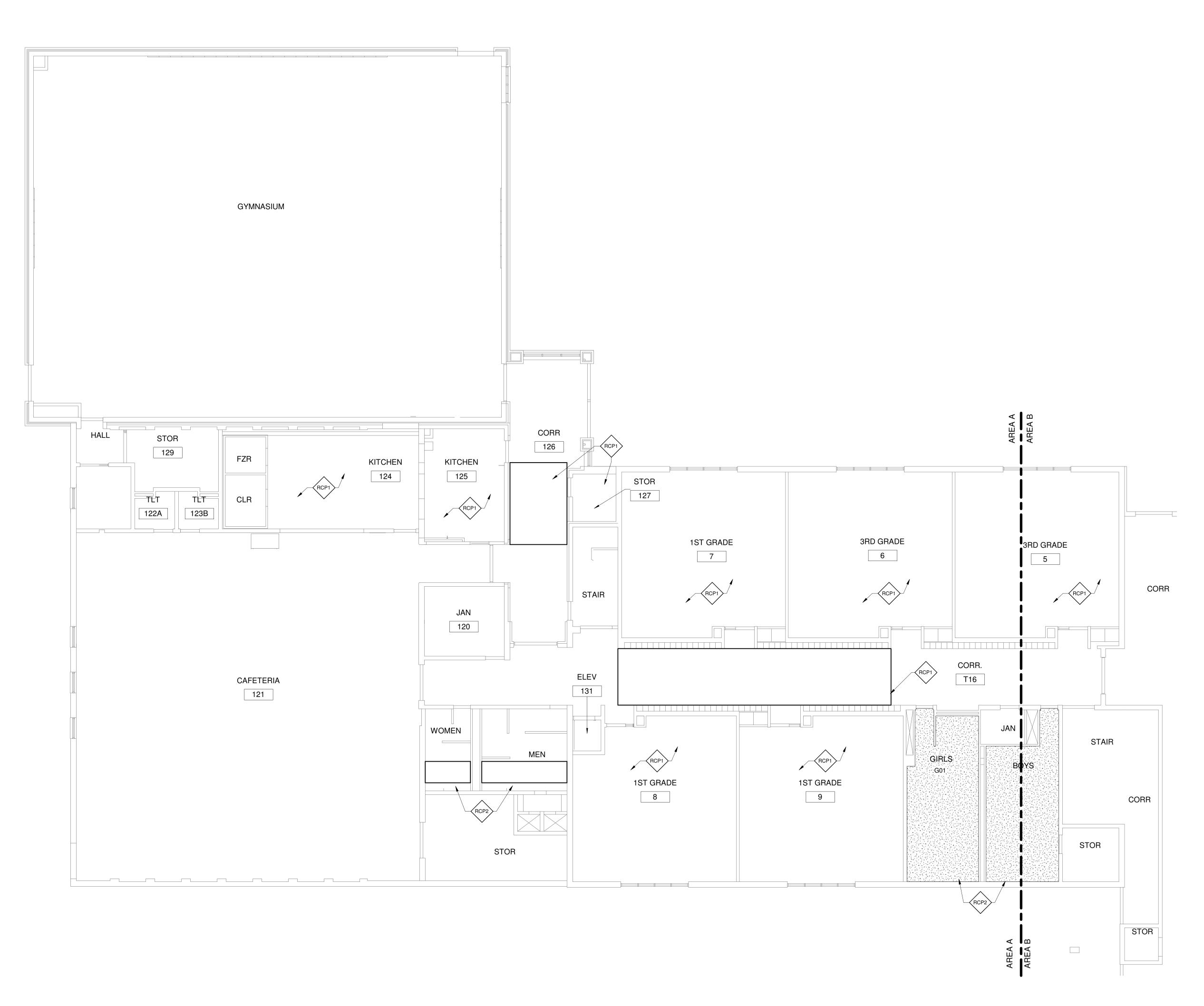
LEGEND

NEW WORK

A101C

FIRST FLOOR PLAN AREA C

COATS







RCP1 REINSTAL SALVAGED CEILING TILES.

RCP2 GYPSUM BOARD CEILING SYSTEM TO BE INSTALLED, PATCH, PREP, AND PAINTED. PAINT ENTIRE CEILING IN THE ROOM.

# CEILING COORDINATION NOTES

ANY DAMAGE TO THE EXISTING ACOUSTIC CEILING TILES SYSTEM AND GRID SHALL BE REPLACE OR REPAIR AT NO COST TO THE OWNER. GENERAL CONTRACTOR TO VERIFY OWNER OF ANY DAMAGE CEILINGS PRIOR TO THE COMMENCEMENT OF DEMOLITION.

CONTRACTOR TO MODIFY CEILING GRID ACCORDINGLY TO ACCOMMODATE THE EXTENSION OF EXISTION PARTITION WALL TO UNDERSIDE OF EXISTING ROOF

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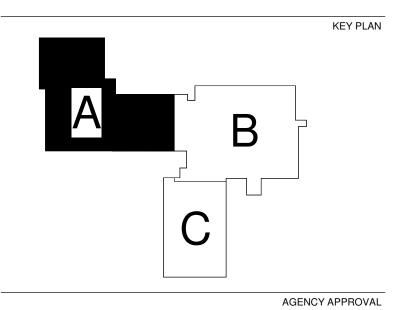
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Job Number 22006.60

Drawn MI

Checked MS

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CEILING
PLAN AREA A

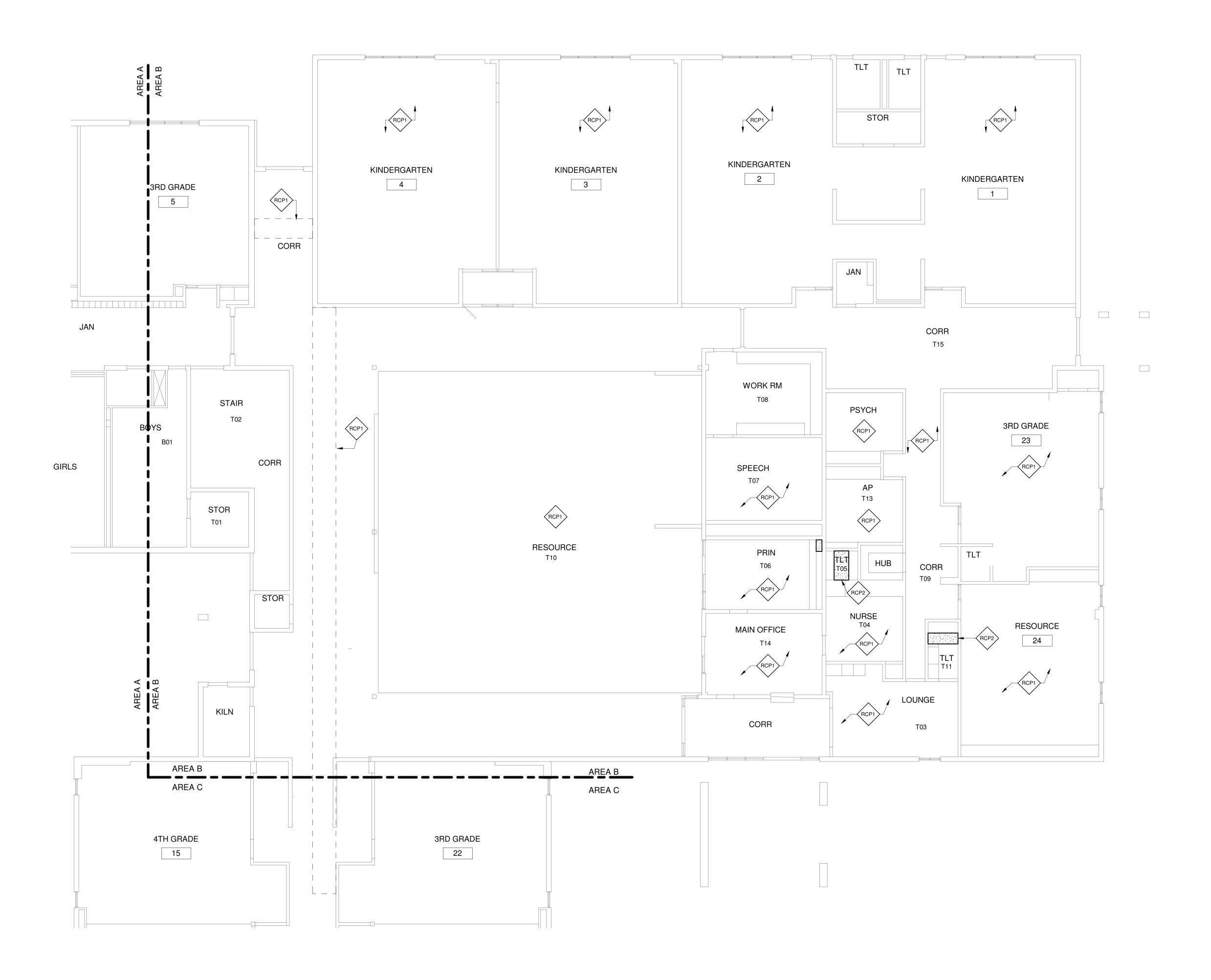
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CEILING PLAN LEGEND

GYPSUM BOARD CEILING SYSTEM

2X2 SUSPENDED ACT CEILING SYSTEM







RCP1 REINSTAL SALVAGED CEILING TILES.

GYPSUM BOARD CEILING SYSTEM TO BE INSTALLED, PATCH, PREP, AND PAINTED. PAINT ENTIRE CEILING IN THE ROOM.

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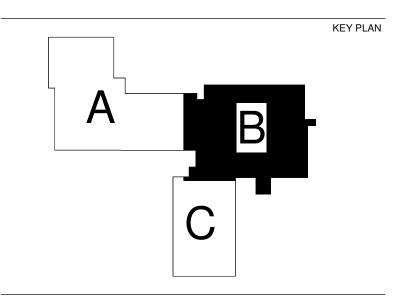
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CEILING
PLAN AREA B

REVISIONS

CEILING PLAN LEGEND

GYPSUM BOARD CEILING SYSTEM

2X2 SUSPENDED ACT CEILING SYSTEM

Scale: As indica

A201B





RCP1 REINSTAL SALVAGED CEILING TILES.

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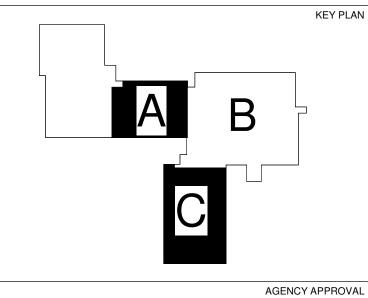
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CEILING
PLAN AREA C

A201C

CEILING PLAN LEGEND

GYPSUM BOARD CEILING SYSTEM

2X2 SUSPENDED ACT CEILING SYSTEM



### REFLECTED CEILING PLAN KEY NOTES

RCP1 REINSTAL SALVAGED CEILING TILES.

GYPSUM BOARD CEILING SYSTEM TO BE INSTALLED, PATCH, PREP, AND PAINTED. PAINT ENTIRE CEILING IN THE ROOM.

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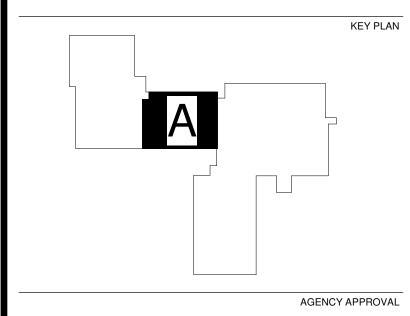
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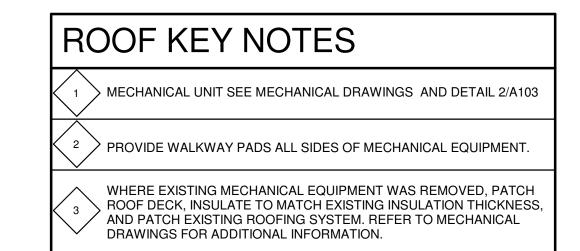
SECOND FLOOR REFLECTED CEILING PLAN AREA

REVISIONS

**A202A** 

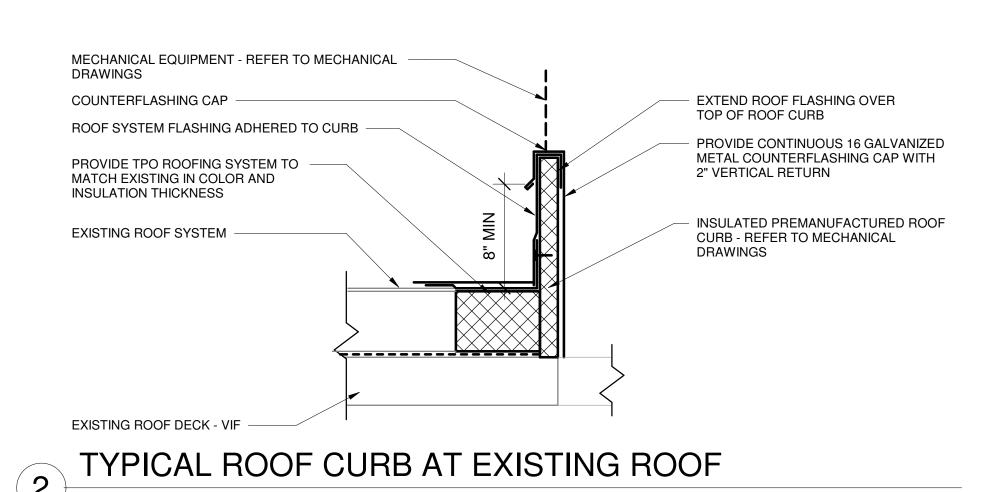
2X2 SUSPENDED ACT CEILING SYSTEM GYPSUM BOARD CEILING SYSTEM

CEILING PLAN LEGEND



### **ROOF WARRANTY NOTE**

GENERAL CONTRACTOR TO VERIFY WITH EXISTING ROOFING MANUFACTURER THE REQUIREMENTS TO MAINTAIN EXISTING FULL ROOF WARRANTY PRIOR TO THE COMMENCEMENT OF ANY ROOF WORK.



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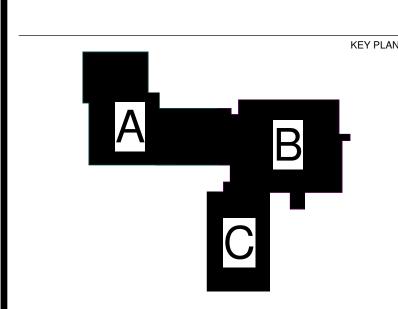
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**ROOF PLAN** 

A301

LEGEND ///// NEW WORK HALFTONING DOES NOT MODIFY SCOPE. 'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

— EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

### FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT. ALL IFLOOR, FLOOR CEILING, AND ROOF CEILING! ASSEMBLIES SHALL BE DESIGNATED AS 1, 2. 1/2, 3/4 HOUR FIRE WALLS, UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 10/25/2022.

1 HOUR FIRE WALL	
2 HOUR FIRE WALL	
1/2 HOUR FIRE WALL	
3/4 HOUR FIRE WALL	

### CONTRACTOR ABBREVIATION KEY

	CONTINACTOR ADDICEVIATION RET
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

### MECHANICAL DESIGN CONDITIONS:

MILCHANICAL DES	AL DESIGN CONDITIONS.		
DESIGN CONDITIONS:	BASED ON WEATHER DATA FOR: {CITY, STATE		
SUMMER: WINTER:	95°F DRY BULB, 78°F WET BULB -15°F DRY BULB		

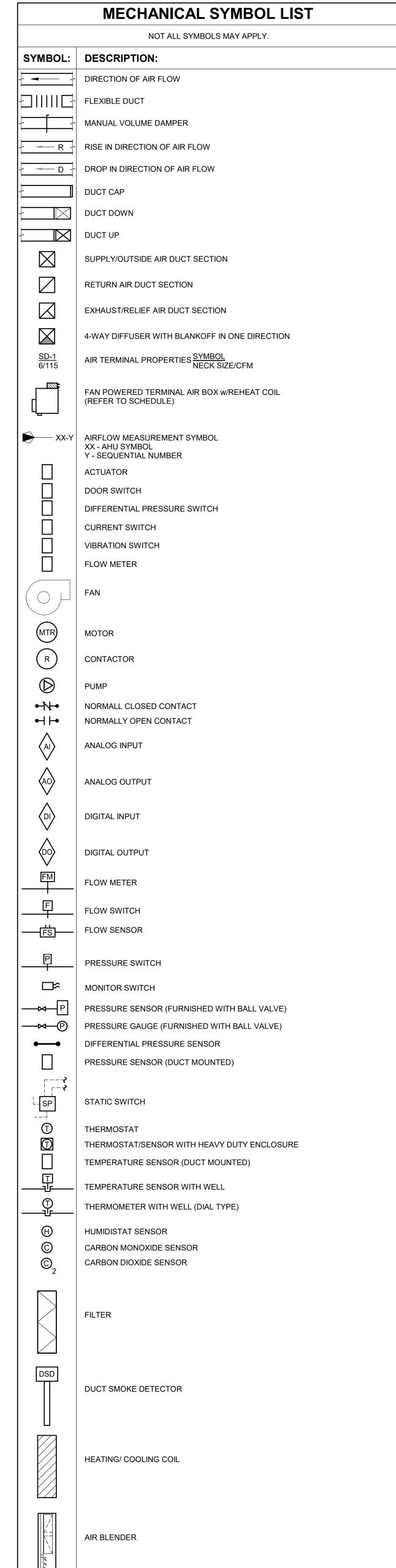
SUMMER DESIGN: 76°F DRY BULB. 55% RELATIVE HUMIDITY **WINTER DESIGN:** 68°F DRY BULB, NO RELATIVE HUMIDITY **SUMMER SETBACK:** 85°F DRY BULB, NO RELATIVE HUMIDITY WINTER SETBACK: 60°F DRY BULB, NO RELATIVE HUMIDITY

REFER TO CONTROL DIAGRAMS FOR ROOM SPECIFICS.

TYPICAL ROOM SETPOINTS:

	NOT ALL SYMBOLS MAY APPLY.
SYMBOL:	DESCRIPTION:
CW	COLD WATER - POTABLE
—CWR—	CHILLED WATER RETURN
—CWS—	CHILLED WATER SUPPLY
G	NATURAL GAS
—_GRV——	GAS REGULATOR VENT
—HWR—	HEATING WATER RETURN
—HWS—	HEATING WATER SUPPLY
LPS	LOW PRESSURE STEAM
—MPG——	MEDIUM PRESSURE GAS
——PC——	PUMPED DISCUARCE
——PD——— ——SAN———	PUMPED DISCHARGE SANITARY DRAINAGE
SV	SAFETY RELIEF VENT
V	VENT
	PIPE CAP
	PIPE DOWN
o	PIPE UP OR UP/DOWN
o <sub>FD</sub>	PIPE SERVING FIXTURE ON FLOOR ABOVE
FD	(EXAMPLE: FD = FLOOR DRAIN) PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
٦	ROUTE TO DRAIN
 	SHUTOFF VALVE NORMALLY OPEN
₩	SHUTOFF VALVE NORMALLY CLOSED
<b>──</b> ₩──	THROTTLING VALVE
— <b>⊠</b> —	BALANCING VALVE (NUMBER INDICATES GPM)
	MIXING VALVE
₩	CONTROL VALVE (THREE-WAY)
· 	CONTROL VALVE (TWO-WAY)
 	SOLENOID VALVE
*	SAFETY/RELIEF VALVE
T 1	
— <del>Ŭ</del> —	PRESSURE REDUCING VALVE (LIQUID/GAS)
<u> </u>	PRESSURE REDUCING VALVE (STEAM)
<b>└</b> ┴─	TRIPLE DUTY VALVE (ANGLE TYPE)
	TRIPLE DUTY VALVE (IN-LINE TYPE)
$-\bigcirc$	PUMP
Ŷ	VACUUM BREAKER
<del> </del>	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
- KOI	AUTOMATIC DRAIN VALVE
<b>≱</b>	ANGLE VALVE WITH MONITOR SWITCH
*	BUTTERFLY VALVE WITH MONITOR SWITCH
<u> </u>	CHECK VALVE
神	SAFETY/RELIEF VALVE
<del></del>	PRESSURE REDUCING VALVE (LIQUID/GAS)
	BASKET STRAINER
	PRESSURE/TEMPERATURE TEST PLUG
<b>D</b>	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
<u> </u>	SUCTION DIFFUSER WITH SUPPORT FOOT
₽	AUTOMATIC AIR VENT
<b>‡</b>	MANUAL AIR VENT
<b>†</b>	DRAIN VALVE WITH HOSE CONNECTION AND CAP
<b>1</b> ——───────────────────────────────────	STEAM TRAP (REFER TO SCHEDULE)
——————————————————————————————————————	
	F&T STEAM TRAP (REFER TO SCHEDULE)  INVERTED BUCKET STEAM TRAP (REFER TO SCHEDULE)
<u> -*</u>	EXPANSION JOINT
EJ-# (#.#")	#.#" IS THE EXPANSION TRAVEL INCHES
` '	

	<b>MECHANICAL SHEET INDEX</b>
M000	MECHANICAL COVERSHEET
M101A	FIRST FLOOR DEMOLITION PLAN - MECHANICAL - A
M101B	FIRST FLOOR DEMOLITION PLAN - MECHANICAL - B
M101C	FIRST FLOOR DEMOLITION PLAN - MECHANICAL - C AND SECOND FLOOF
M103A	ROOF DEMOLITION PLAN - MECHANICAL - A
M103B	ROOF DEMOLITION PLAN - MECHANICAL - B
M103C	ROOF DEMOLITION PLAN - MECHANICAL - C
M201A	FIRST FLOOR - MECHANICAL - A
M201B	FIRST FLOOR - MECHANICAL - B
M201C	FIRST FLOOR - MECHANICAL - C AND SECOND FLOOR MECHANICAL - A
M203A	ROOF PLAN - MECHANICAL - A
M203B	ROOF PLAN - MECHANICAL - B
M203C	ROOF PLAN - MECHANICAL - C
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M402	MECHANICAL DETAILS
M500	MECHANICAL DIAGRAMS
M501	MECHANICAL DIAGRAMS
M502	MECHANICAL DIAGRAMS
M503	MECHANICAL DIAGRAMS
M504	MECHANICAL DIAGRAMS
M600	MECHANICAL SCHEDULES
M601	MECHANICAL SCHEDULES



### ABBR: DESCRIPTION: ACCESS DOOR AFF ABOVE FINISHED FLOOR BFP **BACKFLOW PREVENTER** BT BATHTUB COMMON CATCH BASIN CB CFSD CONTROL/FIRE/SMOKE DAMPER CI CAST IRON CO CLEANOUT CS **CLINICAL SINK** DB DIALYSIS BOX **DRINKING FOUNTAIN** DUCTILE IRON DPG (0-2") DIFFERENTIAL PRESSURE GAUGE (RANGE) DPS DIFFERENTIAL PRESSURE SWITCH **EXISTING** EXHAUST/RELIEF AIR EA **EXISTING CONTROL FIRE SMOKE DAMPER** EE **EMERGENCY EYEWASH** EFD **EXISTING FIRE DAMPER** EFSD EXISTING FIRE SMOKE DAMPER ELECTRICAL TO PNEUMATIC VALVE ES **EMERGENCY SHOWER** ESD EXISTING SMOKE DAMPER ESE **EMERGENCY SHOWER/EYEWASH EWC ELECTRIC WATER COOLER** FCO FLOOR CLEANOUT FD FIRE DAMPER FM FLOW METER FLAT ON BOTTOM FOT FLAT ON TOP FLOOR SINK FS FSD FIRE/SMOKE DAMPER GD GARBAGE DISPOSER **GREASE INTERCEPTOR** HB HOSE BIBB INVERT ELEVATION (FOR REFERENCE ONLY) LAV LAVATORY MIXED AIR MOP BASIN MANHOLE MIXING VALVE NIC NOT IN CONTRACT N.O. NORMALLY OPEN **NEUTRALIZATION TANK** NT OA OUTSIDE AIR OS OIL SEPARATOR PS PRESSURE SWITCH RA RETURN AIR **ROOF DRAIN** RD SUPPLY AIR SCCR SHORT CIRCUIT CURRENT RATING SMOKE DAMPER SH SHOWER SK SINK SS SERVICE SINK TAB TERMINAL AIR BOX TD TRANSFER DUCT TRAP PRIMER TYP TYPICAL UB UTILITY BOX DOOR UNDERCUT BY OTHERS (1" TYPICAL) UC-1 UON UNLESS OTHERWISE NOTES UR VTR VENT THROUGH ROOF WC WATER CLOSET

### **VENTILATION GENERAL NOTES:**

- 1. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO
- PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT. EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING

WCO

WF

WH

WMF

WM

WS

YCO

EACH OTHER.

WALL CLEANOUT

WASH FOUNTAIN

WATER HEATER

WATER METER

WATER SOFTENER

YARD CLEANOUT

WASHING MACHINE FIXTURE

- DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
- 4. CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT, DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.
- 5. CLEAN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK UPSTREAM OF ALL NEW CONNECTIONS.

### **TEMPERATURE CONTROL GENERAL NOTES:**

- 1. REFER TO EQUIPMENT SCHEDULES TO CROSS REFERENCE WHICH CONTROL DIAGRAMS APPLY TO WHICH ITEMS OF EQUIPMENT.
- EACH D.I., D.O., A.I. AND A.O. POINT SHOWN FOR ALL CONTROL DIAGRAMS SHALL BE
- DISCRETE FROM ALL OTHER POINTS EXCEPT AS SPECIFICALLY NOTED. 3. ALL WIRING, CONTROL COMPONENTS, DEVICES AND PROGRAMMING SHOWN ON THESE CONTROL DRAWINGS SHALL BE PROVIDED BY THE TCC UNLESS SPECIFICALLY NOTED

# **MECHANICAL ABBREVIATION KEY**

### **MECHANICAL GENERAL NOTES:**

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE

- 1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING
- CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT. 2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- 3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- 4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER
- 5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR
- EXPENSE TO OTHERS. 6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF
- 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS. 8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS,

FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS

- RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND 9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS
- PANELS PRIOR TO BIDDING. 10. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING. AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER
- FOR OUTDOOR USE 11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE
- TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS 12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED
- OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT. 13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- 14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES. 15. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS,
- TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS. 16. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT. 17. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER
- NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS. 18. ROOF WARRANTY NOTE: CONTRACTOR TO VERIFY WITH EXISTING ROOFING MANUFACTURER THE REQUIREMENTS TO MAINTAIN EXISTING FULL ROOF WARRANTY PRIOR TO THE COMMENCEMENT OF ANY

ROOF WORK.

### **MECHANICAL RENOVATION NOTES:**

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES. INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE

- 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING
- 2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK. 3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE
- FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD
- 4. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS AND FLOOR ASSOCIATED WITH 5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF
- CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK Y ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO 6. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH
- NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT
- REMAIN ACTIVE. 8. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW
- SYSTEMS ARE INSTALLED. 9. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
- 10. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED. 11. EXISTING WINDOW AIR CONDITIONING UNITS REMOVED SHALL BE RETURNED TO THE

### **MECHANICAL PHASING NOTES:**

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- 1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO CONSTRUCTION MANAGER'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
- 2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
- 3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF
- PROJECT. 4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC, AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
- 5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME. 6. EXISTING STEAM HEATING SYSTEM MUST BE LEFT OPERATIONAL TO PROVIDE BUILDING

### **PIPING GENERAL NOTES:**

- 1. THE SIZE OF CONDENSATE PIPING TO FAN COIL SHALL BE 3/4" UNLESS NOTED OTHERWISE 2. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
- 3. INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS. 4. ALL PIPING EXPOSED TO VIEW, INTERIOR OR EXTERIOR, SHALL BE PAINTED. COLOR TO
- MATCH SURROUNDING WALLS OR CEILING, UNLESS NOTED OTHERWISE, COLOR TO BE APPROVED BY THE OWNER/ARCHITECT. REFER TO SPECIFICATIONS.
- 5. WHERE FLOOR MOUNTED FAN COILS ARE TO BE PROVIDED, UNLESS SHOWN OR NOTED OTHERWISE. PIPING SERVING FAN COIL UNITS IS ROUTED VERTICALLY UP AND DOWN THE INTERIOR FACE OF THE EXTERIOR WALL OF THE BUILDING. ALL EXPOSED PIPING IS TO BE ENCLOSED WITHIN NEW CHASES. COORDINATE WITH THE ARCHITECTURAL PLANS AND GENERAL CONTRACTOR. HORIZONTAL PIPING BETWEEN THE VERTICAL PIPE CHASE AND THE FAN COIL UNIT VALVE/PIPE CONNECTIONS ENCLOSURE SHALL BE HIDDEN BEHIND A CONTRACTOR PROVIDED FIELD FABRICATED AND PAINTED SHEET METAL ENCLOSURE. COLOR TO MATCH SURROUNDING WALL AND B APPROVED BY THE OWNER/ARCHITECT





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KEY PLAN

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> REFERENCE SCALE IN INCHES REVISIONS

Revision / Issue Comments changes

SHEET INFORMATION **Construction Documents** November 03, 2022 21002885.10 Job Number **EFRGON QEUMAZ** Checked **BRAPIE** 

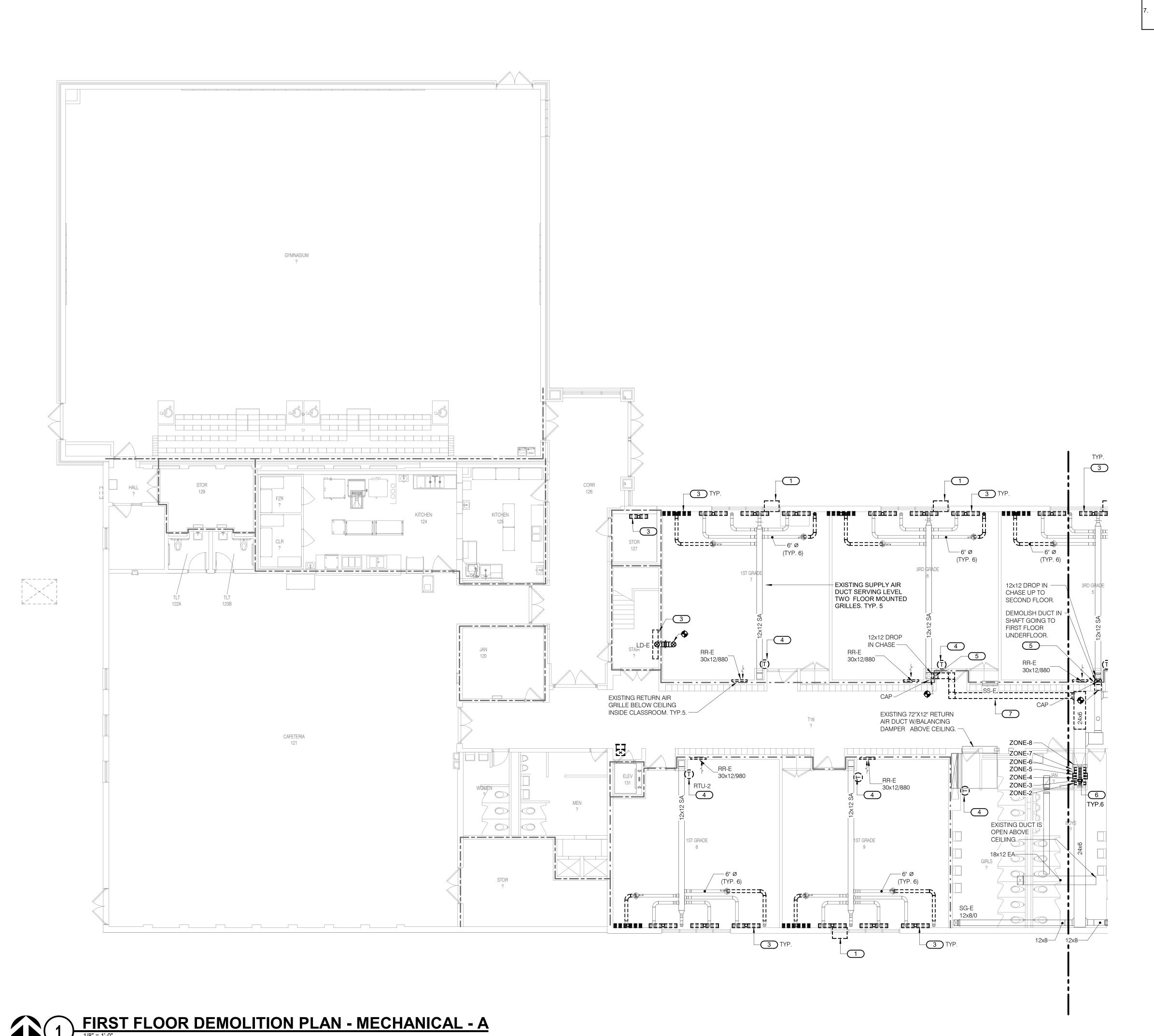
> SHEET TITLE **MECHANICAL COVERSHEET**

As indicated

SHEET NUMBER

SCALE

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KEYNOTES: #

(E) WINDOW AC UNIT TO DEMOLISHED. RETURN TÓ OWNER. REPAIR WINDOW AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS. EXISTING UNIT ON ROOF TO BE DEMOLISHED. PATCH ROOF AS NEEDED. REFER TO ARCHITECTURAL DRAWINGS.

EXISTING FLOOR GRILLES TO BE DEMOLISHED. EXISTING UNDERGROUND DUCTWORK TO BE CAPPED AT FLOOR AND ABANDONED. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR PENETRATION PATCHING AND REPAIRS.

EXISTING THERMOSTAT TO BE DEMOLISHED. TYP. DEMOLISH EXISTING DUCT IN SHAFT GOING DOWN TO FIRST FLOOR UNDERGROUND DUCT. INSTALL

DEMOLISHJ DUCTS IN SHAFT GOING DN. TO FIRST

DEMOLISH DUCT SERVING ZONE 7.

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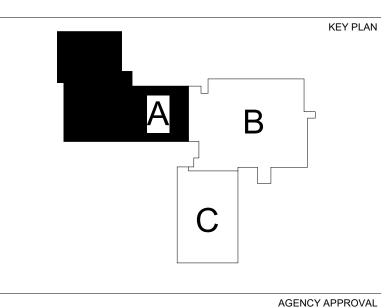
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REVISIONS Comments changes

**Construction Documents** 

FIRST FLOOR **DEMOLITION** PLAN -**MECHANICAL** 

1/8" = 1'-0"

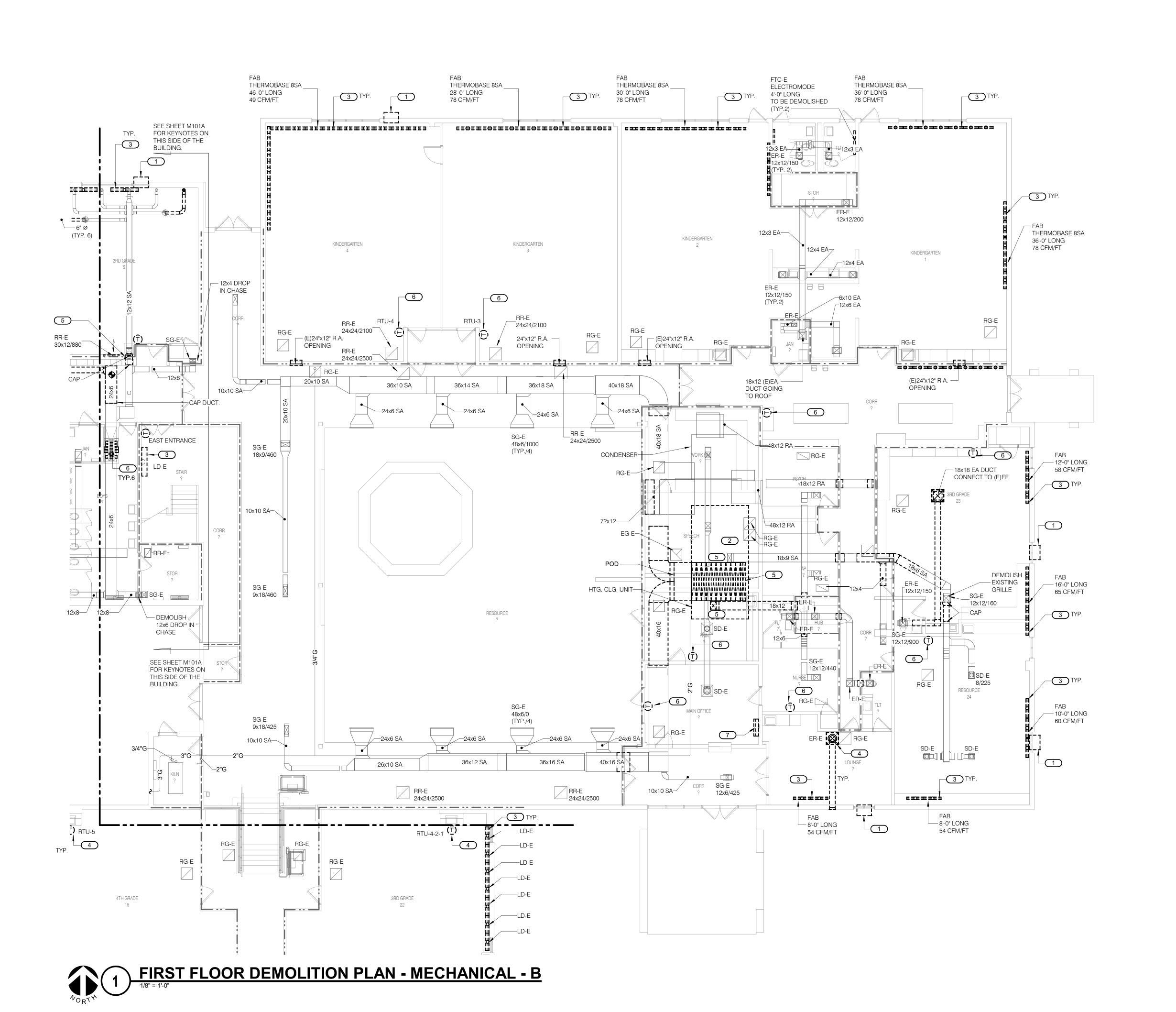
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 EXISTING UNIT ON ROOF TO BE DEMOLISHED. PATCH ROOF AS NEEDED. REFER TO ARCHITECTURAL DRAWINGS.
 EXISTING FLOOR GRILLES TO BE DEMOLISHED EXISTING UNDERGROUND DUCTWORK TO BE

CAPPED AND ABANDONED. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR PENETRATION PATCHING AND REPAIRS.

EXISTING INLINE EXHAUST FAN TO BE

EXISTING INLINE EXHAUST FAN TO BE DEMOLISHED.
 EXISTING DUCTS FROM UNIT TO BE DEMOLISHED. CAP DUCTS ABOVE CEILING.

DEMOLISHED. CAP DUCTS ABOVE CEILING.

EXISTING THERMOSTAT TO BE DEMOLISHED.

EXISTING WALL MOUNTED FAN COIL UNIT TO BE REMOVED AND RETURNED TO OWNER.

623 26TH AVENUE QUAD CITIES, IL

61201

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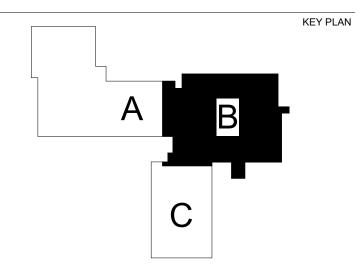
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No. Date Revision / Issue

1 Date 1 Comments changes

SHEET INFORMATION

The Construction Documents

The November 03, 2022

Number 21002885.10

The Win EFRGON

The Ecked QEUMAZ

The Proposed BRAPIE

FIRST FLOOR
DEMOLITION
PLAN MECHANICAL

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

M101B

SHEET NUMBER

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P: 309.788.0673 F: 309.786.5967

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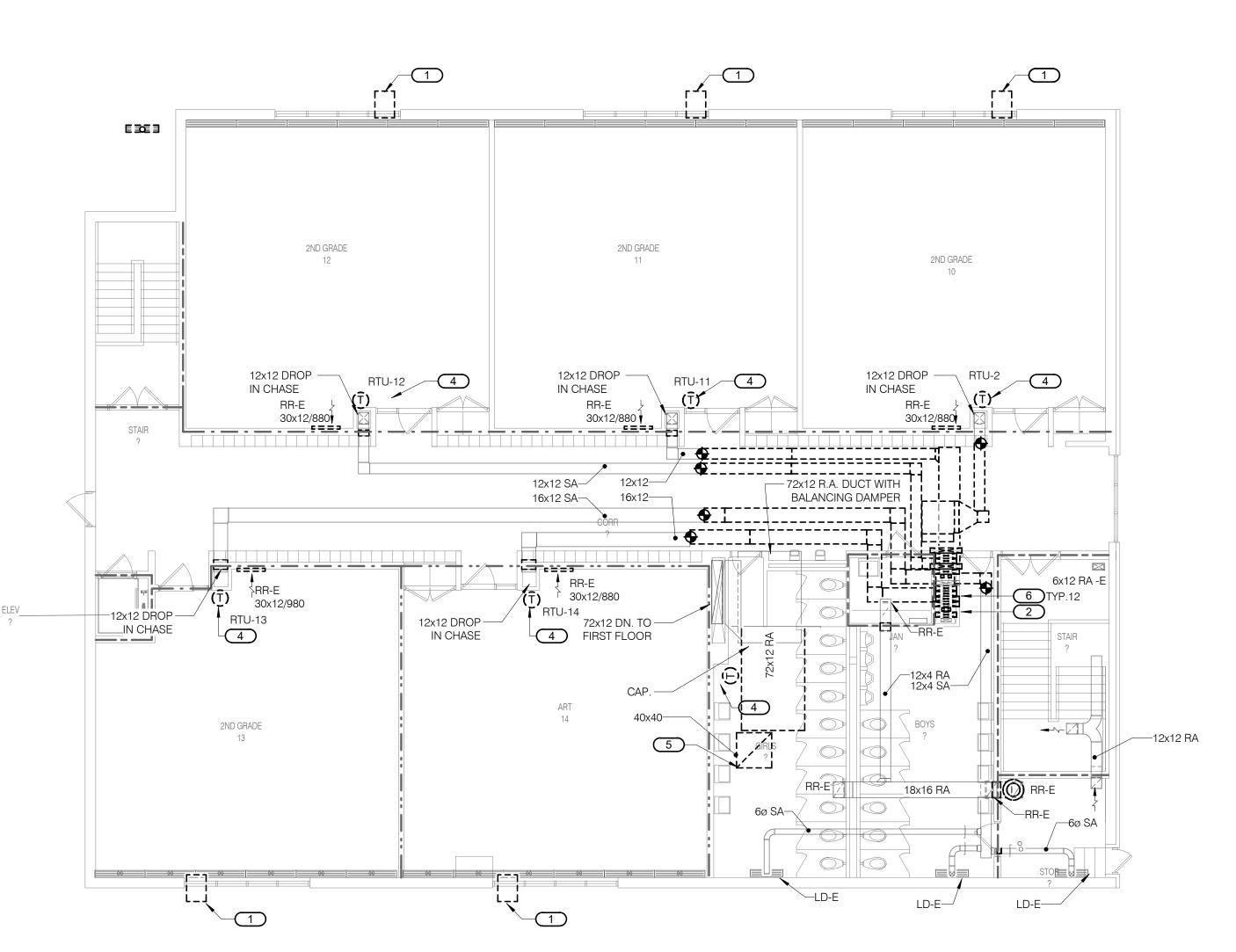
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12x12/275



SECOND FLOOR DEMOLITION PLAN - MECHANICAL - A

1/8" = 1'-0"

1. (E) WINDOW AC UNIT TO DEMOLISHED.
RETURN TO OWNER. REPAIR WINDOW AS
REQUIRED. REFER TO ARCHITECTURAL
DRAWINGS.

REQUIRED. REFER TO ARCHITECTURAL DRAWINGS.

2. EXISTING UNIT ON ROOF TO BE DEMOLISHED. PATCH ROOF AS NEEDED. REFER TO ARCHITECTURAL DRAWINGS.

ARCHITECTURAL DRAWINGS.

3. EXISTING FLOOR GRILLES TO BE DEMOLISHED. EXISTING UNDERGROUND DUCTWORK TO BE CAPPED AND ABANDONED. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR PENETRATION PATCHING AND REPAIRS.

4. EXISTING THERMOSTAT TO BE DEMOLISHED.

DEMOLISH EXISTING DUCT UP THRU ROOF TO

RELIEF AIR FAN. DEMOLISH EXISTING RELIEF AIR FAN. PATCH ROOF OPENING AND RE-ROOF

6. DEMOLISH DUCTS IN SHAFT.

AS REQUIRED.

INIT TO DEMOLISHED.
IER. REPAIR WINDOW AS ER TO ARCHITECTURAL

N ROOF TO BE DEMOLISHED.
NEEDED. REFER TO

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PUBLIC SCHOOLS

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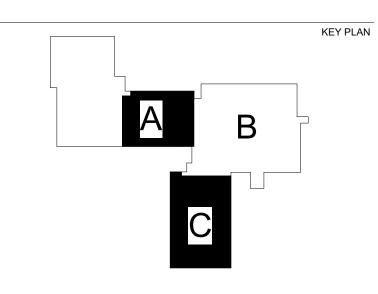
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1 Date 1 Comments changes

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Construction Documents

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Jumber 21002885.10

n EFRGON
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FIRST FLOOR
DEMOLITION
PLAN MECHANICAL
- C AND
SECOND
FLOOR

SCALE 1/8" = 1'-0"

M101C

FIRST FLOOR DEMOLITION PLAN - MECHANICAL - C

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DEMO EXISTING ROOFTOP PACAKGED UNIT.
REPAIR ROOF AS REQUIRED AT ALL DUCT PENETRATIONS. DEMOLISH EXISTING RELIEF AIR FAN. REMOVE ELECTRICAL POWER WIRING AND CONDUITS ALL THE WAY TO ELECTRICAL PANELS. PATCH ROOF OPENING. RE-ROOF AS REQUIRED. \_\_\_\_\_\_ L\_\_\_\_\_





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KEYNOTES: #

1. DEMO EXISTING EXHAUST FAN. CLEAN, PATCH AND REPAIR EXISTING DUCTWORK AS REQUIRED. EXISTING FAN WILL BE REPLACED WITH NEW EXHAUST FAN.

2. EXISTING 2" NATURAL GAS PIPE TO REMAIN TO SERVE NEW DOAS UNIT. SEE SHEET M203A FOR EXACT LOCATION.

3. DEMO EXISTING PROCETOR BACAKGED UNIT.



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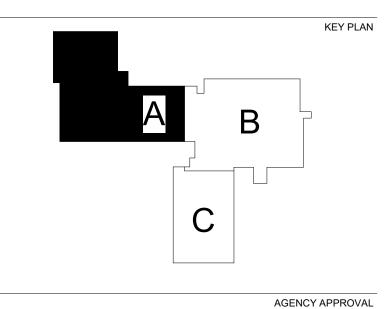
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Number 21002885.10

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SHEET TITLE
ROOF
DEMOLITION
PLAN MECHANICAL

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

M103A

ROOF DEMOLITION PLAN MECHANICAL - B

KEYNOTES: #

1. DEMO EXISTING EXHAUST FAN. CLEAN, PATCH AND REPAIR EXISTING DUCTWORK AS REQUIRED. EXISTING FAN WILL BE REPLACED WITH NEW EXHAUST FAN.

2. EXISTING 2" NATURAL GAS PIPE TO REMAIN TO SERVE NEW DOAS UNIT. SEE SHEET M203A FOR EXACT LOCATION.. B. EXISTING ROOFTOP AIR HANDLER UNIT TO BE DEMOLISHED. REPAIR ROOFING AS REQUIRED. PATCH ROOF OPENINGS. EXISTING CONDENSING UNIT TO BE REMOVED AND RETURN TO OWNER. PATCH ALL ROOF PENETRATIONS.

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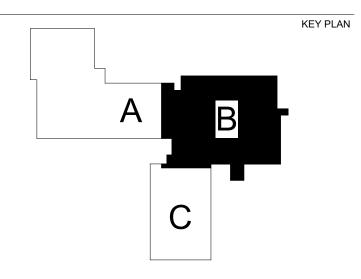
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ROOF DEMOLITION PLAN -MECHANICAL

1/8" = 1'-0"

SHEET NUMBER M103B

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EXISTING GAS PIPE TO REMAIN r----r-----L\_\_\_\_\_\_\_ L\_\_\_\_\_\_\_

1. DEMO EXISTING EXHAUST FAN. CLEAN, PATCH AND REPAIR EXISTING DUCTWORK AS REQUIRED. EXISTING FAN (PRE-8-E) WILL BE REPLACED WITH NEW EXHAUST FAN.

2. EXISTING ROOFTOP AIR HANDLER UNIT TO BE DEMOLISHED. REPAIOR ROOF AS REQUIRED AT ROOF PENETRATIONS.

3. EXISTING NATURAL GAS PIPE TO BE DEMOLISHED AND CAP. PIPE TO BE REUSED FOR NEW DOAS UNIT. SEE SHEET M203C FOR EXACT LOCATION.

AN, PATCH AS I WILL BE N. NIT TO BE



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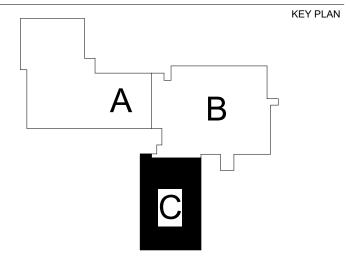
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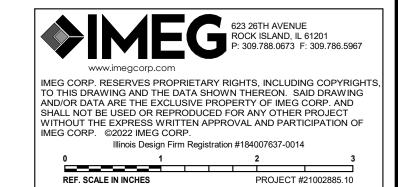
SHEET TITLE
ROOF
DEMOLITION
PLAN MECHANICAL
- C

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

M103C

SHEET NUMBER

ROOF DEMOLITION PLAN - MECHANICAL - C



### **KEY NOTES: #**

- . EXISTING OVERHEAD DUCTWORK ABOVE CEILING TO REMAIN TO PROVIDE OUTSIDE AIR. CONNECT CONDENSATE DRAIN TO LAVATORY TAILPIECE DRAIN PIPING.
- CONNECT CONDENSATE DRAIN TO SINK TAILPIECE DRAIN PIPING. INSTALL CONDENSATE PUMP FOR CONDENSATE DRAIN. PUMP CONDENSATE TO
- SLOPE CONDENSATE PIPING 1%. PROVIDE AND CONNECT NEW 12x24 EXHAUST AIR GRILLE TO THE EXISTING DUCTWORK FROM POC AS SHOWN IN THE DRAWING.
- EXISTING DUCTWORK AS SHOWN ON THE DRAWING. B. PROVIDE NEW WALL MOUNTED FAN COIL UNIT AS SHOWN IN THE DRAWING.

  THIS DUCT SERVES FLOOR MOUNTED GRILLES ON SECOND FLOOR. 0. NEW GRILLE TO MOUNT ON WALL ON EXISTING

1. EXISTING 72"X12" RETURN AIR DUCT ABOVE

INSTALL MANUAL VOLUME DAMPER ON THE

### **SHEET NOTES:**

WALL OPENING.

FIELD VERIFY BALANCING DAMPERS ON EXISTING DUCTWORK. INSTALL IF NOT EXISTING.

QUAD CITIES, IL FAX: 309.786.5967 61201 www.imegcorp.com RUN OVERHEAD AND DRAIN TO LAVATORY TAILPIECE DRAIN PIPING.

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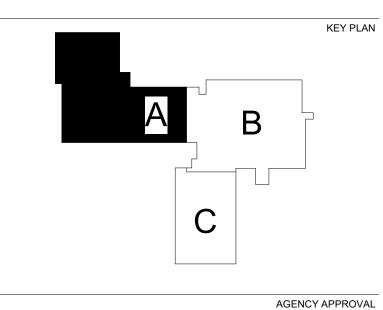
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FIRST FLOOR **MECHANICAL** 

1/8" = 1'-0"

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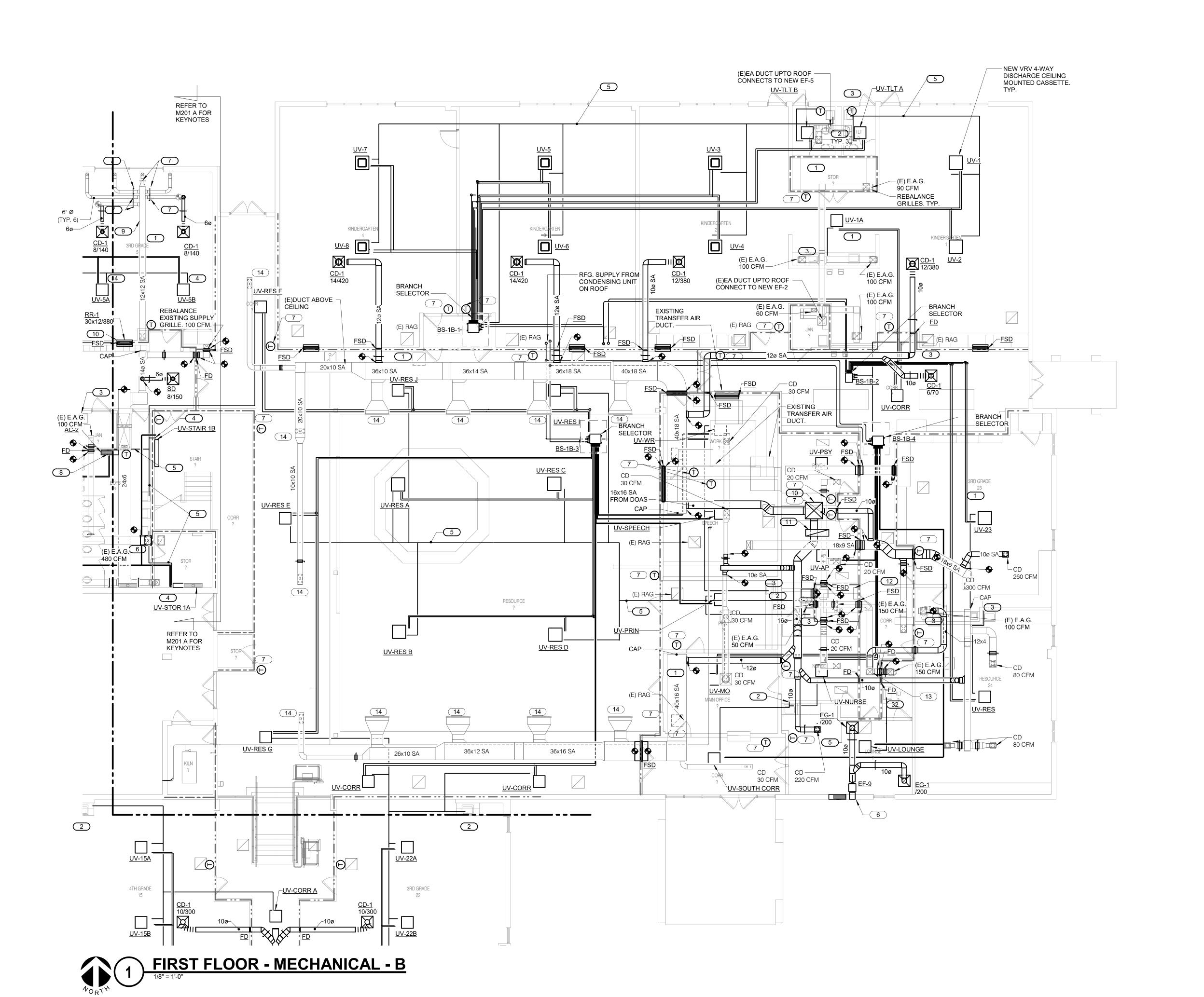
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SHEET NUMBER

1 FIRST FLOOR - MECHANICAL - A



### **KEY NOTES: #**

- . EXISTING OVERHEAD DUCTWORK ABOVE CEILING TO REMAIN TO PROVIDE OUTSIDE AIR.
- TAILPIECE DRAIN PIPING. CONNECT CONDENSATE DRAIN TO SINK TAILPIECE DRAIN PIPING.
- SLOPE CONDENSATE PIPING 1% 3/4" CD. L# INDICATES LINTEL IN CMU WALL. LINTEL L2
- REQUIRED AT NEW OPENING. SEE SHEET M203B FOR SCHEDULE. PROVIDE NEW THERMOSTAT AS SHOWN IN
- THE DRAWING. PROVIDE NEW 1 TON SPLIT HEAT PUMP UNIT AS SHOWN IN THE DRAWING. THIS DUCT SERVES FLOOR MOUNTED GRILLES
- ON SECOND FLOOR. 0. 36"X34" SUPPLY AIR DUCT FROM DOAS UNIT. 1. 14"X48" RETURN AIR DUCT FROM DOAS UNIT.
- FINISH ABOVE CEILING. 12. CONTROLS CONTROLLER. PROVIDE 120V
- 13. (E)EA DUCT UPTO ROOF CONNECT TO NEW
- 14. (E)GRILLE TO BE REBALANCED TO 60 CFM OF OUTSIDE AIR. TYP. 4. 15. RFG. PIPES UP THRU ROOF TO CONDENSING UNIT ON ROOF. 16. INSTALL MANUAL VOLUME DAMPER ON THE EXISTING DUCTWORK AS SHOWN ON THE DRAWING.

### **SHEET NOTES:**

. FIELD VERIFY BALANCING DAMPERS ON EXISTING DUCTWORK. INSTALL IF NOT



- CONNECT CONDENSATE DRAIN TO LAVATORY
- INSTALL CONDENSATE PUMP FOR CONDENSATE DRAIN. PUMP CONDENSATE TO
- RUN OVERHEAD AND DRAIN TO LAVATORY TAILPIECE DRAIN PIPING.

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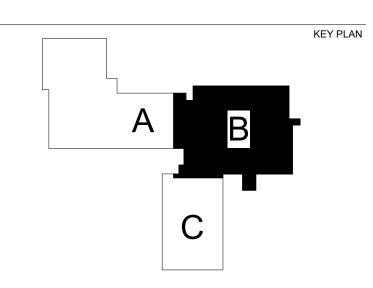
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FIRST FLOOR **MECHANICAL** 

SHEET NUMBER

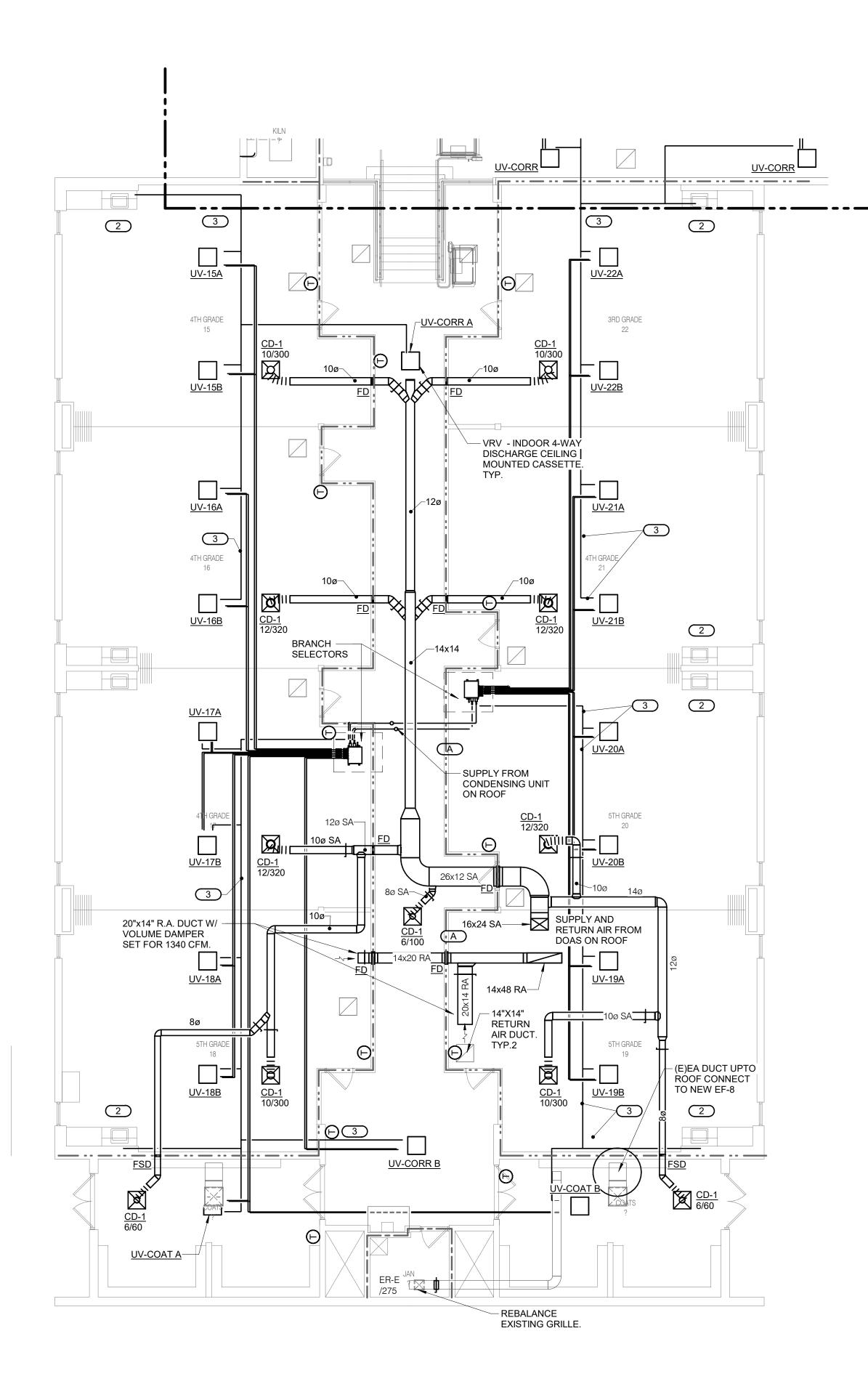
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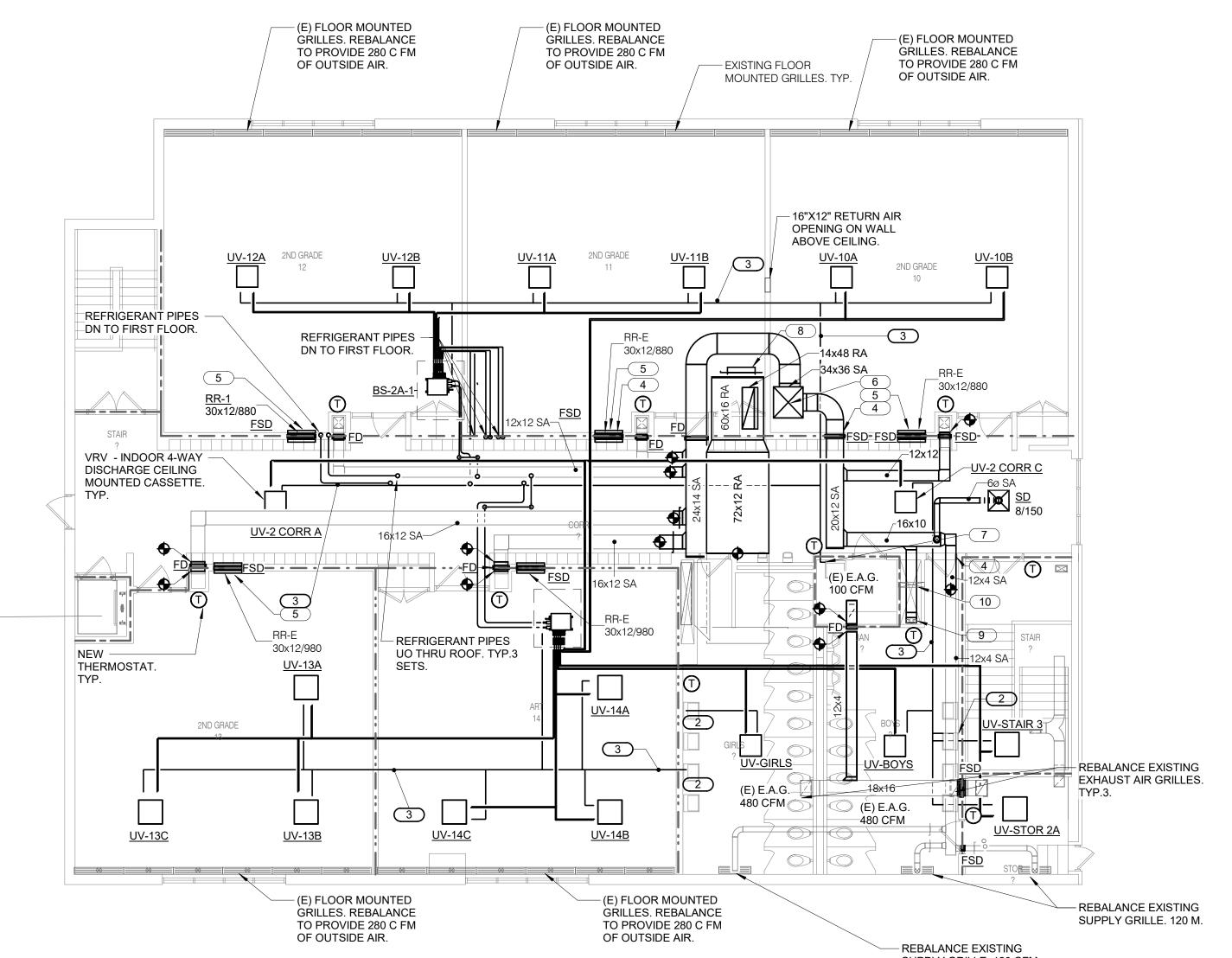
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 PROJECT #21002885 10







SECOND FLOOR - MECHANICAL - A



- EXISTING OVERHEAD DUCTWORK ABOVE CEILING TO REMAIN TO PROVIDE OUTSIDE AIR. CONNECT CONDENSATE DRAIN TO LAVATORY
- TAILPIECE DRAIN PIPING. SLOPE CONDENSATE PIPING 1% L# INDICATES LINTEL IN CMU WALL. LINTEL L1 REQUIRED AT NEW OPENING. SEE SHEET M203B FOR SCHEDULE.
- NEW GRILLE TO MOUNT ON WALL ON EXISTING WALL OPENING. TYP.5 SUPPLY AND RETURN AIR DUCTS UP THRU ROOF TO DOAS UNIT LOCATED ON THE ROOF
- CONNECT CONDENSATE DRAIN TO SINK TAILPIECE DRAIN PIPING. 32"X12" RETURN AIR DUCT WITH VOLUME DAMPER SET FOR 1600 CFM. CONNECT EXISTING 12"X4" DUCT TO NEW
- 12"X10" DUCT. 10. CONNECT EXITING 30"X6" DUCT IN SHAFT TO NEW 12"X10" DUCT.

  11. INSTALL NEW THERMOSTAT. SEE
  REQUIREMENTS ON SHEET

### **SHEET NOTES:**

FIELD VERIFY BALANCING DAMPERS ON EXISTING DUCTWORK. INSTALL IF NOT EXISTING.

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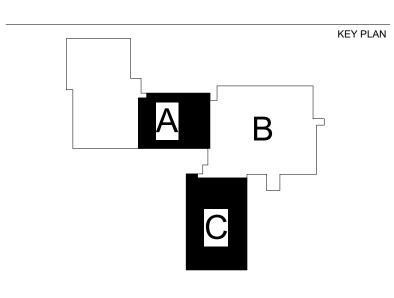
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> FIRST FLOOR **MECHANICAL** - C AND SECOND **FLOOR MECHANICAL**

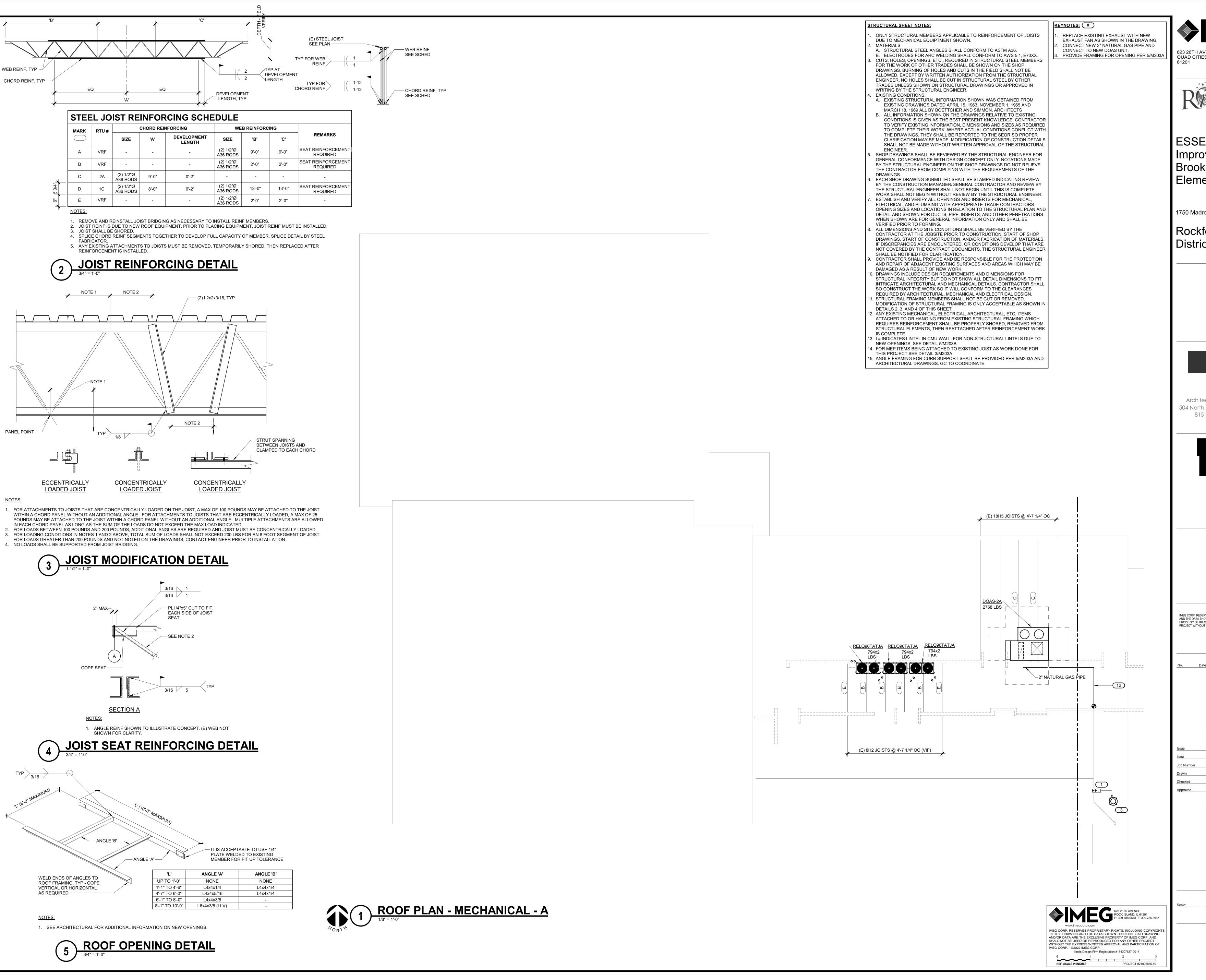
SCALE 1/8" = 1'-0"

> SHEET NUMBER M201C

1 FIRST FLOOR - MECHANICAL - C

623 26TH AVENUE ROCK ISLAND, IL 61201 P: 309.788.0673 F: 309.786.5967 REBALANCE EXISTING SUPPLY GRILLE. 120 CFM. TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. ©2022 IMEG CORP. Illinois Design Firm Registration #184007637-0014 0 1 2 3

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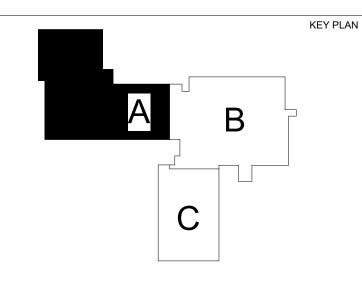
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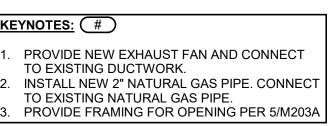
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ROOF PLAN -MECHANICAL - A

SCALE

As indicated

M203A



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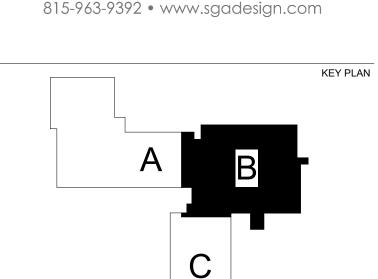
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**ROOF PLAN -**

SCALE

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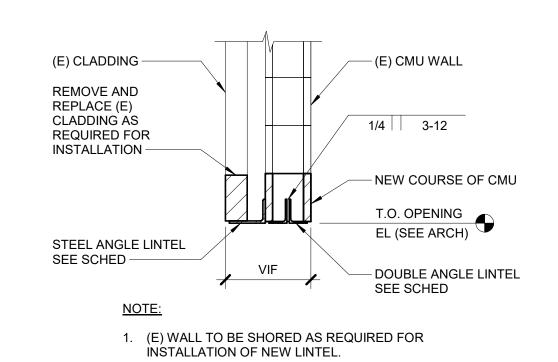
SHEET NUMBER

1/4 3-12 NEW COURSE OF — DOUBLE ANGLE LINTEL SEE SCHED T.O. OPENING
EL (SEE ARCH)

(E) WALL TO BE SHORED AS REQUIRED FOR INSTALLATION OF NEW LINTEL.

**DOUBLE ANGLE LINTEL** 2 DETAIL AT EXISTING

3/4" = 1'-0"



**DOUBLE ANGLE LINTEL** 3 DETAIL AT EXISTING

3/4" = 1'-0"

	LINTEL SCH	EDULE	
MARK	MEMBER SIZE	REFERENCE DETAIL	REMARKS
L1	(2) L4x3 1/2x1/4	2/M203B	-
L2	(2) L4x3 1/2x1/4 + L4x3 1/2x1/4	3/M203B	-

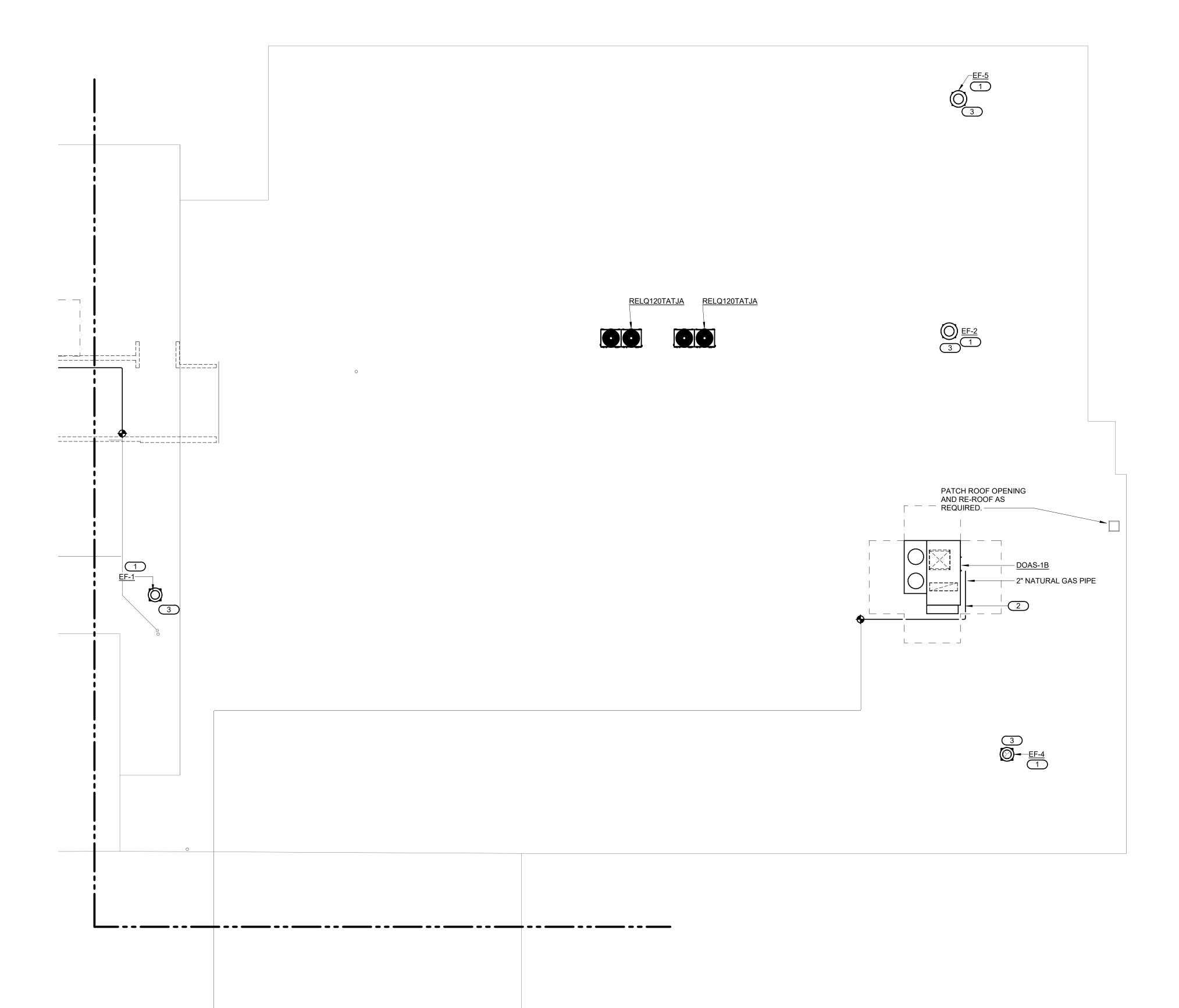
 BEARING LENGTH EACH END = 8" UON. 2. SEE DETAIL 5/M203B FOR ADDITIONAL LINTEL REQUIREMENTS.



- 1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" WIDE OR LESS THAT IS AT LEAST 1
- COURSE BELOW THE BOND BEAM AT THE TOP OF WALL. 2. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER
- SIMILAR TO THE IDENTIFIED LOCATIONS.

SPAN, L	STEEL OPTION (FOR EA 4" OF MASONRY) *
1'-0" < L ≤ 4'-0"	L3 1/2x3 1/2x1/4
4'-0" < L ≤ 6'-0"	L4x3 1/2x5/16 (LLV)
6'-0" < L ≤ 8'-0"	L5x3 1/2x5/16 (LLV)
8'-0" < L ≤ 10'-0"	L6x3 1/2x3/8 (LLV)

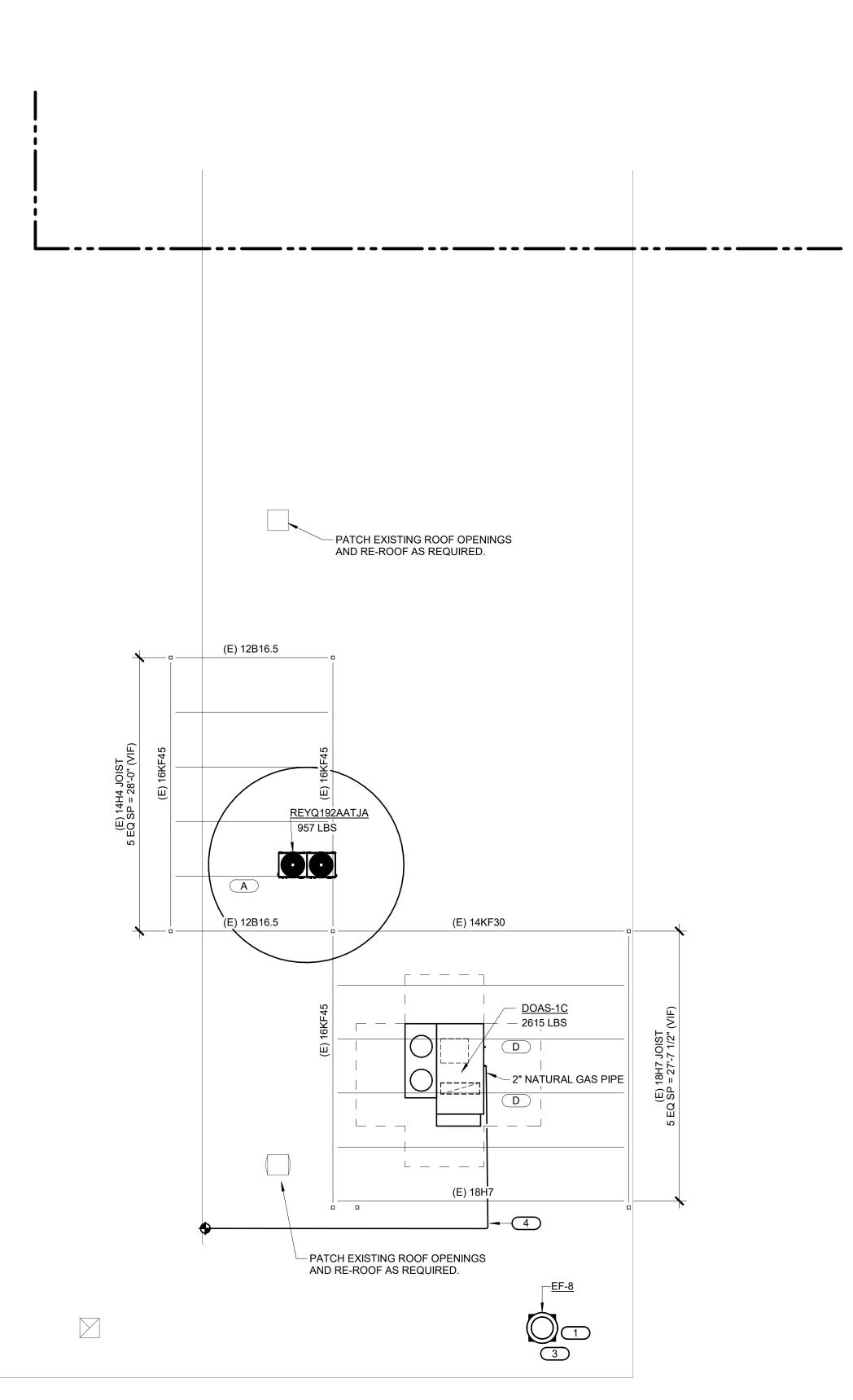
- 4. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING AND DO NOT REQUIRE BEARING PLATES, UNLESS OTHERWISE NOTED.
- 5. TEMPORARY SHORING OF MASONRY LINTELS MUST BE PROVIDED UNTIL MASONRY HAS REACHED 75% OF DESIGN STRENGTH.
- 6. ALL STEEL LINTELS IN EXTERIOR WALL CONSTRUCTION SHALL BE HOT-DIP GALVANIZED, UNLESS OTHERWISE NOTED.



ROOF PLAN - MECHANICAL - B

KEYNOTES: #

REPLACE EXISTING EXHAUST WITH NEW EXHAUST FAN AS SHOWN IN THE DRAWING.
 INSTALL NEW 2" NATURAL GAS PIPE. CONNECT TO EXISTING NATURAL GAS PIPE.
 PROVIDE FRAMING FOR OPENING PER 5/M203A



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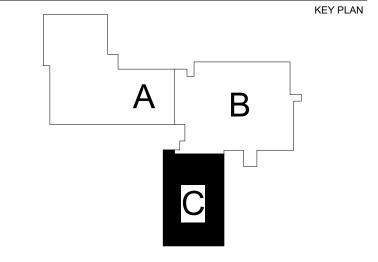
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SHEET INFORMATION **Construction Documents** November 03, 2022 21002885.10 EFRGON QEUMAZ BRAPIE

> **ROOF PLAN -MECHANICAL**

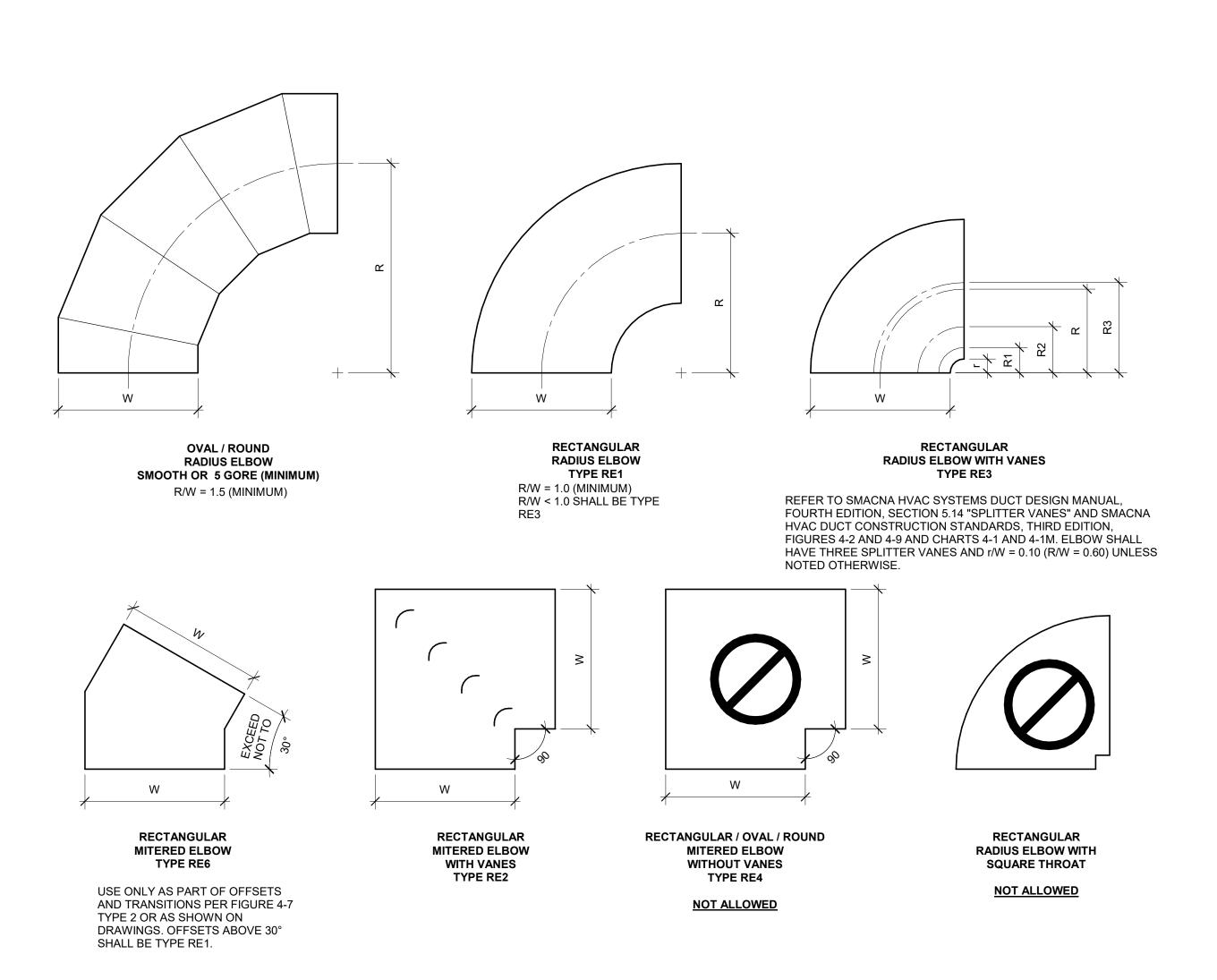
> > SCALE

1/8" = 1'-0" SHEET NUMBER

**M203C** 



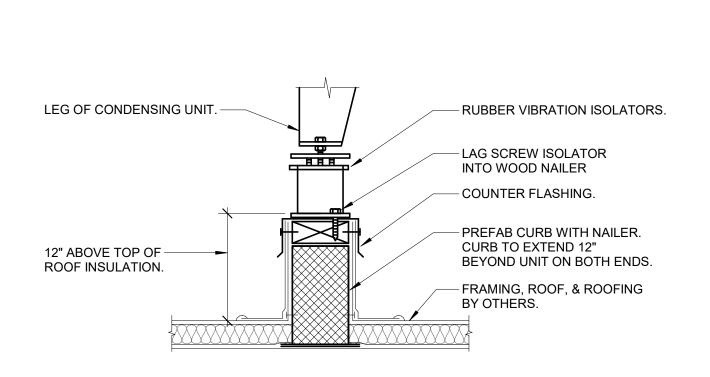




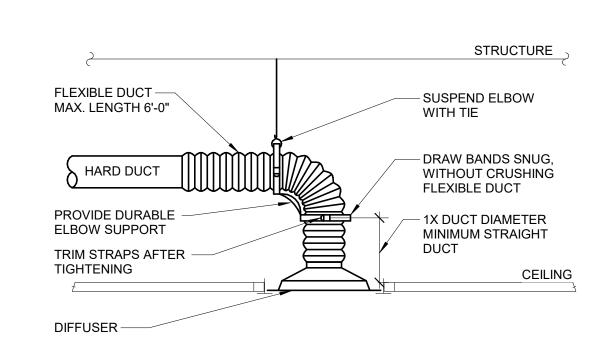
- 1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
- 2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. 3. DEFAULT ELBOW SHALL BE TYPE "RE1". 4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3

# 1 ELBOW CONSTRUCTION NO SCALE

MAY BE SUBSTITUTED FOR RE2.

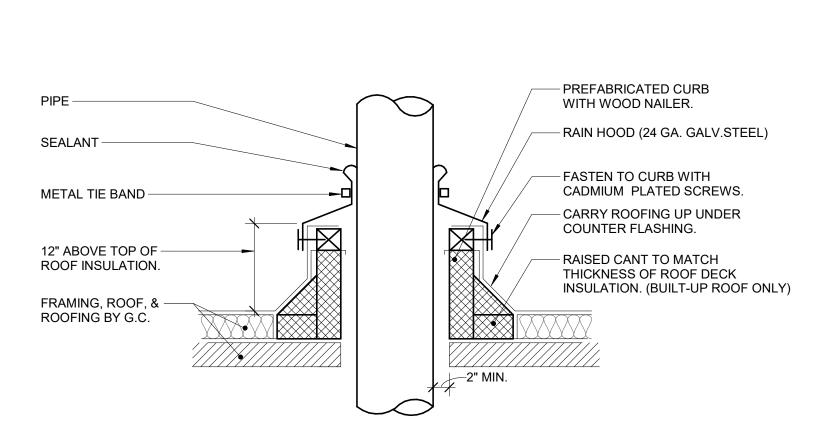


**CONDENSING UNIT SUPPORT** (MEMBRANE ROOF)
NO SCALE

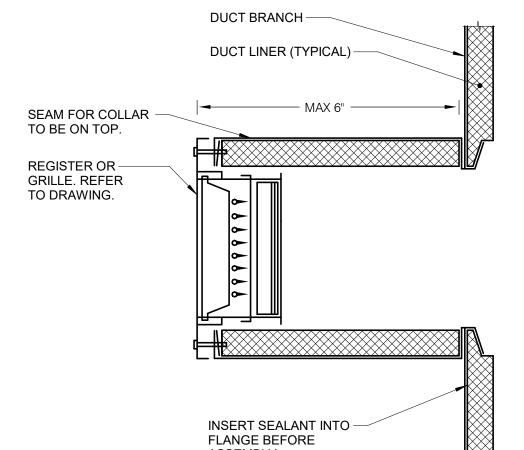


- 1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS; ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
- 2. "SMARTFLOW" ELBOW (WWW.HARTANDCOOLEY.COM), THERMAFLEX "FLEXFLOW" (WWW.THERMAFLEX.NET/FLEXFLOW ELBOW.PHP?AUD) AND "FLEXRIGHT" (WWW.TITUS-HVAC.COM) ARE ACCEPTABLE PRODUCTS FOR DURABLE ELBOW SUPPORT.

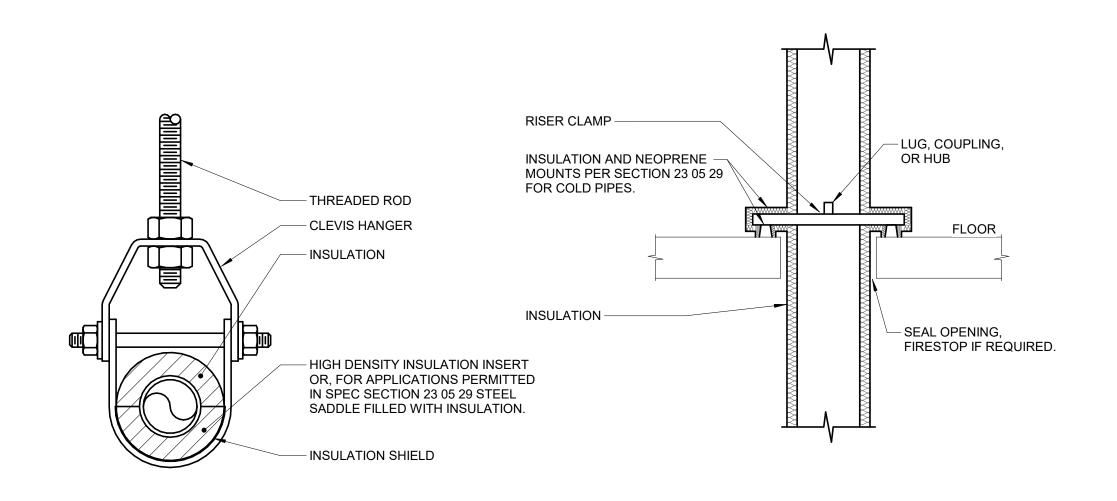
DIFFUSER CONNECTION DETAIL (W/ RADIUS FORMING ELBOW)
NO SCALE

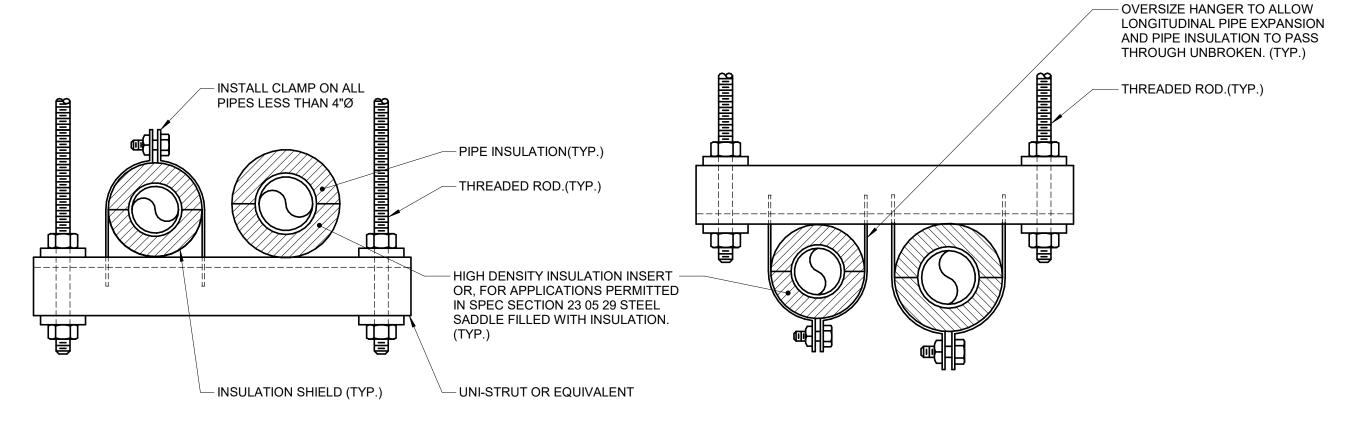


5 PIPE THRU ROOF
NO SCALE



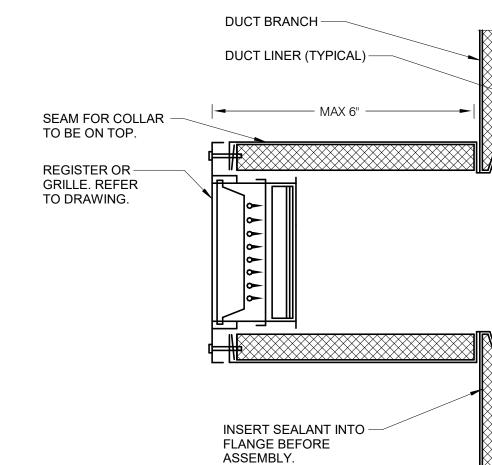






1. REFER TO SPECIFICATION SECTION 23 05 29 & SECTION 23 07 19.





6 EXPOSED REGISTER
NO SCALE

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**KEY PLAN** 

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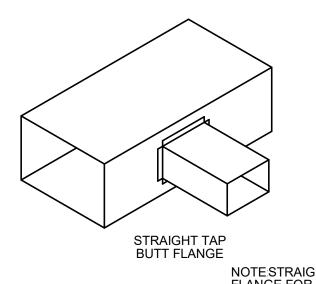
SHEET INFORMATION **Construction Documents** November 03, 2022 21002885.10 **EFRGON** QEUMAZ BRAPIE

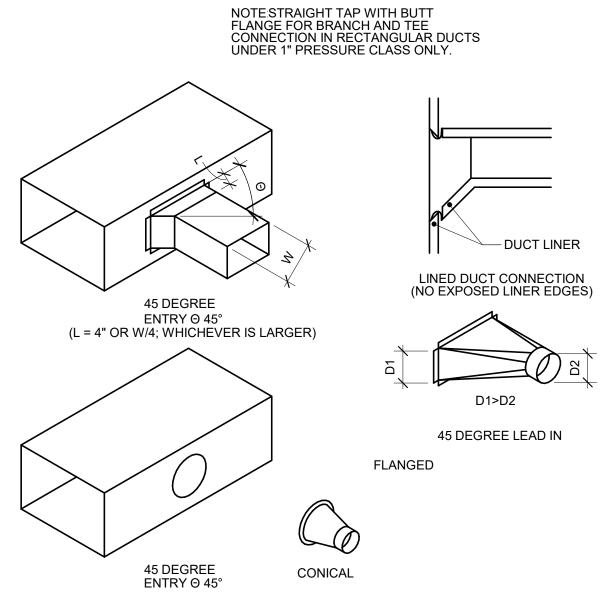
**MECHANICAL** 

12" = 1'-0"

SHEET NUMBER

**M400** 



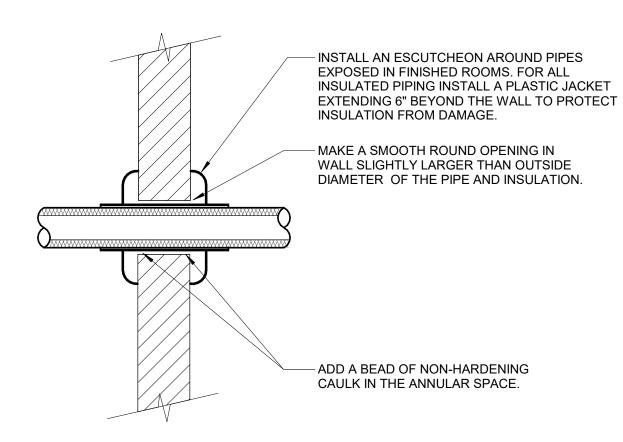


### NOTES:

- DO NOT USE CONNECTIONS WITH SCOOPS.
   FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SECURE THEM SHITABLY FOR THE PRESSURE OF ASS.
- SECURE THEM SUITABLY FOR THE PRESSURE CLASS.

  3. ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR
- 4"W.G. AND OVER.
  4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



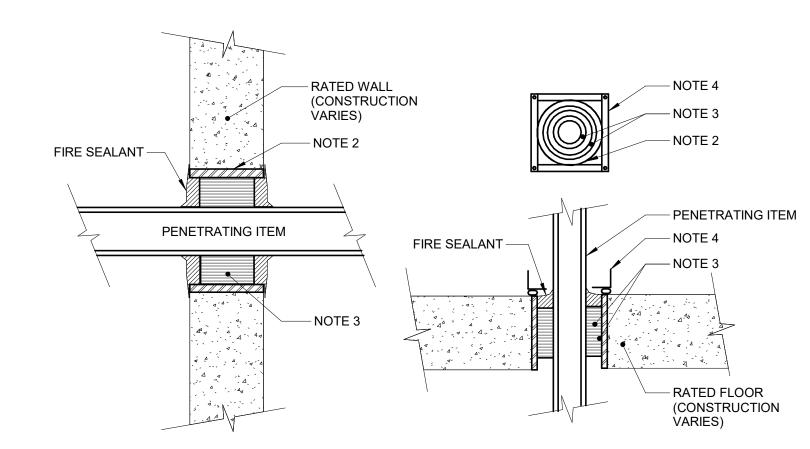


### NOTES:

WALL PENETRATIONS.

- THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION
- 2. FLOOR OPENINGS ARE SIMILAR SEE SPECIFICATION SECTION 15140 (SECTION 22 05 29 PLUMBING, SECTION 23 05 29 HVAC) FOR DIFFERENCES BETWEEN FLOOR AND
- 3. SEE SPECIFICATION SECTIONS 15080 (SECTION 21 05 03 FIRE PROTECTION, SECTION 22 05 03 PLUMBING, SECTION 23 05 03 HVAC) AND 15140 (SECTION 22 05 29 PLUMBING, SECTION 23 05 29 HVAC) FOR ADDITIONAL INFORMATION.





### NOT

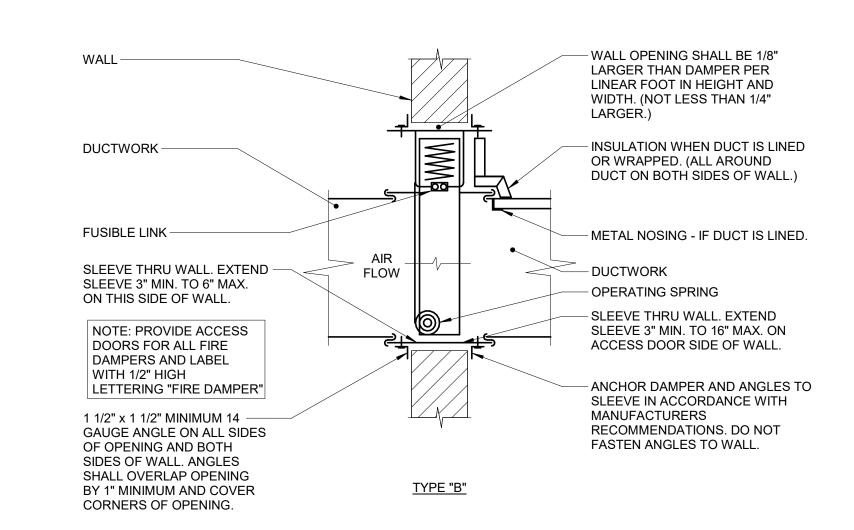
- THIS GENERAL DETAIL APPLIES TO ALL ITEMS PENETRATING FIRE RATED WALLS OR FLOORS. THE INTENT IS TO MAINTAIN THE FIRE RATING AND TO ALLOW LONGITUDINAL MOVEMENT. REFER TO SPECIFICATION SECTION 07840 (07 84 00) (15080) (SECTION 21 05 03 - FIRE PROTECTION, SECTION 22 05 03 - PLUMBING, SECTION 23 05 03 - HVAC) FOR
- SELECTION OF THROUGH PENETRATION FIRE STOPPING.

  2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO G.C., COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
- INSTALL BACKING MATERIAL, SUCH AS MINERAL WOOL SAFING, AS REQUIRED FOR FIRE STOP SYSTEM. INSTALL IN ACCORDANCE WITH FIRE STOP SYSTEM APPLICATION LISTING. SECURE TO WALL OR FLOOR TO ALLOW LONGITUDINAL MOVEMENT OF PENETRATING ITEM WITHOUT MOVEMENT OF FIRE BARRIER.
   WATERTIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME, BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO

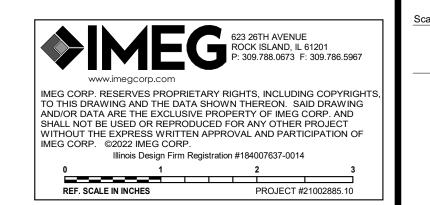
FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS.

MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.

RATED FIRE BARRIER PENETRATION
NO SCALE



FIRE DAMPER THRU WALL DETAIL (TYPE B)
NO SCALE





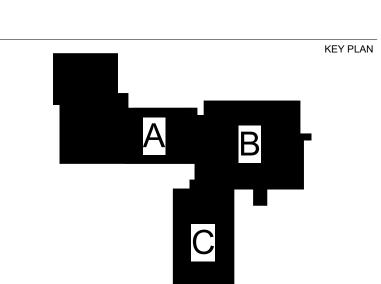
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1 2
1 2

SHEET INFORMATION

Issue Construction Documents

Date November 03, 2022

Job Number 21002885.10

Drawn EFRGON

Checked

SHEET TITLE
MECHANICAL

REVISIONS

QEUMAZ

BRAPIE

SCALE

12" = 1'-0"

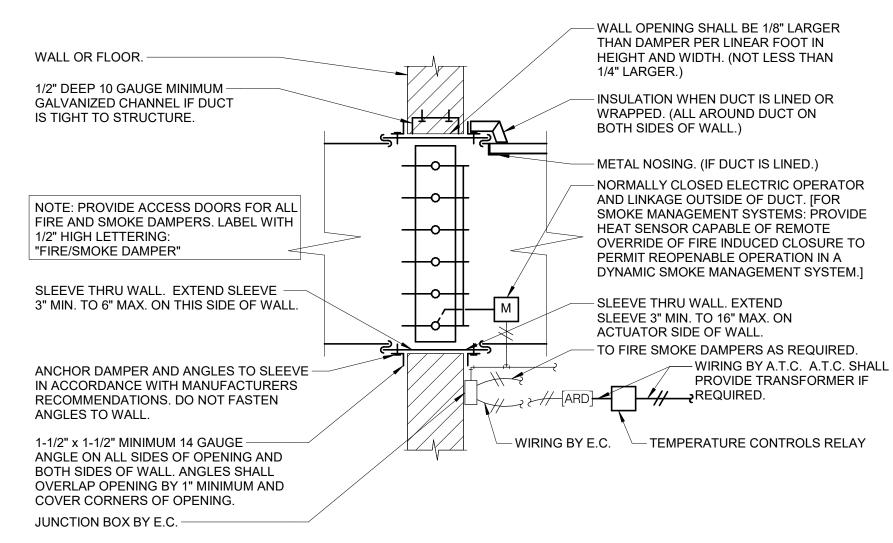
M401

NOTES:

1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S

# 1 DUCT ROOF PENETRATION NO SCALE

RECOMMENDATIONS.

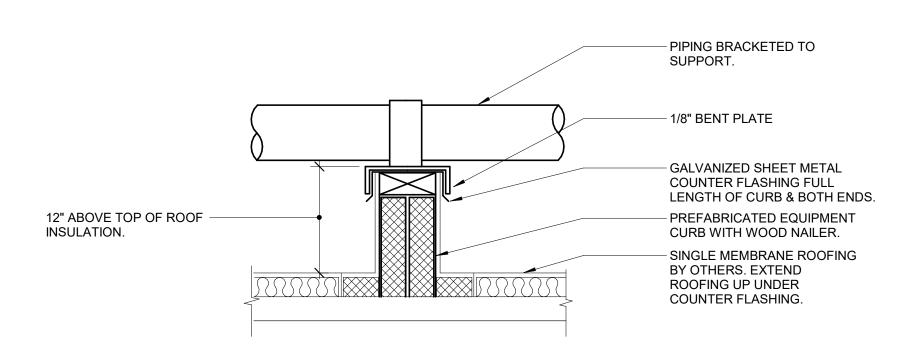


### NOTE

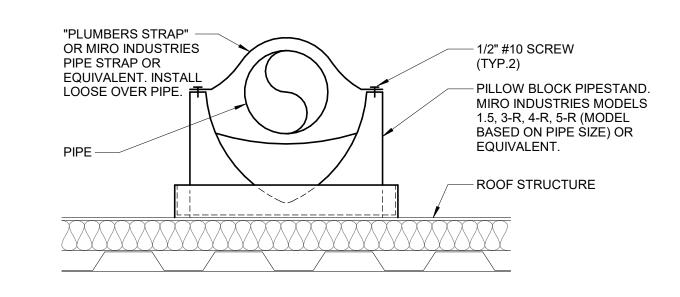
- 1. CONNECTION OF DAMPER TO SLEEVE SHALL BE AS SHOWN IN FIGURE 1 OF SMACNA "FIRE DAMPER AND HEAT STOP GUIDE FOR AIR HANDLING SYSTEMS", SECOND EDITION.
- DAMPER CLOSES BY SPRING ACTION IN EVENT OF HIGH TEMPERATURE.
   FLOOR MOUNTED DAMPER SIMILAR WITH ACTUATOR ON SIDE WITH ACCESS DOOR.
- 4. WHERE DUCT SMOKE DETECTORS CANNOT BE ACCESSED BY THE DAMPER ACCESS DOOR THE ELECTRICAL CONTRACTOR SHALL FURNISH A DUCT ACCESS DOOR FOR THE DETECTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL THE DOOR IN THE DUCT
- CONTRACTOR SHALL INSTALL THE DOOR IN THE DUCT.

  5. SEE SMOKE DAMPER CONTROLLER SCHEMATIC DETAIL ON ELECTRICAL DRAWINGS FOR WIRING DETAILS.
  A.T.C. SHALL PROVIDE RELAYS TO CLOSE FIRE SMOKE DAMPERS IN NON-FIRE EVENTS. REFER TO
  ELECTRICAL DRAWINGS FOR ARD LOCATIONS.

# (3) COMBINATION FIRE & SMOKE DAMPER (ELECTRIC) NO SCALE



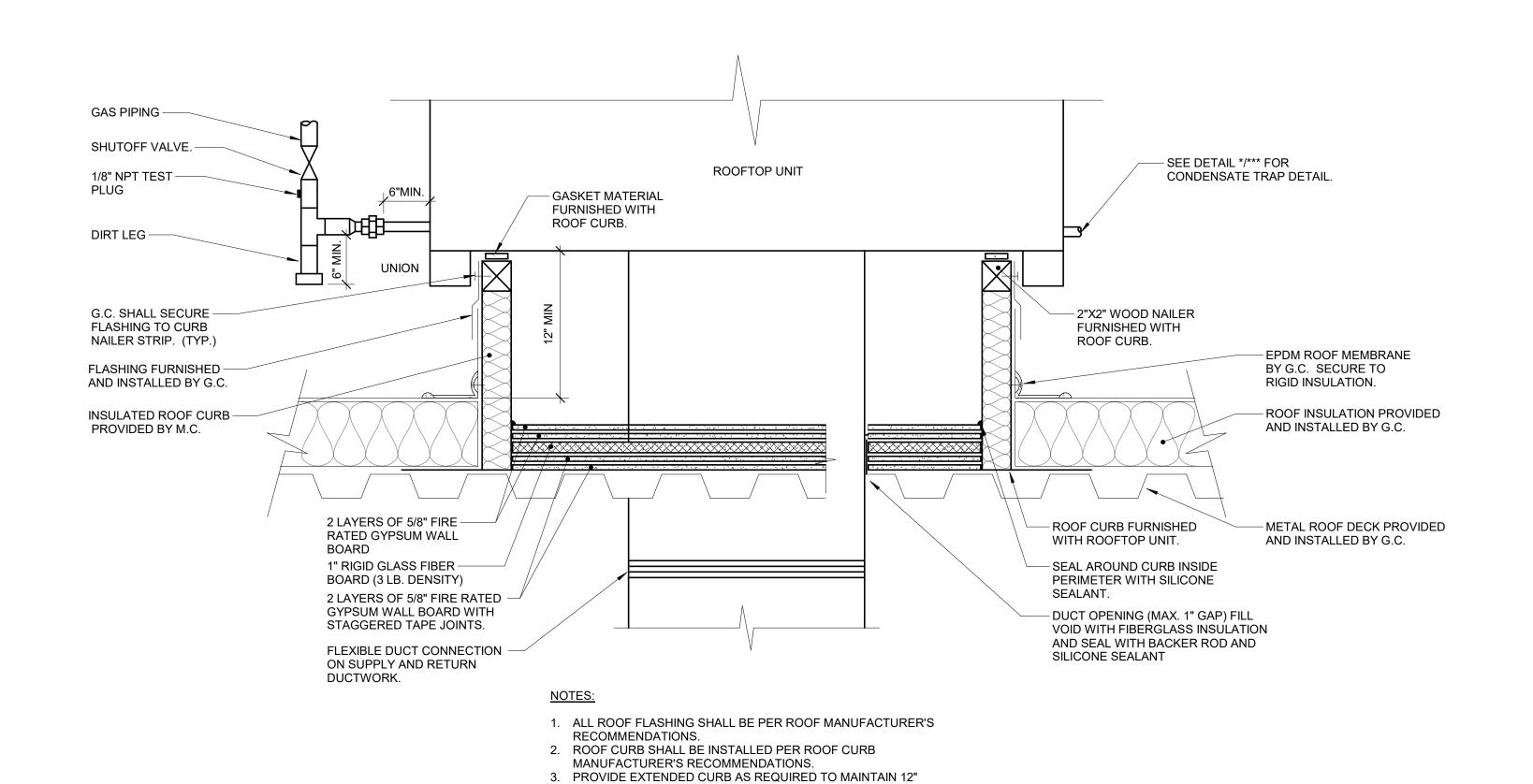
800F PIPE SUPPORT DETAIL
NO SCALE



### NOTES:

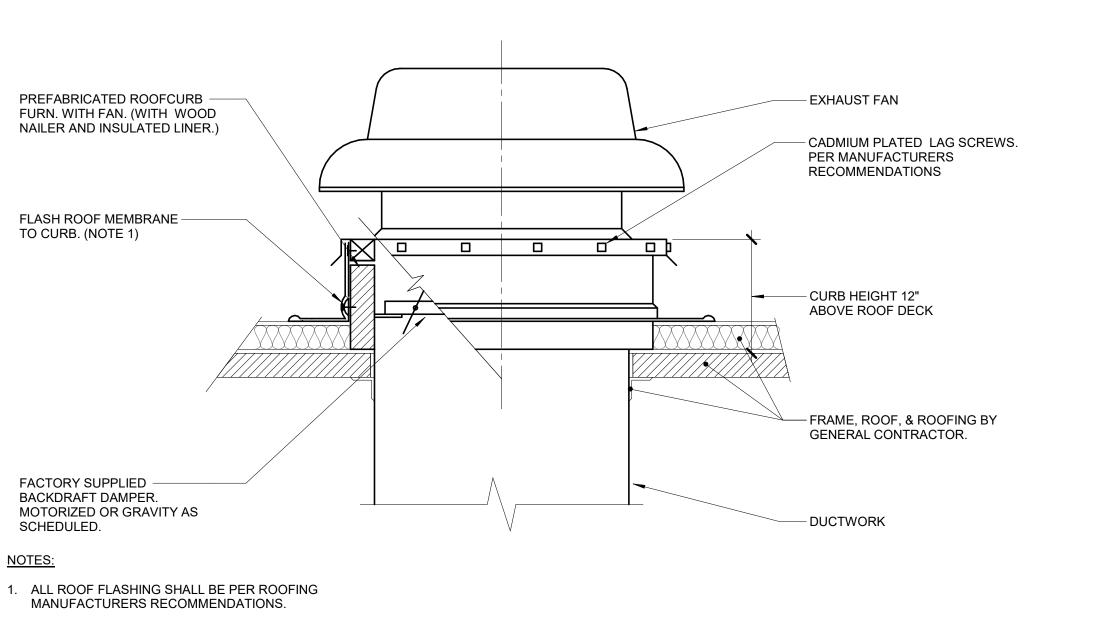
- SPACE STANDS AS REQUIRED TO MEET MANUFACTURERS RATED CAPACITIES.
   COORDINATE PIPESTAND LOCATIONS WITH G.C.
   PROVIDE EPDM PAD TO PROTECT ROOF IF REQUIRED BY
- ROOFING MANUFACTURER.
  4. MIRO INDUSTRIES (800)768-6978.

# ROOF SUPPORT - EXPOSED PIPING PILLOW BLOCK

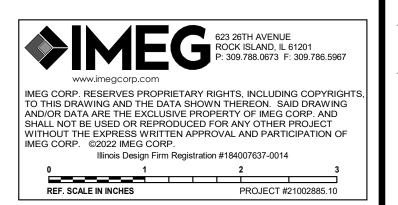


# ROOFTOP UNIT DETAIL NO SCALE

CLEARANCE ABOVE INSULATION.



ROOF SUPPORT - FAN/HOOD CURB



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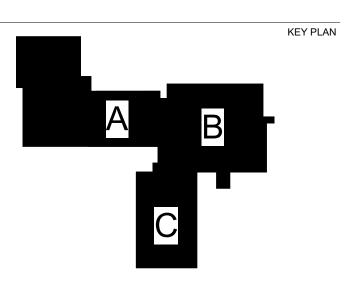
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 Issue
 Construction Documents

 Date
 November 03, 2022

 Job Number
 21002885.10

 Drawn
 EFRGON

 Checked
 QEUMAZ

 Approved
 BRAPIE

SHEET TITLE
MECHANICAL
DETAILS

SCALE
e: 12" = 1'-0"

M402

SHEET NUMBER

2885 10

<u>DOAS CONTROL PANEL SEQUENCE OF OPERATION:</u> THE FMCS SHALL SEND A SIGNAL TO START THE DOAS.

SUPPLY FAN OPERATION:
DOAS CONTROL PANEL SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN SCHEDULED OUTSIDE AIR CFM AS

EXHAUST FAN SHALL BE INDEXED TO RUN WHENEVER THE SUPPLY FAN IS INDEXED TO RUN. DOAS CONTROL PANEL SHALL MODULATE SIGNAL TO EXHAUST FAN VFD AS REQUIRED TO MAINTAIN THE AIRFLOW OFFSET AS INDICATED IN THE EXHAUST FAN AIRFLOW SCHEDULE.

VENTILATION CONTROL:
WHENEVER THE UNIT IS IN OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL BE FULLY OPEN.

DISCHARGE AIR TEMPERATURE CONTROL:
AT FULL HEATING THE ENERGY RECOVERY WHEEL SHALL BE ROTATING AT FULL SPEED AND THE GAS BURNER MODULATING TO MAINTAIN SETPOINT. WHENEVER THE DISCHARGE AIR TEMPERATURE IS ABOVE SETPOINT THE FOLLOWING SHALL OCCUR:

THE GAS FIRED BURNER SHALL MODULATE OFF. THE ENERGY RECOVERY WHEEL VFD SHALL MODULATE SPEED OF WHEEL TO MAINTAIN SETPOINT.

THE ENERGY RECOVERY WHEEL SHALL BE DISABLED. THE DOAS COMPRESSORS SHALL MODULATE TO MAINTAIN SETPOINT.

THE ENERGY RECOVERY WHEEL SHALL TURN ON TO FULL SPEED WHEN THE TEMPERATURE DIFFERENCE FROM THE RETURN AIR TO THE OUTSIDE AIR IS 5°F (ADJ.) OR GREATER FOR MORE THAN 20 MINUTES (ADJ.). THE DOAS COMPRESSORS SHALL CONTINUE TO MODULATE TO MAINTAIN SETPOINT.

AT FULL COOLING THE ENERGY RECOVERY WHEEL SHALL BE ROTATING AT FULL SPEED AND THE DOAS COMPRESSORS MODULATING TO MAINTAIN SETPOINT. WHENEVER THE DISCHARGE AIR TEMPERATURE IS BELOW SETPOINT THE FOLLOWING SHALL OCCUR:

THE DOAS COMPRESSORS SHALL CONTINUE TO MODULATE TO MAINTAIN SETPOINT. THE ENERGY RECOVERY WHEEL SHALL BE DISABLED WHEN THE TEMPERATURE DIFFERENCE FROM THE RETURN AIR AND OUTSIDE AIR IS 5°

THE DOAS COMPRESSORS SHALL TURN OFF. THE DOAS COMPRESSORS SHALL BE DISABLED BELOW 50°F (ADJ.) THE ENERGY RECOVERY WHEEL SHALL BE ENABLED.

THE ENERGY RECOVERY WHEEL SHALL MODULATE SPEED OF WHEEL TO MAINTAIN SETPOINT. ONCE THE ENERGY RECOVERY WHEEL IS AT FULL SPEED THE GAS FIRED BURNER SHALL MODULATE OPEN.

MODULATING HOT GAS REHEAT (HGRH) CONTROL IN THE COOLING 'FAN ONLY' STATES. A PID-LOOP SHALL CONTROL THE HGRH VALVE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT THE DEHUMIDIFICATION SETPOINT. THE PID-LOOP IS ENABLED WHEN THE UNIT IS IN THE COOLING OR 'FAN ONLY' OPERATING STATE AND DEHUMIDIFICATION BECOMES ACTIVE. UNIT WILL COOL TO APPROXIMATELY 55° AND THEN REHEAT TO 72° F.

ENERGY RECOVERY WHEEL CONTROL:
DEFROST CONTROL: OVERRIDE THE HEATING WHEEL SPEED CONTROL TO LIMIT THE LEAVING EXHAUST AIR TEMPERATURE FROM THE WHEEL TO 15°F (ADJ.) AT A RETURN AIR RELATIVE HUMIDITY OF 30% RH AND RESET TO 5°F (ADJ.) AT 20% RH.

PURGE CONTROL: WHEN THE HEAT WHEEL IS DEACTIVATED, THE WHEEL SHALL RUN FOR 20 SECONDS AT MINIMUM SPEED EVERY 30 MINUTES TO KEEP THE ROTOR SURFACE CLEAN. BYPASS DAMPERS SHALL REMAIN OPEN DURING PURGE SEQUENCE.

ALARMS, INTERLOCKS AND SAFETIES: SEND AN ALARM TO THE FMCS FOR THE FOLLOWING:

SUPPLY FAN VFD FAULT EXHAUST FAN VFD FAULT

ENERGY RECOVERY WHEEL VFD FAULT

DIFFERENTIAL PRESSURE SWITCH ACROSS ANY PRE-FILTER (30%) BANK EXCEEDS 0.6 INCHES W.G. (ADJ.) IF DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.

IF THE FIRE ALARM SYSTEM IS ACTIVATED EMERGENCY STOP

WHENEVER DOAS IS SHUTDOWN THE RTU CONTROLLER SHALL COMMAND THE FOLLOWING TO OCCUR:

• SUPPLY FAN AND EXHAUST FAN VFDS SHALL BE DE-ENERGIZED.

OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL FULLY CLOSE. THE RETURN AIR DAMPER SHALL FULLY OPEN. HEATING AND COOLING SHALL BE DISABLED.

THE ENERGY RECOVERY WHEEL SHALL STOP.

PROVIDE TIME OF DAY SCHEDULE TO ALLOW DOAS TO ENTER UNOCCUPIED MODE PER SCHEDULE. THE SUPPLY AND EXHAUST FANS SHALL TURN OFF.

THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL CLOSE.

FMCS SEQUENCE OF OPERATION:
WHEN DOAS IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR: SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS SHALL OPEN. AFTER A 30 SECOND DELAY TO ALLOW FOR OPENING OF COMBINATION FIRE/SMOKE DAMPERS. THE FMCS SHALL SEND A SIGNAL TO INDEX THE DOAS TO START. WHEN THE DOAS SUPPLY FAN HAS STARTED THE INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE SENT FROM THE VRF CENTRAL CONTROLLER TO THE DOAS CONTROLLER AND SHALL BE 72°F (ADJ.). THE MAXIMUM RETURN/EXHAUST AIR HUMIDITY SHALL BE 60% RH (ADJ.). ONCE THE RETURN/EXHAUST REACHES 55% RH (ADJ.). THE HOT GAS REHEAT CONTROL SEQUENCE SHALL BE ENABLED TO DEHUMIDIFY AND REHEAT THE SUPPLY AIR IN ORDER TO MAINTAIN THE DAT WHILE ALSO MAINTAINING THE RETURN/EXHAUST AIR HUMIDITY LEVEL BELOW THE MAXIMUM.

RECIRCULATING DAMPER
PROVIDE GRAPHIC FOR RECIRCULATION MODE. RECIRCULATING DAMPER SHALL OPEN, EXHAUST FAN IS OFF WITH EXHAUST DAMPER CLOSED, AND OUTSIDE AIR DAMPER SHALL CLOSE. SUPPLY FAN SHALL OPERATE AND DISCHARGE AIR TEMPERATURE SHALL BE ADJUSTED BY USER. USER

SHALL INITIATE RECIRCULATING DAMPER MODE VIA GRAPHIC.

EXTERNAL CONTROLS PROVIDED BY AND/OR WIRED BY TCC: SUPPLY AND EXHAUST TEMPERATURE SENSOR SUPPLY AND EXHAUST HUMIDITY SENSOR

DUCT SMOKE DETECTOR AIR FLOW MEASURING STATION

COMPRESSOR STATUS (EACH)

ALL REQUIRED POINTS FROM DOAS CONTROLLER TO FMCS ALL REQUIRED POINTS FROM FMCS TO DOAS CONTROLLER

ALARMS, INTERLOCKS AND SAFETIES:
WHEN FIRE ALARM CONTROL PANEL INDICATES AN ALARM CONDITION, FMCS SHALL SEND A SIGNAL TO DOAS TO SHUTDOWN UNIT.

THE FOLLOWING SAFETIES SHALL BE INSTALLED BY THE TCC IN THE FIELD.

HIGH STATIC SWITCH (WIRED TO SUPPLY FAN)

LOW STATIC SWITCH (WIRED TO EXHAUST FAN) FIRE ALARM RELAY (WIRED TO SUPPLY AND EXHAUST FAN)

FMCS WILL RECEIVE A SIGNAL FROM THE RTU CONTROLLER FOR THE FOLLOWING: SUPPLY FAN VFD FAULT

DIRTY FILTERS (WHEN FILTER PRESSURE DROP EXCEEDS 0.6" W.C. (ADJ.)

IF DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT. IF THE FIRE ALARM SYSTEM IS ACTIVATED EMERGENCY STOP

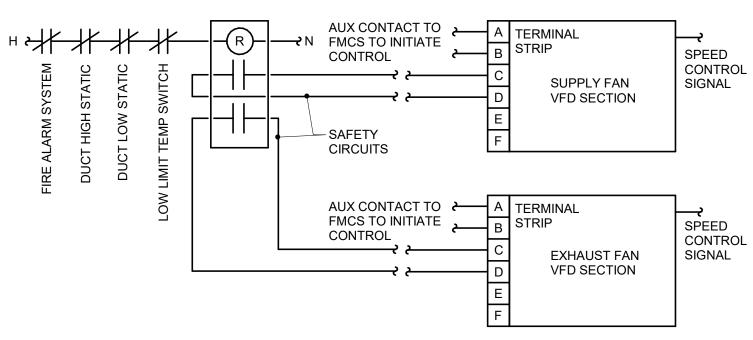
WHENEVER DOAS IS SHUTDOWN THE FMCS SHALL COMMAND THE FOLLOWING TO OCCUR:

ALL COMBINATION FIRE/SMOKE DAMPERS SHALL FULLY CLOSE.

REFERENCE TO COOLING AND COOLING EQUIPMENT DO NOT APPLY TO DOAS-3

DISPLAY THE GLOBAL OUTSIDE AIR TEMPERATURE AND HUMIDITY ON DOAS GRAPHIC PAGE.

DOAS REPORT GENERATION:
DDC FMCS SHALL MONITOR THE FOLLOWING POINTS ON 10 MINUTE (ADJ.) INTERVALS WITHIN A SINGLE TREND. THE TREND SHALL RUN FOR A 100-DAY (ADJ.) DURATION AT WHICH POINT THE NEWEST VALUES SHALL AUTOMATICALLY OVERWRITE THE OLDEST VALUES: GLOBAL OUTSIDE AIR TEMP [°F] GLOBAL OUTSIDE AIR HUMIDITY [%RH] SUPPLY AIRFLOW [CFM] SUPPLY AIR TEMP (SAT) [°F] SUPPLY AIR TEMP SETPOINT [°F] SUPPLY AIR RELATIVE HUMIDITY [%] SUPPLY AIR DEWPOINT [°F] SUPPLY AIR DEWPOINT SETPOINT [°F] EXHAUST AIRFLOW [CFM] EXHAUST AIR TEMP ENTERING UNIT (EAT) [°F] EXHAUST AIR RELATIVE HUMIDITY ENTERING UNIT [%] ENERGY RECOVERY WHEEL EXHAUST AIR LEAVING AIR TEMPERATURE [°F] ENERGY RECOVERY WHEEL EXHAUST AIR LEAVING RELATIVE HUMIDITY [°F] OUTSIDE AIRFLOW [CFM] PRE-FILTER LOADING [STATUS] SUPPLY FAN VFD OUTPUT [% FULL SPEED] EXHAUST FAN VFD OUTPUT [% FULL SPEED] OUTSIDE AIR DAMPER POSITION [% OPEN] EXHAUST AIR DAMPER POSITION [% OPEN] ENERGY RECOVERY WHEEL VFD OUTPUT [% FULL SPEED] THIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN GRAPHICAL FORM ON THE FMCS OPERATOR WORKSTATION. ONCE PER MONTH, THE DDC FMCS SHALL RECORD THE LARGEST DOAS AIRFLOW WHICH OCCURED DURING THAT MONTH. THE DATE, TIME, OUTSIDE AIR TEMPERATURE (AND ALL OTHER VALUES LISTED ABOVE) THAT COINCIDED WITH THAT EVENT SHALL ALSO BE RECORDED. THIS INFORMATION SHALL BE STORED TO A MEMORY LOCATION ON THE FMCS OPERATOR WORKSTATION THAT IS MAINTAINED (NOT AUTOMATICALLY OVERWRITTEN).



**SUPPLY & EXHAUST FAN VFD CONTROL** 

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REVISIONS

**MECHANICAL** 

12" = 1'-0"

SHEET NUMBER

**M500** 

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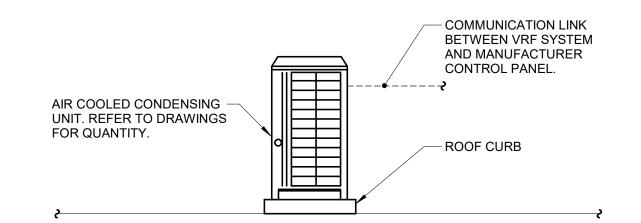
SEQUENCE OF OPERATION: EXHAUST FAN SHALL BE TO RUN CONTINUOUSLY.

2-POSITION DAMPER SHALL FULLY OPEN WHEN FAN IS ENERGIZED. WHEN FAN IS DE-ENERGIZED, 2-POSITION DAMPER SHALL FULLY CLOSE.

ALARMS, INTERLOCKS AND SAFETIES:
AN ALARM SHALL BE GENERATED AT THE FMCS OPERATOR

WORKSTATION IN THE EVENT THE FMCS COMMANDS THE EXHAUST FAN TO OPERATE AND THE CURRENT SENSING RELAY DETECTS INSUFFICIENT CURRENT DRAW.

# 3 EXHAUST FAN CONTROL DIAGRAM 12" = 1'-0"



SEQUENCE OF OPERATION:
VRF CONDENSING UNITS AND DISTRIBUTED TERMINAL UNITS SHALL BE CONTROLLED BY FACTORY PROVIDED CONTROL SYSTEM. THE MANUFACTURER SHALL PROVIDE A REMOTE USER INTERFACE. THIS INTERFACE LOCATION SHALL BE COORDINATED WITH OWNER. THE FACTORY PROVIDED CONTROL SYSTEM SHALL BE CAPABLE OF ACCEPTING AND CONTROLLING INPUTS/OUTPUTS AS INDICATED ON THE CONTROL DIAGRAMS.

VRF SYSTEM CONTROL:
EACH HEAT RECOVERY UNIT SHALL PROVIDE SIMULTANEOUS HEATING AND COOLING AT ALL POINTS IN THE SYSTEM. THE HEAT RECOVERY UNIT COMPRESSOR(S) AND CONDENSER FAN(S) SPEEDS SHALL BE MODULATED BY THE UNIT'S CONTROLLER AS REQUIRED TO MINIMIZE SYSTEM ENERGY USAGE AND SATISFY THE INDOOR TERMINAL UNIT CAPACITY REQUIREMENTS. THE UNIT OPERATION SHALL BE AUTOMATICALLY CONTROLLED TO MAINTAIN PROPER REFRIGERANT TEMPERATURE AND PRESSURE REQUIREMENTS, IN THE EVENT THE UNIT CANNOT MAINTAIN THE PROPER OPERATIONAL PARAMETERS AN ALARM SHALL BE GENERATED AND UNIT OPERATION SUSPENDED UNTIL CORRECTIVE ACTION CAN BE TAKEN. IN ADDITION, THE OUTDOOR HEAT RECOVERY UNIT SHALL BE CAPABLE OF THE FOLLOWING FUNCTIONS:

OIL RECOVERY FUNCTION: THE HEAT RECOVERY UNIT CONTROLLER SHALL AUTOMATICALLY ENABLE THE COOLING MODE OR HEATING MODE OIL RECOVERY FUNCTION ACCORDING TO THE INTERNAL ALGORITHIMS/PARAMETERS BEING MONITORED BY THE UNIT CONTROLLER. THE SYSTEM CONTROLS SHALL PROVIDE CONTINUOUS HEATING OPERATION DURING THE OIL RECOVERY FUNCTION. DEFROST MODE FUNCTION: THE HEAT RECOVERY UNIT CONTROLLER SHALL AUTOMATICALLY ENABLE DEFROST MODE FUNCTION IN HEATING MODE ACCORDING TO THE INTERNAL ALGORITHIMS/PARAMETERS BEING MONITORED BY THE UNIT CONTROLLER. THE SYSTEM CONTROLS SHALL PROVIDE CONTINUOUS HEATING OPERATION DURING THE DEFROST MODE OPERATION.

VRF SYSTEM CONTROLLER:
CONTRACTOR SHALL INTERFACE DOAS FACTORY PROVIDED CONTROLS WITH VRF SYSTEM CONTROLLERS. EACH VRF SYSTEM CONTROLLER TO SHOW ALL LISTED POINTS AND ALARMS PER CONTROL SEQUENCE DETAIL. CONTROLLER SHALL ALLOW USER TO PROGRAM UNIT SET POINTS AND UNIT OPERATION SCHEDULE. CONTRACTOR SHALL INCLUDE 2 TRAINING SESSIONS FOR THE DOAS, VRF, AND VRF SYSTEM CONTROLLER.

THE FOLLOWING MONITORING POINTS SHALL BE VISIBLE AT THE REMOTE VRF CONTROLLER INTERFACE AND THROUGH THE FMCS WORKSTATION.

FILTER STATUS OF EACH INDOOR UNIT GENERAL ALARM ZONE TEMPERATURE (REFER TO DRAWINGS FOR QUANTITY) ZONE THERMOSTAT STATUS

AIR-CONDITIONING MODE STATUS (HEAT/COOL) **FAN STATUS** TERMINAL UNIT START/STOP (REFER TO DRAWINGS FOR QUANTITY) TERMINAL UNIT MODE (HEAING OR COOLING) ZONE TEMPERATURE SETPOINT (REFER TO DRAWINGS FOR QUANTITY) ZONE SCHEDULING (REFER TO DRAWINGS FOR QUANTITY) ZONE OCCUPANCY OVERRIDE

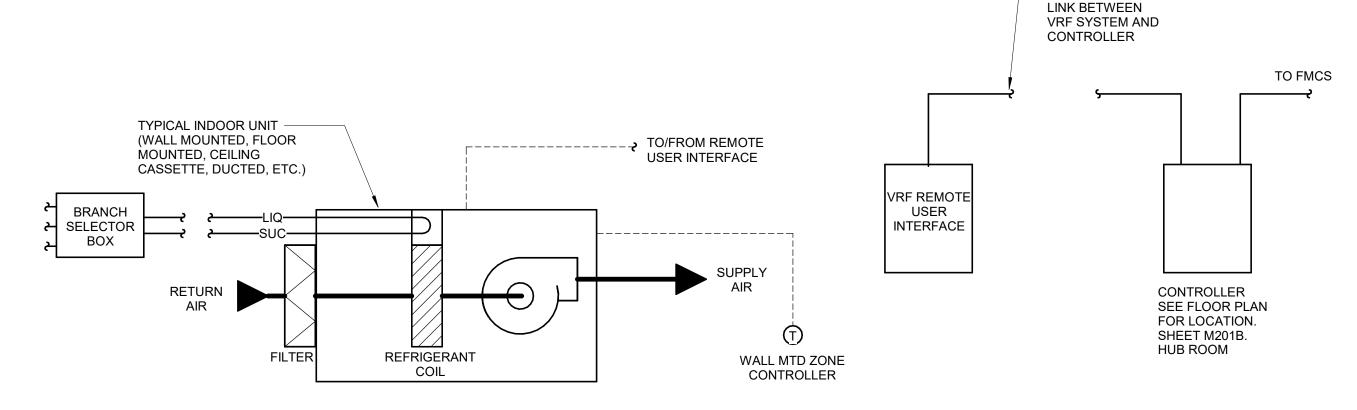
- COMMUNICATION

FILTER ALARM RESET TERMINAL UNIT FAN SETTING (HIGH/MEDIUM/LOW) DOAS ENABLE/DISABLE DOAS GENERAL ALARM

DOAS DISCHARGE AIR TEMPERATURE SET POINT DOAS DIRTY FILTER ALARM

# 1 VRF SYSTEM CONTROL NO SCALE

INTERFACE AND FMCS.



TERMINAL UNIT CONTROL

EACH TERMINAL UNIT SHALL BE PROVIDED WITH A WALL MOUNTED ZONE CONTROLLER, WITH INTEGRAL ZONE TEMPERATURE SENSOR, CAPABLE OF THE FUNCTIONS DESCRIBED BELOW. THE ZONE CONTROLLER SHALL SEND THE PROPER CONTROL SIGNAL TO ITS ASSOCIATED TERMINAL UNIT TO MODULATE THE ELECTRONIC EXPANSION VALVE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT. THE OWNER SHALL HAVE THE ABILITY TO 'LOCK-OUT' OR LIMIT AN INDIVIDUAL ZONE CONTROLLER ADJUSTMENT TO THE PUBLIC. REFER TO THE TERMINAL UNIT SCHEDULE FOR MORE INFORMATION.

AUTO MODE FUNCTION: PROVIDES AUTOMATIC CHANGEOVER FROM COOLING MODE TO HEATING MODE BASED ON RETURN AIR TEMPERATURE. TERMINAL UNIT CAPACITY WILL MODULATE AS REQUIRED TO MAINTAIN SPACE SETPOINT. COOL MODE FUNCTION: LOCKS THE TERMINAL UNIT INTO COOLING MODE AND WILL MODULATE CAPACITY AS REQUIRED TO MAINTAIN SPACE SETPOINT. IF THERE IS A DEMAND FOR HEATING, THE UNIT WILL NOT CHANGE OVER INTO HEATING MODE. <u>DRY MODE FUNCTION</u>: THE DRY MODE FUNCTION SHALL DEHUMIDIFY THE SPACE, AT REDUCED COOLING CAPACITY, TO AVOID THE ROOM TEMPERATURE FROM DROPPING TO UNCOMFORTABLE LEVELS. IN DRY MODE, THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY PROGRAMMED TEMPERATURE AND FAN SPEED (NON-USER ADJUSTABLE). IN ORDER TO ENTER THE DRY MODE, THE UNIT MUST BE IN FAN ONLY OR HEAT MODE. HEAT MODE FUNCTION: LOCKS THE TERMINAL UNIT INTO HEATING MODE. IF THERE IS DEMAND FOR COOLING, THE UNIT WILL NOT CHANGE OVER INTO COOLING MODE. IN ADDITION, THE SYSTEM AUTOMATICALLY CONTROLS THE FOLLOWING OPERATING

FAN ONLY MODE FUNCTION: LOCKS THE INDOOR FAN COIL UNIT INTO FAN ONLY MODE, BOTH THE HEATING AND COOLING SHALL BE DISABLED. SCHEDULING FUNCTION: THE ZONE CONTROLLER SHALL BE CAPABLE OF PROVIDING BUILT IN 7, 5+2, 5+1+1 WEEKLY SCHEDULE TIMER WITH UP TO 5 ACTIONS PER DAY WITH INDEPENDENT COOL/HEAT OR SETBACK SETPOINTS. IN ADDITION A 7-DAY, 12/24 TIME CLOCK SHALL BE BUILT IN. THE UNIT SHALL CONTROL TO THE OCCUPIED OR UNOCCUPIED SETPOINTS AS DETERMINED BY THE SCHEDULING FUNCTION. DIRTY FILTER FUNCTION: THE ZONE CONTROLLER SHALL BE CAPABLE OF PROVIDING AN INDICATION WHEN IT IS TIME TO REPLACE FILTER. ALARM INDICATION FUNCTION: THE ZONE CONTROLLER SHALL BE CAPABLE OF PROVIDING AN INDICATION OF A 2-DIGIT, CODE SPECIFIC ALARM FOR EASE OF TROUBLESHOOTING AND

SERVICE. AN ALARM ON ANY INDIVIDUAL TERMINAL UNIT SHALL NOT INHIBIT THE OPERATION OF OTHER TERMINAL UNITS ON THE SYSTEM. AN ERROR ON THE OUTDOOR

CONDENSING UNITS SHALL DISABLE THE ENTIRE SYSTEM.

OCCUPANT INPUTS AT THE WALL MTD ZONE CONTROLLER SHALL BE LIMITED TO: TEMPERATURE SETPOINT ADJUSTMENT TERMINAL UNIT FAN SPEED ADJUSTMENT (I.E. - HIGH/MED/LOW) THE ZONES SHALL BE SET-UP WITH THE FOLLOWING TEMPERATURE SETPOINTS: OCCUPIED COOLING: 75°F (ADJ.) OCCUPIED HEATING: 70°F (ADJ.) IN ADDITION, THE WALL MTD ZONE CONTROLLER SHALL LIMIT THE RANGE THAT THE USER IS ALLOWED TO ADJUST THE TEMPERATURE SETPOINT. THIS RANGE SHALL BE +/- 2°F

ALL FUNCTIONS LISTED ABOVE SHALL BE CONTROLLABLE FROM THE REMOTE USER INTERFACE.

(ADJ.). THIS RANGE ADJUSTMENT LIMIT SHALL BE AVAILABLE THROUGH BOTH THE REMOTE

VRF TERMINAL UNIT CONTROL
NO SCALE



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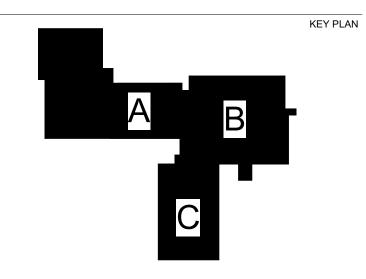
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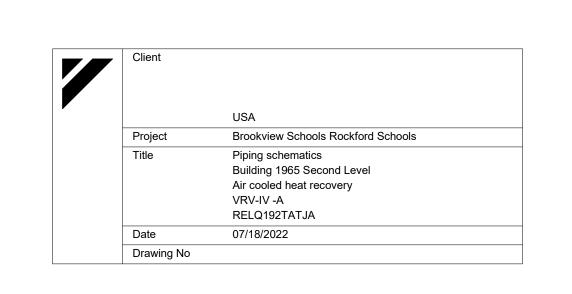
REVISIONS Revision / Issue

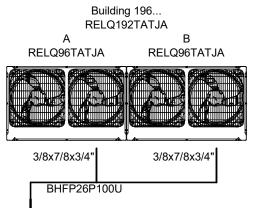
**Construction Documents** November 03, 2022 21002885.10 Job Number **EFRGON** QEUMAZ BRAPIE

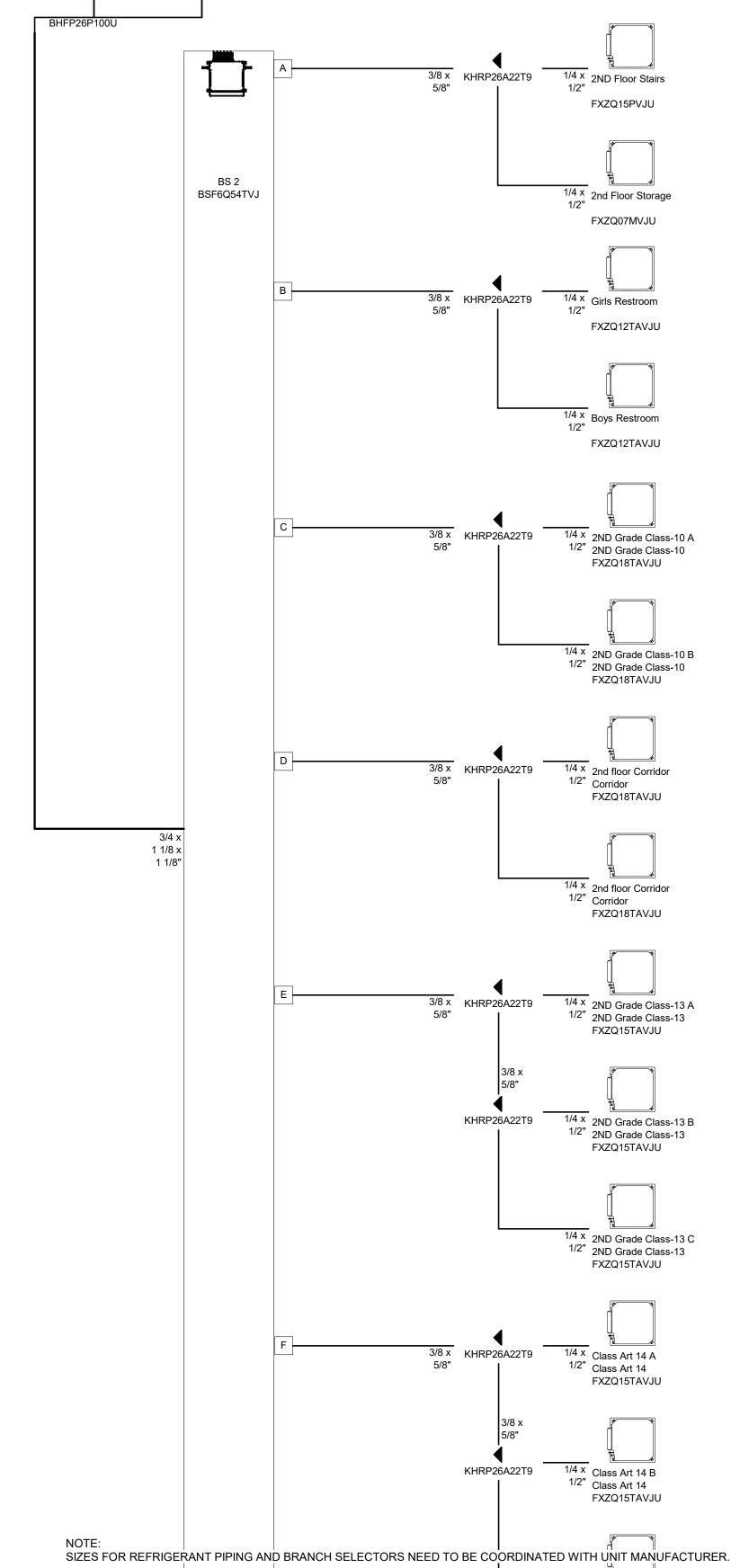
**MECHANICAL** 

SCALE 12" = 1'-0"

M501

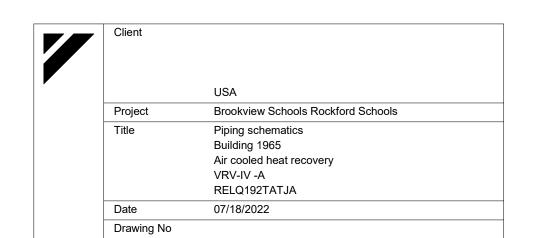


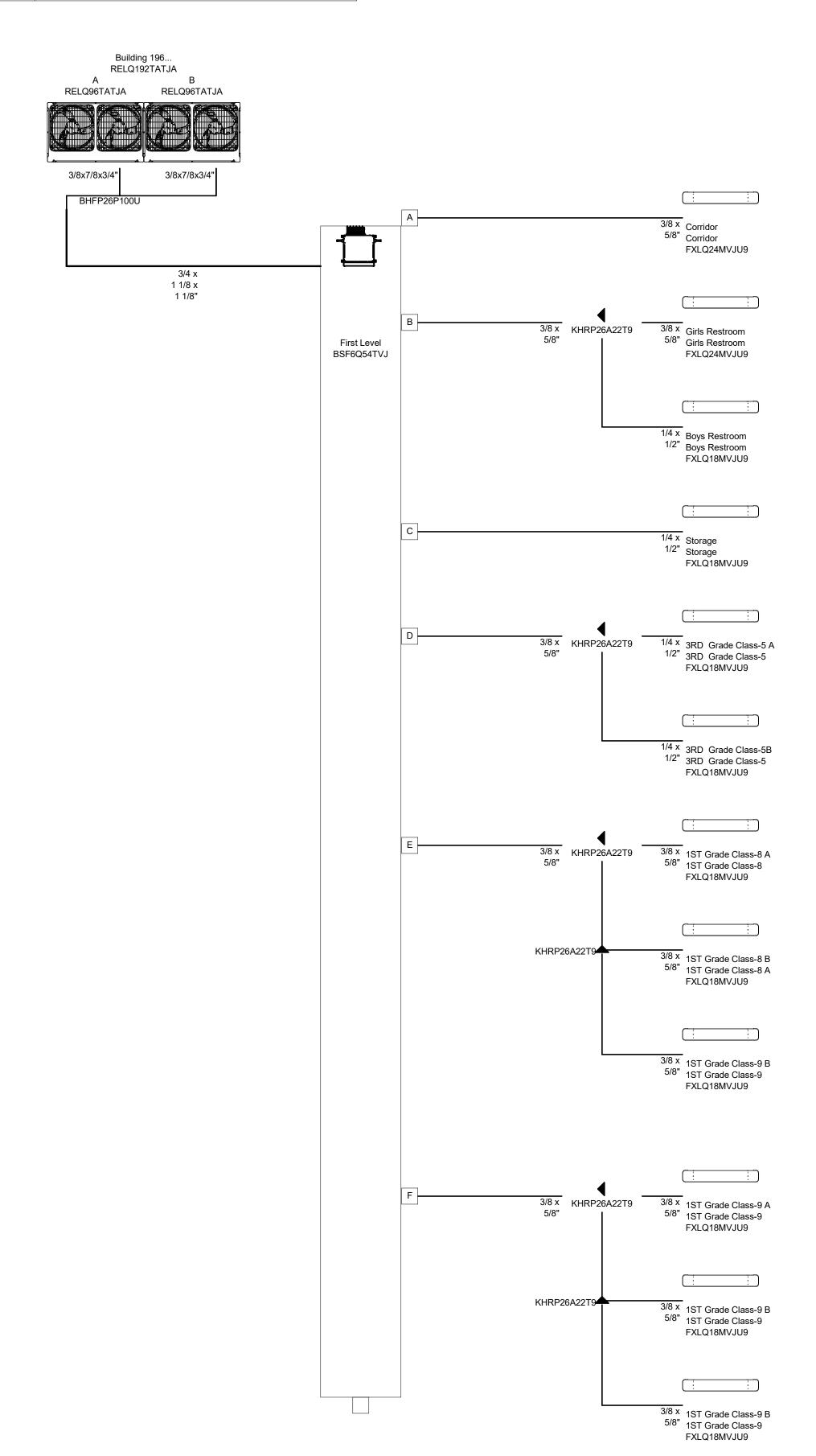


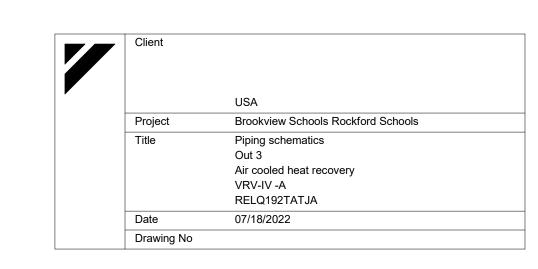


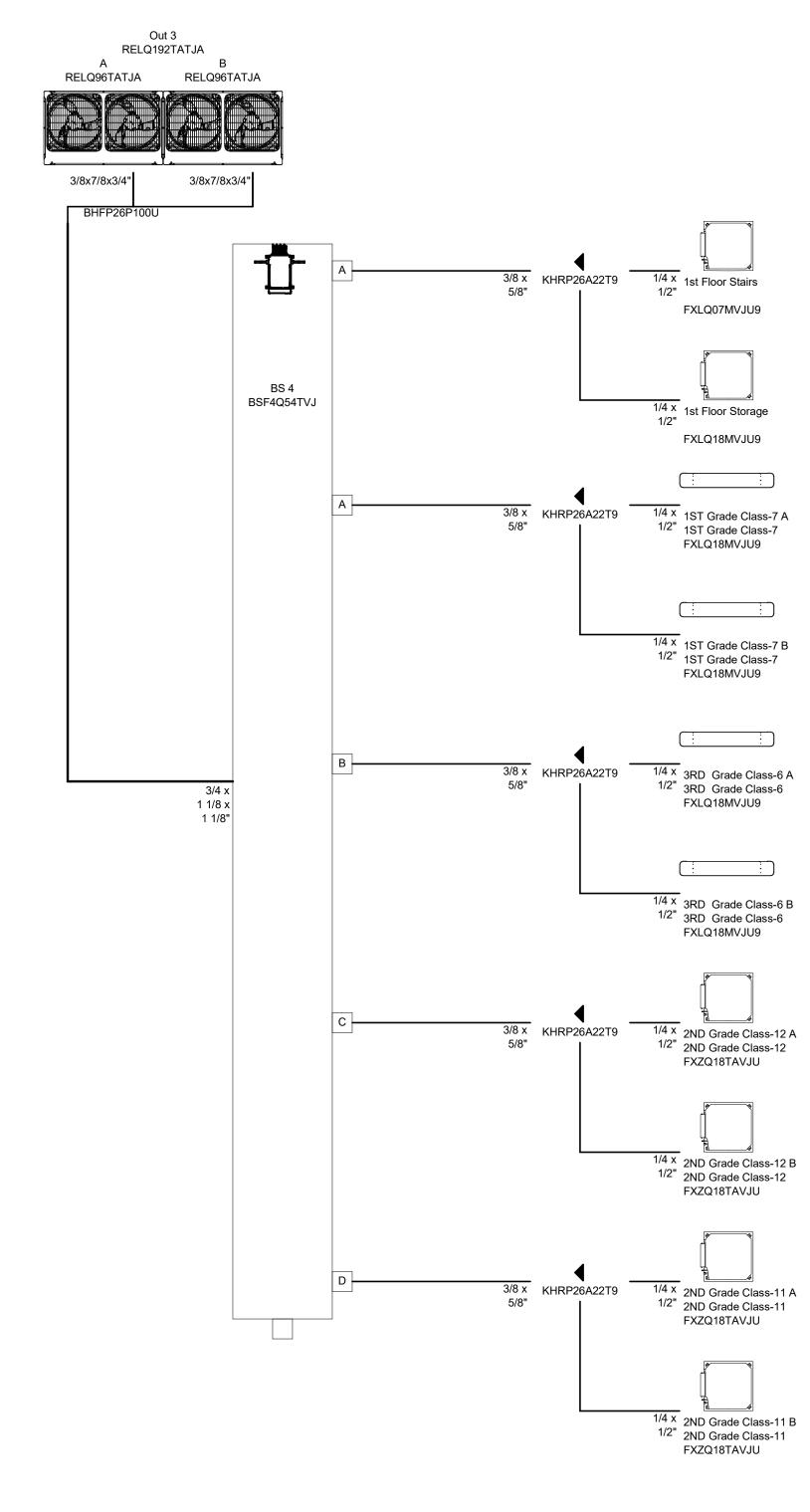
BUILDING 1965 SECOND LEVELING PIPING -VRFALTI

1/4 x Class Art 14 C









BUILDING 1965 SECOND LEVELING PIPING -VRF-3
NO SCALE

2 BUILDING 1965 FIRST LEVEL PIPING VRF 2
NO SCALE



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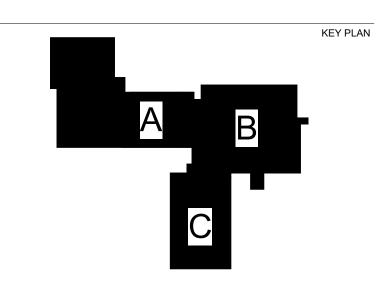
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SHEET INFORMATION **Construction Documents** November 03, 2022 21002885.10 **EFRGON** 

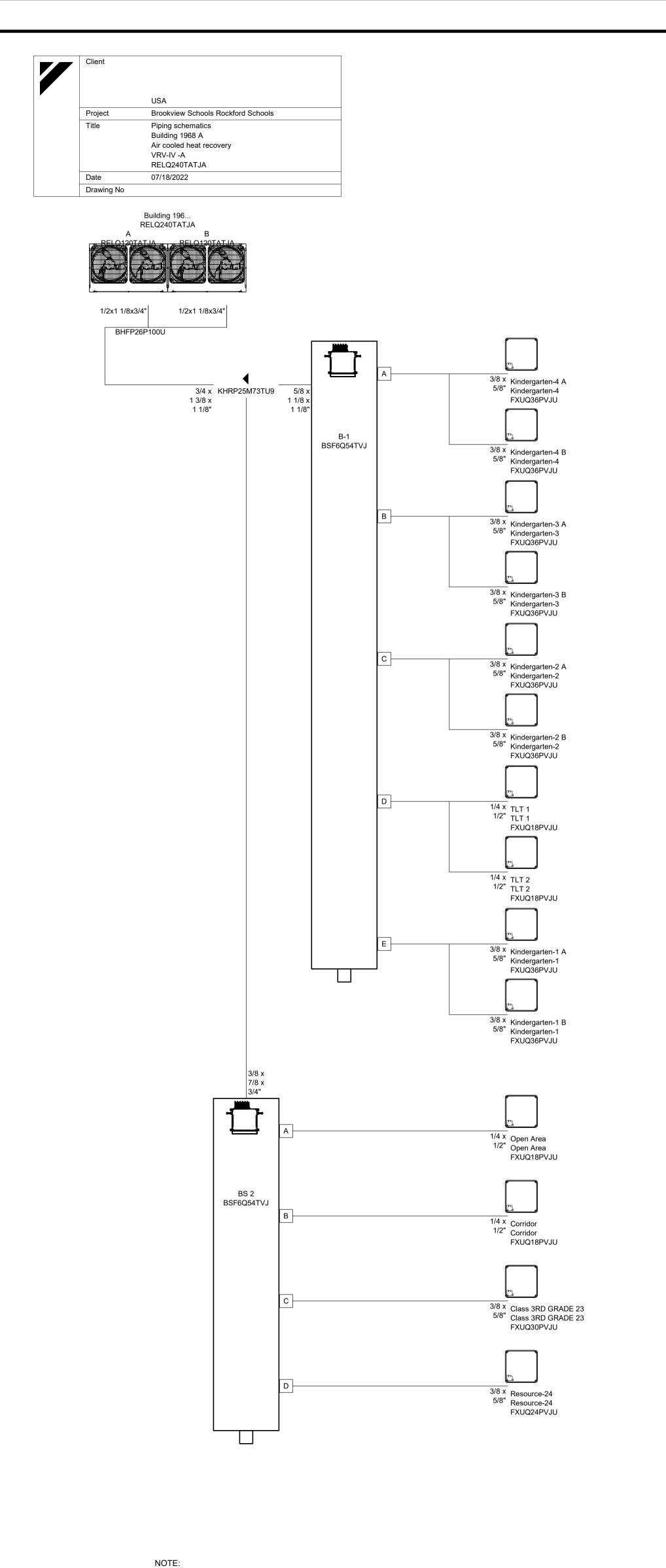
> SHEET TITLE **MECHANICAL**

QEUMAZ

BRAPIE

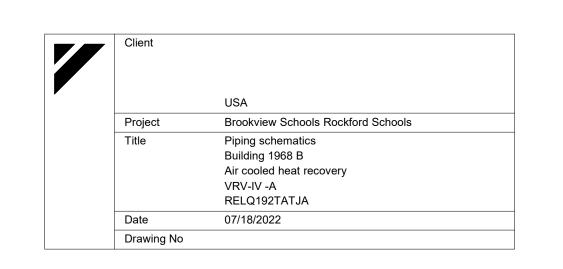
SCALE 1/8" = 1'-0"

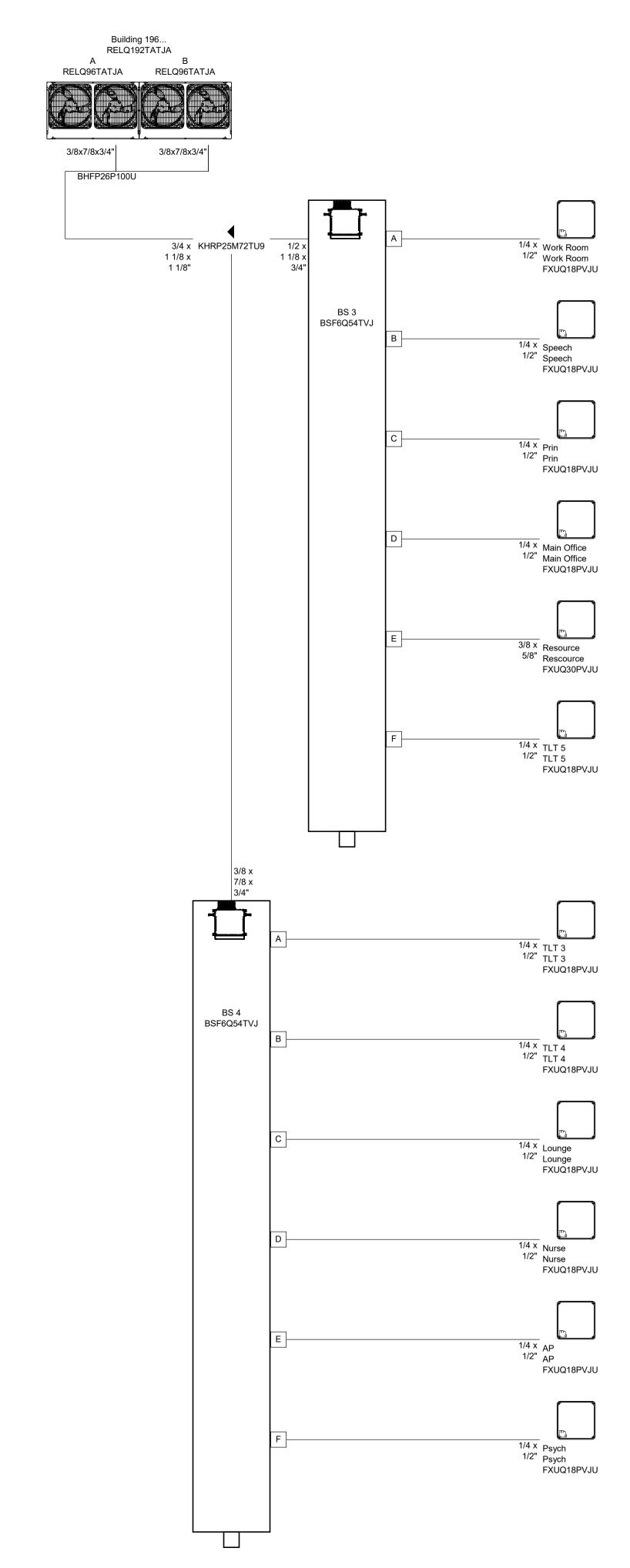
M502



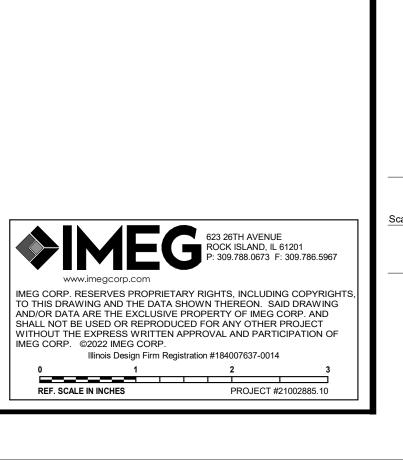
SIZES FOR REFRIGERANT PIPING AND BRANCH SELECTORS NEED TO BE COORDINATED WITH UNIT MANUFACTURER.

1 BUILDING 1968 PIPING -VRF-1











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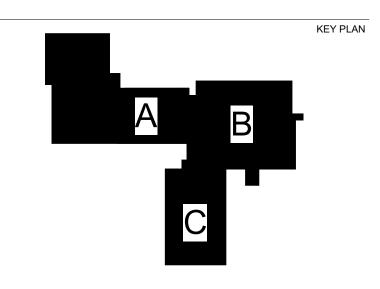
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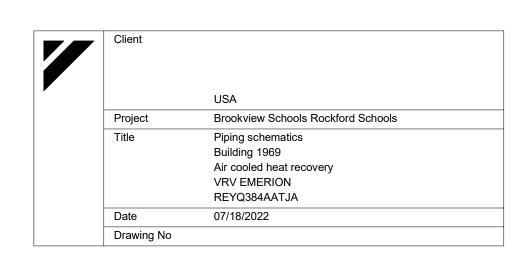
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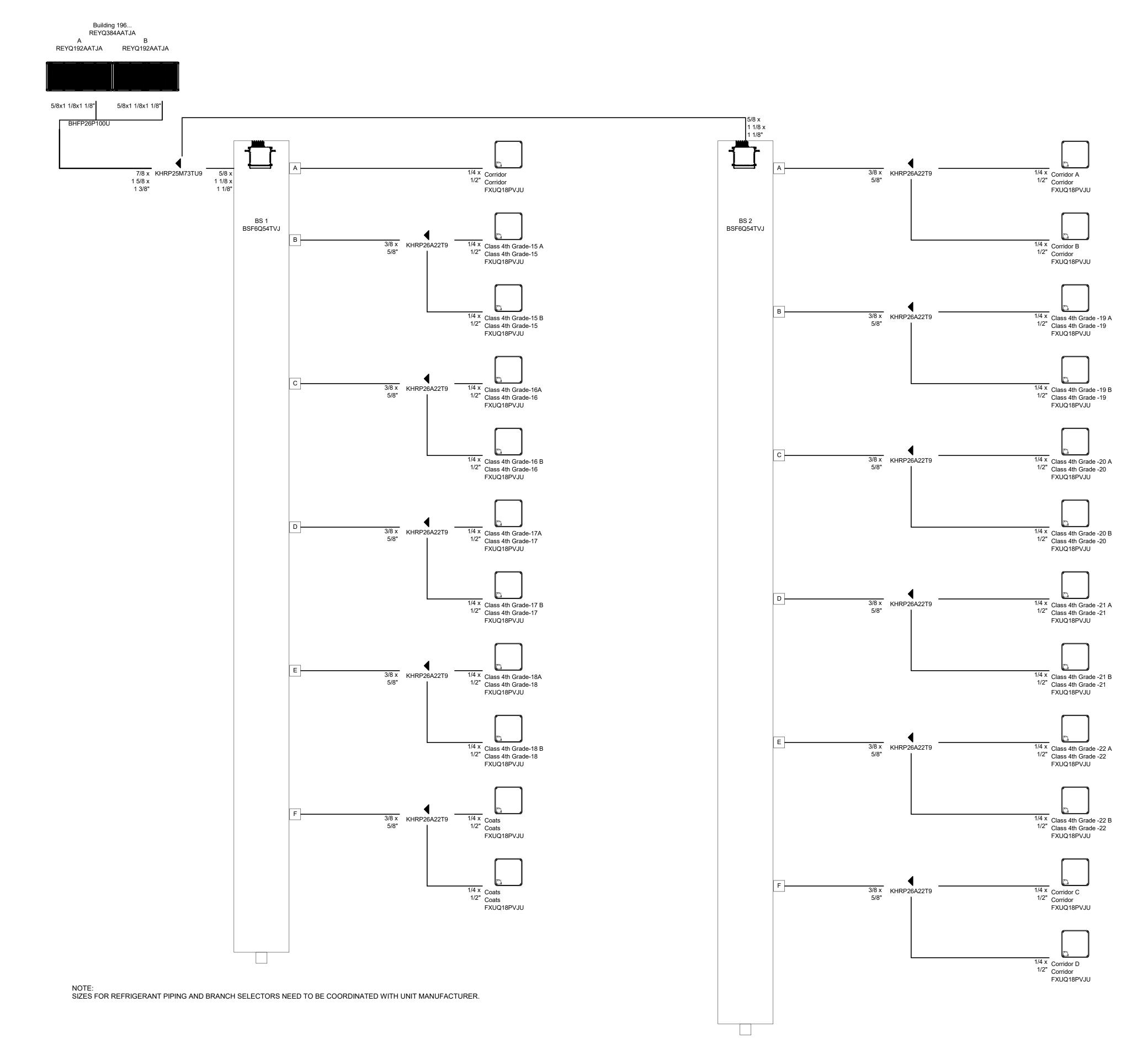
SHEET INFORMATION **Construction Documents** November 03, 2022 21002885.10 **EFRGON** QEUMAZ BRAPIE

> SHEET TITLE **MECHANICAL DIAGRAMS**

SCALE 1/8" = 1'-0"

M503





1 BUILDING 1969 PIPING -VRF-1
NO SCALE

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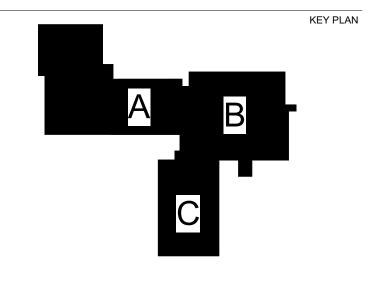
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No. Date Revision / Issue

SHEET INFORMATION

THE CONSTRUCTION DOCUMENTS

THE CONSTRU

MECHANICAL DIAGRAMS

Scale:

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M504

1/8" = 1'-0"

SHEET NUMBER

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0 1 2 3

REF. SCALE IN INCHES PROJECT #21002885.10

1. UNIT SHALL BE COMPLETE WITH POWERED RETRUN/EXHAUST FAN, MODULATIING WITH BUILDING PRESSURE CONTROL,
INVERTER SCROLL COMPRESSOR WITH MODULATING CONTROL, AND ALUMINUM MICROCHANNEL CONDENSER COILS. FURNISHED WITH RECIRCULATING DAMPER.
2. COMPLETE WITH MANUFACTURER FURNISHED AND INSTALLED BACNET/MSTP COMMUNICATION CARD, UNIT POWERED 115V GFI OUTLET.

3. MANUFACTURER FURNISHED AND CONTRACTOR INSTALLED CO2 SENSOR, AND NON-FUSED DISCONNECT SWITCH AND STARTER FOR FIELD CONNECTION.

4. MANUFACTURER FURNISHED AND CONTRACTOR INSTALLED 24 IN. HIGH INSULATED ROOF CURB, WITH ERW, SIZE 016-028.

5. COMPLETE WITH HOT GAS REHEAT MHRGH WITH CONTRACTOR INSTALLED COMBINATION SPACE AND HUMIDITY SENSOR.

D. COMPLETE WITH HOT GAS REHEAT MIRIGH WITH CONTRACTOR INSTALLED COMBINATION SPACE AND HUMIDITY SENSOR.	
S. COMPLETE WITH FACTORY-FURNISHED NON-FUSED DISCONNECT AND INDIVIDUAL MOTOR STARTERS/VFD'S FOR THE SUPPL	Y FAN AND COMPRESSOR.

					SUPPLY	FAN			ı	EXHAUST	ΓFAN			GAS HE	ATING		НОТ	GAS REHEA	T COIL			DX COO	LING COI	L				<b>ENERGY</b>	RECOVERY				FILTER			ELE	CTRICAL		С	ONDENSIN	G UNIT SE	CTION	M	AX. DIMEI	NSIONS, IN	l.		
TA	AG NAME BLDG. AREA	AREA SERVED	EER/SEER NO. OF FANS	CFM TOTAL	EXTERNAL S.P., IN. WG TOTAL STATIC PRESSURE, IN. WG	ТҮРЕ	BHP EACH	NO. OF FANS	CFM TOTAL	TYPE	EXTERNAL SP, IN. WG	BHP EACH	EAT °F DB	LAT DB TOTAL MBH	GAS HEATER SIZE	A.P.D. IN. W.C.	LAT, DB LAT, WB	CAPACITY MBH	APD IN. W.C.	REHEAT FACE AREA, SQ. FT. TOTAL CAPACITY, BTUH		SENSIBLE CAPACITY, BIUH	EAT °F WB	LAT °F WB	A.P.D. IN. W.C.	SUMMER MIXED AIR DB	COOLING RECOVERED CAPACITY	WINTER MIXED AR DB	HEATING RECOVERED CAPACITY	TOTAL COOLING  SENSIBLE COOLING	TOTAL HEATING	SENSIBLE HEATING	TYPE	VELOCITY	AIR PRESSURE DROP	VOLTAGE	MCA	MROPD	COMPRESSOR QUANTITY COMPRESSOR POWER, KVA	COMPRESSOR 1 AMPS	COMPRESSOR 2 AMPS	FAN MOTOR QUANTITY	FAN MOTOR TOTAL FLA	LENGTH	HEIGHT	OPERATING WEIGHT, LBS.	MANUFACTURE	R MODEL
	1B BLDG 1968	FIRST FLOOR	12.1 1	3290	1.00 3.1	SWSI AF 2	2.56 8	1	2400 SV	WSI AF	1.0 1	4.0	39.4 1	06.6 240000	300	0.17	70.0 61.7	50989.00	0.04	14.6 1258	869 88,	673 82.3	69.1 57	.7 57.3	0.20 82	2.3 5	8,726	9.4 °F	117,220	0.72 0.77	7 0.79	0.79	COMBO RACK - 2" MERV8 fi from factory & blank 4" rac	. 1828	0.07	208 3	62.3	70.0	2 8.2	20 10 A	17.5 A	2	4 A	111 96	.5 56.8	2688	DAIKIN	DPS010A
	1C BLDG 196	FIRST FLOOR	12.1 1	3000	1.00 3	SWSI AF 2	2.19 4	1	2200 SV	WSI AF	1.0	0.92 4.0	44.9 1	18.6 240000	300	0.14	70.0 61.8	40852.00	0.05	13.2 9569	91 77,	143 81.0	67.4 57	.4 57.3	0.14 8	31 4	2,556 4	4.9 °F	76,837	0.91 0.88	0.92	0.89	COMBO RACK - 2" MERV8 fi from factory & blank 4" rac	Iters k 166.7	0.05	208 3	49.0	60.0	2 5.5	56 11.9 A	8.6 A	2	4 A	111 96	.5 56.8	2460	DAIKIN	DPS007A
	2A BLDG 196	SECOND FLOOR	11.2 1	3800	1.00 3.1	SWSI AF 2	2.93 8	1	2400 SV	WSI AF	1.0 1	1.06 4.0	32.6 1	10.3 320000	400	0.12	70.0 62.1	49858.00	0.06	14.6 1569	915 108	,038 83.9	70.3 57	.9 57.9	0.24 83	3.9 6	0,180	2.6 °F	120,147	0.74 0.79	0.81	0.81	COMBO RACK - 2" MERV8 fi from factory & blank 4" rac		0.09 2	208 3	67.3	80.0	2 9.6	61 15 A	17.5 A	2	4 A	111 96	.5 56.8	2688	DAIKIN	DPS012A

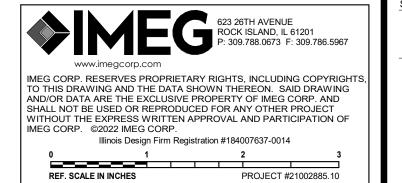
VRF INDOOR UNI	T SCHEDULE
----------------	------------

1.INDOOR UNITS SELECTED FOR SPACE PEAK LOADS.
2.PROVIDE 30% FILTERS FOR EACH UNIT. FILTER MAY BE INTEGRAL OR SUITABLE FOR FIELD INSTALLATION IN FABRICATED FILTER ANGLES. FILTER ANGLES PROVIDED BY M.C..
3.UNIT SHALL BE PROVIDED WITH CONDENSATE PUMP.
4.REFER TO SPECIFICATION 23 81 45 FOR DESCRIPTION OF CONTROLS.
5.INDOOR UNIT CFM SELECTED AT HIGH CFM. INDOOR UNIT SHALL HAVE CAPABILITY TO ADJUST CFM FOR FINAL AIR BALANCING UP OR DOWN THROUGH FIELD ADJUSTMENT.
6.DUCTED CONCEALED UNITS SHALL BE PROVIDED WITH SUPPLY AND RETURN DUCT FLANGES.

UV-WR 795 R410A 17032 20678 208 1 0.60 15 A 55.9 8.7 23.6 36.4 Daikin

		REFRIGERAN T	3TUH	HUF		ELECT	TRICAL		1	MAX. DIMENSION	S	WEIGHT			
			CITYE	CITY B											
			CAPA	CAPA								ទ្ធ			
	_	ш	OLING	TING	TAGE	SES		<u>6</u>	Ę	Ę	GHT	RATIN			
TAG NAME UV-1	1095	R410A	34047	41458	<b>9</b> 208	- <b>РН</b> А	<b>∑</b> <b>1.40</b>	<b>∑</b> 15 A	37.4	37.4	<u> </u>	<b>5</b> 7.3	MANUFACTURER Daikin	MODEL FXZQ36TAVJU	NOTES
UV-1A UV-2	795	R410A R410A R410A	17032 34047	20678	208	1	0.60	15 A	55.9	8.7	23.6	36.4 57.3	Daikin	FXZQ36TAVJU FXZQ36TAVJU	
UV-2 CORR A UV-2 CORR C	1095 795	R410A R410A R410A	17032	41458 20678 20678	208	1	1.40 0.60	15 A 15 A	37.4 55.9	37.4 8.7	7.8	36.4 36.4	Daikin Daikin	FXZQ38TAVJU FXZQ18TAVJU FXZQ18TAVJU	
UV-3	795 1095	R410A	17032 34047	41458	208	1	0.60 1.40	15 A 15 A	55.9 37.4	8.7 37.4	23.6 7.8	57.3	Daikin Daikin	FXZQ36TAVJU	
UV-4 UV-5	1095 1095	R410A R410A R410A	34047 34047	41458 41458	208	1	1.40	15 A 15 A	37.4 37.4	37.4 37.4	7.8 7.8	57.3 57.3	Daikin Daikin Daikin	FXZQ36TAVJU FXZQ36TAVJU	
UV-5A UV-5B UV-6	795 795 1095	R410A R410A R410A	17032 17032 34047	20678 20678 41458	208 208 208	1	0.60 0.60 1.40	15 A 15 A 15 A	55.9 55.9 37.4	8.7 8.7 37.4	23.6 23.6 7.8	36.4 36.4 57.3	Daikin Daikin	FXUQ18PVJU FXUQ18PVJU FXZQ36TAVJU	
UV-6A UV-6B	795 795	R410A R410A R410A	17032 17032	20678 20678	208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6	36.4 36.4	Daikin  Daikin	FXUQ18PVJU FXUQ18PVJU	
UV-7 UV-7A	1095 795	R410A R410A R410A	34047 17032	41458 20678	208	1	1.40 0.60	15 A 15 A	37.4 55.9	37.4 8.7	23.6 7.8 23.6	57.3 36.4	Daikin Daikin Daikin	FXZQ36TAVJU FXUQ18PVJU	
UV-7B UV-8	795 795 1095	R410A R410A R410A	17032 17032 34047	20678 20678 41458	208 208 208	1	0.60 0.60 1.40	15 A 15 A	55.9 57.4	8.7 37.4	23.6	36.4 36.4 57.3	Daikin Daikin Daikin	FXUQ18PVJU FXZQ36TAVJU	
UV-8A UV-8B	795 795	R410A R410A R410A	17032 17032	20678 20678	208	1	0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6	36.4 36.4	Daikin Daikin Daikin	FXUQ18PVJU FXUQ18PVJU	
UV-8C	795	R410A R410A R410A	17032	20678	208	1	0.60	15 A	55.9	8.7	23.6	36.4	Daikin	FXUQ18PVJU FXUQ18PVJU	
UV-9A UV-9B UV-9C	795 795 795	R410A R410A R410A	17032 17032	20678 20678	208 208 208	1	0.60 0.60 0.60	15 A 15 A 15 A	55.9 55.9	8.7 8.7 8.7	23.6 23.6 23.6	36.4 36.4 36.4	Daikin Daikin Daikin	FXUQ18PVJU FXUQ18PVJU	
UV-10A UV-10B	795 795 795	R410A R410A R410A	17032 17032 17032	20678 20678 20678	208 208 208	1	0.60 0.60	15 A 15 A 15 A	55.9 55.9 55.9	8.7 8.7 8.7	23.6 23.6 23.6	36.4 36.4 36.4	Daikin Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-11A UV-11B	795 795 795	R410A R410A R410A	17032 17032 17032	20678 20678 20678	208 208 208	1	0.60 0.60	15 A 15 A 15 A	55.9 55.9 55.9	8.7 8.7 8.7	23.6 23.6	36.4 36.4 36.4	Daikin Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU FXZQ18TAVJU	
UV-12A UV-12B	795 795	R410A R410A	17032 17032 17032	20678 20678	208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6	36.4 36.4	Daikin Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-13A UV-13B	795 795 795	R410A R410A R410A	17032 17032 17032	20678 20678 20678	208 208 208	1	0.60 0.60	15 A 15 A	22.6 22.6	22.6 22.6	10.2	36.4 36.4	Daikin  Daikin	FXZQ15TAVJU FXZQ15TAVJU	
UV-13C UV-14A	795 795 795	R410A R410A R410A	17032 17032 17032	20678 20678 20678	208 208 208	1	0.60 0.60	15 A 15 A	22.6 22.6	22.6 22.6 22.6	10.2	36.4 36.4	Daikin Daikin	FXZQ15TAVJU FXZQ15TAVJU FXZQ15TAVJU	
UV-14B UV-14C	795 795	R410A R410A R410A	17032 17032 17032	20678 20678 20678	208 208 208	1	0.60 0.60	15 A 15 A	22.6 22.6	22.6 22.6	10.2	36.4 36.4	Daikin  Daikin	FXZQ15TAVJU FXZQ15TAVJU	
UV-15A UV-15B	795 795 795	R410A R410A R410A	17032 17032 17032	20678 20678 20678	208 208 208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6	36.4 36.4	Daikin  Daikin	FXZQ18TAVJU FXZQ18TAVJU FXZQ18TAVJU	
UV-16A UV-16B	795 795	R410A R410A	17032 17032 17032	20678 20678	208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6	36.4 36.4	Daikin Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-17A UV-17B	795 795	R410A R410A	17032 17032 17032	20678 20678	208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6	36.4 36.4	Daikin Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-18A UV-18B	795 795	R410A R410A	17032 17032 17032	20678 20678	208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-19A UV-19B	795 795	R410A R410A	17032 17032	20678 20678	208	1	0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-20A UV-20B	795 795	R410A R410A	17032 17032	20678 20678	208 208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-21A UV-21B	795 795	R410A R410A	17032 17032	20678 20678	208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-22A UV-22B	795 795	R410A R410A	17032 17032	20678 20678	208 208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-23 UV-AP	1095 795	R410A R410A	28353 17032	35282 20678	208	1	1.40	15 A 15 A	37.4 55.9	37.4 8.7	7.8 23.6	57.3 36.4	Daikin Daikin	FXZQ30TAVJU FXZQ18TAVJU	
UV-BOYS UV-COAT A	795 795	R410A R410A	17032 17032	20678 20678	208 208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-COAT B UV-CORR	795 795	R410A R410A	17032 17032	20678 20678	208 208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-CORR UV-CORR	795 795	R410A R410A	17032 17032	20678 20678	208 208	1	0.60 0.60	15 A 15 A	55.9 37.4	8.7 37.4	23.6 7.8	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ24TAVJU	
UV-CORR UV-CORR A	795 795	R410A R410A	17032 17032	20678 20678	208 208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-CORR B UV-GIRLS	795 795	R410A R410A	17032 17032	20678 20678	208 208	1	0.60 0.60	15 A 15 A	55.9 37.4	8.7 37.4	23.6 7.8	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ24TAVJU	
UV-LOUNGE UV-MO	795 795	R410A R410A	17032 17032	20678 20678	208 208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-NURSE UV-PRIN	795 795	R410A R410A	17032 17032	20678 20678	208 208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-PSY UV-RES	795 795	R410A R410A	17032 22727	20678 27980	208 208	1	0.60 0.60	15 A 15 A	55.9 37.4	8.7 37.4	23.6 7.8	36.4 57.3	Daikin Daikin	FXZQ18TAVJU FXZQ24TAVJU	
UV-RES A UV-RES B	1095 1095	R410A R410A	34047 34047	41458 41458	208 208	1	1.40 1.40	15 A 15 A	37.4 37.4	37.4 37.4	7.8 7.8	57.3 57.3	Daikin Daikin	FXZQ36TAVJU FXZQ36TAVJU	
UV-RES C UV-RES D	1095 1095	R410A R410A	34047 34047	41458 41458	208 208	1	1.40	15 A 15 A	37.4 37.4	37.4 37.4	7.8 7.8	57.3 57.3	Daikin Daikin	FXZQ36TAVJU FXZQ36TAVJU	
UV-RES E UV-RES F	490 490	R410A R410A	17039 17039	21000 21000	208 208	1 1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	79.4 79.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-RES G UV-RES I	795 795	R410A R410A	17032 17032	20678 20678	208 208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-RES J UV-SOUTH CORR	795 795	R410A R410A	17032 17032	20678 20678	208 208	1 1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	
UV-SPEECH UV-STAIR 1A	795 490	R410A R410A	17032 17039	20678 21000	208 208	1 1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	36.4 79.4	Daikin Daikin	FXZQ18TAVJU FXLQ18MVJU9	
UV-STAIR 1B UV-STAIR 3	490 795	R410A R410A	17039 17032	21000 20678	208 208	1	0.60 0.60	15 A 15 A	55.9 22.6	8.7 22.6	23.6 10.2	79.4 36.4	Daikin Daikin	FXLQ18MVJU9 FXZQ15TAVJU	
UV-STOR 1A UV-STOR 1B	490 490	R410A R410A	17039 17039	21000 21000	208 208	1	0.60 0.60	15 A 15 A	55.9 55.9	8.7 8.7	23.6 23.6	79.4 79.4	Daikin Daikin	FXLQ18MVJU9 FXLQ18MVJU9	
UV-STOR 2A UV-TLT A	795 795	R410A R410A	17032 17032	20678 20678	208 208	1	0.60 0.60	15 A 15 A	22.6 55.9	22.6 8.7	10.2 23.6	36.4 36.4	Daikin Daikin	FXZQ07PVJU FXZQ18TAVJU	
UV-TLT B UV-WR	795 795	R410A R410A	17032 17032	20678 20678	208	1	0.60	15 A 15 A	55.9 55.9	8.7	23.6	36.4 36.4	Daikin Daikin	FXZQ18TAVJU FXZQ18TAVJU	

FXZQ18TAVJU





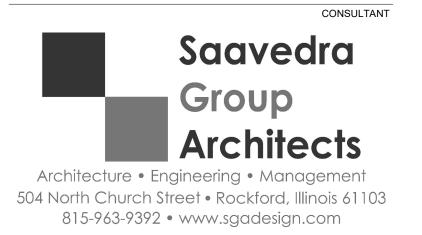


ESSER HVAC Improvements -Brookview Elementary School

1750 Madron Rd, Rockford, IL 61107

Rockford Public School District #205

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KEY PLAN

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SHEET INFORMATION **Construction Documents** November 03, 2022 21002885.10

> **MECHANICAL SCHEDULES**

SCALE

SHEET NUMBER

NOTES:
1.UNITS SHALL BE SELECTED FOR DESIGN COOLING LOAD.
2.COORDINATE ELECTRICAL CONNECTIONS WITH MANUFACTURER UNIT IS SUPPLIED AS MULTIPLE MODULES. EACH MODULE REQUIRES A SEPARATE ELECTRICAL CONNECTION AND DISCONNECT.
3.NOMINAL COOLING CAPACITY RATED AT: INDOOR TEMP = 80°FDB/67°FWB, OUTDOOR TEMP = 95°FDB.
4.DESIGN COOLING CAPACITY SHALL BE RATED AT: INDOOR TEMP = 74°FDB/61.7°FWB, OUTDOOR TEMP = 95°FDB. EFFECTS OF ESTIMATED REFRIGERANT LINE LENGTH SHALL BE INCLUDED IN COMPUTING DESIGN CAPACITY.
5.DESIGN HEATING CAPACITY SHALL BE RATED AT: INDOOR TEMP = 70°FDB, OUTDOOR TEMP = -15°FDB. EFFECTS OF ESTIMATED REFRIGERANT LINE LENGTHS AND DEFROSTING SHALL BE INCLUDED IN COMPUTING DESIGN CAPACITY.
6.REFER TO SPECIFICATION SECTION 15671 [23 62 13] FOR ADDITIONAL REQUIREMENTS.

					COOLING		HEA	TING	2			ELEC	TRICAL		N	MAX. DIMENSION	NS	WEI	GHT			
		GERANT	REFRIGERANT CHARGE	AL MBH (NOTE 3)	N MBH (NOTE 4)	ATING RANGE °FDB	N MBH (NOTE 5)	ATING RANGE °FDB	ER OF CONNECTED INDOOR UNIT	ECTION RATIO %	GE	e e e e e e e e e e e e e e e e e e e		ULE 1		JULIAN DINIENGIO	<b>⊢</b>		SIING			
TAG NAME	AREA SERVED	REFRIG	MAX. F	NOM	DESIG	OPER/	DESIG	OPER	NUMBI	CONNI	VOLTA	PHASE	МСА	MOCP	LENGT	WIDTH	НЕІСН	DRY	OPER/	MANUFACTURER	MODEL	NOTES
RELQ96TATJA	BUILDING 1965	R410A	51.59	8	187	91.0	149	-15	13	125	208	3	77	80	30.2	48.9	66.7	0	794	DAIKIN	RELQ96TATJA	
RELQ96TATJA	BUILDING 1965	R410A	51.59	8	0	91.0	0	-15	0	0	208	3	77	80	30.2	48.9	66.7	0	794	DAIKIN	RELQ96TATJA	
RELQ96TATJA	BUILDING 1965	R410A	51.59	8	170	91.0	152	-15	15	96.7	208	3	77	80	30.2	48.9	66.7	0	794	DAIKIN	RELQ96TATJA	
RELQ96TATJA	BUILDING 1965	R410A	51.59	8	0	91.0	0	-15	0	0	208	3	77	80	30.2	48.9	66.7	0	794	DAIKIN	RELQ96TATJA	
RELQ96TATJA	BUILDING 1965	R410A	51.59	8	170	91.0	158	-15	10	75	208	3	77	80	30.2	48.9	66.7	0	794	DAIKIN	RELQ96TATJA	
RELQ96TATJA	BUILDING 1965	R410A	51.59	8	0	91.0	0	-15	0	0	208	3	77	80	30.2	48.9	66.7	0	794	DAIKIN	RELQ96TATJA	
RELQ120TATJA	BUILDING 1968	R410A	51.59	8	249	91.0	194	-15	17	130	208	3	83	90	30.2	48.9	66.7	0	794	DAIKIN	RELQ120TATJA	
RELQ120TATJA	BUILDING 1968	R410A	51.59	8	0	91.0	0	-15	0	0	208	3	83	90	30.2	48.9	66.7	0	794	DAIKIN	RELQ120TATJA	
RELQ120TATJA	BUILDING 1968	R410A	51.59	8	235	91.0	190	-15	17	117.5	208	3	83	90	30.2	48.9	66.7	0	794	DAIKIN	RELQ120TATJA	
RELQ120TATJA	BUILDING 1968	R410A	51.59	0	0	91.0	0	-15	0	0	208	3	83	90	30.2	48.9	66.7	0	794	DAIKIN	RELQ120TATJA	
REYQ192AATJA	BUILDING 1969	R410A	51.59	0	350	91.0	204	-15	20	107.8	208	3	60	60	30.1	68.9	65.4	0	957	DAIKIN	REYQ192AATJA	
REYQ192AATJA	BUILDING 1969	R410A	51.59	0	0	91.0	0	-15	0	0	208	3	60	60	30.1	68.9	65.4	0	957	DAIKIN	REYQ192AATJA	

#### **BRANCH SELECTOR SCHEDULE**

TAG NAME	MFR	MODEL	VOLTAGE	MOP	MCA	WEIGHT (LBS)	DEPTH	WIDTH	HEIGHT
BS-1A-2	Daikin	BS8Q54TVJ	208 V	15 A	0.8 A	73	1'-6 15/16"	1'-10 13/16"	11 3/4"
BS-1B-1	Daikin	BS8Q54TVJ	208 V	15 A	0.8 A	73	1'-6 15/16"	1'-10 13/16"	11 3/4"
BS-1B-4	Daikin	BS4Q54TVJ	208 V	15 A	0.4 A	73	1'-6 15/16"	1'-10 13/16"	11 3/4"
BS-1B-2	Daikin	BS8Q54TVJ	208 V	15 A	0.8 A	73	1'-6 15/16"	1'-10 13/16"	11 3/4"
BS-1B-3	Daikin	BS8Q54TVJ	208 V	15 A	0.8 A	73	1'-6 15/16"	1'-10 13/16"	11 3/4"
BS-1C-1	Daikin	BS6Q54TVJ	208 V	15 A	0.6 A	73	1'-6 15/16"	1'-10 13/16"	11 3/4"
BS-1C-2	Daikin	BS6Q54TVJ	208 V	15 A	0.6 A	73	1'-6 15/16"	1'-10 13/16"	11 3/4"
BS-2A-1	Daikin	BS6Q54TVJ	208 V	15 A	0.6 A	73	1'-6 15/16"	1'-10 13/16"	11 3/4"
BS-2A-2	Daikin	BS6Q54TVJ	208 V	15 A	0.6 A	73	1'-6 15/16"	1'-10 13/16"	11 3/4"

#### **EXHAUST FAN SCHEDULE**

1.PROVIDE	SHAFT GROUNDIN	NG AS REQ	UIRED IN TI	HE MOTOR SE	PECIFICATION	ON[15170] [22	2 05 13] [23 05 13].									
			S.P. IN.	FAN RPM	DRIVE	MAX. AMCA			ELEC1	RICAL					CATALOG	
TAG NAME	AREA SERVED	CFM	W.C.	(NOTE F)	TYPE	SONES	ENCLOSURE	MHP	VOLTAGE	PHASES	Hz	WEIGHT	MANUFACTURER	MODEL	NUMBER	NOTES
EF-1	1ST FLOOR - A	2950	0.25	901	DIRECT	11.1	ODP - SE	0.75	115	1	60	100	Loren Cook Company	ACED	180C10D	
EF-2	1ST FLOOR - B	450	0.25	1094	DIRECT	4.8	OPEN - EC	0.125	115	1	60	32	Loren Cook Company	ACED VF	101C17D (VF)	
EF-4	1ST FLOOR - B	450	0.25	1094	DIRECT	4.8	OPEN - EC	0.125	115	1	60	32	Loren Cook Company	ACED VF	101C17D (VF)	
EF-5	1ST FLOOR - B	450	0.25	1094	DIRECT	4.8	OPEN - EC	0.125	115	1	60	32	Loren Cook Company	ACED VF	101C17D (VF)	
EF-8	1ST FLOOR - C	275	0.25	1084	DIRECT	4	ODP - SE	0.125	115	1	60	31	Loren Cook Company	ACED	90C15DH	
EF-9	1ST FLOOR - B	400	0.30	1550	DIRECT	8.1	TEAO	0.125	115	1	60	55	Loren Cook Company	SQ-95		

## WALL MOUNTED FAN COIL UNIT SCHEDULE

NOTES:			SERVED BY VRF			VING BUILDING	1965.													
						INDOOR UNIT						OUTDO	OR UNIT			ELE	CTRICAL			
	AREA				M	IAX. DIMENSION	NS				N	MAX. DIMENSION	IS							
TAG NAME	SERVED	CFM	COOLING BTU	HEATING BTU	DEPTH	WIDTH	HEIGHT	WEIGHT	MODEL	SEER	HEIGHT	DEPTH	WIDTH	WEIGHT	MODEL	VOLTAGE	PHASE	MCA	MANUFACTURER	NOTES
AC-1	GIRLS REST	557	12000	13600	10-13/16	36-1/4	11-3/4	29		25.2	1'-11 7/16"	11 13/16"	2'-9 1/4"	96	RXM12VVJU	208	1	12.3		
	ROOM																			
AC-2	BOYS REST	557	12000	13600	10-13/16	36-1/4	11-3/4	29		25.2	1'-11 7/16"	11 13/16"	2'-9 1/4"	96	RXM12VVJU	208	1	12.3		

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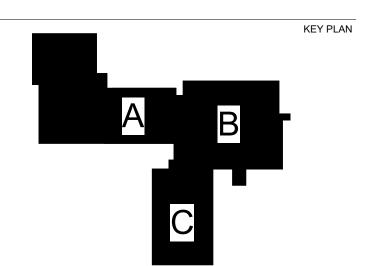
ESSER HVAC Improvements -Brookview Elementary School

1750 Madron Rd, Rockford, IL 61107

Rockford Public School District #205

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**Construction Documents** November 03, 2022 21002885.10 **EFRGON** 

> **MECHANICAL** SCHEDULES

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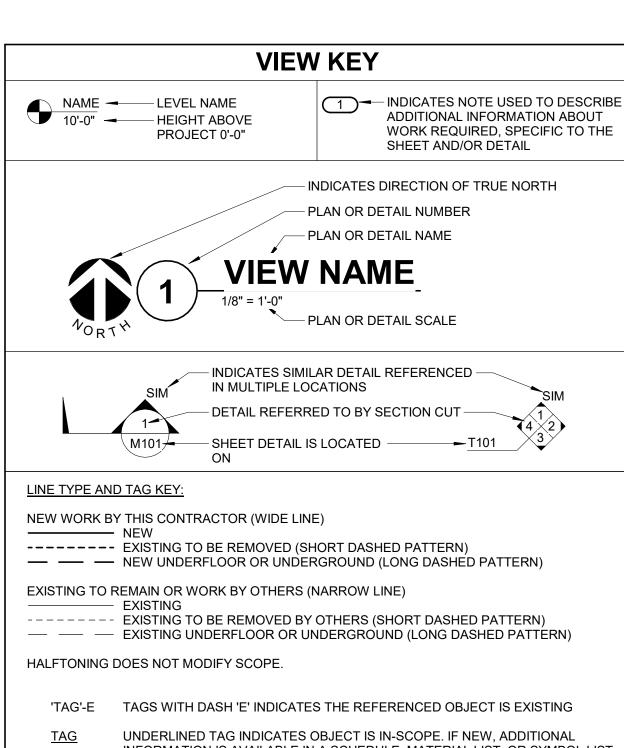
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REF. SCALE IN INCHES PROJECT #21002885.10

SHEET NUMBER

M601

SCALE



,		
	•	INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL
	<u>TAG</u>	UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIS
	'TAG'-E	TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

#### FIRE / SMOKE BARRIER DESIGNATIONS THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT. ALL [FLOOR, FLOOR CEILING, AND ROOF CEILING] ASSEMBLIES SHALL BE DESIGNATED AS 1, 2, 1/2, 3/4 HOUR FIRE WALLS, UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 10/25/2022.

1 HOUR FIRE WALL	
2 HOUR FIRE WALL	
1/2 HOUR FIRE WALL	
3/4 HOUR FIRE WALL	

	CONTRACTOR ABBREVIATION KEY
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

CONTACT PERSONS:									
DESCRIPTION:	PERSON:								
PROJECT MANAGER	BRANDON PIERSON								
MECHANICAL	EFRAIN GONZALEZ								
ELECTRICAL	JEREMY VETTING								

CONDUIT

. CONDUIT SHALL BE SUPPORTED WITHIN 24 INCHES ABOVE AND BELOW ROOF.

VERIFY FINAL REQUIREMENTS WITH GENERAL CONTRACTOR (G.C.) AND

ROOFING INSTALLER PRIOR TO INSTALLATION.

	ELEC	TRICAL	SYMBOL LIST
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
IBT	<u>IBT</u>	26 05 26	INTERSYSTEM BONDING TERMINATION
© E	<u>ECONN</u>	26 05 33	ELECTRICAL CONNECTION
<u> </u>	<u>JB</u>	26 05 33	JUNCTION BOX
$\nabla$		EXISTING	TECHNOLOGY OUTLET, WALL
WAP	WAP		WIRELESS ACCESS POINT, CEILING
<u> </u>		EXISTING	SECURITY CAMERA, CEILING
S		EXISTING	PAGING SPEAKER, CEILING
©		EXISTING	CLOCK, CEILING
DEM	<u>DEM</u>	26 09 13	ENERGY METER
	PANEL '###'	26 24 16	PANELBOARD - RECESS MOUNT
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
	MX-#/MS-#	26 24 19	MANUAL SWITCH / STARTER. REFER TO DISC/STA SCHEDULE
$\boxtimes$	TR-#/DTR-#	26 22 00	TRANSFORMER.
□ъ	DS-#/FDS-#	26 28 16	DISCONNECT. REFER TO DISC/STA SCHEDULE

	ELEC	TRICAL	SYMBOL LIST
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
<b>=</b>	REC-DUP	EXISTING	DUPLEX RECEPTACLE, 125V
<b>¥</b> €	REC-DUP-GFI	EXISTING	DUPLEX GFI RECEPTACLE, 125V
w <b>≠</b>	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
₩	REC-QUAD	EXISTING	QUAD RECEPTACLE, 125V
-8	REC-SIM-620R	EXISTING	RECEPTACLE, 6-20R, 250V

SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED

OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS

PVC

PVC ASR

CONCRETE

**ENCASED** 

CONDUIT INSTALLATION SCHEDULE

FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS,

MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS,

FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC.

WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS,

INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)

INTERIOR LOCATIONS: EXISTING WALLS AND EXPOSED

WITHIN 5' FROM THE PERIMETER OF THE BUILDING

(REFER TO DUCTBANK DETAILS WHEN APPLICABLE)

WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PASSING

5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION

REINFORCING SHALL CONSIST OF ONE-HALF INCH DEFORMED BARS

BARS SHALL OVERLAP 40 DIAMETERS AND SHALL EXTEND 5' BEYOND

ENTIRE DUCTBANK SHALL BE INSTALLED ON PRECAST CONCRETE

CONCRETE ENCASEMENT: CONDUIT WITH A MINIMUM OF 3" THICKNESS BETWEEN THE SURFACE OF THE CONCRETE AND THE

NEAREST CONDUIT. CONCRETE TO BE DOWELED INTO THE

SPACED 12 INCHES ON CENTER, PARALLELING THE DUCTS ON

BOTTOM, WITH ONE-HALF INCH DEFORMED TIE BARS SPACED

PROVIDE MINIMUM 3" CONCRETE COVER ON ALL SIDES OF

THROUGH THE PERIMETER OF THE BUILDING FOUNDATION:

WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION

CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)

(INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)

PANELBOARDS, MOTOR CONTROL CENTERS, ETC.

RANCH CIRCUITS: LIGHTING, RECEPTACLES,

**INSTALLATION TYPE** 

CONTROLS, ETC.

AIR HANDLING UNITS, ETC.

FINISHED SPACES / CONCEALED

INTERIOR LOCATIONS: CONCEALED

INTERIOR LOCATIONS: EXPOSED

INSTALLATION (FINISHED SPACES)

(IN OR UNDER SLABS ON GRADE)

**UNDERGROUND SITE CONDUITS:** 

TWELVE INCHES ON CENTERS.

ROADS, DRIVES, TRAVELED WAYS, ETC.

DUCTBANKS

REINFORCING.

-ROOF DECK

TOP OF STEEL JOIST

PAVERS ON 3' CENTERS.

UNDERGROUND / SLABS ON GRADE

	ELEC	TRICAL	SYMBOL LIST
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
S	<u>SW-1P</u>	26 09 33	SWITCH - SINGLE POLE
$s_3$	<u>SW-3W</u>	26 09 33	SWITCH - THREE WAY
S <sub>4</sub>	<u>SW-4W</u>	26 09 33	SWITCH - FOUR WAY
D <sub>D</sub>	SW-D-LED	26 09 33	DIMMER - LED
D <sub>D3</sub> <u>SW-D3-LED</u>		26 09 33	DIMMER - LED - 3-WAY
D <sub>O</sub>	SW-OD	26 09 33	DIMMER - WALL DIMMER OCCUPANCY SENSOR
	SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY
s <sub>o</sub>	SW-OC-P-O	26 09 33	SWITCH - OCCUPANCY SENSOR WALL SWITCH
© <sub>∪</sub>	SW-OC-U	26 09 33	OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE

ELECTRICAL SYMBOL LIST										
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:							
			LINEAR LUMINAIRES							
			TROFFER							
0			DOWNLIGHT LUMINAIRE							
• •	REFER TO LU		INDUSTRIAL LUMINAIRE							
8	SCHED	ULE	SINGLE FACE EXIT SIGN							
			DOUBLE FACE EXIT SIGN							
4			EMERGENCY UNIT							

	ELECTRICAL EQUIPMENT TAGS	
TAG:	DESCRIPTION:	RELATED SPECIFICATION
<u>DP-#</u>	DISTRIBUTION PANEL	EXISTING
<u>MC-#</u>	EXTERIOR MOUNTED METERING CABINET	26 20 00
<u>MX-#</u>	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
<u>SB-#</u>	SWITCHBOARD	26 24 13
SPD-#	SURGE PROTECTION DEVICE	26 43 00

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
С	CONDUIT
CF	CEILING FAN
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
PROJ.	PROJECTOR
SV	SOLENOID VALVE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

	ELEC	CTRICAL	SYMBOL LIST
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	FACP-#	EXISTING	FIRE ALARM CONTROL PANEL
\$\frac{\tau}{\text{S}}\#	<u>FA-120</u>	EXISTING	FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNT
			BLANK - PHOTOELECTRIC
(S)	<u>FA-122</u>	28 31 00	FIRE ALARM DUCT SMOKE DETECTOR
			# = EQUIP OR SYSTEM
<b>* * *</b>	<u>FA-121</u>	28 31 00	GAS DETECTION, CEILING OR WALL MOUNT
"			CO = CARBON MONOXIDE
СМ	<u>FA-161</u>	28 31 00	FIRE ALARM ADDRESSABLE CONTROL MODULE
			BLANK = REFER TO PLANS
FSD	<u>FA-250</u>	28 31 00	FIRE ALARM SMOKE OR FIRE/SMOKE DAMPER CONTROL WITH DETECTOR, AND ADDRESSABLE MODULE, AND REMOTE INDICATOR (WITH TEST SWITCH WHEN APPLICABLE) # = INDICATES EQUIP OR SYSTEM

	<b>ELECTRICAL SHEET INDEX</b>
E000	ELECTRICAL COVERSHEET
E101A	FIRST FLOOR DEMOLITION PLAN - ELECTRICAL - A
E103A	ROOF DEMOLITION PLAN - ELECTRICAL - A
E103B	ROOF DEMOLITION PLAN - ELECTRICAL - B
E103C	ROOF DEMOLITION PLAN - ELECTRICAL - C
E201A	FIRST FLOOR - ELECTRICAL - A
E201B	FIRST FLOOR - ELECTRICAL - B
E201C	FIRST FLOOR - ELECTRICAL - C AND SECOND FLOOR
E203A	ROOF PLAN - ELECTRICAL - A
E203B	ROOF PLAN - ELECTRICAL - B
E203C	ROOF PLAN - ELECTRICAL - C
E500	ELECTRICAL DIAGRAMS
E600	ELECTRICAL SCHEDULES
E601	ELECTRICAL SCHEDULES
E700	ELECTRICAL PANEL SCHEDULES

# **ELECTRICAL GENERAL NOTES:**

**DEVICE KEY:** A = MOUNTING (IF APPLICABLE)

ROOF WARRANTY NOTE:

DEVICE₽ 1 = CIRCUIT NUMBER

> \*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

**ELECTRICAL MOUNTING SUBSCRIPT KEY:** MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH MOUNT AT CEILING

MOUNT ORIENTED HORIZONTALLY MOUNT IN SURFACE RACEWAY

TO MAINTAIN EXISTING FULL ROOF WARRANTY PRIOR TO THE COMMENCEMENT OF ANY ROOF WORK.

CONTRACTOR TO VERIFY WITH EXISTING ROOFING MANUFACTURER THE REQUIREMENTS

#### **ELECTRICAL INSTALLATION NOTES:**

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON

THIS PAGE FOR ADDITIONAL INFORMATION. 2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH

3. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.

4. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.

5. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.

6. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. 7. ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF,

AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR. 8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR

SEALED INTO OPENINGS. 9. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER. PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.

10. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND 11. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING

MOUNTED DEVICES, OTHER THAN SPRINKLERS. 12. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

#### **ELECTRICAL RENOVATION NOTES:**

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED

TO, LIGHTING, POWER, AND SYSTEMS. 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD

SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING. 2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS WITH NEW WORK BEFORE STARTING WORK. 3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR CABLE TRAY, BUSWAY AND CONDUITS

BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING

CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO

4. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK. 5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL

6. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

# **ELECTRICAL PHASING NOTES:**

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.

1. REFER TO [ARCHITECTURAL] DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER

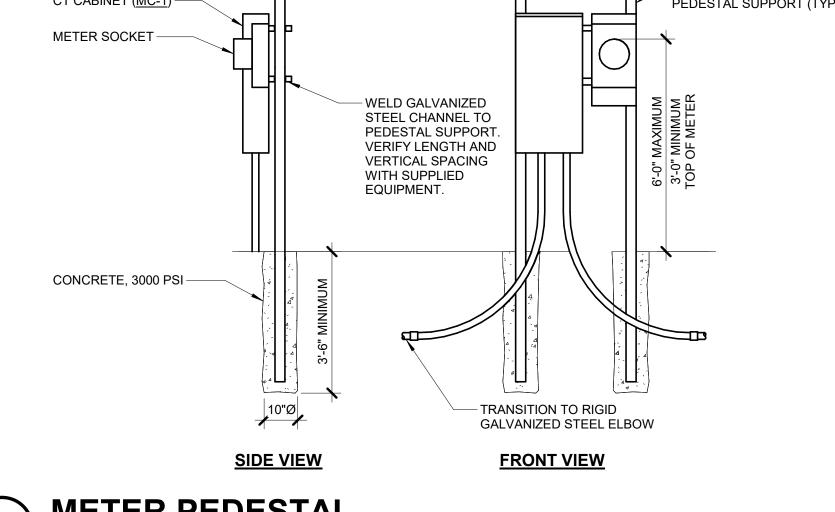
TO [CONSTRUCTION MANAGER'S/GENERAL CONTRACTOR'S/ARCHITECT'S] INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA. 2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.

3. PROVIDE TEMPORARY LIGHTING, POWER, SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT. 4. INSTALL TEMPORARY LIGHTING, CIRCUITS, ETC. AS NECESSARY TO KEEP ALL OCCUPIED

SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT 5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

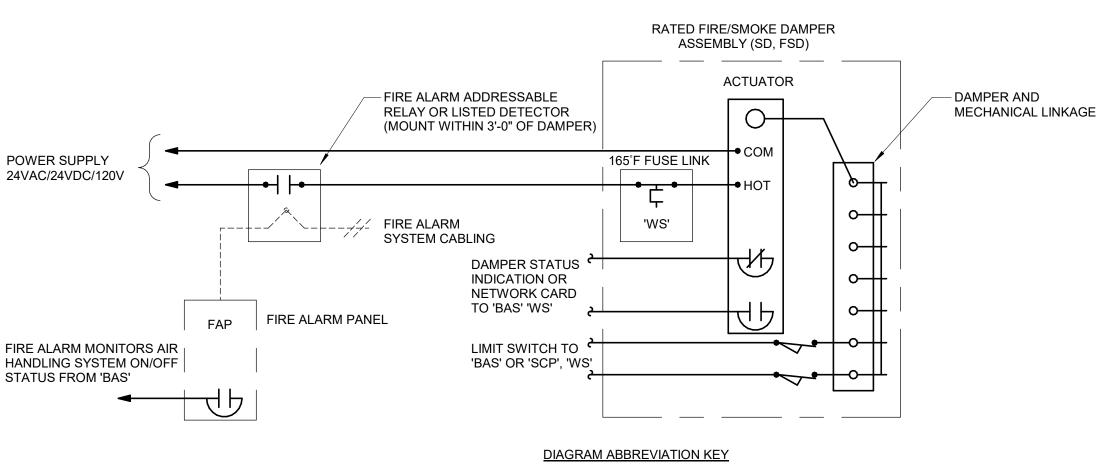


FILL PEDESTAL SUPPORT WITH CONCRETE AND ROUND TOP - 3" RIGID GALVANIZED STEEL CT CABINET (MC-1) -PEDESTAL SUPPORT (TYP) METER SOCKET-- WELD GALVANIZED STEEL CHANNEL TO PEDESTAL SUPPORT. VERIFY LENGTH AND VERTICAL SPACING WITH SUPPLIED EQUIPMENT. CONCRETE, 3000 PSI-TRANSITION TO RIGID GALVANIZED STEEL ELBOW



METER PEDESTAL

NO SCALE



'WS' - WHEN SCHEDULED

'BAS' - BUILDING AUTOMATION SYSTEM 'CFSD' - ENG. CONTROLLED FIRE/SMOKE DAMPER 'FD' - FIRE DAMPER 'FSD' - FIRE/SMOKE DAMPER 'SCP' - SMOKE CONTROL PANEL 'SD' - SMOKE DAMPER

### FIRE/SMOKE DAMPER CONTAINMENT CONTROL DIAGRAM:

1. THE REPRESINTATION IS DIAGRAMATIC, MAY NOT REPRESENT EVERY SYSTEM COMPONENT, CABLE, OR WIRE TERMINATION REQUIRED BASED ON PROJECT SPECIFIC EQUIPMENT. CONTRACTOR TO PROVIDE ALL PROJECT SPECIFIC COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM.

TEMERATURE CONTROL, AND FIRE FIGHTER SCP CONTRACTOR. 3. FIRE ALARM SYSTEM TO 'OPEN/CLOSE' ASSOCIATED DAMPERS WHEN AIR

2. COORDINATE INSTALLATION BETWEEN MECHANICAL, ELECTRICAL FIRE ALARM,

HANDLING SYSTEM STATUS IS 'ON/OFF'.

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KEY PLAN

AGENCY APPROVAL

REVISIONS

**MATSNY** 

**JERVET** 

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Construction Documents 21002885.10 Job Number **JERVET** 

> **ELECTRICAL COVERSHEET**

SCALE

SHEET NUMBER

**E000** 

FIRE/SMOKE DAMPER - CONTAINMENT CONTROL DIAGRAM

**CONDUIT ROOF PENETRATION** 

NOTES:

SEALANT (URETHANE) -

(1) - STAINLESS -

PIPE FLASHING

**ROOF INSULATION -**

STEEL DRAW BAND

PRE-MOLDED RUBBER

KEYNOTES: # ONCE NEW SERVICE IS READY. DISCONNECT EXISTING SWITCHBOARD FROM EXISTING SERVICE AND CONNECT TO NEW SERVICE. COORDINATE REMOVAL OF EXISTING SERVICE WITH UTILITY.



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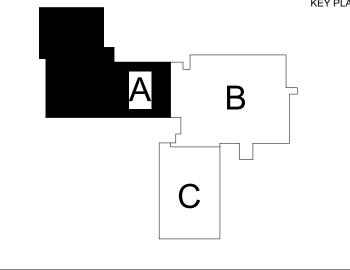
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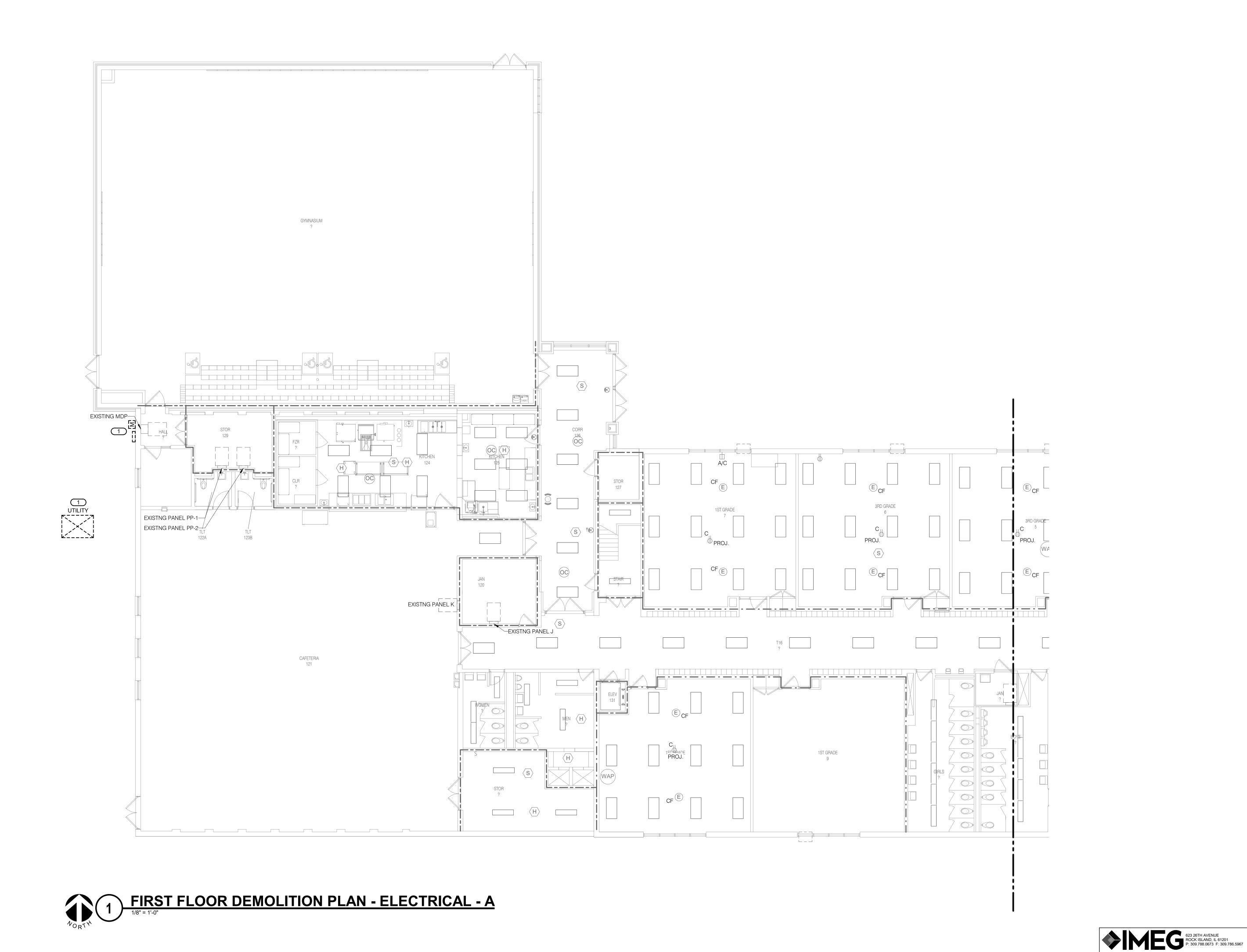
FIRST FLOOR PLAN -**ELECTRICAL** 

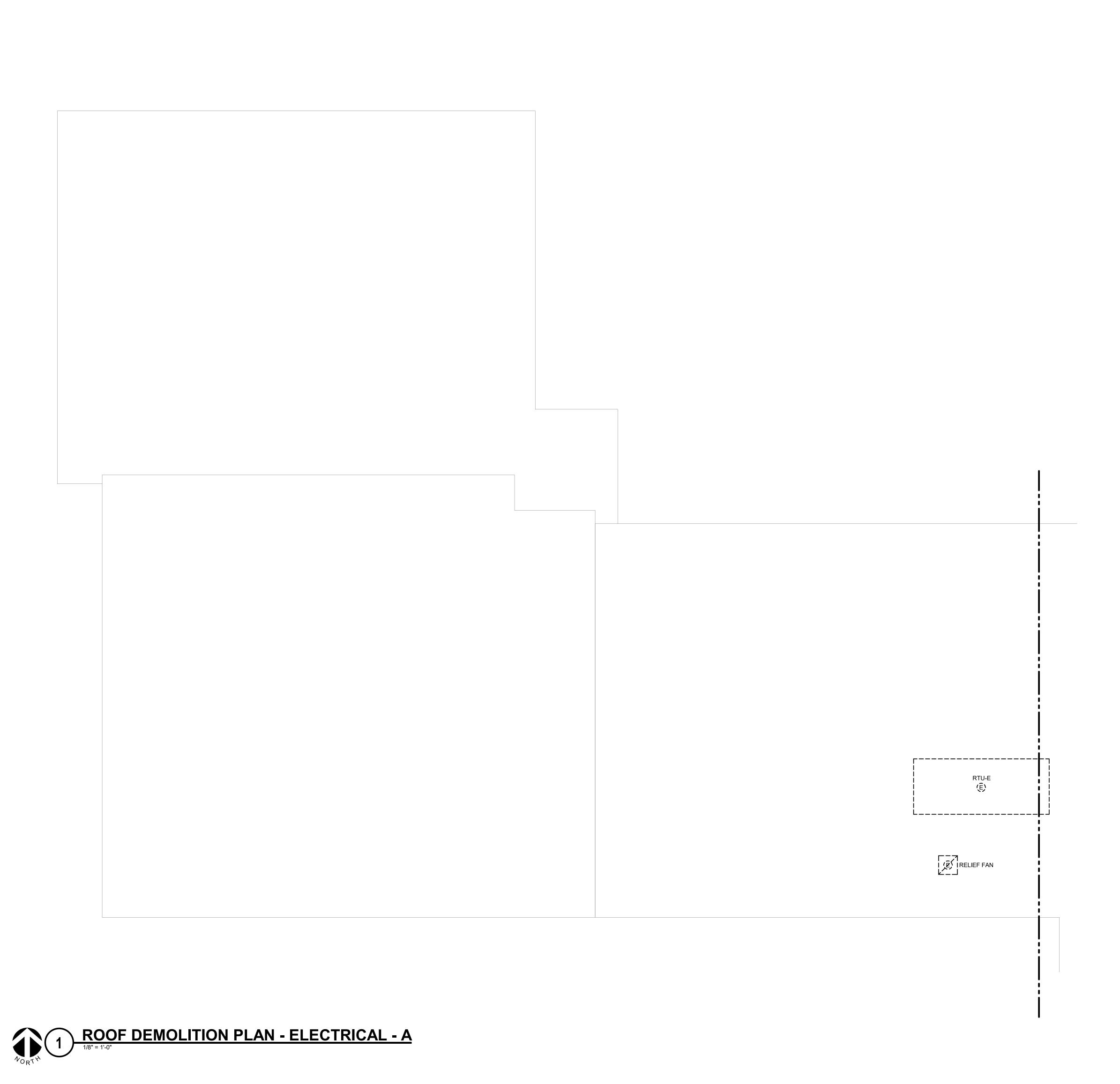
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1/8" = 1'-0"









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1 2

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No. Date Revision / Issue

SHEET INFORMATION
Construction Documents
November 03, 2022
Number 21002885.10
vn JERVET
Cked MATSNY
Toved JERVET

SHEET TITLE
ROOF
DEMOLITION
PLAN ELECTRICAL

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

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REF. SCALE IN INCHES PROJECT #21002885.10

SHEET NUMBER

E103A

KEYNOTES: #

1. DISCONNECT EXISTING EXHAUST FAN TO BE REMOVED. SALVAGE AND MAINTAIN CIRCUIT FEEDING EXISTING EXHAUST FAN FOR CONNECTION TO NEW EXHAUST FAN.

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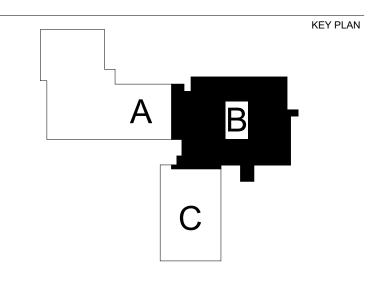
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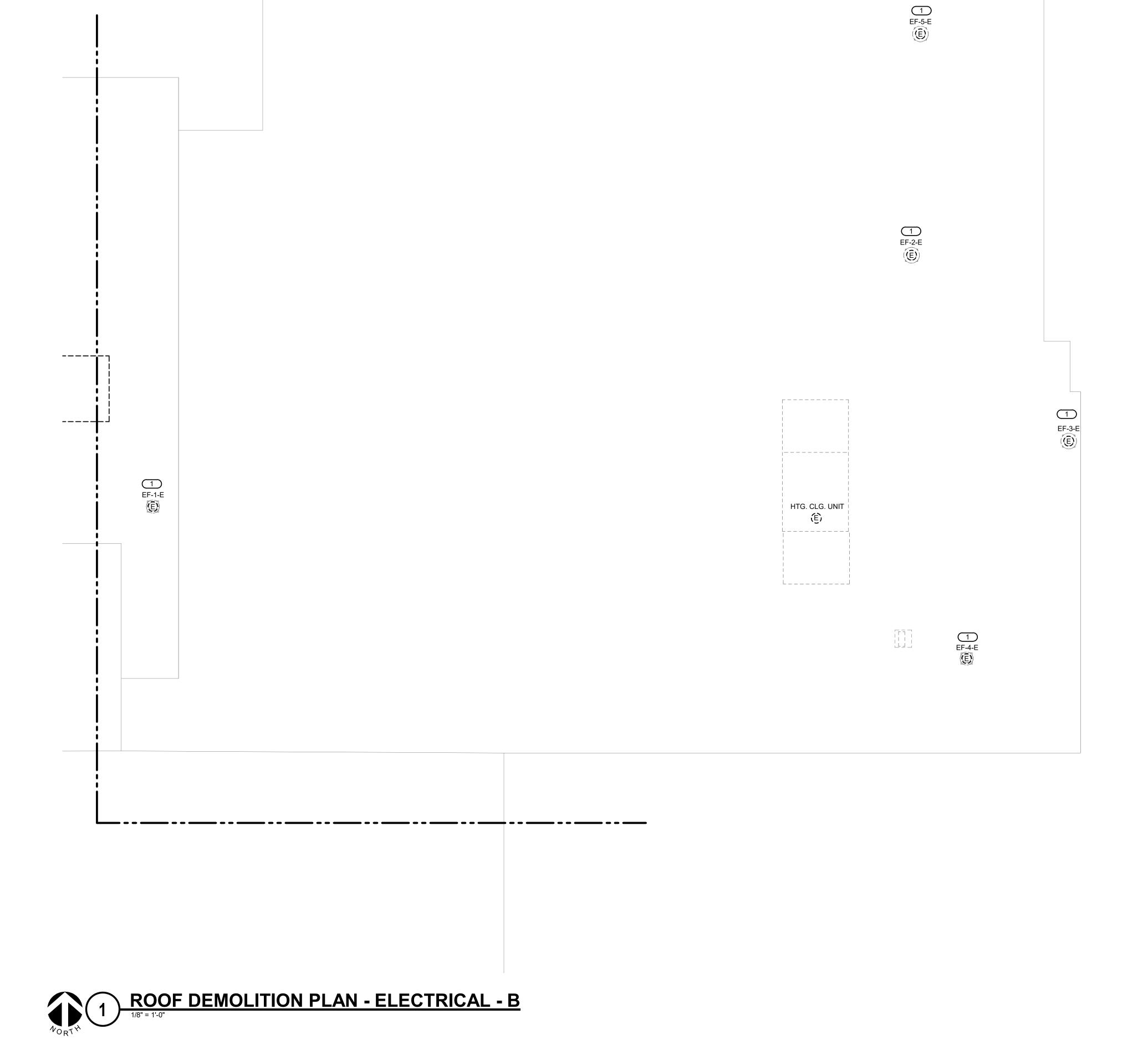
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SHEET TITLE
ROOF
DEMOLITION
PLAN ELECTRICAL
- R

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

E103B

SHEET NUMBER



EF-6-E PRE-8-E

KEYNOTES: #

1. DISCONNECT EXISTING EXHAUST FAN TO BE REMOVED. SALVAGE AND MAINTAIN CIRCUIT FEEDING EXISTING EXHAUST FAN FOR CONNECTION TO NEW EXHAUST FAN.





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REFERENCE SCALE IN INCHES

1 2

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SHEET INFORMATION

Construction Documents

November 03, 2022

umber 21002885.10

SHEET TITLE
ROOF
DEMOLITION
PLAN ELECTRICAL

MATSNY

SCALE

Scale:

1/8" = 1'-0"

Scale:

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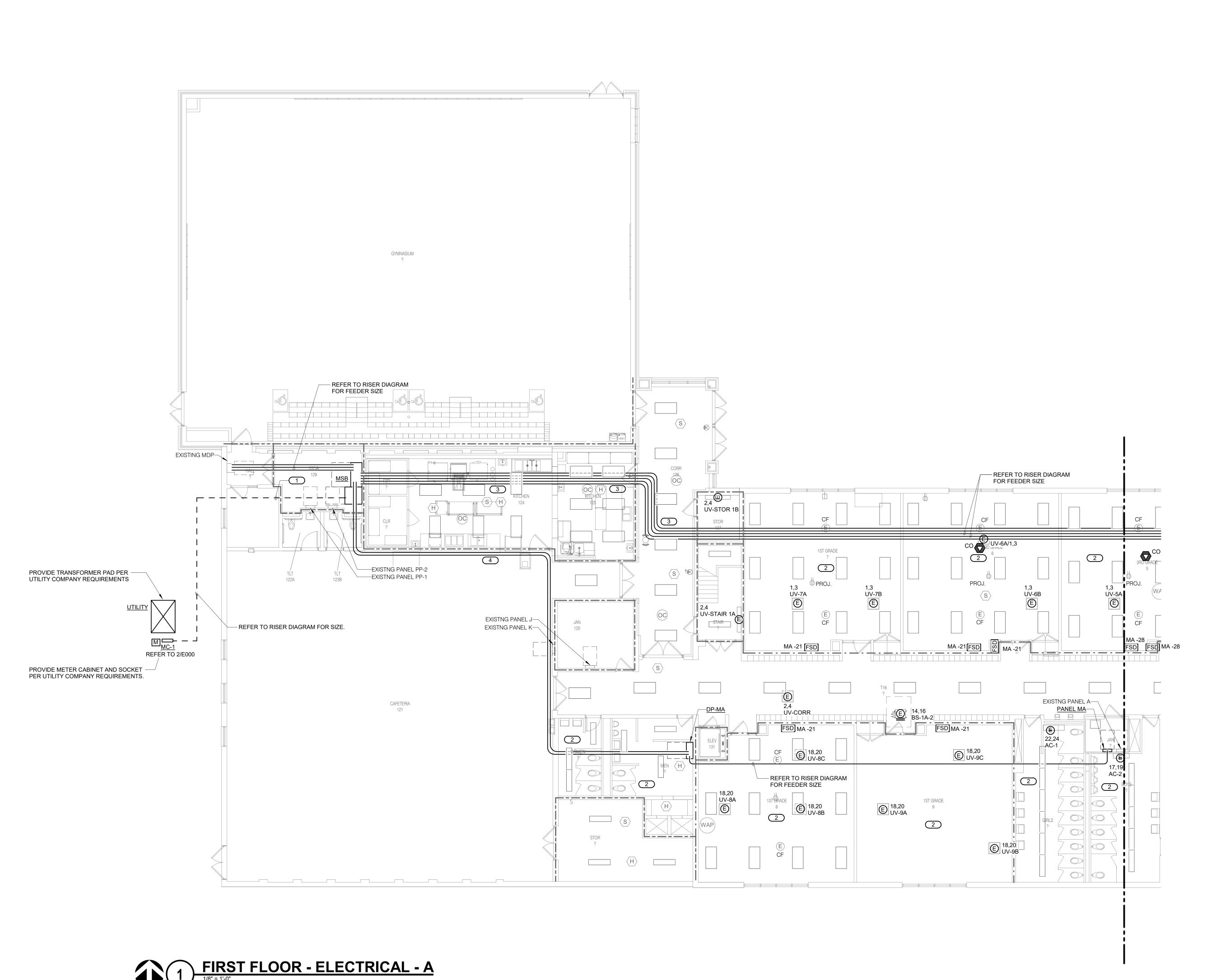
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0 1 2 3

REF. SCALE IN INCHES PROJECT #21002885.10

E103C

ROOF DEMOLITION PLAN - ELECTRICAL - C



SHEET NOTES:

ALL RECEPTACLES AND EQUIPMENT IN AREA A ARE FED FROM PANEL 'MA' UNLESS NOTED OTHERWISE.

KEYNOTES: #

SAWCUT SLAB TO INSTALL CONDUIT TO NEW PANEL 'MSB'. PATCH SLAB ONCE CONDUIT IS INSTALLED. INSTALL CONDUIT ABOVE ACCESSIBLE
CEILING. ROUTE THROUGH SPACES IN JOIST.
REMOVE LIGHTING AND CEILING MOUNTED
EQUIPMENT AS REQUIRED TO INSTALL CONDUIT. REINSTALL LIGHTING AND CEILING MOUNTED EQUIPMENT UPON COMPLETION OF CONDUIT INSTALLATION. INSTALL CONDUIT ABOVE ACCESSIBLE CEILING. REMOVE LIGHTING AND CEILING MOUNTED EQUIPMENT AS REQUIRED TO INSTALL CONDUIT. REINSTALL LIGHTING AND CEILING MOUNTED EQUIPMENT UPON COMPLETION OF CONDUIT INSTALLATION. INSTALL CONDUIT ON GYM WALL TIGHT TO JOISTS.



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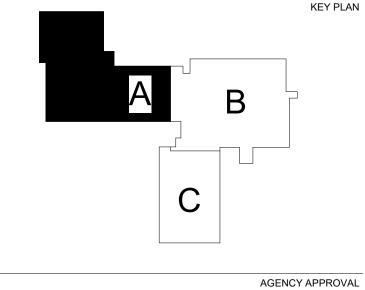
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SHEET INFORMATION **Construction Documents** November 03, 2022 21002885.10 JERVET MATSNY JERVET

> SHEET TITLE FIRST FLOOR **ELECTRICAL**

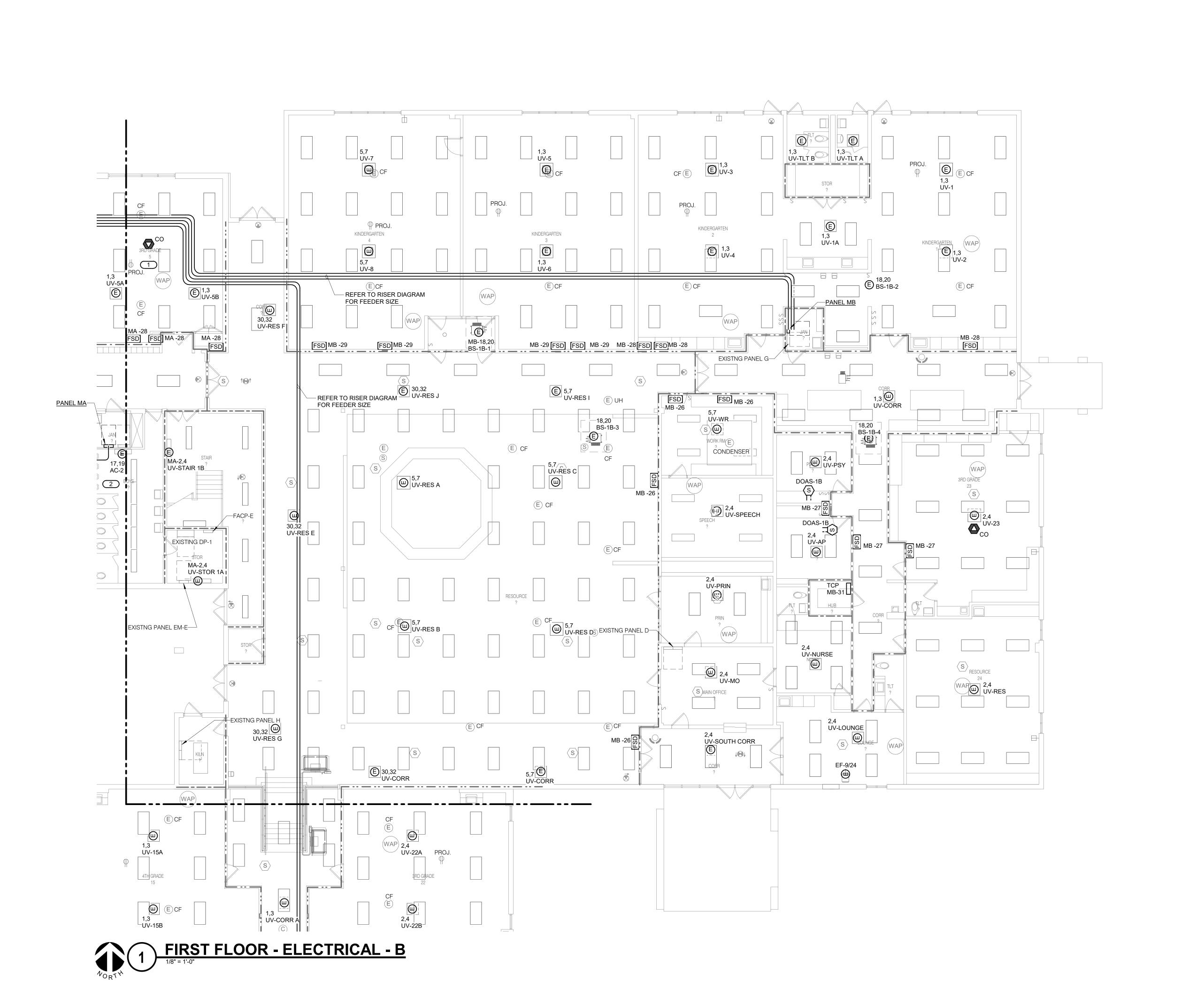
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E201A

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SHEET NOTES:

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 INSTALL CONDUIT ABOVE ACCESSABLE CEILING. REMOVE LIGHTING AND CEILING MOUNTED EQUIPMENT AS REQUIRED TO INSTALL CONDUIT. REINSTALL LIGHTING AND CEILING MOUNTED EQUIPMENT UPON COMPLETION OF CONDUIT INSTALLATION.

KEYNOTES: #

1. INSTALL CONDUIT ABOVE ACCESSABLE
CEILING. ROUTE THROUGH SPACES IN JOIST.



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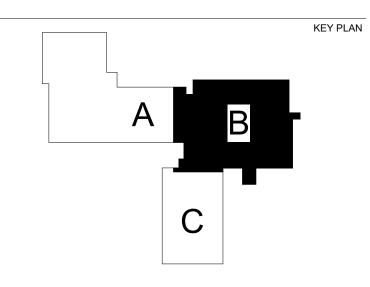
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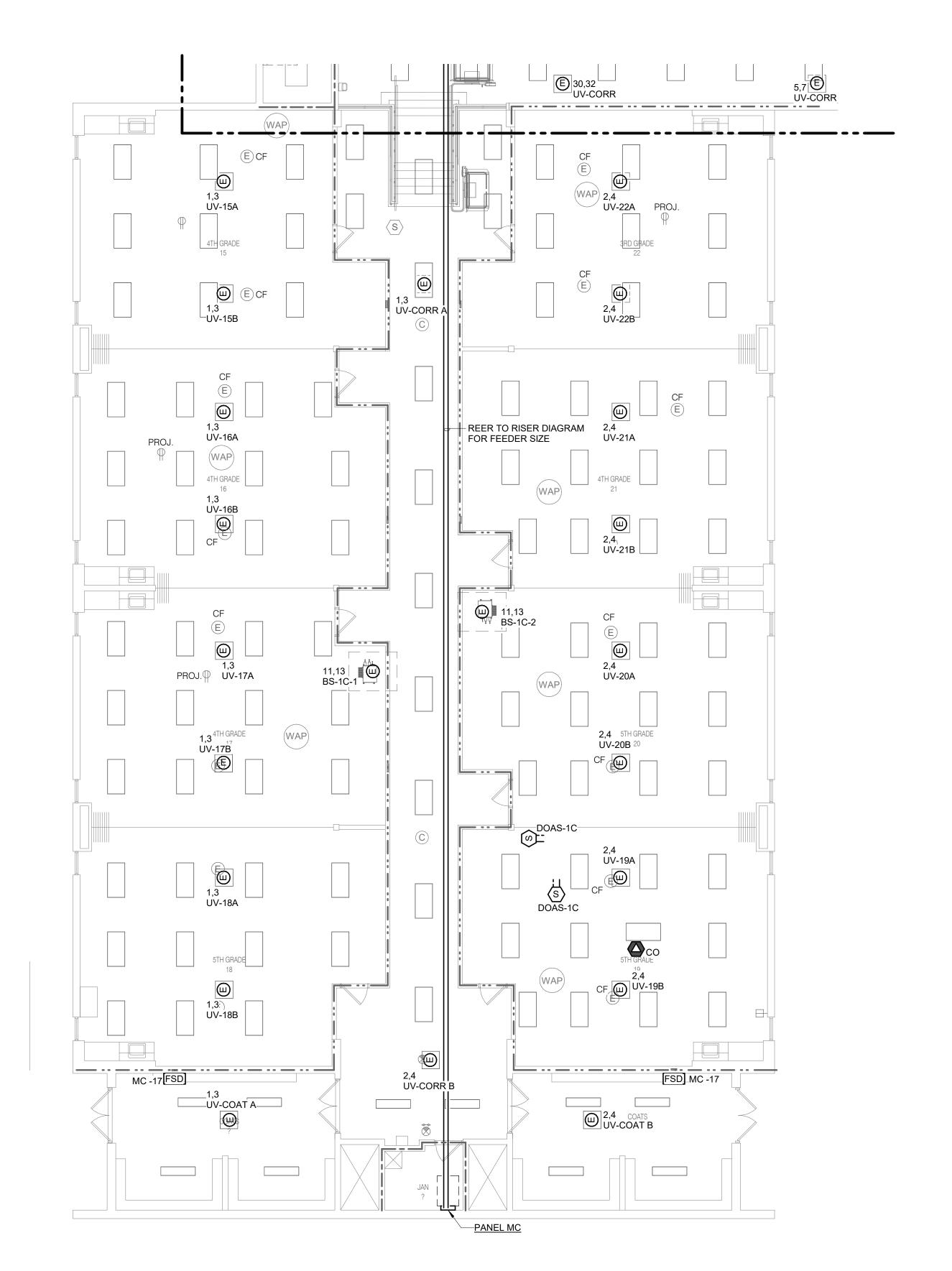
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 ALL RECEPTACLES AND EQUIPMENT IN AREA C ARE FED FROM PANEL 'MC' UNLESS NOTED OTHERWISE.
 INSTALL CONDUIT ABOVE ACCESSABLE CEILING. REMOVE LIGHTING AND CEILING MOUNTED EQUIPMENT AS REQUIRED TO INSTALL CONDUIT. REINSTALL LIGHTING AND CEILING MOUNTED EQUIPMENT UPON COMPLETION OF CONDUIT INSTALLATION.





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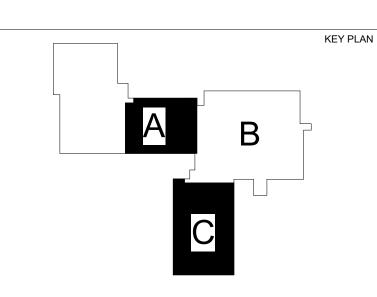
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DP-MA-4 RELQ96TATJA DP-MA-5 RELQ96TATJA DP-MA-6 \_DP-MA-1\_ DP-MA-3 RELQ96TATJA DOAS-2A RELQ96TATJA DP-MA-2 RELQ96TATJA RELQ96TATJA

1 ROOF PLAN - ELECTRICAL - A

SHEET NOTES:

ALL RECEPTACLES AND EQUIPMENT IN AREA A
ARE FED FROM PANEL 'MA' UNLESS NOTED
OTHERWISE.
 REFER TO DETAIL 1/E000 FOR ROOF
PENETRATIONS.

KEYNOTES: #

 CONTROL MODULE FOR UNIT SHUTDOWN. MOUNT CONTROL MODULE WITHIN 3'-0" OF UNIT CONTROLLER.





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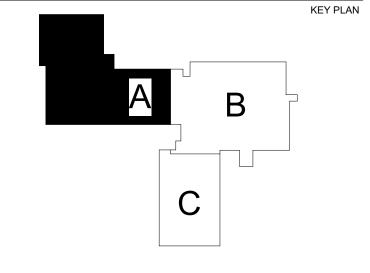
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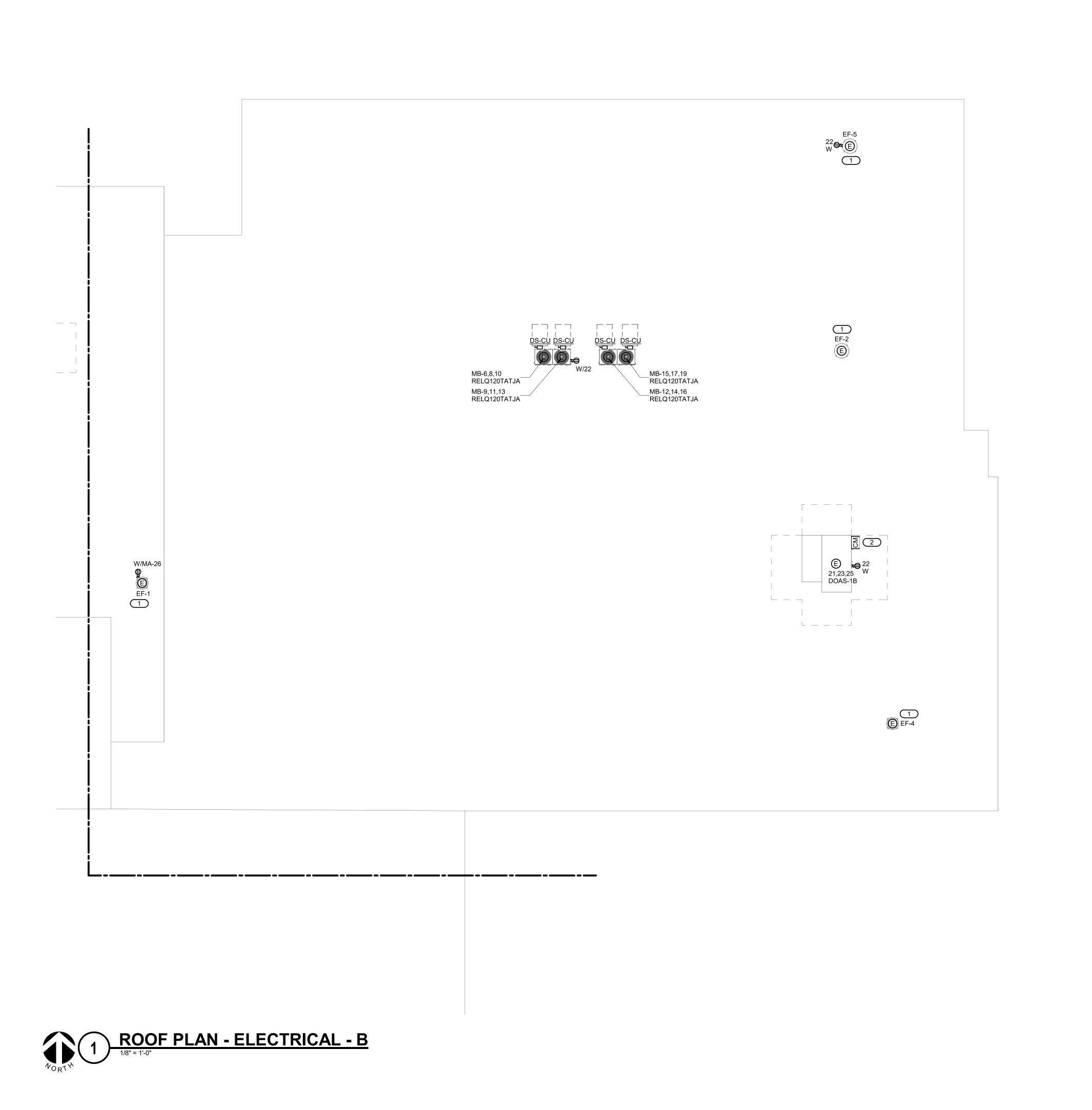
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ALL RECEPTACLES AND EQUIPMENT IN AREA B
 ARE FED FROM PANEL 'MB' UNLESS NOTED
 OTHERWISE.
 REFER TO DETAIL 1/E000 FOR ROOF
 PENETRATIONS.

KEYNOTES: #

UTILIZE EXISTING CIRCUIT SALVAGED FROM DEMOLITION TO FEED NEW EXHAUST FAN. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED.
 CONTROL MODULE FOR UNIT SHUTDOWN. MOUNT CONTROL MODULE WITHIN 3'-0" OF UNIT CONTROLLER.





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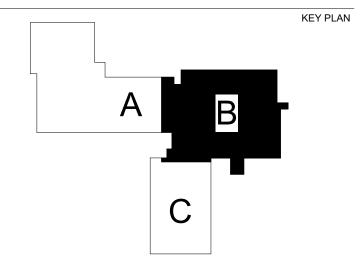
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 REFER TO DETAIL 1/E000 FOR ROOF PENETRATIONS.

KEYNOTES: #

UTILIZE EXISTING CIRCUIT SALVAGED FROM DEMOLITION TO FEED NEW EXHAUST FAN. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED.
 CONTROL MODULE FOR UNIT SHUTDOWN. MOUNT CONTROL MODULE WITHIN 3'-0" OF UNIT CONTROLLER.





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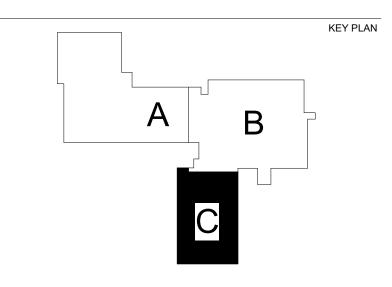
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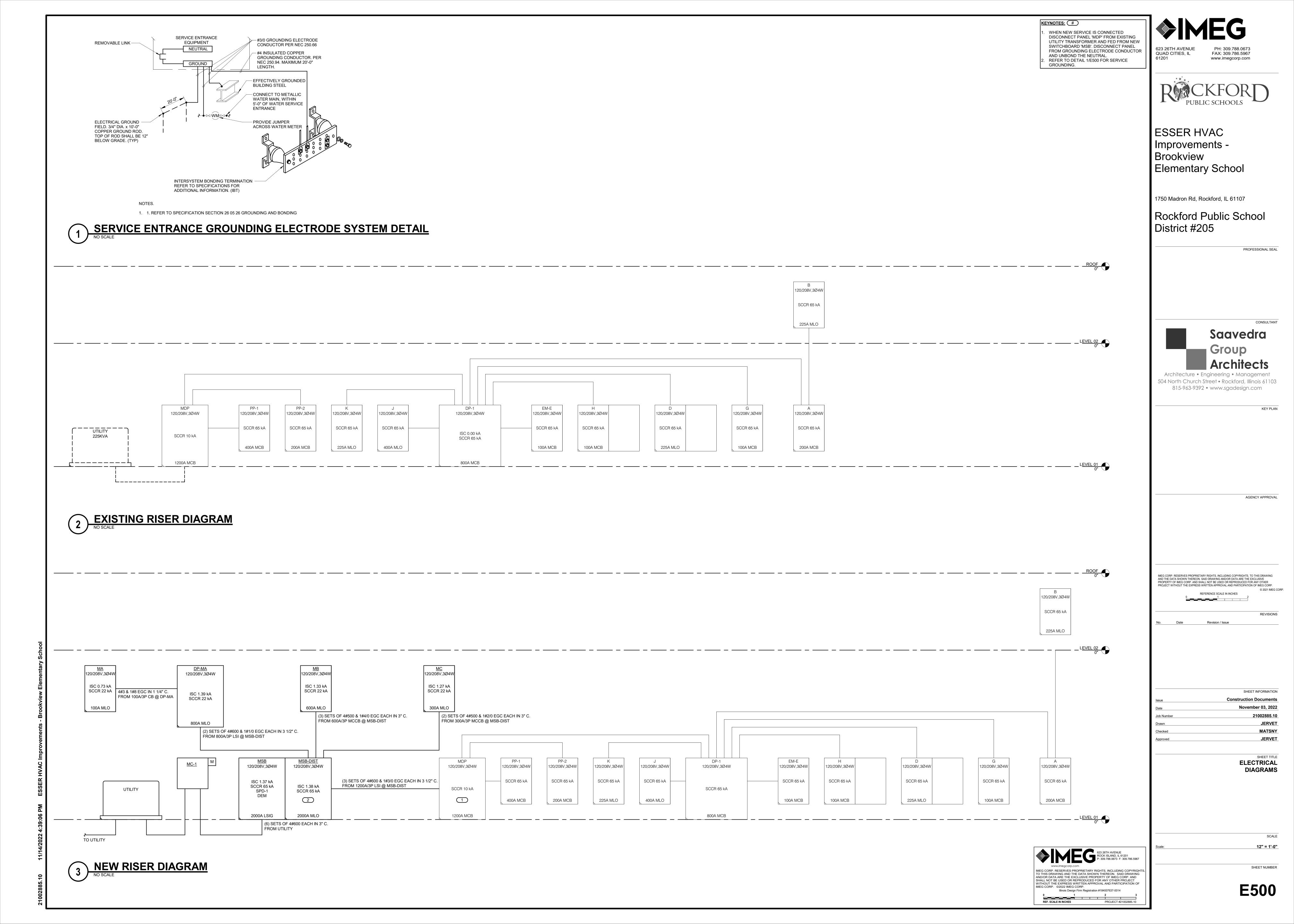
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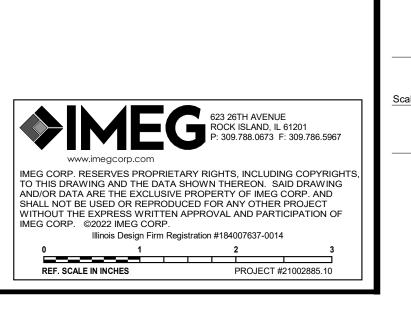
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ROOF PLAN - ELECTRICAL - C





			MOTORS	ELECTRIC								DISCONNECT / STARTER			
	ITEM LOCATION	VOLTAGE LOAD CLASS.	QTY @ HP QTY @ HP QTY @ H	HEATING ELEMENT (KW)	APPARENT LOAD	FLA	MCA	MOCP OCE	D REQ EMER	CIRCUIT NUMBER	WIRE AND RACEWAY	ISC	SCCR BY TYPE		
	EF-1	120 V, 1Ø HVAC	1 @ 0.75 0 - 0 0 - 0	0	1.66 kVA	13.8 A	17.3 A	25 A 0 A		NOMBER	WINE AND NACEWAT	0 A	0 A		FED FROM EXISTING CIRCUIT
	EF-2 EF-4	120 V, 1Ø Power 120 V, 1Ø HVAC	1 @ 0.13 0 - 0 0 - 0 1 @ 0.13 0 - 0 0 - 0	0	0.00 kVA 0.53 kVA	0 A 4.4 A	0 A 5.5 A	0 A 0 A 15 A 0 A				0 A 0 A	0 A 0 A		FED FROM EXISTING CIRCUITED FROM EXISTING CIRCUITED
	EF-5 EF-8	120 V, 1Ø HVAC 120 V, 1Ø HVAC	1     @     0.13     0     -     0     0     -     0       1     @     0.13     0     -     0     0     -     0		0.53 kVA 0.53 kVA	4.4 A 4.4 A	5.5 A 5.5 A	15 A 0 A				0 A 0 A	0 A 0 A		FED FROM EXISTING CIRCUITED FROM EXISTING CIRCUITED
P-MA	DOAS-2A	208 V, 3Ø HVAC	0 - 0 0 - 0 0 - 0	0	20.86 kVA	57.9 A	62.3 A	70 A 70		1	3#4 & 1#8 EGC IN 1" C.	786.9 A	0 A		
	RELQ96TATJA RELQ96TATJA	208 V, 3Ø HVAC 208 V, 3Ø HVAC	0 - 0 0 - 0 0 - 0	0	27.56 kVA 27.56 kVA	0 A 0 A	76.5 A 76.5 A	80 A 80	A No	3	3#3 & 1#8 EGC IN 1" C. 3#3 & 1#8 EGC IN 1" C.	743.7 A 740.3 A	0 A 0 A		
	RELQ96TATJA RELQ96TATJA	208 V, 3Ø HVAC 208 V, 3Ø HVAC	0 - 0 0 - 0 0 - 0	0	27.56 kVA 27.56 kVA	0 A 0 A	76.5 A	80 A 80 80 A 80	A No	7	3#3 & 1#8 EGC IN 1" C. 3#3 & 1#8 EGC IN 1" C.	725.5 A 722.1 A	0 A 0 A		
^	RELQ96TATJA RELQ96TATJA	208 V, 3Ø HVAC 208 V, 3Ø HVAC	0 - 0 0 - 0 0 - 0	0	27.56 kVA 27.56 kVA	0 A 0 A	76.5 A 76.5 A	80 A 80 80 A 80		5	3#3 & 1#8 EGC IN 1" C. 3#3 & 1#8 EGC IN 1" C.	813.7 A 812.5 A	0 A 0 A		
<b>-</b>	AC-1 AC-2	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	2.56 kVA 2.56 kVA	0 A 0 A	12.3 A 12.3 A	20 A 20 20 A 20		22,24 17,19	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	BS-1A-2 BS-2A-1		0 - 0 0 - 0 0 - 0	0	0.17 kVA 0.12 kVA	0 A 0 A	0.8 A 0.6 A	15 A 15 15 A 15	A No	14,16 13,15	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	BS-2A-2 UV-2 CORR A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	13,15	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-2 CORR C UV-5A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	6,8	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-5B UV-6A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15		1,3 1,3	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-6B UV-7A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15		1,3 1,3	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-7B UV-8A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	1,3 18,20	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-8B UV-8C	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	18,20 18,20	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-9A UV-9B	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A	15 A 15 15 A 15	A No	18,20	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-9C UV-10A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	18,20 5,7	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-10B UV-11A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15	A No	5,7 5,7	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-11B UV-12A UV-12B	208 V, 1Ø HVAC 208 V, 1Ø HVAC 208 V, 1Ø HVAC	0         -         0         0         -         0         0         -         0           0         -         0         0         -         0         0         -         0           0         -         0         0         -         0         0         -         0	0	0.12 kVA 0.12 kVA 0.12 kVA	0 A 0 A 0 A	0.6 A 0.6 A 0.6 A	15 A 15 15 A 15 15 A 15	A No	5,7 5,7 5,7	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A 0 A	0 A 0 A 0 A		
	UV-12B UV-13A UV-13B	208 V, 1Ø HVAC 208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15 15 A 15	A No	9,11 9,11	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-13C UV-14A	208 V, 1Ø HVAC 208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	9,11	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-14A UV-14B UV-14C	208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	9,11	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-BOYS UV-CORR	208 V, 1Ø HVAC 208 V, 1Ø Power	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	10,12	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-GIRLS UV-STAIR 1A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	10,12	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-STAIR 1B UV-STAIR 3	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	2,4	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-STOR 1A UV-STOR 1B	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No A No	2,4 2,4	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 0 A	0 A 0 A		
	UV-STOR 2A	208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA	0 A	0.6 A	15 A 15	A No	10,12	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A		
	BS-1B-1 BS-1B-2	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.17 kVA 0.08 kVA	0 A 0 A	0.8 A 0.4 A	15 A 15 15 A 15	A No	18,20 18,20	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	182.6 A 272.8 A	0 A 0 A		
	BS-1B-3 BS-1B-4	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	-	0.17 kVA 0.17 kVA	0 A 0 A	0.8 A 0.8 A	15 A 15 15 A 15	A No	18,20 18,20	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	216.8 A 272.7 A	0 A 0 A		
	DOAS-1B EF-9 REL 0120TAT IA	208 V, 3Ø HVAC 120 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0 1 @ 0.13 0 - 0 0 - 0		16.57 kVA 0.53 kVA				A No	21,23,25 24 6.8.10	3#6 & 1#10 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 3#3 & 1#8 EGC IN 1" C	324.3 A 166.8 A	0 A 0 A		
	RELQ120TATJA RELQ120TATJA RELQ120TATJA	208 V, 3Ø HVAC 208 V, 3Ø HVAC 208 V, 3Ø HVAC	0     -     0     0     -     0     0     -     0       0     -     0     0     -     0     0     -     0       0     -     0     0     -     0     0     -     0	0	30.05 kVA 30.05 kVA 30.05 kVA	0 A 0 A	83.4 A 83.4 A 83.4 A	90 A 90 90 A 90 90 A 90	A No	6,8,10 9,11,13 12,14,16	3#3 & 1#8 EGC IN 1" C. 3#3 & 1#8 EGC IN 1" C. 3#3 & 1#8 EGC IN 1" C.	293.8 A 294.4 A 295.8 A	0 A 0 A 0 A		
	RELQ120TATJA  RELQ120TATJA  UV-1	208 V, 3Ø HVAC 208 V, 3Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	30.05 kVA 30.05 kVA 0.29 kVA	0 A 0 A 0 A	83.4 A 83.4 A 1.4 A	90 A 90 90 A 90 15 A 15	A No	12,14,16 15,17,19 1.3	3#3 & 1#8 EGC IN 1" C. 3#3 & 1#8 EGC IN 1" C. 2#12 & 1#12 EGC IN 3/4" C.	295.8 A 296.3 A 151.7 A	0 A 0 A		
	UV-1A UV-2	208 V, 1Ø HVAC 208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.29 kVA	0 A 0 A	0.6 A 1.4 A	15 A 15 15 A 15	A No	1,3	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	267.9 A 148.3 A	0 A 0 A		
	UV-3 UV-4	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.29 kVA 0.29 kVA	0 A 0 A	1.4 A 1.4 A	15 A 15 15 A 15	A No	1,3 1,3	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	221.8 A 214.7 A	0 A 0 A		
	UV-5 UV-6	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.29 kVA 0.29 kVA	0 A 0 A	1.4 A 1.4 A	15 A 15 15 A 15	A No A No	1,3 1,3	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	191.4 A 208.9 A	0 A 0 A		
	UV-7 UV-8	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.29 kVA 0.29 kVA	0 A 0 A	1.4 A 1.4 A	15 A 15 15 A 15	A No	5,7 5,7	2#10 & 1#10 EGC IN 3/4" C. 2#10 & 1#10 EGC IN 3/4" C.	178.6 A 181.5 A	0 A 0 A		
	UV-23 UV-AP	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.29 kVA 0.12 kVA	0 A 0 A	1.4 A 0.6 A	15 A 15 15 A 15	A No	2,4	2#12 & 1#12 EGC IN 3/4" C.  2#12 & 1#12 EGC IN 3/4" C.	166.6 A 264.4 A	0 A 0 A		
	UV-CORR UV-CORR	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A	15 A 15 15 A 15	A No	1,3 5,7	2#12 & 1#12 EGC IN 3/4" C. 2#10 & 1#10 EGC IN 3/4" C.	134.5 A 226.9 A	0 A 0 A		
	UV-CORR UV-LOUNGE	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15	A No	30,32 2,4	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	0 A 199.7 A	0 A 0 A		
	UV-MO UV-NURSE UV-PRIN	208 V, 1Ø HVAC 208 V, 1Ø HVAC 208 V, 1Ø HVAC	0         -         0         0         -         0         0         -         0           0         -         0         0         -         0         0         -         0           0         -         0         0         -         0         0         -         0	0	0.12 kVA 0.12 kVA 0.12 kVA	0 A 0 A 0 A	0.6 A 0.6 A 0.6 A	15 A 15 15 A 15 15 A 15	A No	2,4 2,4 2.4	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	225.8 A 245.1 A 145 A	0 A 0 A 0 A		
	UV-PRIN UV-PSY UV-RES	208 V, 1Ø HVAC 208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15 15 A 15	A No	2,4 2,4 2.4	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	264.6 A 185 A	0 A 0 A		
	UV-RES A UV-RES B	208 V, 1Ø HVAC 208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.29 kVA 0.29 kVA	0 A 0 A	1.4 A 1.4 A	15 A 15 15 A 15	A No	5,7 5,7	2#12 & 1#12 EGC IN 3/4 ° C. 2#10 & 1#10 EGC IN 3/4 ° C. 2#10 & 1#10 EGC IN 3/4 ° C.	201.5 A 201.6 A	0 A 0 A		
	UV-RES C UV-RES D	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.29 kVA 0.29 kVA	0 A 0 A	1.4 A 1.4 A	15 A 15 15 A 15	A No	5,7 5,7	2#10 & 1#10 EGC IN 3/4" C. 2#10 & 1#10 EGC IN 3/4" C. 2#10 & 1#10 EGC IN 3/4" C.	243.6 A 243.5 A	0 A 0 A		
	UV-RES E UV-RES F	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	30,32	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	190.1 A 195.3 A	0 A 0 A		
	UV-RES G UV-RES I	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No A No	30,32 5,7	2#12 & 1#12 EGC IN 3/4" C. 2#10 & 1#10 EGC IN 3/4" C.	185.6 A 255.3 A	0 A 0 A		
	UV-RES J UV-SOUTH CORR	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.13 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No A No	30,32 2,4	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	215.2 A 224.4 A	0 A 0 A		
	UV-SPEECH UV-TLT A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA	0 A	0.6 A	15 A 15 15 A 15	A No	1,3	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	145 A 262.3 A	0 A 0 A		
	UV-TLT B UV-WR	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0		0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15		1,3 5,7	2#12 & 1#12 EGC IN 3/4" C. 2#10 & 1#10 EGC IN 3/4" C.	243.7 A 278.9 A	0 A 0 A		
	BS-1C-1 BS-1C-2	208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA	0 A	0.6 A	15 A 15		11,13	2#12 & 1#12 EGC IN 3/4" C.	186.1 A 178 A	0 A 0 A		
	DOAS-1C  REYQ192AATJA	208 V, 1Ø HVAC 208 V, 3Ø HVAC 208 V, 3Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 16.57 kVA 21.54 kVA	0 A 46 A 0 A	0.6 A 49 A 59.8 A	15 A 15 60 A 60 60 A 60	A No	11,13 12,14,16 5,7,9	2#12 & 1#12 EGC IN 3/4" C. 3#6 & 1#10 EGC IN 3/4" C. 3#4 & 1#10 EGC IN 1" C.	178 A 268 A 234.1 A	0 A 0 A 0 A		
	REYQ192AATJA UV-15A	208 V, 3Ø HVAC 208 V, 3Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	21.54 kVA 21.54 kVA 0.12 kVA	0 A 0 A	59.8 A 59.8 A 0.6 A	60 A 60 15 A 15	A No	6,8,10 1,3	3#4 & 1#10 EGC IN 1 ° C. 3#4 & 1#10 EGC IN 1" C. 2#12 & 1#12 EGC IN 3/4" C.	234.1 A 234.6 A 172.4 A	0 A 0 A		
	UV-15A UV-15B UV-16A	208 V, 1Ø HVAC 208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	1,3	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	183.2 A 180.6 A	0 A 0 A		
	UV-16B UV-17A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	1,3 1,3	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	192.1 A 190.3 A	0 A 0 A		
	UV-17B UV-18A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	1,3 1,3	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	201.7 A 200.1 A	0 A 0 A		
	UV-18B UV-19A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	1,3	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	212.5 A 196.3 A	0 A 0 A		
	UV-19B UV-20A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	2,4 2,4	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	208.2 A 186.9 A	0 A 0 A		
	UV-20B UV-21A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	2,4	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	197.9 A 177.5 A	0 A 0 A		
	UV-21B UV-22A	208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 15 A 15	A No	2,4	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	188.5 A 169.6 A	0 A 0 A		
	UV-22B UV-COAT A UV-COAT B	208 V, 1Ø HVAC 208 V, 1Ø HVAC 208 V, 1Ø HVAC	0     -     0     0     -     0     0     -     0       0     -     0     0     -     0     0     -     0       0     -     0     0     -     0     0     -     0	0	0.12 kVA 0.12 kVA 0.12 kVA	0 A 0 A 0 A	0.6 A 0.6 A 0.6 A	15 A 15 15 A 15 15 A 15	A No	2,4 1,3 2,4	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	180.1 A 213.1 A 211 A	0 A 0 A 0 A		
	UV-COAT B UV-CORR A UV-CORR B	208 V, 1Ø HVAC 208 V, 1Ø HVAC 208 V, 1Ø HVAC	0 - 0 0 - 0 0 - 0	0 0	0.12 kVA 0.12 kVA	0 A 0 A	0.6 A 0.6 A	15 A 15 A 15		1,3	2#12 & 1#12 EGC IN 3/4" C. 2#12 & 1#12 EGC IN 3/4" C.	211 A 160 A	0 A 0 A		





REPUBLIC SCHOOLS

ESSER HVAC Improvements -Brookview Elementary School

1750 Madron Rd, Rockford, IL 61107

Rockford Public School District #205

PROFESSIONAL SEAL



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AGENCY APPROVAL

REVISIONS

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REFERENCE SCALE IN INCHES

0 1 2

Date Revision / Issue

SHEET INFORMATION

Construction Documents

November 03, 2022

21002885.10

JERVET

MATSNY

ELECTRICAL SCHEDULES

SCALE
Scale:

SHEET NUMBER

**E600** 

<b>ELECTRICAL</b>	DISTRIBUTION	SCHEDULE																
				FEEDER									VOLTAGE D	ROP				
												FEEDERS		BRANCH CIRCUITS				
		MAINS RATING / XFMR			CONNECTED	ESTIMATED DEMAND	CONNECTED	ESTIMATED DEMAND			FEEDER VOLTAGE		FEEDER	MAX BRANCH VOLTAGE	TOTAL VOLTAGE DROP AT MAX			
ITEM	VOLTAGE	RATING	UPSTREAM OCPD OR TERMINATION	WIRE AND RACEWAY	LOAD	LOAD	CURRENT	CURRENT	ESTIMATED ISC	SCCR	DROP	DROP	DROP	DROP	BRANCH	LEVEL	LOCATION	COMMENTS
UTILITY	13200:120/208V, 3Ø4W	500 kVA			404.84 kVA	404.84 kVA	1,123.7 A	1,123.7 A		65 kA						LEVEL 01		
L►MSB	120/208V, 3Ø4W	2,000 A LSIG	2,000 A XFMR LUGS	(6) SETS OF 4#600 EACH IN 3" C.	404.84 kVA	404.84 kVA	1,123.7 A	1,123.7 A	1.37 kA	65 kA	0.75%		0.75%		0.75%	LEVEL 01		
L►MSB-DIST	120/208V, 3Ø4W	2,000 A MLO	2,000 A	(5) SETS OF 4#600 & 1#250 EGC EACH IN 3 1/2" C.	404.84 kVA	404.84 kVA	1,123.7 A	1,123.7 A	1.38 kA	65 kA	0.28%	0.75%	1.03%		1.03%	LEVEL 01		
<b> -</b> ►DP-MA	120/208V, 3Ø4W	800 A MLO	800 A LSI	(2) SETS OF 4#600 & 1#1/0 EGC EACH IN 3 1/2" C.	196.66 kVA	196.66 kVA	545.9 A	545.9 A	1.39 kA	22 kA	1.40%	1.03%	2.43%	1.84%	4.27%	LEVEL 01		
∥ L►MA	120/208V, 3Ø4W	100 A MLO	100 A CB	4#3 & 1#8 EGC IN 1 1/4" C.	10.44 kVA	10.44 kVA	29 A	29 A	0.73 kA	22 kA	1.47%	2.43%	3.90%	1.44%	5.34%	LEVEL 01		
<b>⊩</b> MB	120/208V, 3Ø4W	600 A MLO	600 A MCCB	(3) SETS OF 4#500 & 1#4/0 EGC EACH IN 3" C.	145.41 kVA	145.41 kVA	403.6 A	403.6 A	1.33 kA	22 kA	1.88%	1.03%	2.91%	2.65%	5.56%	LEVEL 01		
Ľ►MC	120/208V. 3Ø4W	300 A MLO	300 A MCCB	(2) SETS OF 4#500 & 1#2/0 EGC EACH IN 3" C.	62.77 kVA	62.77 kVA	174.2 A	174.2 A	1.27 kA	22 kA	1.99%	1.03%	3.02%	1.69%	4.71%	LEVEL 01		

T:		NOTE	ALL DIS	CONNECTS (	EXCEPT I	MANUAL S	STARTERS	S) SHALL E	BE HE	EAVY DUTY TYPE.	
DISCONNECT TYPE:			AC	CESSORIES	& OPTION	IS					
FU - FUSED				- STANDARD			CLUDES '	* ITEMS)	PF -	PHASE LOSS PROTE	CTION (5 HP OR GREATER, 3 PHASE.
NF - NON-FUSED			*C	T - CONTROL	TRANSFO	DRMER, FL	JSED 120	V	TO -	MELTING THERMAL (	OVERLOADS (1 PHASE)
CB - CIRCUIT BREAKER			*E(	O - ELECTRO	NIC OVER	LOAD (3 F	PHASE MO	OTORS)	TS -	2 SPEED SELECTOR	SWITCH IN DOOR
			*H	A - HAND-OFF	-AUTO IN	DOOR		·	GP -	GREEN (OFF) PILOT	LIGHT IN DOOR
STARTER TYPE:			*RI	P - RED (RUN	I) PILOT LI	GHT IN DO	OOR		_	4-CONVERTIBLE AUX	
FV - FULL VOLTAGE			*TA	A - TWO CON	VERTIBLE	AUXILIAR	RY CONTA	CTS	EI - E	ELECTRICAL INTERLO	OCK (2)-N.O. & (2)-N.C.
YD - WYE - DELTA			S/N	N - INSULATE	D NEUTRA	AL ASSEM	BLY		SS -	START-STOP PUSHB	UTTON IN DOOR
RE - REVERSING									HL -	HANDLE PADLOCK H.	ASP
TW - 2 SPEED, 2 WINDING											
SW - 2 SPEED, 1 WINDING											
RV - REDUCED VOLTAGE AUT	OXFMR										
SS - SOLID STATE											
MS - MANUAL STARTER											
MX - MANUAL SWITCH											
FS - FUSED SWITCH											
AMS-ASSEMBLED MOTOR STA	RTER										
	DISC	ONNECT RATING				STAF	RTER			REQUIRED	
			TRIP			NEMA		]		ACCESSORIES &	
ITEM OS-CU			RATING		POLES	SIZE	TYPE	ENCLOSI		OPTIONS	COMMENTS
S-CU S-CU	NF NF	100 A 100 A		480 V 480 V	3			NEMA 3			
S-CU	NF	100 A		480 V	3			NEMA 3			
S-CU	NF	100 A		480 V	3			NEMA 3			
DS-CU	NF	100 A		480 V	3			NEMA 3			
S-CU	NF	100 A		480 V	3			NEMA 3			
S-CU	NF	100 A		480 V	3			NEMA 3	3R		
S-CU	NF	100 A		480 V	3			NEMA 3			
DS-CU	NF	100 A		480 V	3			NEMA 3			
DS-CU	NF	100 A		480 V	3			NEMA 3			
DS-CU DS-CU	NF NF	100 A 100 A		480 V 480 V	3			NEMA 3			





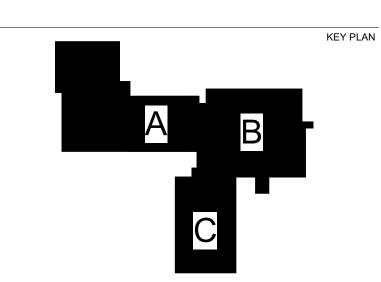
ESSER HVAC Improvements -Brookview Elementary School

1750 Madron Rd, Rockford, IL 61107

Rockford Public School District #205

PROFESSIONAL SEAL





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	SHEET INFORMATION
ssue	<b>Construction Documents</b>
Date	November 03, 2022
ob Number	21002885.10
)rawn	JERVET
Checked	MATSNY
Approved	.IFRVFT

ELECTRICAL SCHEDULES

E601

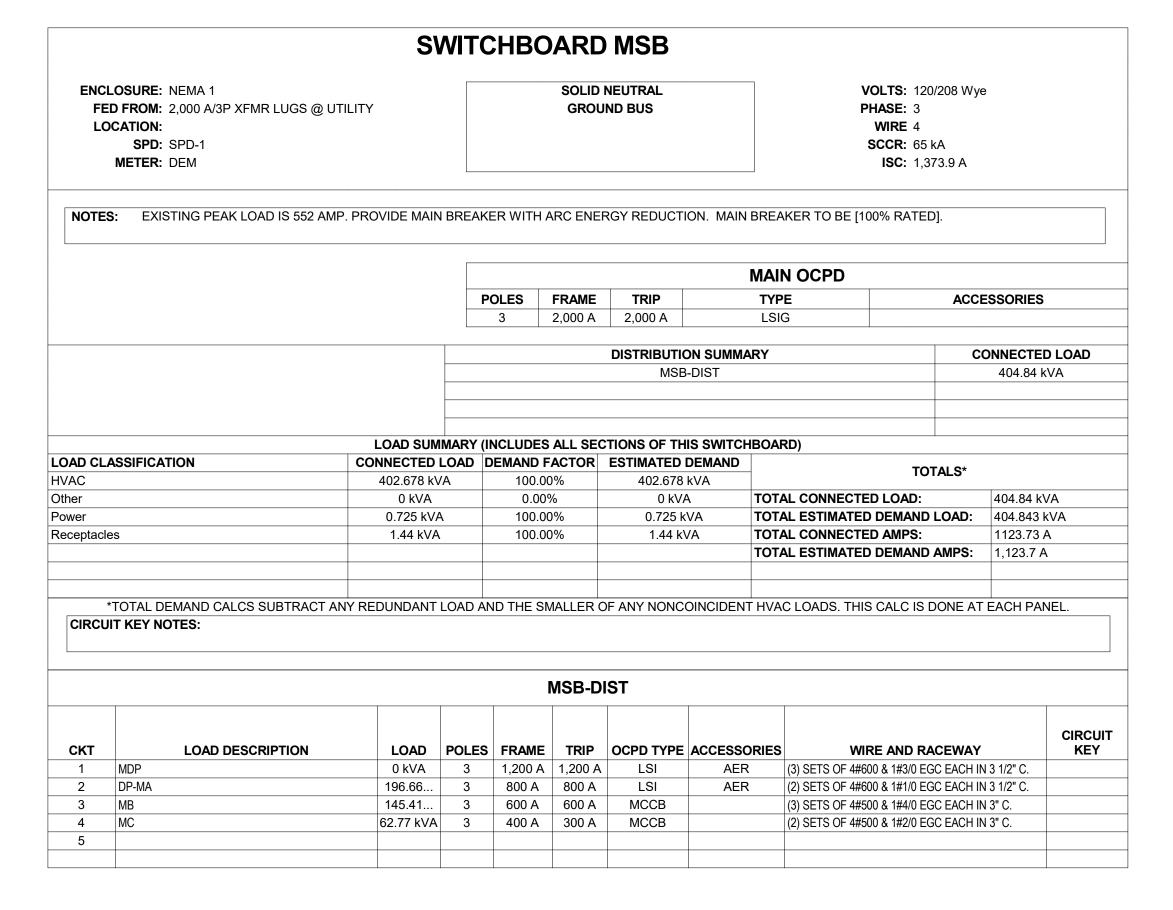
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SHEET NUMBER

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Illinois Design Firm Registration #184007637-0014 0 1 2 3

REF. SCALE IN INCHES PROJECT #21002885.10



Y NO. LOAD DESCRI

E CKT

11 HVAC -- 13 --

-- 19 SPACE -- 21 SPACE

- 23 SPACE -- 25 SPACE -- 27 SPACE -- 29 SPACE

LOAD CLASSIFICATION

Receptacles

-- 3 --5 HVAC -- 7 --

-- 9 --

										P/	ANE	ELN	/IC										
MOUNTING: SURFACE ENCLOSURE: NEMA PB 1 FED FROM: 300 A/3P MCCB @ MSB-DIST LOCATION:						MAIN: 300 A MLO  SOLID NEUTRAL GROUND BUS  PHASE: 3 WIRE: 4 SCCR: 22 kA ISC: 1.27 kA																	
NC	TES	3:																					
	KT NO.	LOAD DESCRIPTION	OCI AMPS			WIRE SIZE N		VD %		A	E	3	C	;	VD %		VIRE SIZE N			CPD AMPS	LOAD DESCR	CK	
T	1	HVAC	15 A	2	12		12	1.06	0.62	0.62					1	12		12	2	15 A	HVAC	2	
	3										0.62	0.62										4	
	5	HVAC	60 A	3	4		10	1.59					7.18	7.18	1.55	10		4	3	60 A	HVAC	6	
	7	-							7.18	7.18												8	_
	9										7.18	7.18									<b></b>	10	
_		HVAC	15 A	2	12		12						0.12	5.52	1.62	10		6	3	60 A	HVAC; DOAS-1C	12	
	13	<del></del>							0.12	5.52												14	_
-	15	Receptacles	20 A	1	12	12	12	1.69			0.36	5.52										16	
_		Other; FSD	20 A	1	12	12	12						0	0							SPACE	18	
		SPACE							0	0											SPACE	20	_
_		SPACE									0	0									SPACE	22	_
_		SPACE							0	0			0	0							SPACE	24	_
		SPACE SPACE			<del></del>			<del></del>	0	U	0	0			<b></b>						SPACE SPACE	28	
		SPACE									U	U	0	0							SPACE	30	_
_		01702				To			21 2	6 kVA	21.49	   k\/Δ	20.01								OFFICE	00	
								mps:		8.76		).72	166										
										LO	DAD SU	JMMAI	RY										
		ASSIFICATION		C				.OAD	DEM		ACTO	R ES	TIMAT			D					TOTALS*		
AC 62.406 kVA			١		100.0				106 k\	/A							I = = =						
19				-		0 kV				0.00				kVA							D LOAD:	62.77 kVA	
е	otacl	es			0	.36 k	VΑ			100.0	U%		0.3	36 kV	4						DEMAND LOAD:	62.766 kVA	
																					O AMPS:	174.22 A	
_									1			1					エヘエ	AI E	CTIM	IATED	DEMAND AMPS:	174.2 A	

NOTES:   N												
Composition											_	
3	CKT NO.	RIPTION	RIPTION	IPTION	PTION	ION	 N					
	2								T			$\top$
7	4								$\top$	4	4	T
9	6									6	6	$\top$
11	8								T	3	8	T
13   HVAC	10								T	1	0	T
15	12								T	1.	2	T
17	14									1,	4	
- 19	16								П	10	6	T
21	18									1	8	I
23 Other	20									2	20	
25 Other	22									2	22	
- 27 SPARE	24									2	<u>24</u>	
- 29 SPARE	26									2	26	
- 31 SPARE	28									_2	28	
33   SPARE	30											_
	32											_
37   SPARE	34									3	34	
39   SPARE	36									3	36	
Total Load:   3.59 kVA   2.80 kVA   4.06 kVA	38									3	38	$\perp$
Total Load: 3.59 kVA   2.80 kVA   4.06 kVA	40									4	10	
Total Amps:   30.91   23.31   34.81	42									_4:	12	$\perp$
LOAD SUMMARY           OAD CLASSIFICATION         CONNECTED LOAD         DEMAND FACTOR         ESTIMATED DEMAND         TOTALS*           VAC         9.776 kVA         100.00%         9.776 kVA         TOTAL CONNECTED LOAD:         10.44 kVA           ower         0.125 kVA         100.00%         0.125 kVA         TOTAL ESTIMATED DEMAND LOAD:         10.441 kVA           eceptacles         0.54 kVA         100.00%         0.54 kVA         TOTAL CONNECTED AMPS:         28.98 A												
OAD CLASSIFICATION         CONNECTED LOAD         DEMAND FACTOR         ESTIMATED DEMAND         TOTALS*           VAC         9.776 kVA         100.00%         9.776 kVA         TOTAL CONNECTED LOAD:         10.44 kVA           ther         0 kVA         100.00%         0.125 kVA         TOTAL ESTIMATED DEMAND LOAD:         10.441 kVA           eceptacles         0.54 kVA         100.00%         0.54 kVA         TOTAL CONNECTED AMPS:         28.98 A												
OAD CLASSIFICATION         CONNECTED LOAD         DEMAND FACTOR         ESTIMATED DEMAND         TOTALS*           VAC         9.776 kVA         100.00%         9.776 kVA         TOTAL CONNECTED LOAD:         10.44 kVA           ower         0.125 kVA         100.00%         0.125 kVA         TOTAL ESTIMATED DEMAND LOAD:         10.441 kVA           deceptacles         0.54 kVA         100.00%         0.54 kVA         TOTAL CONNECTED AMPS:         28.98 A												
VAC         9.776 kVA         100.00%         9.776 kVA         TOTALS*           other         0 kVA         0.00%         0 kVA         TOTAL CONNECTED LOAD:         10.44 kVA           ower         0.125 kVA         100.00%         0.125 kVA         TOTAL ESTIMATED DEMAND LOAD:         10.441 kVA           deceptacles         0.54 kVA         100.00%         0.54 kVA         TOTAL CONNECTED AMPS:         28.98 A											_	
Other         0 kVA         0.00%         0 kVA         TOTAL CONNECTED LOAD:         10.44 kVA           Power         0.125 kVA         100.00%         0.125 kVA         TOTAL ESTIMATED DEMAND LOAD:         10.441 kVA           Receptacles         0.54 kVA         100.00%         0.54 kVA         TOTAL CONNECTED AMPS:         28.98 A												
Jower         0.125 kVA         100.00%         0.125 kVA         TOTAL ESTIMATED DEMAND LOAD:         10.441 kVA           Receptacles         0.54 kVA         100.00%         0.54 kVA         TOTAL CONNECTED AMPS:         28.98 A		10 11 12 / A	40.441	40.441	10 44 1	44.14			—	—	—	
Receptacles         0.54 kVA         100.00%         0.54 kVA         TOTAL CONNECTED AMPS:         28.98 A										—	—	_
·	·								<u> </u>	—	—	—
TOTAL ESTIMATED DEMAND AMPS:   29 A							A					
TOTAL BEHAND ON OR CURTOR OF ANY DEBUNDANT LOAD AND THE CHARLED OF ANY MONOR DEBUT 1874 OF CARD. THE CARD IS THE CARD.												
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL CIRCUIT KEY NOTES:	<u>:L.</u>	EACH PANE	EACH P	-ACH P	ACH PA	H PA	PAN	١NE	=L.			

PANEL MA

**SOLID NEUTRAL** 

**GROUND BUS** 

MAIN: 100 A MLO

VOLTS: 120/208 Wye

PHASE: 3

MOUNTING: SURFACE

**ENCLOSURE**: NEMA PB 1

FED FROM: 100 A/3P CB @ DP-MA

		DISTRIB	UTIO	N PA	NEL	DP-M	A	MAIN. 200 A	MLO	
FEI	OSURE: NEMA PB 1 D FROM: 800 A/3P LSI @ MSB-DIST CATION:				IEUTRAL ND BUS		MAIN: 800 A I VOLTS: 120/208 Wye PHASE: 3 WIRE: 4 SCCR: 22 kA ISC: 1,389.2 A			
NOTES	S:									
СКТ	LOAD DESCRIPTION	LOAD	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY		CIRCUIT KEY
1	HVAC; DOAS-2A	20.86 kVA	3	150 A	70 A	СВ		3#4 & 1#8 EGC IN 1" C.		
2	HVAC	27.56 kVA	3	150 A	80 A	СВ		3#3 & 1#8 EGC IN 1" C.		
3	HVAC	27.56 kVA	3	150 A	80 A	СВ		3#3 & 1#8 EGC IN 1" C.		
4	HVAC	27.56 kVA	3	150 A	80 A	СВ		3#3 & 1#8 EGC IN 1" C.		
5	HVAC	27.56 kVA	3	150 A	80 A	СВ		3#3 & 1#8 EGC IN 1" C.		
6	HVAC	27.56 kVA	3	150 A	80 A	СВ		3#3 & 1#8 EGC IN 1" C.		
7	HVAC	27.56 kVA	3	150 A	80 A	СВ		3#3 & 1#8 EGC IN 1" C.		
8	MA	10.44 kVA	3	150 A	100 A	СВ		4#3 & 1#8 EGC IN 1 1/4" C.		
9										
10										
11										
12										
							THIS PANE	_)		
	ASSIFICATION	CONNECTED						TOTALS*		
VAC		195.998 k		100.0			98 kVA			
ther		0 kVA		0.00			VA	TOTAL CONNECTED LOAD:	196.66 kV	
ower		0.125 k\		100.0			5 kVA	TOTAL ESTIMATED DEMAND LOAD:	196.663 kV	/A
eceptac	es	0.54 kV	Α	100.0	0%	0.54	kVA	TOTAL CONNECTED AMPS:	545.88 A	
								TOTAL ESTIMATED DEMAND AMPS:	545.9 A	
	*TOTAL DEMAND CALCS SUBTRACT									

PANEL MB **MOUNTING:** SURFACE

FED FROM: 600 A/3P MCCB @ MSB-DIST

OCPD SIZE VD A

144.274 kVA

0 kVA

0.6 kVA

0.54 kVA

**ENCLOSURE:** NEMA PB 1

LOAD DESCRIPTION

LOCATION:

E CKT

Y NO.

1 HVAC

5 HVAC

LOAD CLASSIFICATION

**CIRCUIT KEY NOTES:** 

Receptacles

MAIN: 600 A MLO **VOLTS:** 120/208 Wye PHASE: 3 WIRE: 4

**SOLID NEUTRAL** 

**GROUND BUS** 

**Total Amps:** 414.23 399.86 398.15

CONNECTED LOAD DEMAND FACTOR ESTIMATED DEMAND

100.00%

0.00%

100.00%

100.00%

**LOAD SUMMARY** 

\*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL

144.274 kVA

0 kVA

0.6 kVA

0.54 kVA

B C VD SIZE OCPD

SCCR: 22 kA ISC: 1.33 kA

% G N H P AMPS LOAD DESCRIPTION

TOTALS\*

TOTAL ESTIMATED DEMAND LOAD: 145.414 kVA

TOTAL ESTIMATED DEMAND AMPS: 403.6 A

TOTAL CONNECTED LOAD:

TOTAL CONNECTED AMPS:

FAX: 309.786.5967

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ESSER HVAC Improvements -Brookview Elementary School

QUAD CITIES, IL

CKT E

NO. Y

26 28 30

1750 Madron Rd, Rockford, IL 61107

Rockford Public School District #205

PROFESSIONAL SEAL

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AGENCY APPROVAL

KEY PLAN

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SHEET INFORMATION **Construction Documents** November 03, 2022 21002885.10 **JERVET** MATSNY **JERVET** 

> SHEET TITLE **ELECTRICAL SCHEDULES**

E700

SHEET NUMBER

SCALE

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