ROCKFORD PUBLIC SCHOOLS # 205

3615 W Gate Pkwy, Rockford, IL 61108

IFB# 23-16 PROJECT NUMBER: 2404

ESSER HVAC Improvements - Rolling Green Elementary School

ARCHITECTURAL Sheet List	
Number	Name
C000	PROJECT COVERSHEET
G000	GENERAL INFORMATION
G001	LOWER LEVEL, FIRST FLOOR & UPPER LEVEL CODE PLAN
G002	FINISH ROOM SCHEDULE
D100A	LOWER LEVEL DEMOLITION FLOOR PLAN AREA B & D
D101A	FIRST FLOOR DEMOLITION PLAN AREA A
D101B	FIRST FLOOR DEMOLITION PLAN AREA B
D101C	FIRST FLOOR DEMOLITION PLAN AREA C
D101D	FIRST FLOOR DEMOLITION PLAN AREA D
A100A	LOWER LEVEL FLOOR PLAN AREA B & D
A101A	FIRST FLOOR PLAN AREA A
A101B	FIRST FLOOR PLAN AREA B
A101C	FIRST FLOOR PLAN AREA C
A101D	FIRST FLOOR PLAN AREA D
A201A	FIRST REFLECTED CEILING FLOOR PLAN AREA A
A201B	FIRST REFLECTED CEILING FLOOR PLAN AREA B
A201C	FIRST REFLECTED CEILING FLOOR PLAN AREA C
A201D	FIRST REFLECTED CEILING FLOOR PLAN AREA D
A301A	ROOF PLAN AREA A
A301B	ROOF PLAN AREA B
A201C	ROOF PLAN AREA C
A201D	ROOF PLAN AREA D
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MECHANICAL / PLUMBING / ELECTRICAL Sheet List	
Number	Name
M000	MECHANICAL, PLUMBING AND FIRE PROTECTION COVER SHEET
M101A	FIRST FLOOR DEMOLITION - MECHANICAL - AREA A
M101B	FIRST & UPPER FLOOR DEMOLITION - MECHANICAL - AREA B
M101C	FIRST FLOOR DEMOLITION - MECHANICAL - AREA C
M101D	FIRST FLOOR DEMOLITION - MECHANICAL - AREA D
M102B	ROOF DEMOLITION - MECHANICAL - AREA B
M102D	ROOF DEMOLITION - MECHANICAL - AREA D
M200	LOWER LEVEL - MECHANICAL
M201A	FIRST FLOOR - MECHANICAL - AREA A
M201B	FIRST & UPPER FLOOR - MECHANICAL - AREA B
M201C	FIRST FLOOR - MECHANICAL - AREA C
M201D	FIRST FLOOR - MECHANICAL - AREA D
M202A	ROOF - MECHANICAL - AREA A
M202B	ROOF - MECHANICAL - AREA B
M202C	ROOF - MECHANICAL - AREA C
M202D	ROOF - MECHANICAL - AREA D
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M500	MECHANICAL DIAGRAMS
M501	MECHANICAL DIAGRAMS
M600	MECHANICAL SCHEDULES
E000	ELECTRICAL COVERSHEET
E101A	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA A
E101B	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA B
E101C	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA C
E101D	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA D
E102B	ROOF DEMOLITION - ELECTRICAL - AREA B
E102D	ROOF DEMOLITION - ELECTRICAL - AREA D
E200	LOWER LEVEL - ELECTRICAL
E201A	FIRST FLOOR - ELECTRICAL - AREA A
E201B	FIRST FLOOR - ELECTRICAL - AREA B
E201C	FIRST FLOOR - ELECTRICAL - AREA C
E201D	FIRST FLOOR - ELECTRICAL - AREA D
E202A	ROOF - ELECTRICAL - AREA A
E202B	ROOF - ELECTRICAL - AREA B
E202C	ROOF - ELECTRICAL - AREA C
E202D	ROOF - ELECTRICAL - AREA D
E500	ELECTRICAL DIAGRAMS
E700	ELECTRICAL PANEL SCHEDULES
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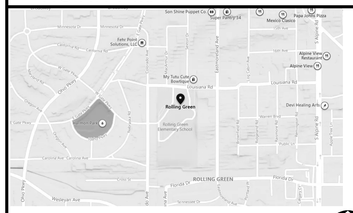
ROCKFORD PUBLIC SCHOOLS

VICINITY MAP



NORTH

APPLICABLE CODES

2015 International Energy Conservation Code (IECC)

2015 International Existing Building Code (IEBC)

2015 International Fire Code (IFC), excluding Chapter 4

2015 International Fuel Gas Code (IFGC)

2015 International Mechanical Code (IMC)

2014 Illinois Plumbing Code

2014 National Electrical Code

SCOPE OF WORK

Heating, ventilation and air conditioning revisions to school as well as architectural, structural, and electrical revisions to support the HVAC work.

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue: **Construction Documents**

Date: **November 03, 2022**

Job Number: **21002885.12**

SHEET TITLE

PROJECT COVERSHEET

SCALE

Scale:

SHEET NUMBER

C000

ABBREVIATIONS

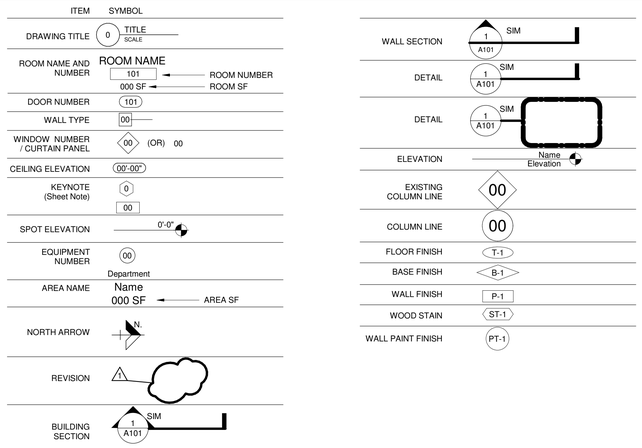
AC	AIR CONDITIONING
AC/FL	ACCESS FLOOR
ACP	ACOUSTICAL CEILING PANEL
AD	AREA DRAIN
ADJ.	ADJUSTABLE
AFF	ABOVE FINSHED FLOOR
AL./ALUM.	ALUMINUM
ALT.	ALTERNATE
ANOD.	ANODIZED
ANT.	ANTENNA
APPD.	APPROVED
ARCH.	ARCHITECT
ARCH'L	ARCHITECTURAL
B.M.	BENCH MARK
BETW.	BETWEEN
BIT	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
BRG.	BEARING
BSMT.	BASEMENT
C.G.	CORNER GUARD
C.T.	CERAMIC TILE
CAB.	CABINET
CFCI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
CFMF	COLD FORMED METAL FRAMING
CL	CENTER LINE
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CORR.	CORRIDOR
CPT./CP	CARPET
DBL.	DOUBLE
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DN	DOWN
DR.	DOOR
DS	DOWNSPOUT
DWG.	DRAWING

EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRIC(AL)
ELEV.	ELEVATOR
EMER.	EMERGENCY
ENCL.	ENCLOSED
ENG.	ENGINEER
=	EQUAL
ESC.	EQUIPMENT
EWC	ESCALATOR
EX	ELECTRIC WATER COOLER
EXH.	EXISTING
EXST.	EXHAUST
EXP.	EXISTING
EXT.	EXPANSION OR EXPOSED
	EXTERIOR
FD	FLOOR DRAIN
FDVC	FIRE DEPARTMENT VALVE CABINET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FEVC	FIRE EXTINGUISHER AND VALVE CABINET
FHC	FIRE HOSE CABINET
FIN.	FINISH(ED)
FLG.	FLASHING
FLR.	FLOOR
FRT	FIRE RETARDANT TREATED
FUT.	FUTURE
FVC	FIRE VALVE CABINET
GA.	GAUGE
GALV.	GALVANIZED
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRP	GLASS FIBER REINFORCED PLASTER
GL.	GLASS, GLAZING
GYP.BD./G	GYPSUM WALL BOARD
B	
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
H.P.	HIGH POINT
HD	HEAD
HDWR.	HARDWARE
HDWD.	HARDWOOD
HORIZ.	HORIZONTAL
HT.	HEIGHT
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
INCL.	INCLUDE (ED) (ING)
INFO.	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
J.C.	JANITOR'S CLOSET
JB.	JAMB
JT.	JOINT

L.P.	LOW POINT
LAM.	LAMINATE
LAV.	LAVATORY
LH	LEFT HAND
LT.	LIGHT
LVR.	LOUVER
M.O.	MASONRY OPENING
MACH.	MACHINE
MAX.	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH.	MECHANICAL
MED.	MEDIUM
MEZZ.	MEZZANINE
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MTG.	MOUNTING
MTL.	METAL
MULL.	MULLION
MWK.	MILLWORK
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O.C.	ON CENTER
OA	OVERALL
OH	OVERHEAD
OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED/ OWNER INSTALLED
OFF.	OFFICE
OPG.	OPENING
OPP.	OPPOSITE
ORN.	ORNAMENTAL
P.C.	PRECAST CONCRETE
P.LAM.	PLASTIC LAMINATE
PERF.	PERFORATED
PH.	PHASE
PL.	PLATE
PLAS.	PLASTIC
PLBG.	PLUMBING
PLYWD.	PLYWOOD
PNL.	PANEL
PKG.	PARKING
PPT	PRESERVATIVE PRESSURE TREATED
PR.	PAIR
PROT.	PROTECTION
PT.	PAINT
PTD.	PAINTED
PTN.	PARTITION
PVMT.	PAVEMENT

Q.T.	QUARRY TILE
QTY.	QUANTITY
R/RAD.	RADIUS
R.B.	RESILIENT BASE
R.O.	ROUGH OPENING
R.T.	RUBBER TILE
RD	ROOF DRAIN
REF.	REFERENCE
REINF.	REINFORCED
REM'D	REMOVED
REQ'D	REQUIRED
RES.	RESILIENT
REV.	REVISION OR REVISED
RF.	ROOF
RFG.	ROOFING
RH	RIGHT HAND
RM.	ROOM
S&BR	SEALANT AND BACKER ROD
SCWD	SOLID CORE WOOD
S.S.	STAINLESS STEEL
SHT.	SHEET
SIM.	SIMILAR
ST.	STAIN
STD.	STANDARD
STL.	STEEL
STO.	STORAGE
SUSP.	SUSPENDED
T/	TOP OF
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEL.	TELEPHONE
TEMP.	TEMPORARY
TERR.	TERRAZZO
THK.	THICK
TYP.	TYPICAL
U.L.	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V.B.	VINYL BASE
V.C.T.	VINYL COMPOSITE TILE
VAP.BAR.	VAPOR BARRIER
VERT.	VERTICAL
VEST.	VESTIBULE
V/F	VERIFY IN FIELD
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WD.	WOOD
WP	WATERPROOFING

SYMBOL LEGEND



ACCESSIBILITY COMPLIANCE STATMENT

STATEMENT OF COMPLIANCE

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH THE ENVIRONMENTAL BARRIERS ACT [410 ILCS 25] AND THE ILLINOIS ACCESSIBILITY CODE (71 Ill. ADM. CODE 400).

STATE OF ILLINOIS
DANIEL G. BAVIDORA
001-015740
LICENSED ARCHITECT

SIGNED: _____
ARCHITECT / ENGINEER

ILLINOIS REGISTRATION NO.: 001-015740

DATE: 12/23/2021

ENERGY CODE COMPLIANCE STATEMENT

I hereby certify that I am a Licensed Architect in the State of Illinois and I also certify that to the best of my knowledge and belief that the plans for **ROLLING GREEN ELEMENTARY** fully comply with the following sections of the 2018 International Energy Conservation Code and State of Illinois amendments.

IECC - Commercial Provisions
Chapter 1 (CE) - Scope and Administration
Chapter 2 (CE) - Definitions
Chapter 3 (CE) - General Requirements
Chapter 4 (CE) - Commercial Energy Efficiency
Chapter 5 (CE) - Existing Buildings
Chapter 6 (CE) - Referenced Standards
State of Illinois Amendments to C101.1, C101.1.2, C101.1.3, C101.5, C102.1.1, C109.1, C109.3, C402.2.2, C402.5.1, C402.5.1.1 and C503.1

In accordance with Illinois Amendment to C101.5, US DOE COMcheck Energy Code Compliance Certificates have been 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 weighted U-factors and SHGC calculations, mechanical system design criteria, mechanical system and service hot water system equipment types, sizes and efficiencies, economizer description, equipment and system controls, fan motor horsepower and controls, duct sealing, duct and pipe insulation and location, lighting and fixture schedules with wattage and control system, air sealing details and system commissioning requirements area detailed, described and specified in the construction documents (Drawings and Project Manual) and the COMcheck Compliance Certificate including attached supporting documentation and calculations.

STATE OF ILLINOIS
DANIEL G. BAVIDORA
001-015740
LICENSED ARCHITECT

SIGNATURE	12/23/2021 DATE
001-015740 LICENSE No.	11/30/2024 EXPIRATION DATE

LINETYPE LEGEND

PROPERTY LINE	
DEMOLITION	
EXISTING	
NEW	
FIRE BARRIER 1 HOUR	x x x x x x
FIRE BARRIER 2 HOUR	2 2 2 2 2 2

ARCHITECTURAL SEAL

STATE OF ILLINOIS
DANIEL G. BAVIDORA
001-015740
LICENSED ARCHITECT

LICENSE: 001-015740
DATE: 12/23/2021
EXPIRATION DATE: 11.30.2024

THIS SEAL APPLIES TO ALL G,D, AND A SHEETS.

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.
2. 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.
4. 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.
5. 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.
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.

GENERAL NOTES

1. 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 CONTRACT.
2. FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.
3. MAINTAIN REQUIRED EXITS FROM THE EXISTING BUILDING AND SITE ACCESS THROUGH SUBSTANTIAL COMPLETION.
4. ITEMS NOTED AS EXISTING ARE TO REMAIN, UNLESS OTHERWISE NOTED.
5. VERIFY WITH OWNER ITEMS TO BE SALVAGED AND RETURNED TO OWNER, INCLUDING BUT NOT NECESSARILY LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, ETC. ITEMS TO BE SALVAGED SHALL BE CAREFULLY REMOVED AS TO ALLOW FOR OWNER'S REUSE.
6. 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.
7. 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 REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
8. 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.
9. 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 EXISTING WALL OR FLOOR CONSTRUCTION.
10. PATCH AND REPAIR EXISTING CONSTRUCTION, EXISTING SURFACES, AND NEWLY EXPOSED CONSTRUCTION AFFECTED BY THE WORK WITH MATERIALS 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 WORK TO EXISTING CONSTRUCTION AFFECTED BY THE WORK TO RECEIVE NEW AND PROPER FINISHES.
11. RESTORE ITEMS/DAMAGED AREAS AT STAGING AREAS, ETC. TO ORIGINAL FULLY FUNCTIONAL CONDITION.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING AND ADJUSTING EXISTING ITEMS WHETHER SHOWN OR NOT, INCLUDING ELECTRICAL, WIRING, CONDUITS, MECHANICAL, PLUMBING, FLOOR DRAIN COVERS, ETC.
13. 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.
14. PROPERLY PROTECT EXISTING BUILDING, CONCRETE WALKS, CURBS, 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.
16. MAINTAIN REQUIRED EXITS FROM THE EXISTING BUILDING THROUGH SUBSTANTIAL COMPLETION.
17. COORDINATE STAGING AREA/LOCATIONS WITH OWNER.
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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ROLLING GREEN ELEMENTARY SCHOOL

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PROFESSIONAL SEAL

CONSULTANT

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KEY PLAN

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	CONSTRUCTION DOCUMENTS
Date	November 3, 2022
Job Number	22006.70
Drawn	MI
Checked	MS
Approved	DS/MS

SHEET TITLE
GENERAL INFORMATION

SCALE
Scale: As indicated

SHEET NUMBER
G000

NORTH 3 **UPPER LEVEL CODE PLAN**
3/64" = 1'-0"

NORTH 1 **LOWER LEVEL CODE PLAN**
3/64" = 1'-0"

NORTH 2 **FIRST FLOOR CODE PLAN**
3/64" = 1'-0"

WALL RATING KEY

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

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**CONSTRUCTION DOCUMENTS**
Date	**November 3, 2022**
Job Number	**22006.70**
Drawn	**MI**
Checked	**MS**
Approved	**DS/MS**

SHEET TITLE
LOWER LEVEL, FIRST FLOOR & UPPER LEVEL CODE PLAN

SCALE
Scale: **3/64" = 1'-0"**

SHEET NUMBER
G001

22006.70 03/11/2022 11:56:54 ROLLING GREEN ELEMENTARY SCHOOL

ROLLING GREEN ELEMENTARY SCHOOL
ROOM FINISH SCHEDULE

		FLOOR				BASE			CEILING						CEILING HT.					TRM	WALL				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	
FIRST FLOOR																									
1	SELF-CONTAINED			●	●			●	●					●					●	●			●	●	1,3,5
2	KINDERGARTEN			●	●			●	●					●					●	●			●	●	1,3,5
3	PRE-SCHOOL			●	●			●						●					●	●			●	●	1,3,4
4	KINDERGARTEN			●	●			●						●					●	●			●	●	1,3,4
5	TITLE 1			●	●			●						●					●	●			●	●	1,3,4
6	KINDERGARTEN			●	●			●						●					●	●			●	●	1,3,4
7	KINDERGARTEN			●	●			●						●					●	●			●	●	1,3,4
8	LOUNGE			●	●			●						●					●	●			●	●	1,3,4
9	TITLE 1			●	●			●						●					●	●			●	●	1,3,4
10	4TH GRADE			●	●			●						●					●	●			●	●	1,3,4
11	SELF-CONTAINED			●	●			●						●					●	●			●	●	1,3,4
12	4TH GRADE			●	●			●						●					●	●			●	●	1,3,4
13	5 TH GRADE			●	●			●						●					●	●			●	●	1,3,4
14	4TH GRADE			●	●			●						●					●	●			●	●	1,3,4
15	5TH GRADE			●	●			●						●					●	●			●	●	1,3,4
16	5TH GRADE			●	●			●						●					●	●			●	●	1,3,4
17-A	NURSE			●	●			●						●					●	●			●	●	1,3,4
T01	LIBRARY			●	●			●						●					●	●			●	●	1,3,4
T02	STAFF PD			●	●			●						●					●	●			●	●	1,3,4
T03	RCVG			●	●			●						●					●	●	●		●		2
19	STEM LAB			●	●			●						●					●	●			●	●	1,2,3
20	3RD GRADE			●	●			●						●					●	●			●	●	1,2,3
21	SPEC.ED. RESOURCES			●	●			●						●					●	●			●	●	1,2,3
22	3RD GRADE			●	●			●						●					●	●			●	●	1,2,3
23	SELF-CONTAINED			●	●			●						●					●	●			●	●	1,2,3
24	3RD GRADE			●	●			●						●					●	●			●	●	1,2,3
25	3RD GRADE			●	●			●						●					●	●			●	●	1,2,3
26	SELF-CONTAINED			●	●			●						●					●	●			●	●	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 LOCATIONSINDICATED 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 MASONRY INFILL WALL TO MATCH EXISTING ADJACENT WALL.
4. PATCH,PREP, AND PAINT GYPSUM BOARD CEILING.
5. INSTALL NEW SUSPENDED ACOUSTICAL CEILING TILE CLOUD.

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 INDICATED OR NOT IN ROOM FINISH SCHEDULE.
10. AT NEW MASONRY INFILL, PAINT ENTIRE WALL THAT WILL REMAIN VISIBLE.

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KEY PLAN

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

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SHEET INFORMATION

Issue	CONSTRUCTION DOCUMENTS
Date	November 3, 2022
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Approved	DS/MS

SHEET TITLE
FINISH ROOM SCHEDULE

SCALE
Scale: As indicated

SHEET NUMBER
G002

GENERAL COORDINATION NOTE

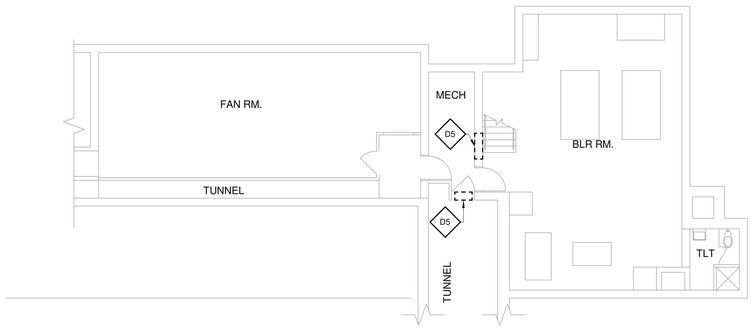
GENERAL CONTRACTOR TO COORDINATE DEMOLITION WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK

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.
2. 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.
4. 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.
5. 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.
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.

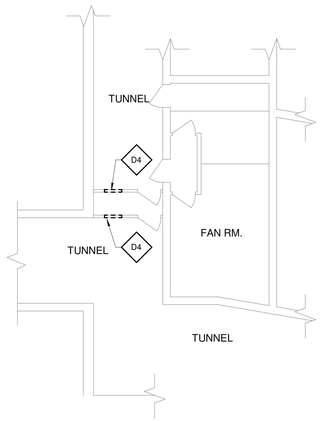
DEMOLITION KEY NOTES

D1	REMOVE EXISTING MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS
D2	REMOVE THROUGH WALL AC UNIT - SEE MECHANICAL DRAWINGS
D3	REMOVE EXISTING FIN TUBE - SEE MECHANICAL DRAWINGS
D4	REMOVE PORTION OF EXISTING FRAMING AND PLASTER AS NECESSARY TO ACCOMMODATE NEW PIPING - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D5	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW PIPING. IF CORING TIGHT TO NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU AND/OR BRICK - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL NFORMATION.
D6	REMOVE EXISTING UNIT VENT ACCESSORY BOOKSHELVES IN ITS ENTIRETY.
D7	CAREFULLY REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW LOUVER; TOOTH-IN SALVAGED MASONRY AT PERIMETER OF OPENING TO MATCH EXISTING COURSING - SEE MECHANICAL DRAWINGS.
D8	REMOVE PORTION OF 1X1 CEILING TILE SYSTEM TO ACCOMMODATE THE NEW WORK.
D9	CAREFULLY REMOVE EXISTING ACT CEILING SYSTEM AS REQUIRED TO ACCOMMODATE NEW WORK AND SALVAGE FOR REINSTALLATION.
D10	REMOVE EXISTING ELECTRICAL POLES - SEE ELECTRICAL DRAWINGS.
D11	REMOVE EXISTING ACCESS PANELS IN ITS ENTIRETY.



NORTH 1 **LOWER LEVEL DEMOLITION FLOOR PLAN AREA B**

1/8" = 1'-0"



NORTH 2 **LOWER LEVEL DEMOLITION FLOOR PLAN AREA D**

1/8" = 1'-0"

LEGEND

- - -	DEMOLITION WORK

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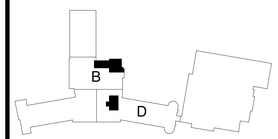
KEY PLAN



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REFERENCE SCALE IN INCHES

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REVISIONS

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SHEET INFORMATION

Issue	CONSTRUCTION DOCUMENTS
Date	November 3, 2022
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SHEET TITLE

LOWER LEVEL DEMOLITION FLOOR PLAN AREA B & D

SCALE

Scale: As indicated

SHEET NUMBER

D100A

22006.70 03/11/2022 11:56:05 ROLLING GREEN ELEMENTARY SCHOOL

GENERAL COORDINATION NOTE

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

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.
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DEMOLITION KEY NOTES

D1	REMOVE EXISTING MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS
D2	REMOVE THROUGH WALL AC UNIT - SEE MECHANICAL DRAWINGS
D3	REMOVE EXISTING FIN TUBE - SEE MECHANICAL DRAWINGS
D4	REMOVE PORTION OF EXISTING FRAMING AND PLASTER AS NECESSARY TO ACCOMMODATE NEW PIPING - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D5	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW PIPING. IF CORING TIGHT TO NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU AND/OR BRICK - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL NFORMATION.
D6	REMOVE EXISTING UNIT VENT ACCESSORY BOOKSHELVES IN ITS ENTIRETY.
D7	CAREFULLY REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW LOUVER; TOOTH-IN SALVAGED MASONRY AT PERIMETER OF OPENING TO MATCH EXISTING COURSING - SEE MECHANICAL DRAWINGS.
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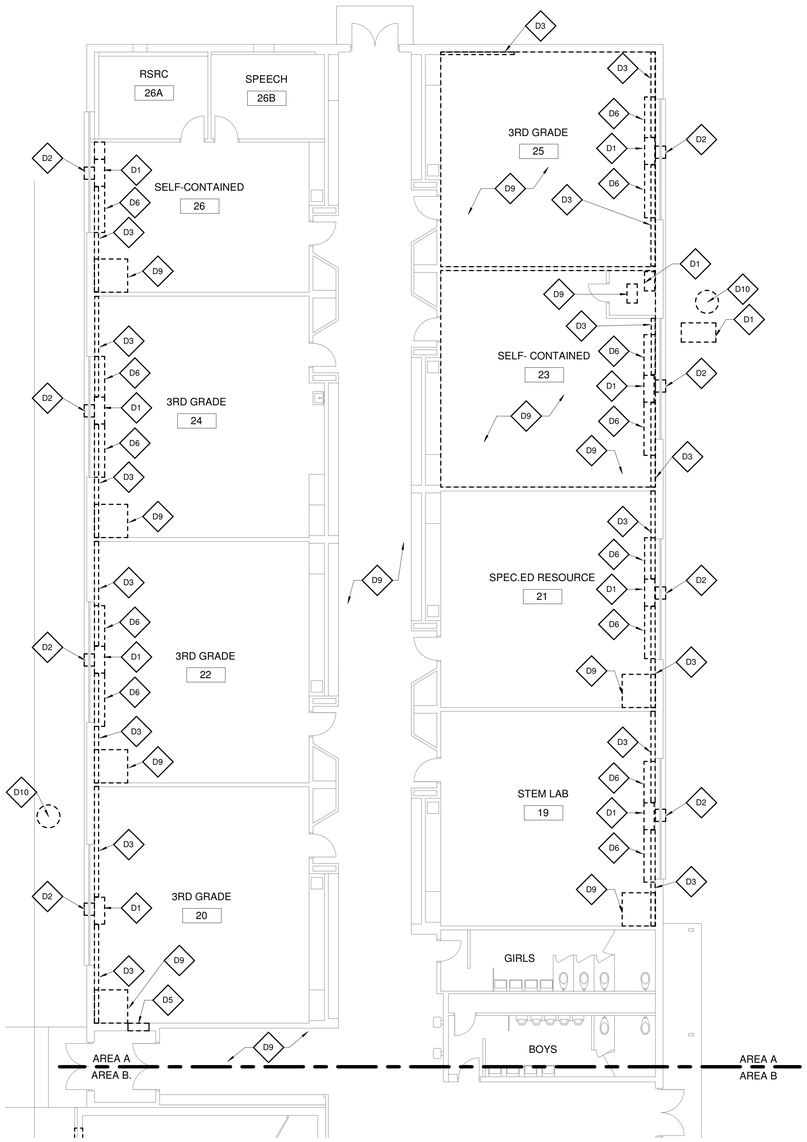

1 **FIRST FLOOR DEMOLITION PLAN AREA A**

1/8" = 1'-0"

NORTH

LEGEND

DEMOLITION WORK

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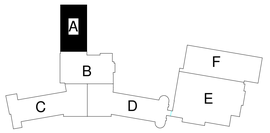
KEY PLAN



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REFERENCE SCALE IN INCHES

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SHEET TITLE

FIRST FLOOR DEMOLITION PLAN AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

D101A

22006.70 03/11/2022 11:56:07 ROLLING GREEN ELEMENTARY SCHOOL

GENERAL COORDINATION NOTE

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D3	REMOVE EXISTING FIN TUBE - SEE MECHANICAL DRAWINGS
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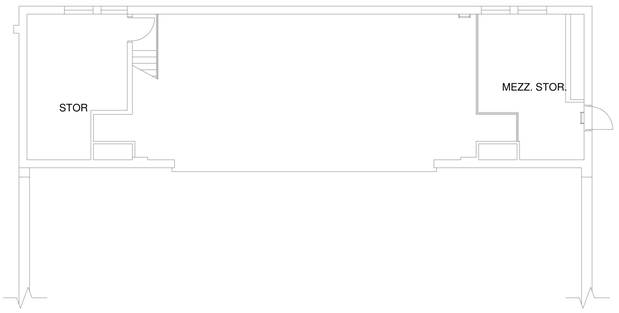
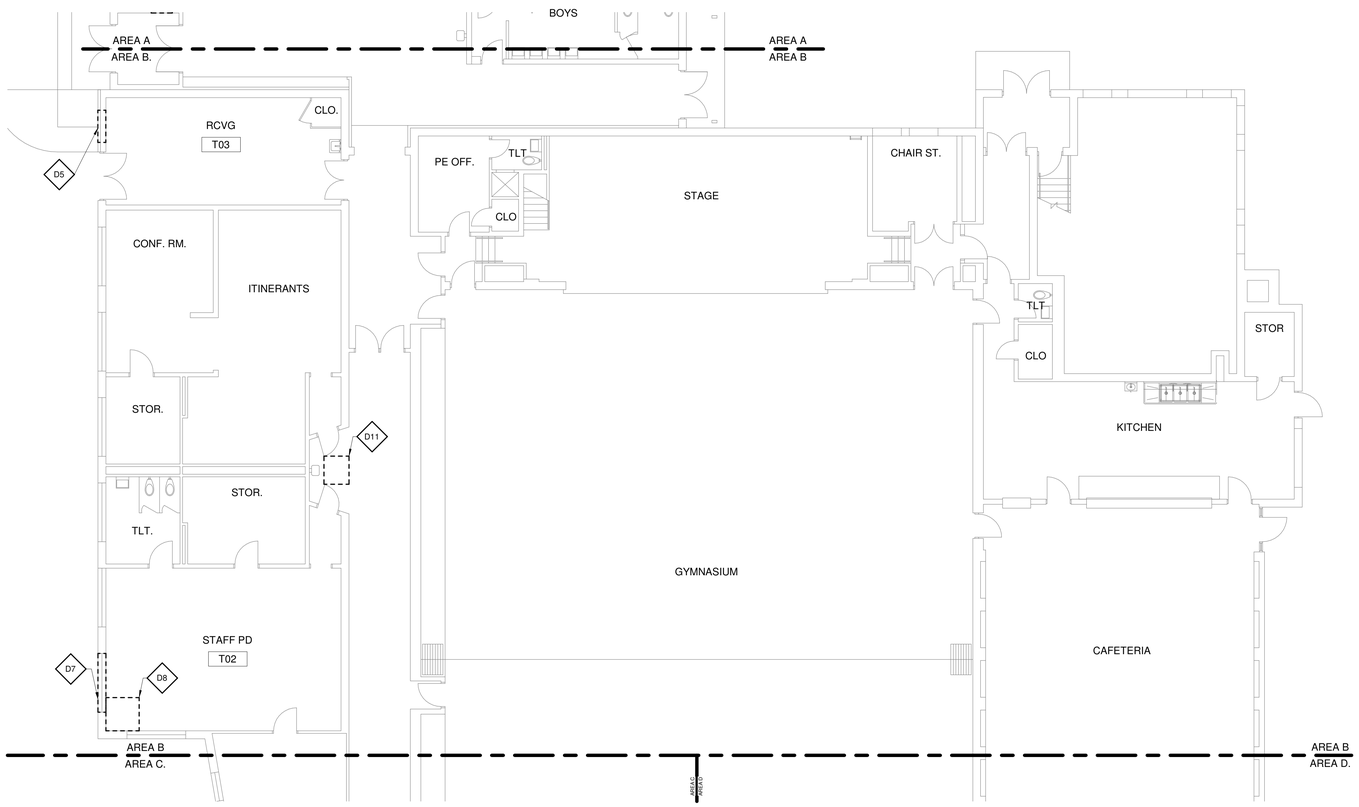


NORTH 2 **UPPER LEVEL DEMOLITION FLOOR PLAN**

1/8" = 1'-0"



NORTH 1 **FIRST FLOOR DEMOLITION PLAN AREA B**

1/8" = 1'-0"

LEGEND

DEMOLITION WORK

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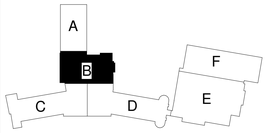
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	CONSTRUCTION DOCUMENTS
Date	November 3, 2022
Job Number	22006.70
Drawn	MI
Checked	MS
Approved	DS/MS

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN AREA B

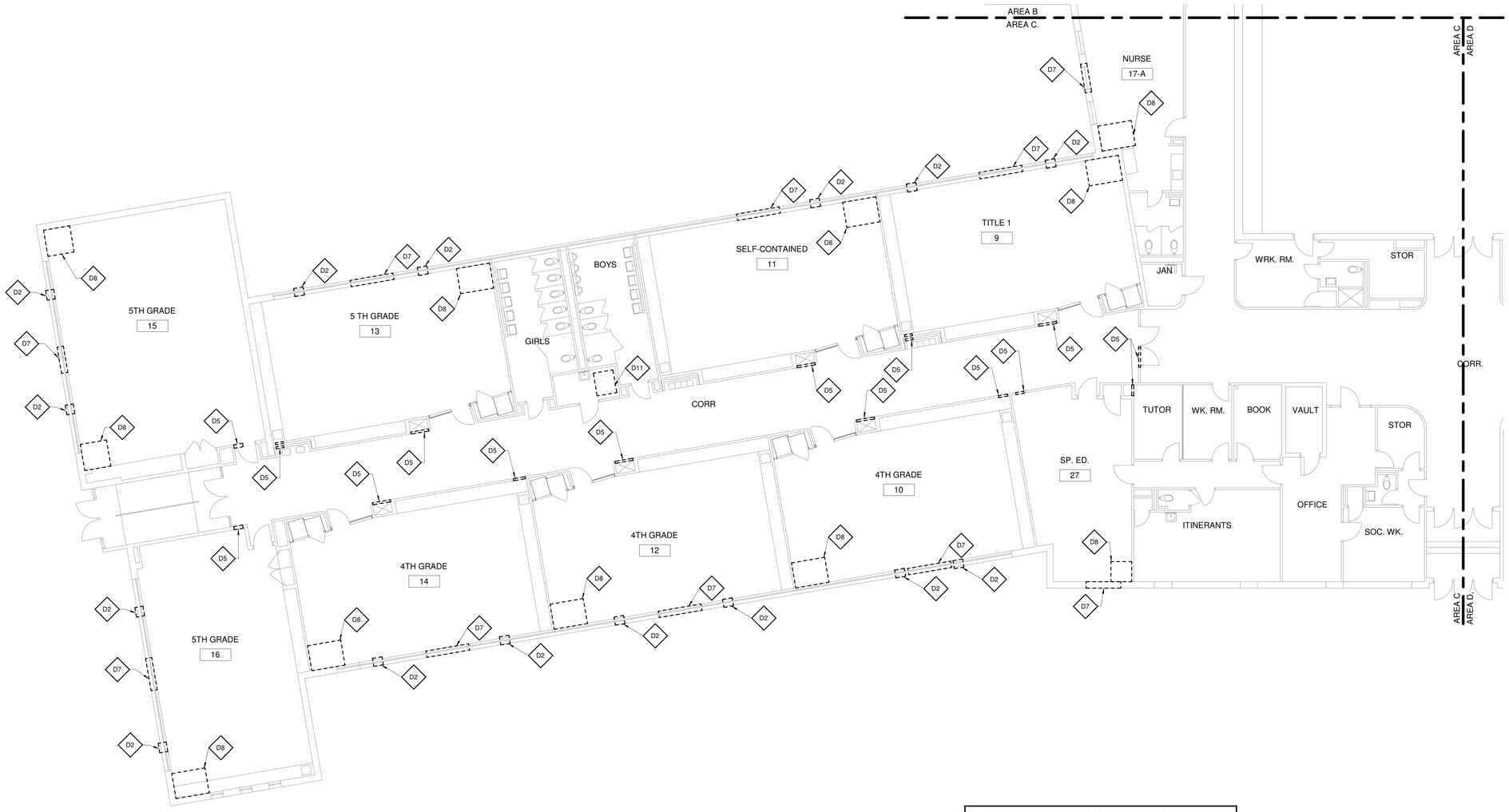
SCALE

Scale: As indicated

SHEET NUMBER

D101B

22006.70 03/11/2022 11:56:08 ROLLING GREEN ELEMENTARY SCHOOL



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.
2. 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.
4. 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.
5. 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.
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 EXISTING MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS
D2	REMOVE THROUGH WALL AC UNIT - SEE MECHANICAL DRAWINGS
D3	REMOVE EXISTING FIN TUBE - SEE MECHANICAL DRAWINGS
D4	REMOVE PORTION OF EXISTING FRAMING AND PLASTER AS NECESSARY TO ACCOMMODATE NEW PIPING - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D5	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW PIPING. IF CORING TIGHT TO NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU AND/OR BRICK - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL NFORMATION.
D6	REMOVE EXISTING UNIT VENT ACCESSORY BOOKSHELVES IN ITS ENTIRETY.
D7	CAREFULLY REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW LOUVER; TOOTH-IN SALVAGED MASONRY AT PERIMETER OF OPENING TO MATCH EXISTING COURSING - SEE MECHANICAL DRAWINGS.
D8	REMOVE PORTION OF 1X1 CEILING TILE SYSTEM TO ACCOMMODATE THE NEW WORK.
D9	CAREFULLY REMOVE EXISTING ACT CEILING SYSTEM AS REQUIRED TO ACCOMMODATE NEW WORK AND SALVAGE FOR REINSTALLATION.
D10	REMOVE EXISTING ELECTRICAL POLES - SEE ELECTRICAL DRAWINGS.
D11	REMOVE EXISTING ACCESS PANELS IN ITS ENTIRETY.

GENERAL COORDINATION NOTE

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

LEGEND

DEMOLITION WORK

NORTH

1 **FIRST FLOOR DEMOLITION PLAN AREA C**

1/8" = 1'-0"

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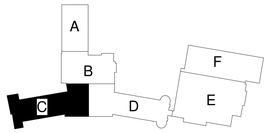

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SHEET TITLE

FIRST FLOOR DEMOLITION PLAN AREA C

SCALE

Scale: As indicated

SHEET NUMBER

D101C

22006.70 03/11/2022 11:56:11 ROLLING GREEN ELEMENTARY SCHOOL

GENERAL COORDINATION NOTE

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

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D2	REMOVE THROUGH WALL AC UNIT - SEE MECHANICAL DRAWINGS
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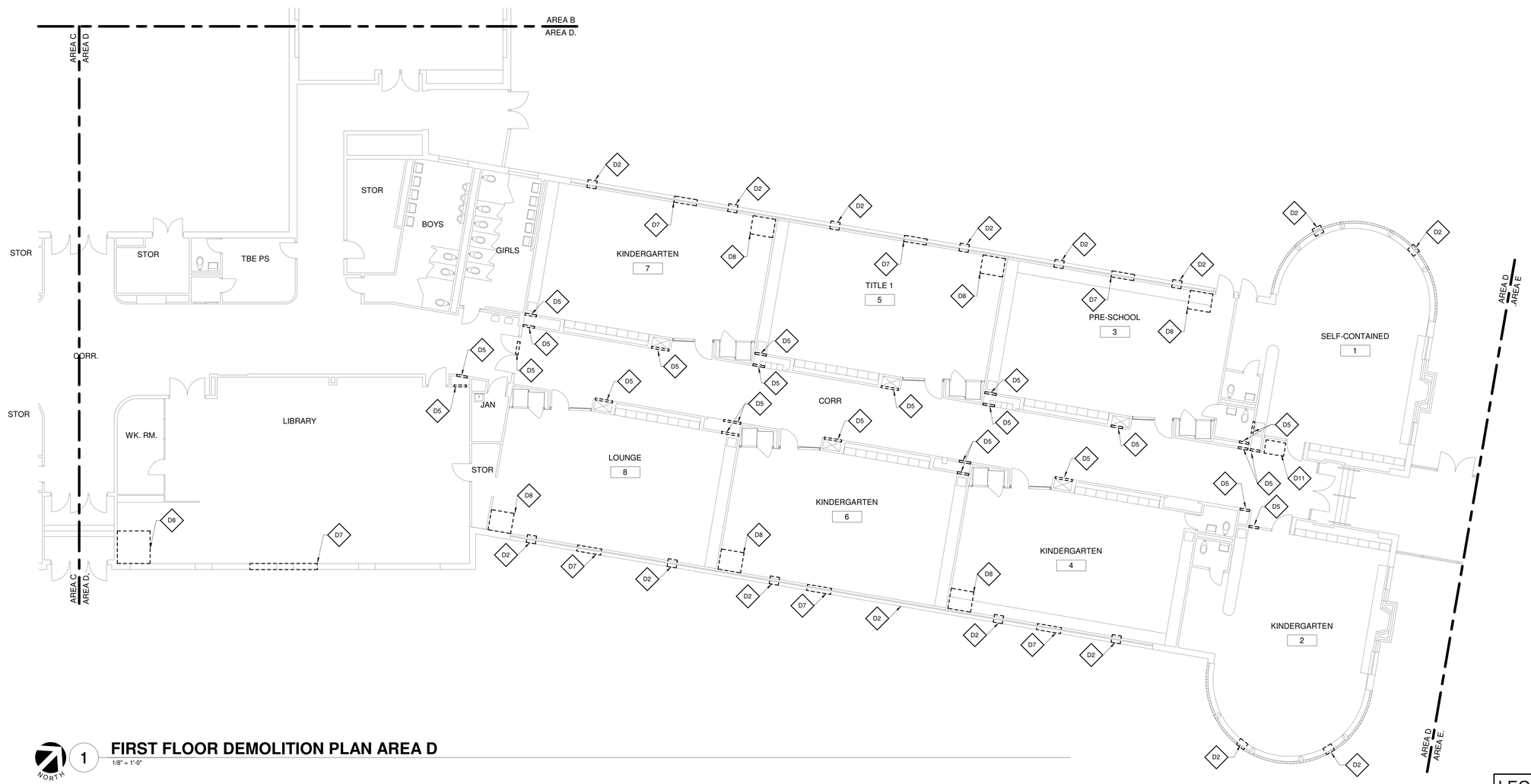

NORTH

1 **FIRST FLOOR DEMOLITION PLAN AREA D**

1/8" = 1'-0"

LEGEND

- - -	DEMOLITION WORK

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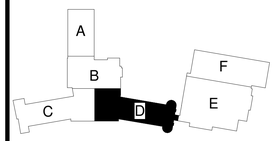

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SHEET TITLE

FIRST FLOOR DEMOLITION PLAN AREA D

SCALE

Scale: As indicated

SHEET NUMBER

D101D

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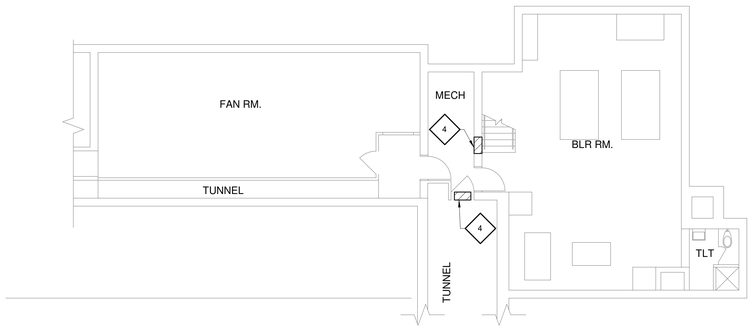
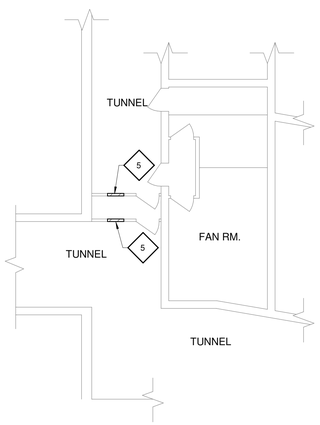


NORTH 1 **LOWER LEVEL FLOOR PLAN AREA B**

1/8" = 1'-0"



NORTH 2 **LOWER LEVEL FLOOR PLAN AREA D**

1/8" = 1'-0"

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.
2. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS, SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK, WALL MOUNTED SPEAKERS, WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK.
3. THE EXTENT OF WALL AND FLOOR DEMOLITION IS SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IS TO ACCOMMODATE ALL MECHANICAL PIPING, DUCTWOR AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ALL PENETRATION SIZES AND LOCATIONS. INCLUDE ALL WORK AS SHOWN ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION.

NEW WORK KEY NOTES

1	MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2	PIPE ENCLOSURE - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3	WHERE MECHANICAL EQUIPMENT IS BEING REPLACED, PATCH, PREP AND PAINT NEWLY EXPOSED WALL SURFACE TO MATCH EXISTING ADJACENT SURFACE.
4	WHERE NEW PIPING HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL- INFILL HOLE TIGHT TO THE NEW PIPING WITH FULL CMU. MATCH THICKNESS AND COURSING.
5	WHERE NEW PIPING HAS BEEN ROUTED THROUGH AN EXISTING FRAMING WALL WITH GYPSUM BOARD/PLASTER - PATCH, PREP AND PAINT WALL TO MATCH EXISTING SURFACE IN COLOR, TEXTURE, AND SHEEN.
6	WHERE EXISTING MECHANICAL EQUIPMENT HAS BEEN REMOVED - INFILL HOLE WITH FULL CMU AND BRICK. MATCH THICKNESS, COLOR, TEXTURE AND COURSING.
7	NEW UNIT VENT ACCESSORY BOOKSHELVES IN ITS ENTIRETY.
8	WHERE ELECTRICAL PIPING HAS BEEN ROUTED THROUGH AN EXISTING EXTERIOR WALL. ON THE INSIDE INFILL HOLE TIGHT TO THE NEW PIPING WITH FULL CMU. ON THE OUTSIDE TOOTH-IN SALVAGED FACEBRICK AT PERIMETER OF OPENING TO MATCH EXISTING COURSING.
9	WHERE AC UNIT WAS REMOVED; PROVIDE GLAZING TO MATCH EXISTING IN R-VALUE AND COLOR.
10	METAL LOUVER - REFER TO MECHANICAL DRAWINGS AND DETAIL X/AXXX
11	REPLACE CONCRETE TO MATCH EXISTING CONCRETE SIDEWALK. SEE DETAIL 3/A101B
12	UNDERGROUND CONDUIT - SEE ELECTRICAL DRAWINGS.
13	AFTER WORK HAS BEEN PERFOM, INFILL TRENCH, FERTILIZE AND SEED AFFECTED AREA.
14	ELECTRICAL POST - SEE ELECTRICAL DRAWINGS.
15	AFTER ELECTRICAL POLE HAS BEEN REMOVED; INFILL HOLE WITH PAVING, ELEVATION TO MATCH EXISTING.
16	ACCESS TO ATTIC.

LEGEND

NEW WORK

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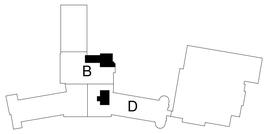
KEY PLAN



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SHEET TITLE

LOWER LEVEL FLOOR PLAN AREA B & D

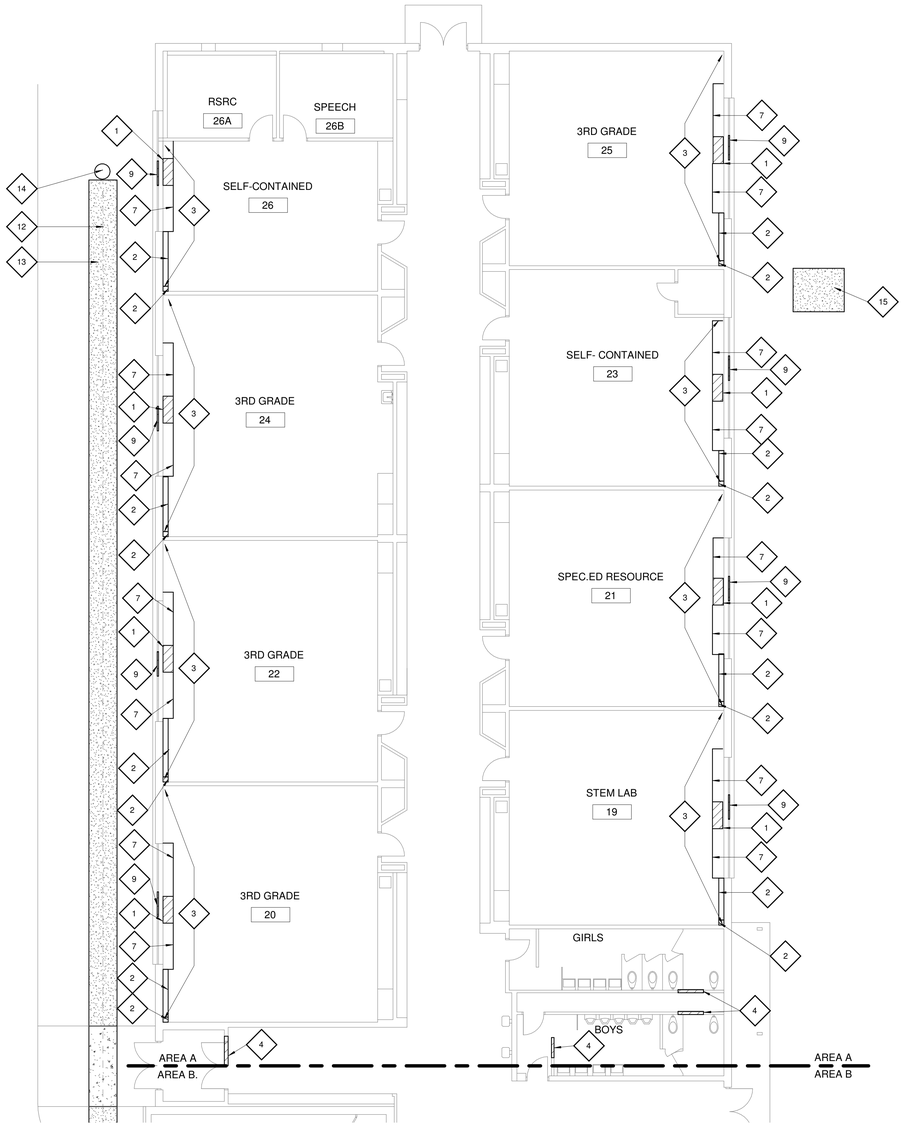
SCALE

Scale: As indicated

SHEET NUMBER

A100A

22006.70 03/11/2022 11:54:43 ROLLING GREEN ELEMENTARY SCHOOL



GENERAL NOTES

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NORTH

1 **FIRST FLOOR PLAN AREA A**

1/8" = 1'-0"

LEGEND

NEW WORK

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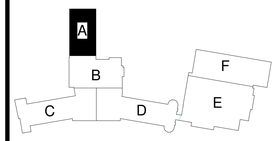

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SHEET TITLE

FIRST FLOOR PLAN AREA A

SCALE

Scale: As indicated

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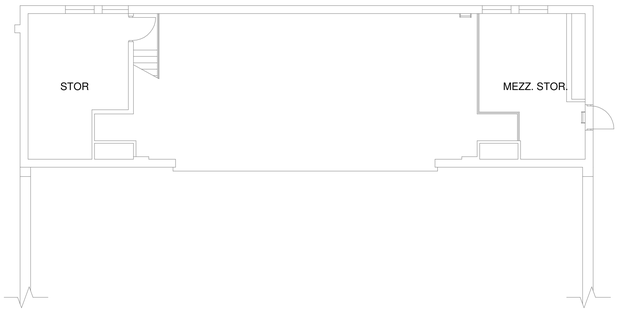
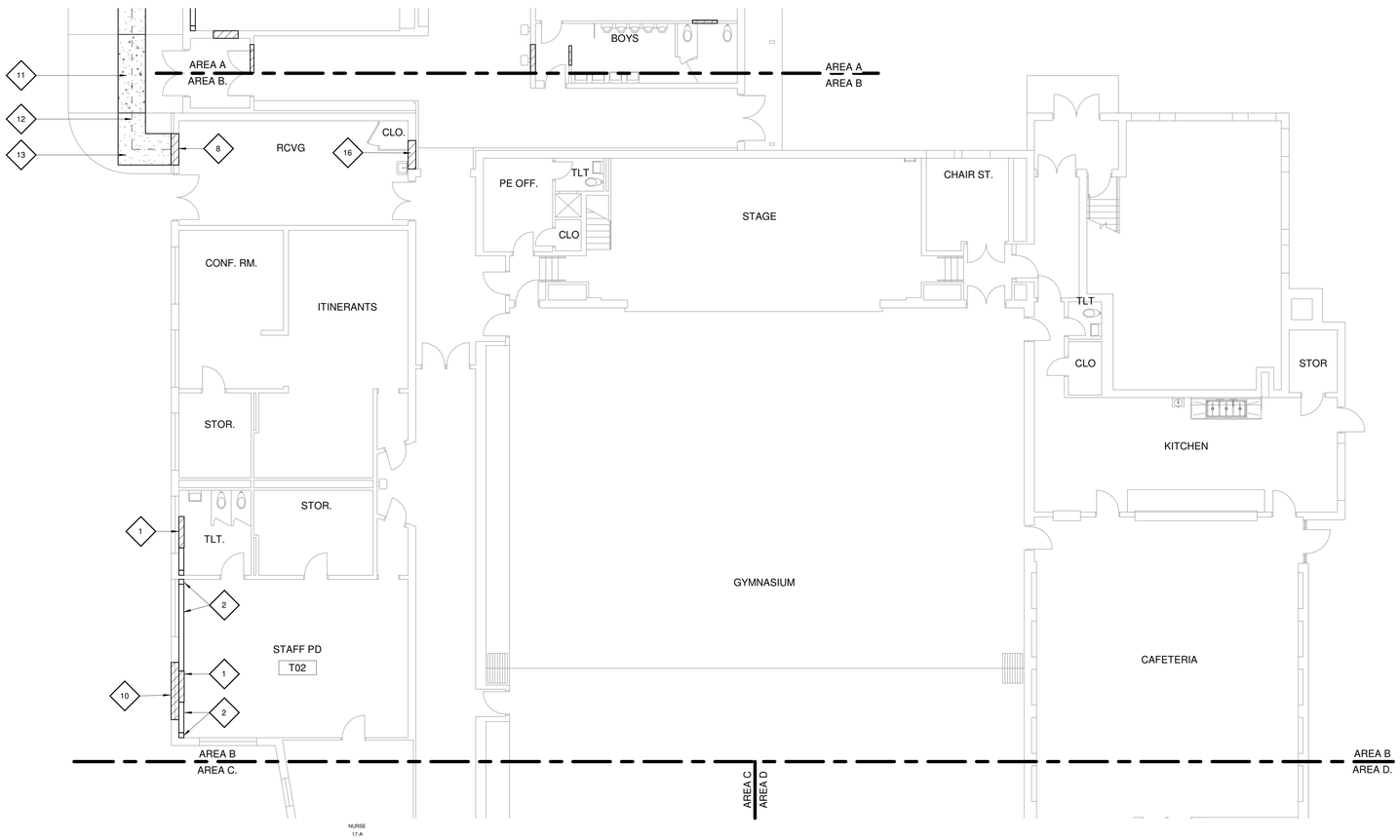
A101A

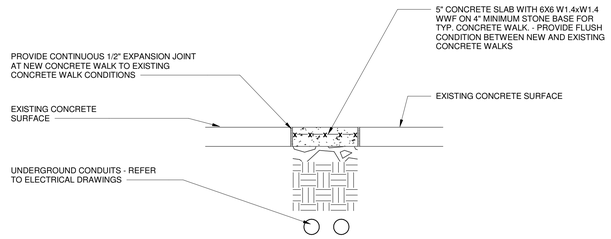
22006.70 03/11/2022 11:54:46 ROLLING GREEN ELEMENTARY SCHOOL



NORTH 2 **UPPER LEVEL FLOOR PLAN**
1/8" = 1'-0"



NORTH 1 **FIRST FLOOR PLAN AREA B**
1/8" = 1'-0"



3 **TYPICAL CONCRETE WALK REPLACEMENT DETAIL**
3/4" = 1'-0"

NEW WORK KEY NOTES

1	MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2	PIPE ENCLOSURE - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3	WHERE MECHANICAL EQUIPMENT IS BEING REPLACED, PATCH, PREP AND PAINT NEWLY EXPOSED WALL SURFACE TO MATCH EXISTING ADJACENT SURFACE.
4	WHERE NEW PIPING HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL- INFILL HOLE TIGHT TO THE NEW PIPING WITH FULL CMU. MATCH THICKNESS AND COURSING.
5	WHERE NEW PIPING HAS BEEN ROUTED THROUGH AN EXISTING FRAMING WALL WITH GYPSUM BOARD/PLASTER - PATCH, PREP AND PAINT WALL TO MATCH EXISTING SURFACE IN COLOR, TEXTURE, AND SHEEN.
6	WHERE EXISTING MECHANICAL EQUIPMENT HAS BEEN REMOVED - INFILL HOLE WITH FULL CMU AND BRICK. MATCH THICKNESS, COLOR, TEXTURE AND COURSING.
7	NEW UNIT VENT ACCESSORY BOOKSHELVES IN ITS ENTIRETY.
8	WHERE ELECTRICAL PIPING HAS BEEN ROUTED THROUGH AN EXISTING EXTERIOR WALL. ON THE INSIDE INFILL HOLE TIGHT TO THE NEW PIPING WITH FULL CMU. ON THE OUTSIDE TOOTH-IN SALVAGED FACEBRICK AT PERIMETER OF OPENING TO MATCH EXISTING COURSING.
9	WHERE AC UNIT WAS REMOVED; PROVIDE GLAZING TO MATCH EXISTING IN R-VALUE AND COLOR.
10	METAL LOUVER - REFER TO MECHANICAL DRAWINGS AND DETAIL X/AXXX
11	REPLACE CONCRETE TO MATCH EXISTING CONCRETE SIDEWALK. SEE DETAIL 3/A101B
12	UNDERGROUND CONDUIT - SEE ELECTRICAL DRAWINGS.
13	AFTER WORK HAS BEEN PERFOM, INFILL TRENCH, FERTILIZE AND SEED AFFECTED AREA.
14	ELECTRICAL POST - SEE ELECTRICAL DRAWINGS.
15	AFTER ELECTRICAL POLE HAS BEEN REMOVED; INFILL HOLE WITH PAVING, ELEVATION TO MATCH EXISTING.
16	ACCESS TO ATTIC.

GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.
2. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS, SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK, WALL MOUNTED SPEAKERS, WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK.
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LEGEND

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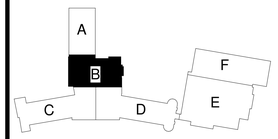
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	CONSTRUCTION DOCUMENTS
Date	November 3, 2022
Job Number	22006.70
Drawn	MI
Checked	MS
Approved	DS/MS

SHEET TITLE
FIRST FLOOR PLAN AREA B

SCALE
Scale: As indicated

SHEET NUMBER
A101B

22006.70 03/11/2022 11:54:48 ROLLING GREEN ELEMENTARY SCHOOL

GENERAL NOTES

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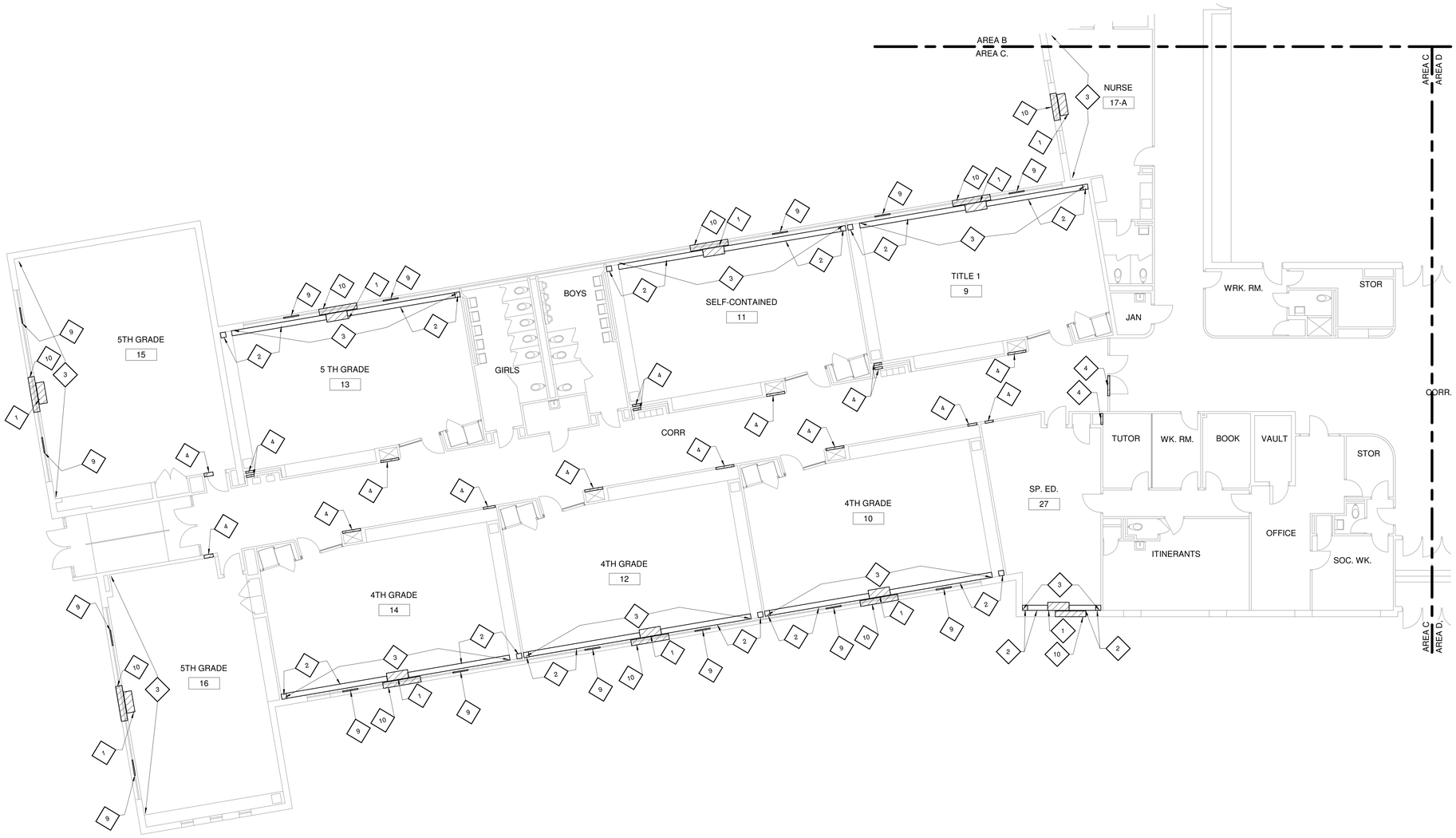

NORTH

1 **FIRST FLOOR PLAN AREA C**

1/8" = 1'-0"

LEGEND

NEW WORK

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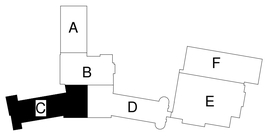

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REVISIONS

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SHEET INFORMATION

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Drawn	**MI**
Checked	**MS**
Approved	**DS/MS**

SHEET TITLE

FIRST FLOOR PLAN AREA C

SCALE

Scale: **As indicated**

SHEET NUMBER

A101C

22006.70 03/11/2022 11:54:49 ROLLING GREEN ELEMENTARY SCHOOL

GENERAL NOTES

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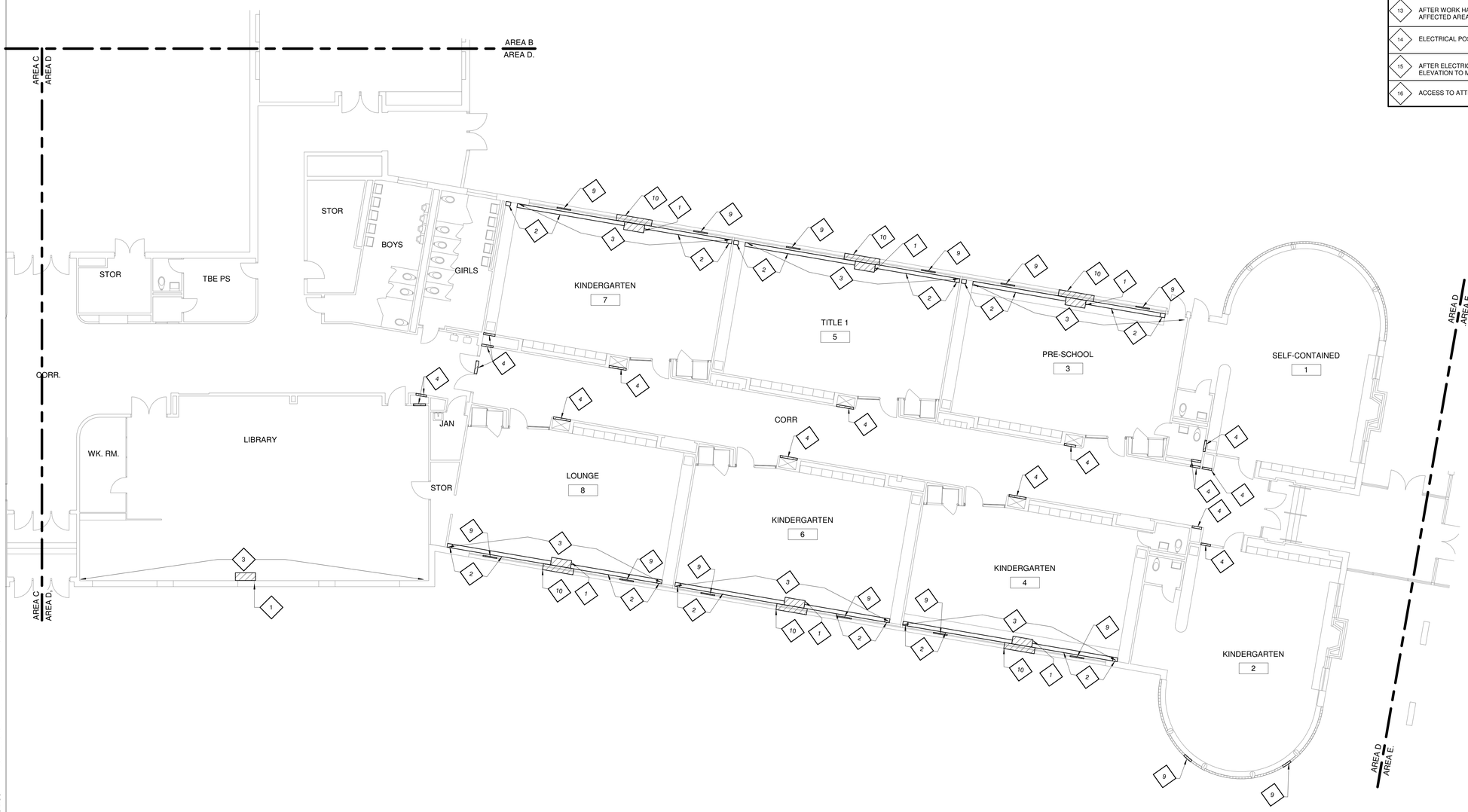

NORTH

1 **FIRST FLOOR PLAN AREA D**

1/8" = 1'-0"

LEGEND

NEW WORK

ROLLING GREEN ELEMENTARY SCHOOL 03/11/2022 11:54:53 22006.70

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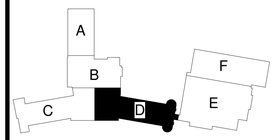
KEY PLAN



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Job Number	**22006.70**
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Checked	**MS**
Approved	**DS/MS**

SHEET TITLE

FIRST FLOOR PLAN AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

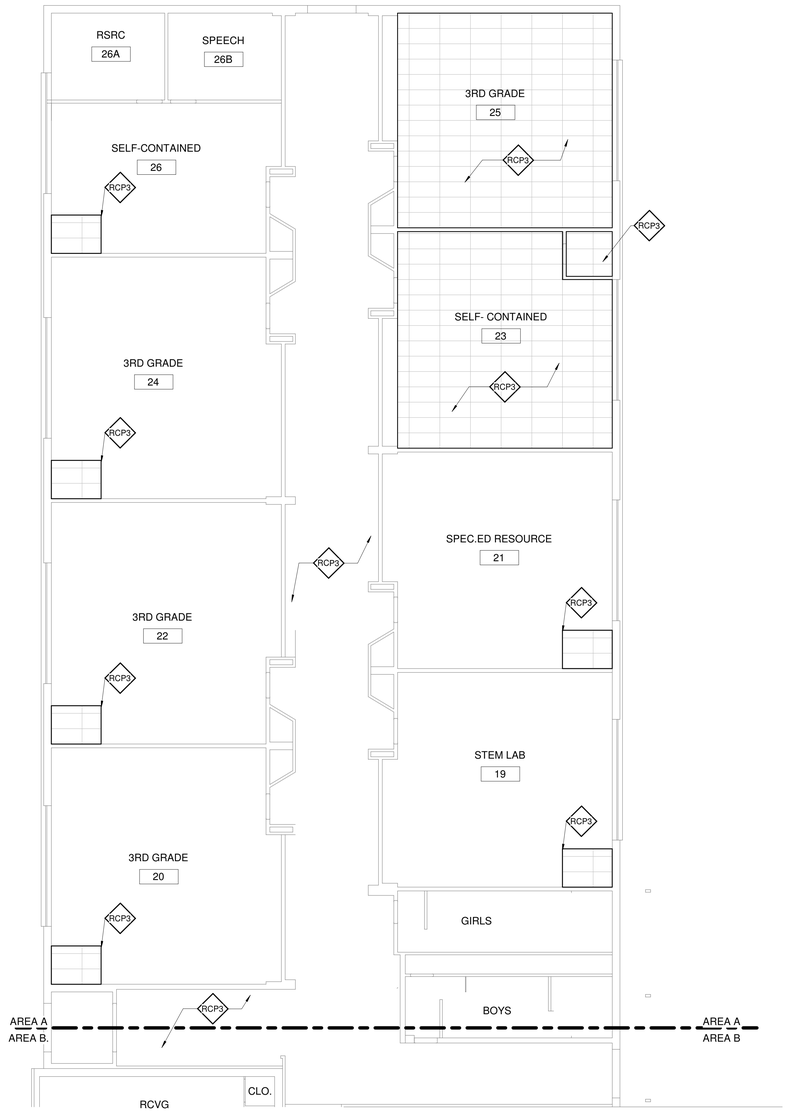
A101D

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.

REFLECTED CEILING PLAN KEY NOTES

RCP1	INSTALL NEW GYPSUM BOARD CEILING, PREP, PATCH AND PAINT. PROVIDE A CLEAN EXPANSION JOINT.
RCP2	INSTALL NEW SUSPENDED ACOUSTICAL CEILING TILE CLOUD.
RCP3	REINSTALL SALVAGED ACOUSTIC CEILING TILE
RCP4	MECHANICAL EQUIPMENT ABOVE ACOUSTIC CEILING TILE SYSTEM- SEE MECHANICAL DRAWINGS AND DETAIL 2/A201D.
RCP5	PROVIDE NEW ACCESS PANEL TO MATCH EXISTING SIZE.



NORTH

1 **FIRST REFLECTED CEILING PLAN AREA A**

1/8" = 1'-0"

CEILING PLAN LEGEND

2X2 SUSPENDED ACT CEILING SYSTEM

GYPSUM BOARD CEILING SYSTEM

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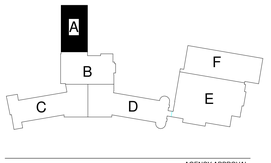

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Checked	**MS**
Approved	**DS/MS**

SHEET TITLE

FIRST REFLECTED CEILING FLOOR PLAN AREA A

SCALE

Scale: **As indicated**

SHEET NUMBER

A201A

22006.70 03/11/2022 11:54:54 ROLLING GREEN ELEMENTARY SCHOOL

CEILING COORDINATION NOTES

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REFLECTED CEILING PLAN KEY NOTES

RCP1	INSTALL NEW GYPSUM BOARD CEILING, PREP, PATCH AND PAINT. PROVIDE A CLEAN EXPANSION JOINT.
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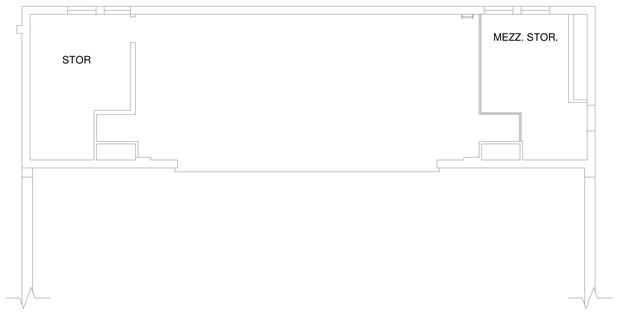
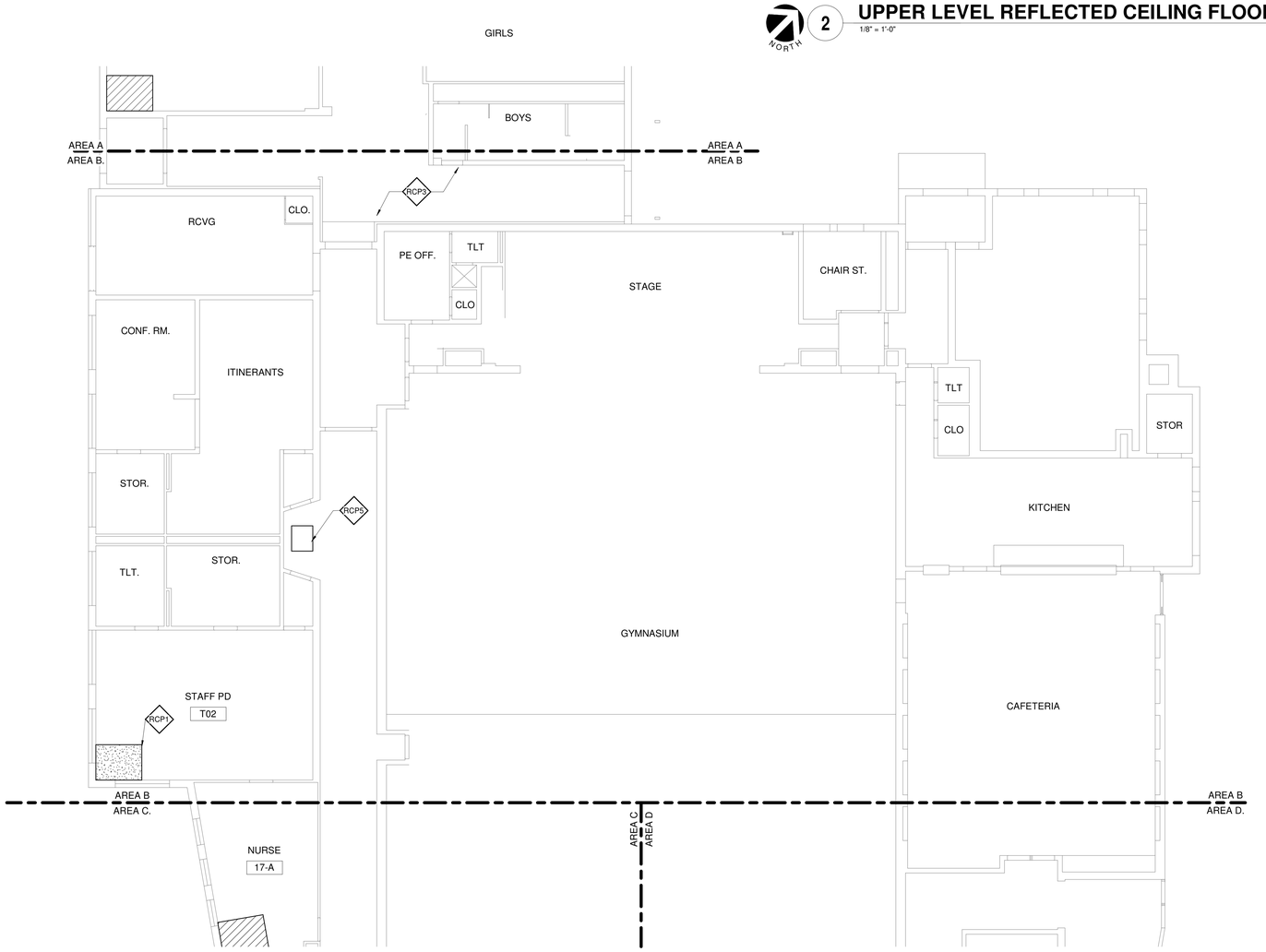


NORTH 2 **UPPER LEVEL REFLECTED CEILING FLOOR PLAN**
1/8" = 1'-0"



NORTH 1 **FIRST REFLECTED CEILING PLAN AREA B**
1/8" = 1'-0"

CEILING PLAN LEGEND

	2X2 SUSPENDED ACT CEILING SYSTEM
	GYPSUM BOARD CEILING SYSTEM

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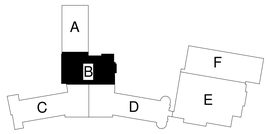

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SCALE
Scale: **As indicated**

SHEET NUMBER
A201B

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RCP5	PROVIDE NEW ACCESS PANEL TO MATCH EXISTING SIZE.

NORTH

1 **FIRST REFLECTED CEILING PLAN AREA C**

1/8" = 1'-0"

CEILING PLAN LEGEND

	2X2 SUSPENDED ACT CEILING SYSTEM
	GYPSUM BOARD CEILING SYSTEM

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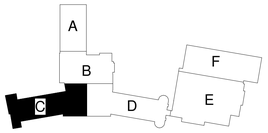

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FIRST REFLECTED CEILING FLOOR PLAN AREA C

SCALE

Scale: **As indicated**

SHEET NUMBER

A201C

22006.70 03/11/2022 11:54:57 ROLLING GREEN ELEMENTARY SCHOOL

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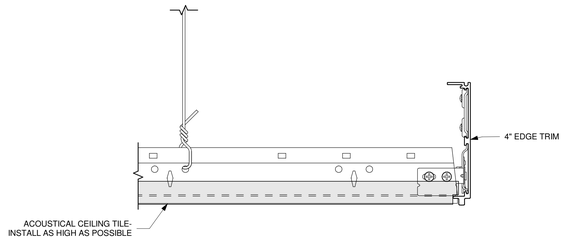
RCP3	REINSTALL SALVAGED ACOUSTIC CEILING TILE
RCP4	MECHANICAL EQUIPMENT ABOVE ACOUSTIC CEILING TILE SYSTEM- SEE MECHANICAL DRAWINGS AND DETAIL 2/A201D.
RCP5	PROVIDE NEW ACCESS PANEL TO MATCH EXISTING SIZE.



2 DETAIL #1

6" = 1'-0"

1 FIRST REFLECTED CEILING PLAN AREA D

1/8" = 1'-0"

NORTH

CEILING PLAN LEGEND

	2X2 SUSPENDED ACT CEILING SYSTEM
	GYPSUM BOARD CEILING SYSTEM

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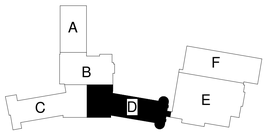
KEY PLAN



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REFERENCE SCALE IN INCHES

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	CONSTRUCTION DOCUMENTS
Date	November 3, 2022
Job Number	22006.70
Drawn	MI
Checked	MS
Approved	DS/MS

SHEET TITLE

FIRST REFLECTED CEILING FLOOR PLAN AREA D

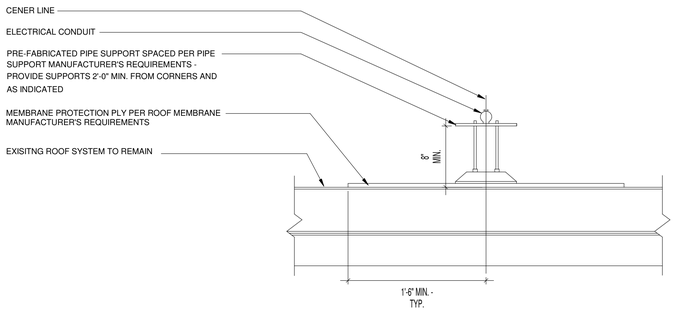
SCALE

Scale: As indicated

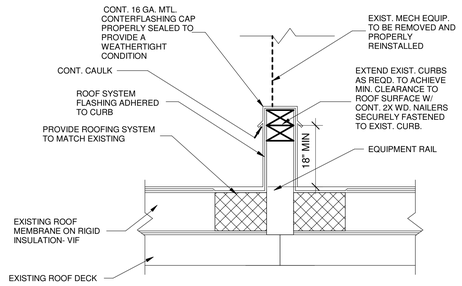
SHEET NUMBER

A201D

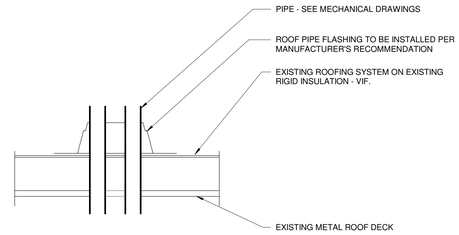
22006.70 03/11/2022 11:55:01 ROLLING GREEN ELEMENTARY SCHOOL



2 TYP. PRE-FABRICATED PIPE SUPPORT
1 1/2" = 1'-0"



3 TYPICAL ROOF CURB AT EXISITNG ROOF
1 1/2" = 1'-0"



4 TYPICAL PIPE ROOF PENETRATION
1 1/2" = 1'-0"

ROOF KEY NOTES

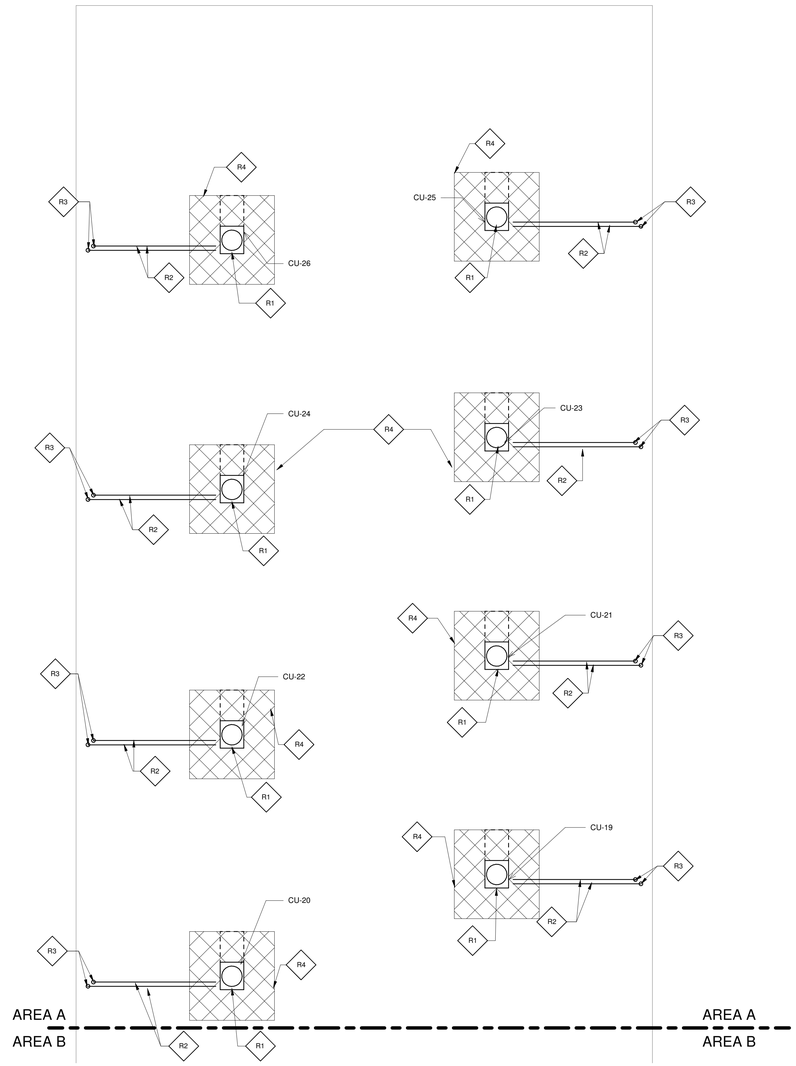
R1	MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS AND DETAIL 3/A202A.
R2	PIPE - SEE MECHANICAL DRAWINGS AND DETAIL 2/A202A.
R3	ROOF PENETRATION - SEE MECHANICAL DRAWINGS AND DETAIL 4/A202A.
R4	PROVIDE WALKWAY PADS ALL SIDES OF MECHANICAL EQUIPMENT.

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.

ROOF NOTE

INSTALL CONDENSING UNITS. 12'-0" MINIMUM AWAY FROM THE EDGE OF THE BUILDING.



NORTH

1 ROOF PLAN AREA A
1/8" = 1'-0"

LEGEND

NEW WORK

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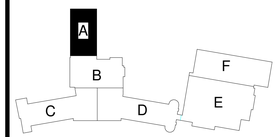
KEY PLAN



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REVISIONS

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SHEET INFORMATION

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Date	November 3, 2022
Job Number	22006.70
Drawn	MI
Checked	MS
Approved	DS/MS

SHEET TITLE
ROOF PLAN AREA A

SCALE
Scale: As indicated

SHEET NUMBER
A301A

22006.70 03/11/2022 11:55:02 ROLLING GREEN ELEMENTARY SCHOOL

ROOF NOTE

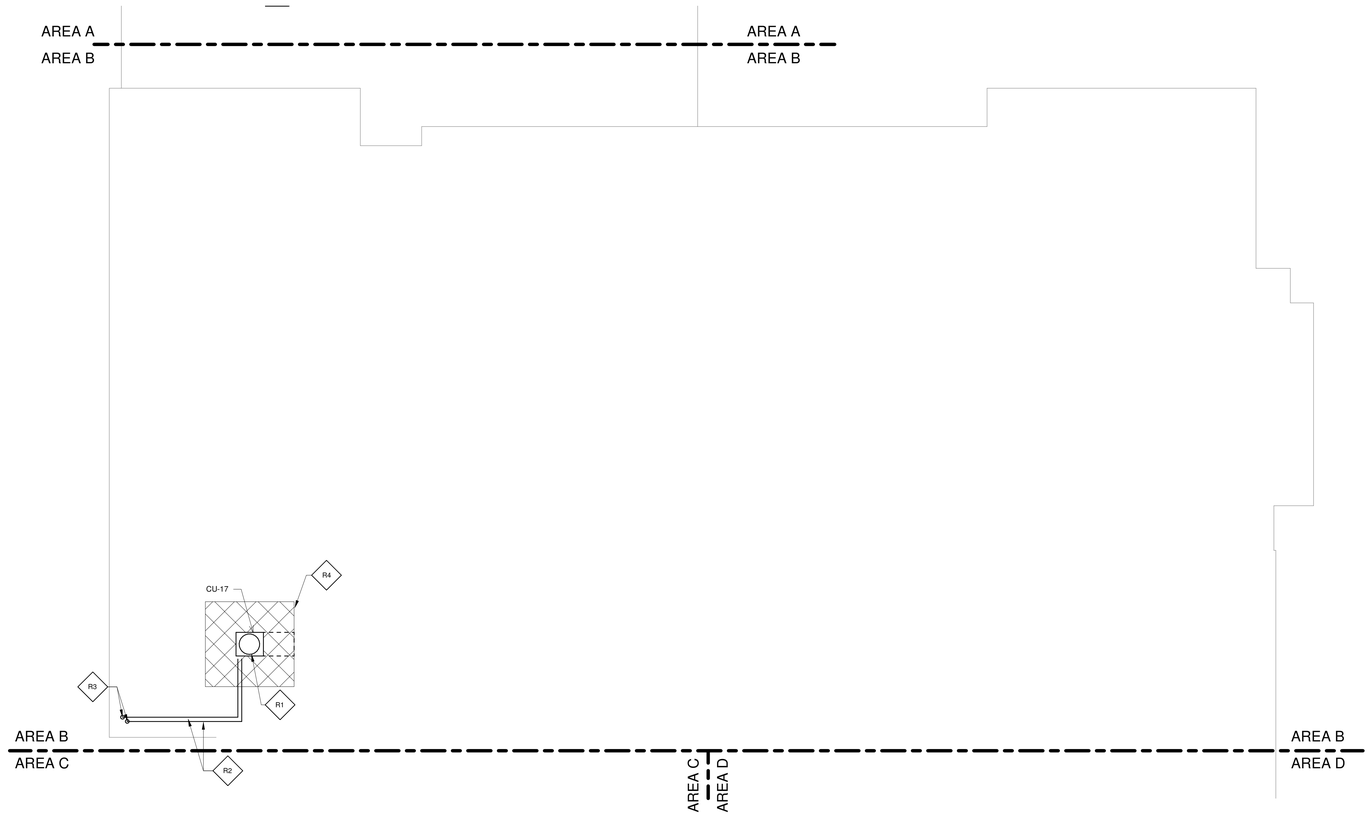
INSTALL CONDENSING UNITS. 12'-0" MINIMUM AWAY FROM THE EDGE OF THE BUILDING.

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.

ROOF KEY NOTES

R1	MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS AND DETAIL 3/A202A.
R2	PIPE - SEE MECHANICAL DRAWINGS AND DETAIL 2/A202A.
R3	ROOF PENETRATION - SEE MECHANICAL DRAWINGS AND DETAIL 4/A202A.
R4	PROVIDE WALKWAY PADS ALL SIDES OF MECHANICAL EQUIPMENT.



NORTH

1 **ROOF PLAN AREA B**

1/8" = 1'-0"

LEGEND

NEW WORK

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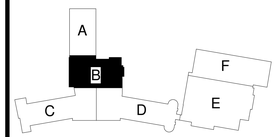

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Approved	**DS/MS**

SHEET TITLE

ROOF PLAN AREA B

SCALE

Scale: **As indicated**

SHEET NUMBER

A301B

22006.70 03/11/2022 11:55:03 ROLLING GREEN ELEMENTARY SCHOOL

ROOF NOTE

INSTALL CONDENSING UNITS. 12'-0" MINIMUM AWAY FROM THE EDGE OF THE BUILDING.

ROOF WARRANTY NOTE

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ROOF KEY NOTES

R1	MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS AND DETAIL 3/A202A.
R2	PIPE - SEE MECHANICAL DRAWINGS AND DETAIL 2/A202A.
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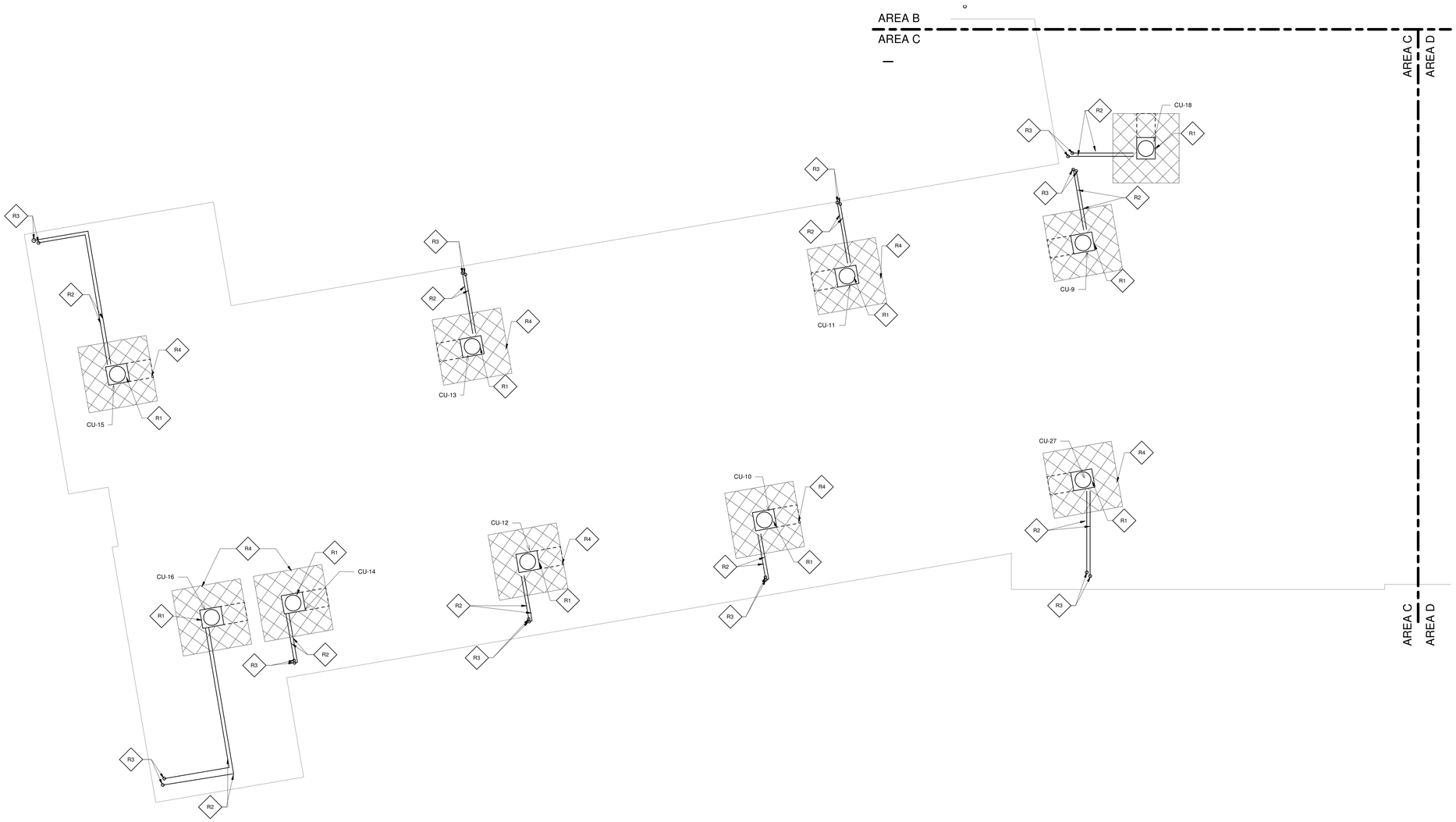

NORTH

1 **ROOF PLAN AREA C**

1/8" = 1'-0"

LEGEND

NEW WORK

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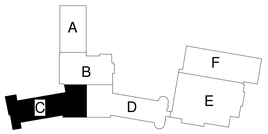
KEY PLAN



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Approved	**DS/MS**

SHEET TITLE

ROOF PLAN AREA C

SCALE

Scale: **As indicated**

SHEET NUMBER

A301C

22006.70 03/11/2022 11:55:04 ROLLING GREEN ELEMENTARY SCHOOL

ROOF NOTE

INSTALL CONDENSING UNITS. 12'-0" MINIMUM AWAY FROM THE EDGE OF THE BUILDING.

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.

ROOF KEY NOTES

R1	MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS AND DETAIL 3/A202A.
R2	PIPE - SEE MECHANICAL DRAWINGS AND DETAIL 2/A202A.
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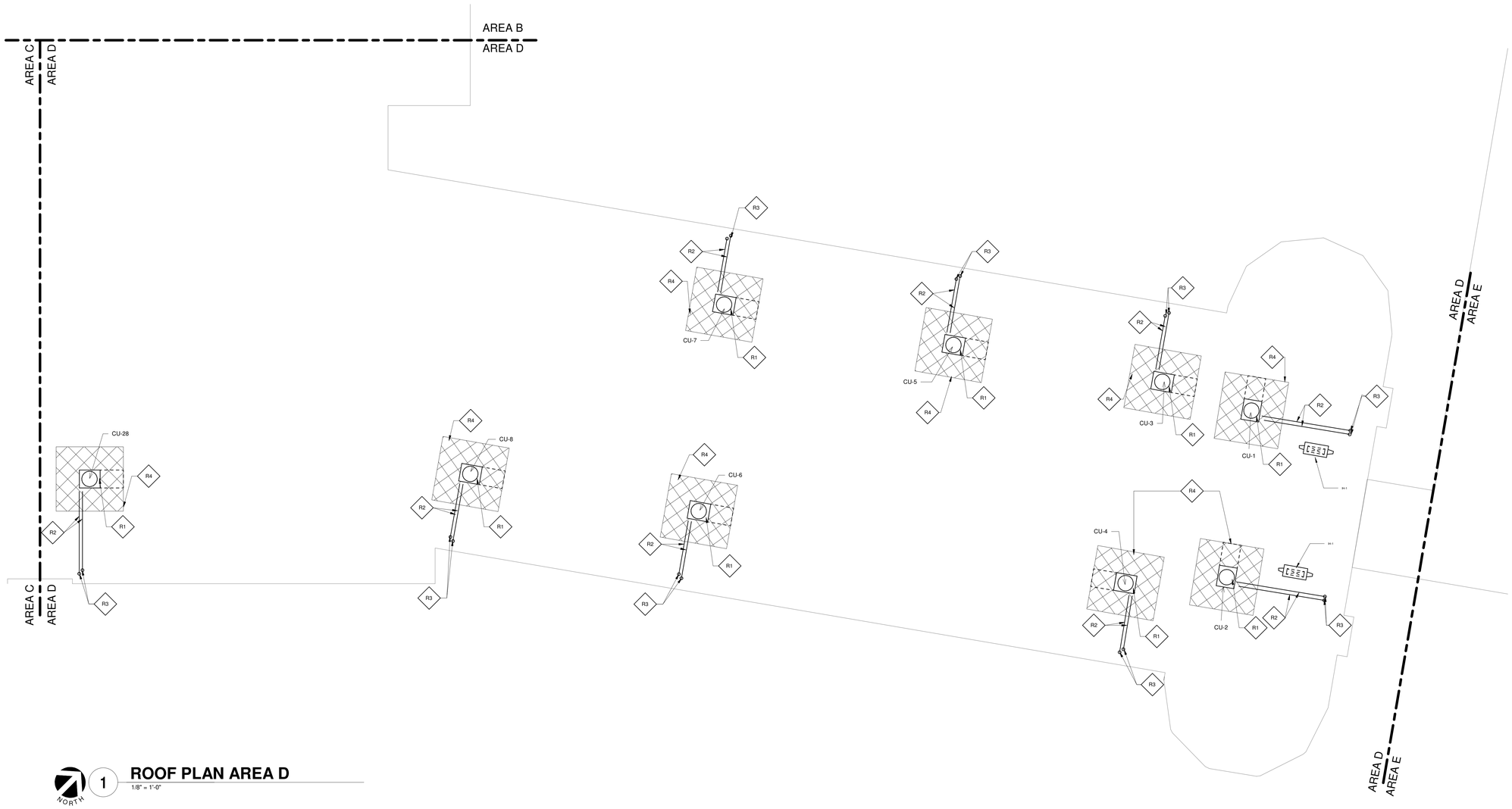

NORTH

1 **ROOF PLAN AREA D**

1/8" = 1'-0"

LEGEND

NEW WORK

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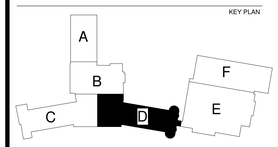

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SHEET TITLE

ROOF PLAN AREA D

SCALE

Scale: **As indicated**

SHEET NUMBER

A301D

VIEW KEY

NAME — LEVEL NAME
10' - 0" — HEIGHT ABOVE PROJECT 0' - 0"

INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME

NORTH — 1 — VIEW NAME — 1/8" = 1'-0"
PLAN OR DETAIL SCALE

SIM — 1 — M101
INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
DETAIL REFERRED TO BY SECTION CUT
SHEET DETAIL IS LOCATED ON

SIM — 1 2 3 4 — T101
INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
DETAIL REFERRED TO BY ELEVATION
SHEET DETAIL IS LOCATED ON

LINE TYPE KEY:

- NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
- NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)
- NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
- EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

MECHANICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
C	COMMON
CB	CATCH BASIN
CD-E	CEILING DIFFUSER - EXISTING
CFSD	CONTROL/FIRE/SMOKE DAMPER
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
DB	DIALYSIS BOX
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
E	EXISTING
EA	EXHAUST/RELIEF AIR
ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
EE	EMERGENCY EYEWASH
EFD	EXISTING FIRE DAMPER
EFSD	EXISTING FIRE SMOKE DAMPER
EP	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
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FS	FLOOR SINK
FSD	FIRE/SMOKE DAMPER
GD	GARBAGE DISPOSER
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MA	MIXED AIR
MB	MOP BASIN
MH	MANHOLE
MV	MIXING VALVE
NC	NEW CONNECTION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NT	NEUTRALIZATION TANK
OA	OUTSIDE AIR
OS	OIL SEPARATOR
PS	PRESSURE SWITCH
RA	RETURN AIR
RD	ROOF DRAIN
SA	SUPPLY AIR
SD	SMOKE DAMPER
SH	SHOWER
SK	SINK
SS	SERVICE SINK
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TP	TRAP PRIMER
TYP	TYPICAL
UB	UTILITY BOX
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WATER HEATER
WMF	WASHING MACHINE FIXTURE
WM	WATER METER
WS	WATER SOFTENER
YCO	YARD CLEANOUT

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
HPC	HIGH PRESSURE CONDENSATE
HW	HOT WATER - POTABLE
HWC	HOT WATER CIRCULATING - POTABLE
HW140	HOT WATER - POTABLE NUMBER INDICATES TEMP
HWC140	HOT WATER CIRC. - POTABLE NUMBER INDICATES TEMP
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
LIQ	REFRIGERANT LIQUID
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LWR	LOOP WATER RETURN
LWS	LOOP WATER SUPPLY
P	PROPANE GAS
PC	PUMPED CONDENSATE
PD	PUMPED DISCHARGE
RO	REVERSE OSMOSIS WATER
SAN	SANITARY DRAINAGE
ST(1,000)	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
STS	STORM DRAINAGE (SECONDARY)
STW	SOFT TEMPERED WATER
SUC	REFRIGERANT SUCTION
SV	SAFETY RELIEF VENT
TW	TEMPERED WATER
V	VENT
W	SERVICE WATER - POTABLE
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
FD	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
RD-1 6"(1000)	ROOF DRAIN PROPERTIES SYMBOL SIZE (ROOF SQ. FT.)
	NEW CONNECTION
	DIELECTRIC CONNECTION
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	BALANCING VALVE (NUMBER INDICATES GPM)
	AUTOMATIC BALANCING VALVE
	MIXING VALVE
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	SOLENOID VALVE
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	PRESSURE REDUCING VALVE (STEAM)
	TRIPLE DUTY VALVE (ANGLE TYPE)
	TRIPLE DUTY VALVE (IN-LINE TYPE)
	PUMP
	VACUUM BREAKER
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
	AUTOMATIC DRAIN VALVE
	AIR PRESSURE MAINTENANCE DEVICE
	AIR SUPERVISORY SWITCH
	ANGLE VALVE
	BUTTERFLY VALVE WITH MONITOR SWITCH
	INSPECTOR TEST AND DRAIN VALVE
	OS&Y GATE VALVE
	OS&Y GATE VALVE WITH MONITOR SWITCH
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	BASKET STRAINER
	FLEXIBLE CONNECTION
	PRESSURE/TEMPERATURE TEST PLUG
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	DIRECTION OF AIR FLOW
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
R	RISE IN DIRECTION OF AIR FLOW
D	DROP IN DIRECTION OF AIR FLOW
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
CD-1 6/115	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
XX-Y	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL Y - SEQUENTIAL NUMBER
ACT	ACTUATOR
DS	DOOR SWITCH
DP	DIFFERENTIAL PRESSURE SWITCH
CS	CURRENT SWITCH
VS	VIBRATION SWITCH
FM	FLOW METER
	FAN
MTR	MOTOR
R	CONTACTOR
	NORMALL CLOSED CONTACT
	NORMALLY OPEN CONTACT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT

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, 1/2, 3/4 HOUR FIRE WALLS, UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 09/12/2022.

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

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
FM	FLOW METER
F	FLOW SWITCH
FS	FLOW SENSOR
FS	AIR FLOW SWITCH
FM	DUCT FLOW METER
P	PRESSURE SWITCH
	MONITOR SWITCH
P	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	DIFFERENTIAL PRESSURE SENSOR
P	PRESSURE SENSOR (DUCT MOUNTED)
SP	STATIC SWITCH
T	THERMOSTAT
T	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
T	TEMPERATURE SENSOR (DUCT MOUNTED)
T	TEMPERATURE SENSOR WITH WELL
T	THERMOMETER WITH WELL (DIAL TYPE)
	THERMOMETER WITH WELL (FILLED TYPE)
T	AVERAGING TEMPERATURE SENSOR
T	LOW LIMIT TEMPERATURE SWITCH
T	PROBE TEMPERATURE SENSOR
H	HUMIDISTAT SENSOR
H	HUMIDISTAT / SENSOR
H	HUMIDITY SENSOR (DUCT MOUNTED)
C	CARBON MONOXIDE SENSOR
C 2	CARBON DIOXIDE SENSOR
C	CARBON MONOXIDE SENSOR (DUCT MOUNTED)
C 2	CARBON DIOXIDE SENSOR (DUCT MOUNTED)

PROJECT ALTITUDE:	1000.00 FT. ABOVE SEA LEVEL

MECHANICAL DESIGN CONDITIONS:

DESIGN CONDITIONS: BASED ON WEATHER DATA FOR: {ROCKFORD, ILLINOIS}

SUMMER:	91.1°F DRY BULB, 75°F WET BULB
WINTER:	-9.6°F DRY BULB

TYPICAL ROOM SETPOINTS:

SUMMER DESIGN:	75°F DRY BULB, ##% RELATIVE HUMIDITY {NO HUMIDITY REQUIREMENT}
WINTER DESIGN:	70°F DRY BULB, ##% RELATIVE HUMIDITY {NO HUMIDITY REQUIREMENT}
SUMMER SETBACK:	77°F DRY BULB, ##% RELATIVE HUMIDITY {NO HUMIDITY REQUIREMENT}
WINTER SETBACK:	68°F DRY BULB, ##% RELATIVE HUMIDITY {NO HUMIDITY REQUIREMENT}

REFER TO CONTROL DIAGRAMS FOR ROOM SPECIFICS.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

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 ACCESS.
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 DESIGN.
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 FINISH.
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 MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
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.

PIPING GENERAL NOTES:

1. THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS 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.

VENTILATION GENERAL NOTES:

1. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
2. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.

TEMPERATURE CONTROL GENERAL NOTES:

1. REFER TO EQUIPMENT SCHEDULES TO CROSS REFERENCE WHICH CONTROL DIAGRAMS APPLY TO WHICH ITEMS OF EQUIPMENT. REFER TO TERMINAL AIR BOX (TAB) SCHEDULES FOR TEMP SENSOR REQUIREMENTS FOR EACH TAB.
2. 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 OTHERWISE.

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, VENTILATION, PIPING AND TEMPERATURE CONTROL.

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 CONDITIONS.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING] [EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
7. 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.
8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
9. 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.
10. 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.
11. [NTD DETERMINE IF REQUIRED BY OWNER] DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

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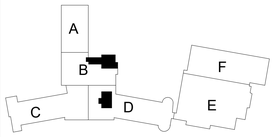
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.12
Drawn	KEAHAR
Checked	KEVPOP
Approved	BRAPIE

SHEET TITLE

MECHANICAL, PLUMBING AND FIRE PROTECTION COVER SHEET

SCALE

Scale: As indicated

SHEET NUMBER

M000

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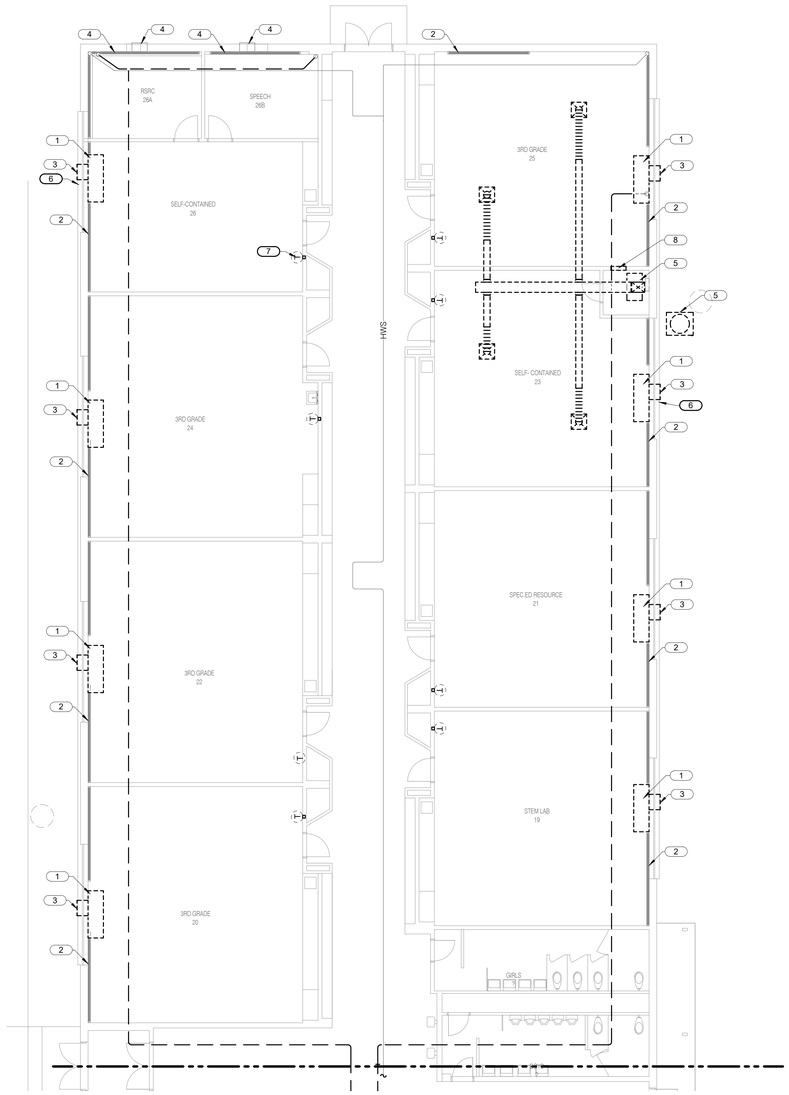
GENERAL DEMOLITION NOTES :

1. REMOVE EXISTING HW AND HWR PIPING, ACCESSORIES AND SUPPORTS IN THE EXISTING RADIATORS. RETAIN COVERS FOR REINSTALLATION. PIPING IN TUNNELS EZISTING TO REMAIN.

KEYNOTES:

1. DEMO EXISTING UNIT VENTILATOR AND ADJACENT ACCESSORY BOOKCASE. CAP HWS/HWR PIPING FOR REUSE. TYPICAL.
2. DEMO EXISTING FIN TUBES AND CAP TEES SERVING FIN TUBE. RETAIN FIN TUBE COVERS TO REINSTALL AND HIDE ALL PIPING. PROVIDE FITTINGS AND ADDITIONAL PIPING AS REQUIRED TO KEEP MAINS ACTIVE TO SERVE NEW UV-#S. TYPICAL.
3. DEMOLISH EXISTING THROUGH THE WALL AC UNITS. TYPICAL.
4. EXISTING RADIANT HEATER AND THRU THE WALL AC UNIT TO REMAIN.
5. DEMO EXISTING AHU AND ALL CORRESPONDING DUCTWORK, GRILLES, HWS/R PIPINING AND CONDENSING UNIT.
6. MODIFY EXISTING FRESH AIR OPENING AS REQUIRED TO ACCOMIDATE NEW UV. TYPICAL.
7. DEMO EXISTING T-STAT AND RETAIN WALL BOX FOR REUSE. TYPICAL.
8. DEMO EXISTING WALL PENETRATION AND CORRESPONDING GRILLE. SEE ARCHITECTUAL DRAWING FOR PATCHING INFORMATION.
9. DEMO ESITING UNIT VENTILATOR, RETAIN BOOKCASE TO REINSTALL AROUND UV. CAP HWS/R PIPING FOR REUSE. TYPICAL.



1 FIRST FLOOR DEMOLITION - MECHANICAL - AREA A

1/8" = 1'-0"

NORTH

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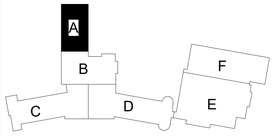
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

FIRST FLOOR DEMOLITION - MECHANICAL - AREA A

SCALE

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

SHEET NUMBER

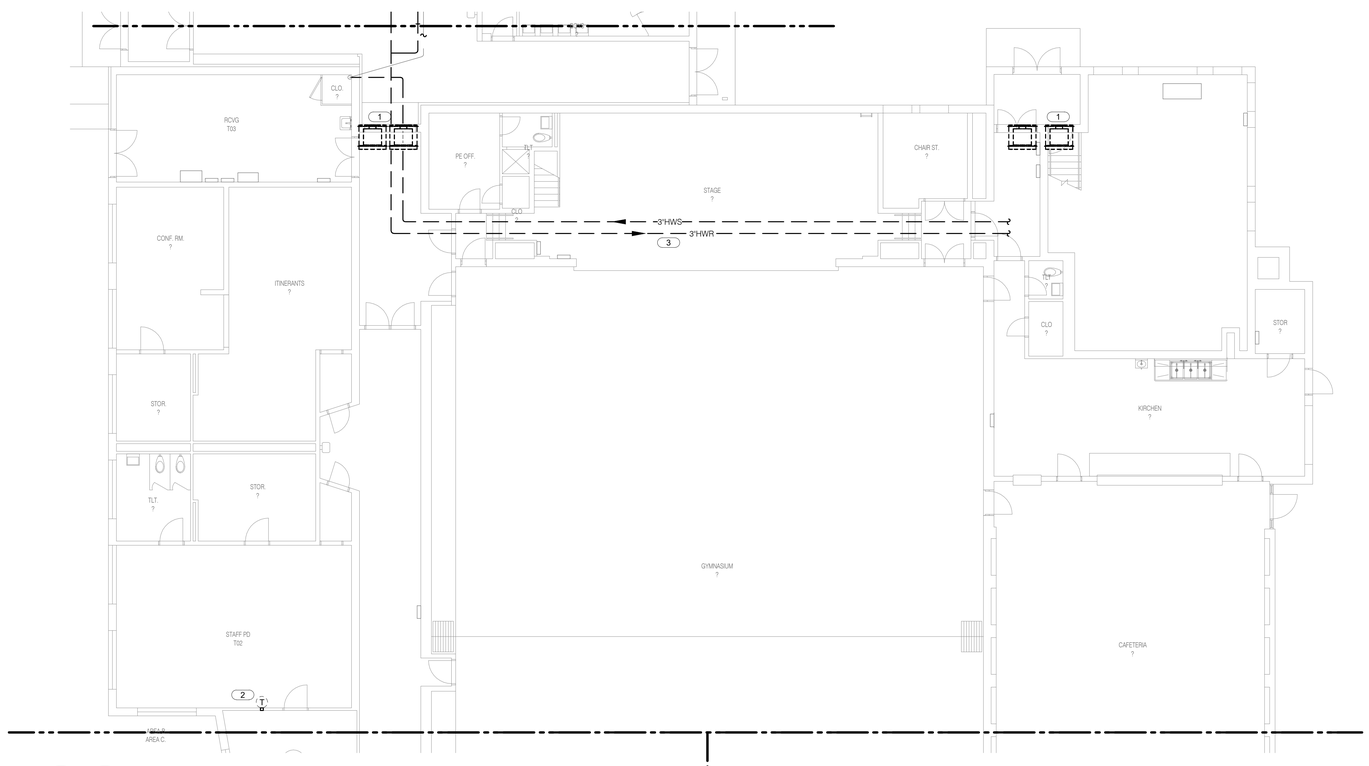
M101A

GENERAL DEMOLITION NOTES :

1. REINSULATE ALL HWS/R PIPING AND CONDENSATE PIPING THAT IS EXPOSED IN REMODEL AREAS.

KEYNOTES:

1. DEMO EXISTING EXHAUST FAN IN PENTHOUSE. REPLACE WITH NEW FAN. TYPICAL.
2. DEMO EXISTING T-STAT AND RETAIN WALL BOX FOR REUSE. TYPICAL.
3. EXISTING HWS/R PIPING TO REMAIN. TYPICAL.



NORTH

2 FIRST FLOOR DEMOLITION - MECHANICAL - AREA B

1/8" = 1'-0"

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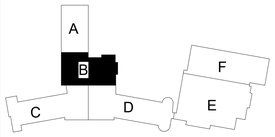

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Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

FIRST & UPPER FLOOR DEMOLITION - MECHANICAL - AREA B

SCALE

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

SHEET NUMBER

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PROJECT #21002885.12

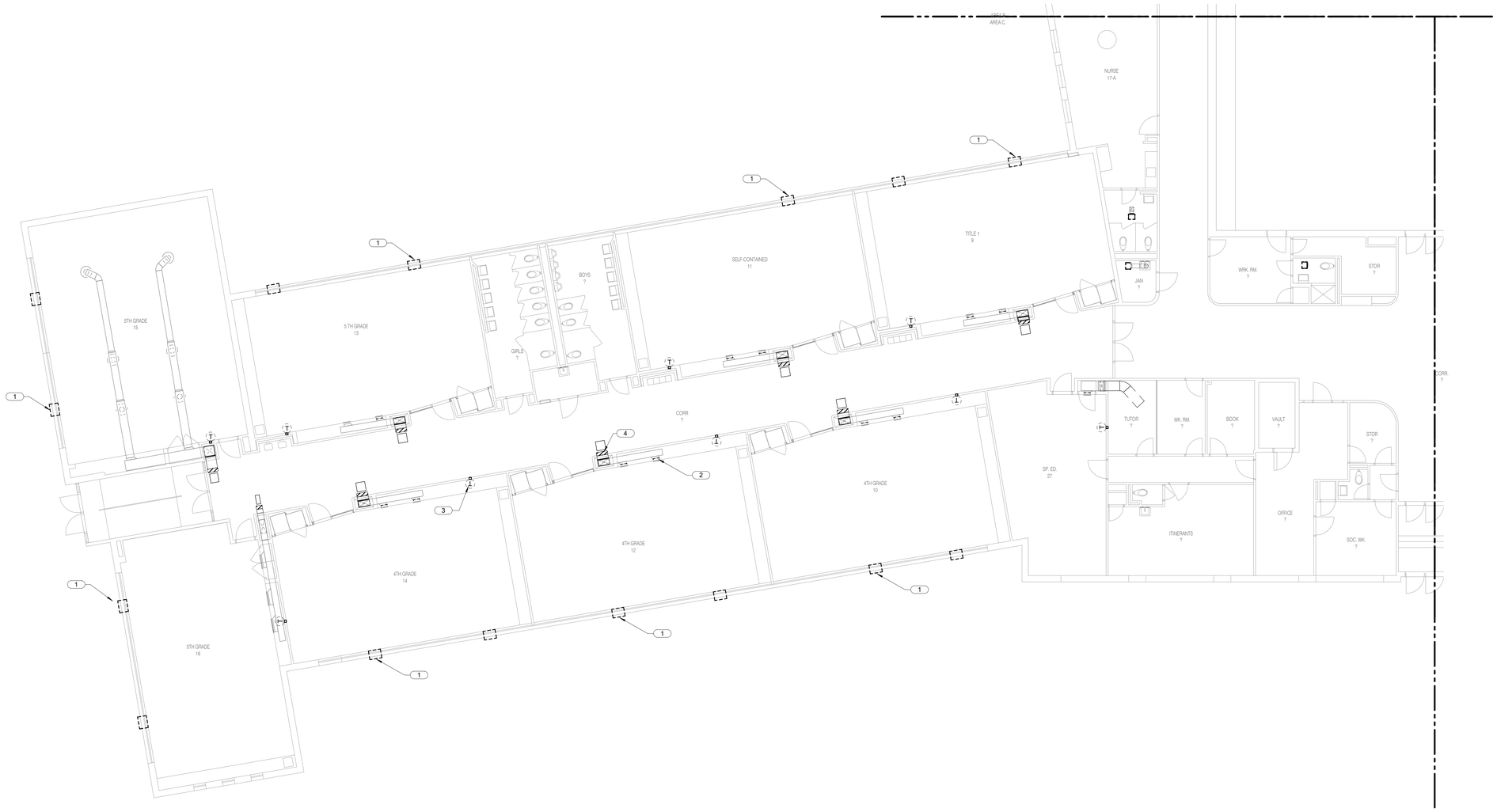
21002885.12 11/1/2022 4:47:21 PM ESSER HVAC Improvements - Rolling Green Elementary School

GENERAL DEMOLITION NOTES :

1. REINSULATE ALL HWS/R PIPING AND CONDENSATE PIPING THAT IS EXPOSED IN REMODEL AREAS.

KEYNOTES:

1. DEMOLISH EXISTING THROUGH THE WALL AC UNITS. TYPICAL.
2. DEMO AND CAP EXISTING VENTS. RETAIN GRILLES TO COVER WALL OPENINGS. DISCONNECT EXISTING CONTROL SYSTEMS FROM HW COILS. TYPICAL.
3. DEMO EXISTING T-STAT AND RETAIN WALL BOX FOR REUSE. TYPICAL.
4. CAP DUCT RISER IN CRAWL SPACE. DISCONNECT AND CAP PNEUMATIC TUBING AS REQUIRED. TYPICAL.



NORTH

1 FIRST FLOOR DEMOLITION - MECHANICAL - AREA C

1/8" = 1'-0"

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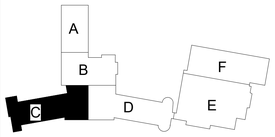

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Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

FIRST FLOOR DEMOLITION - MECHANICAL - AREA C

SCALE

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

SHEET NUMBER

M101C

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REF. SCALE IN INCHES

PROJECT #21002885.12

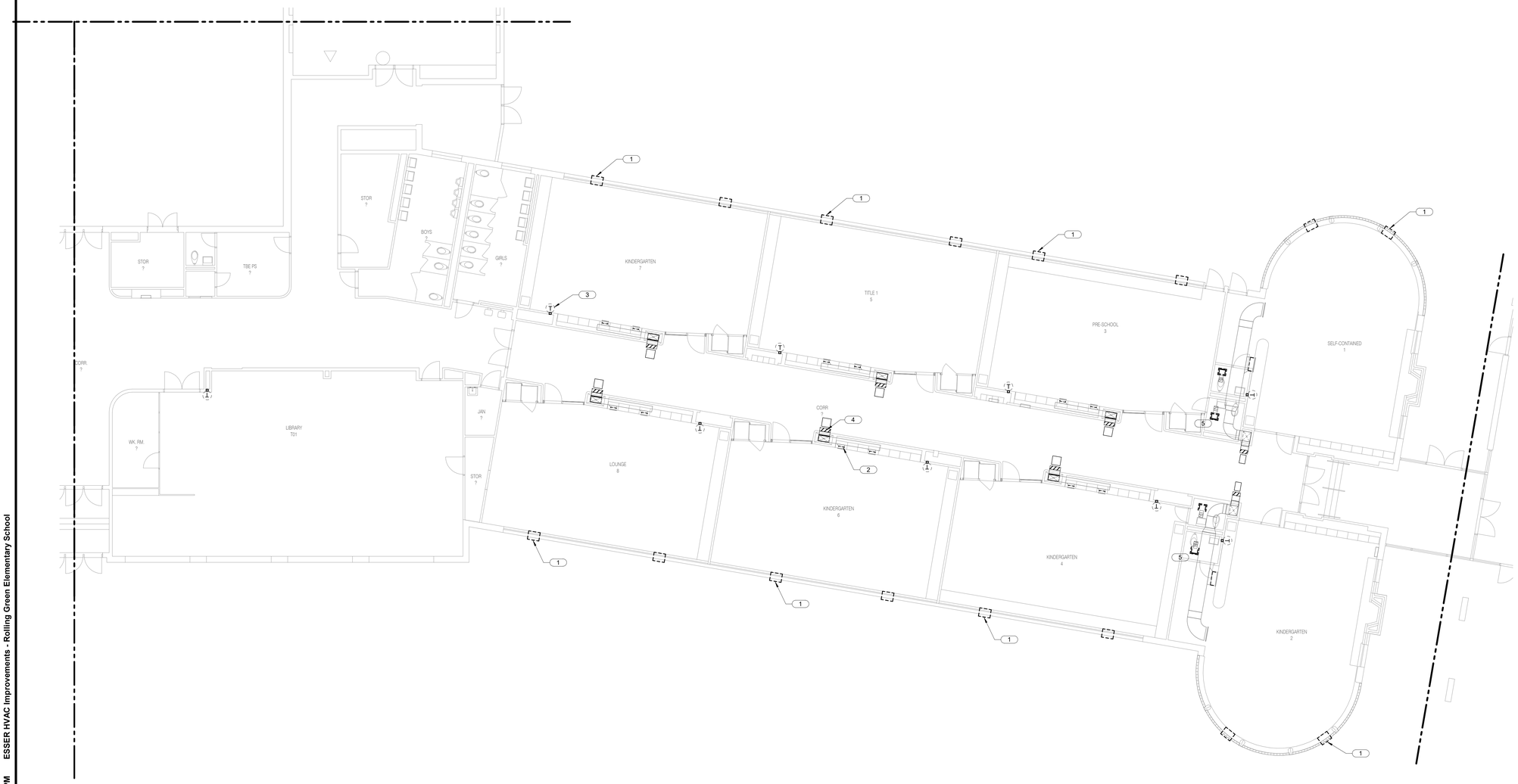
21002885.12 11/1/2022 4:47:23 PM ESSER HVAC Improvements - Rolling Green Elementary School

GENERAL DEMOLITION NOTES :

1. REINSULATE ALL HWS/R PIPING AND CONDENSATE PIPING THAT IS EXPOSED IN REMODEL AREAS.

KEYNOTES:

1. DEMOLISH EXISTING THROUGH THE WALL AC UNITS. TYPICAL.
2. DEMO AND CAP EXISTING VENTS. RETAIN GRILLES TO COVER WALL OPENINGS. DISCONNECT EXISTING CONTROL SYSTEMS FROM HW COILS. TYPICAL.
3. DEMO EXISTING T-STAT AND RETAIN WALL BOX FOR REUSE. TYPICAL.
4. CAP DUCT RISER IN CRAWL SPACE. DISCONNECT AND CAP PNEUMATIC TUBING AS REQUIRED. TYPICAL.
5. DEMO EXISTING EXHAUST FAN. CAP DUCTWORK FOR RECONNECTION TO NEW FAN. TYPICAL.



1 FIRST FLOOR DEMOLITION - MECHANICAL - AREA D

1/8" = 1'-0"

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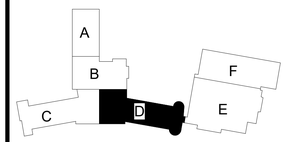

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

FIRST FLOOR DEMOLITION - MECHANICAL - AREA D

SCALE

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

SHEET NUMBER

M101D

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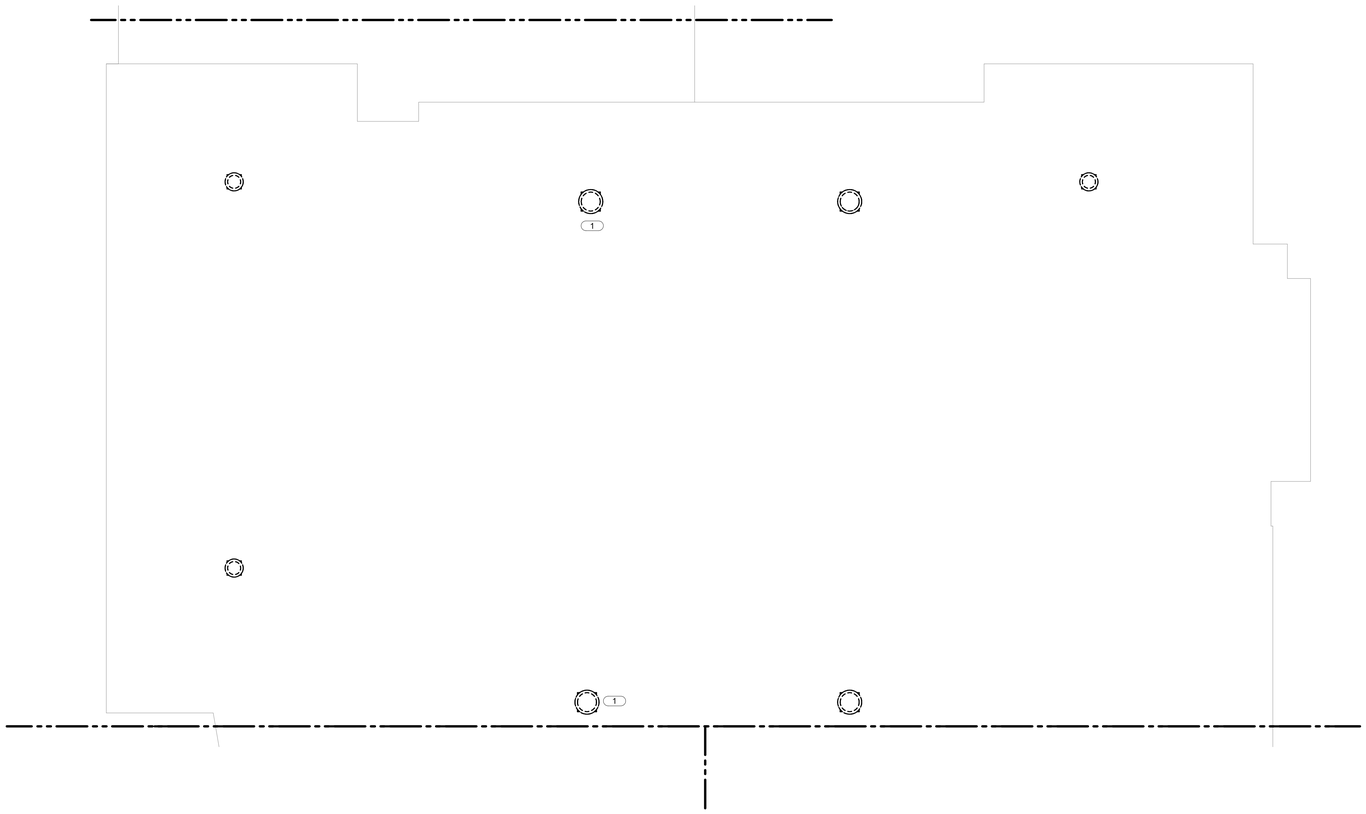
REF. SCALE IN INCHES PROJECT #21002885.12

KEYNOTES:

1. DEMO EXISTING EXHAUST FAN, CAP DUCTWORK FOR RECONNECTION TO NEW FAN. TYPICAL.



NORTH

1 ROOF DEMOLITION - MECHANICAL - AREA B

1/8" = 1'-0"

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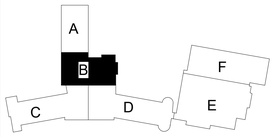
KEY PLAN



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Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

ROOF DEMOLITION - MECHANICAL - AREA B

SCALE

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

SHEET NUMBER

M102B

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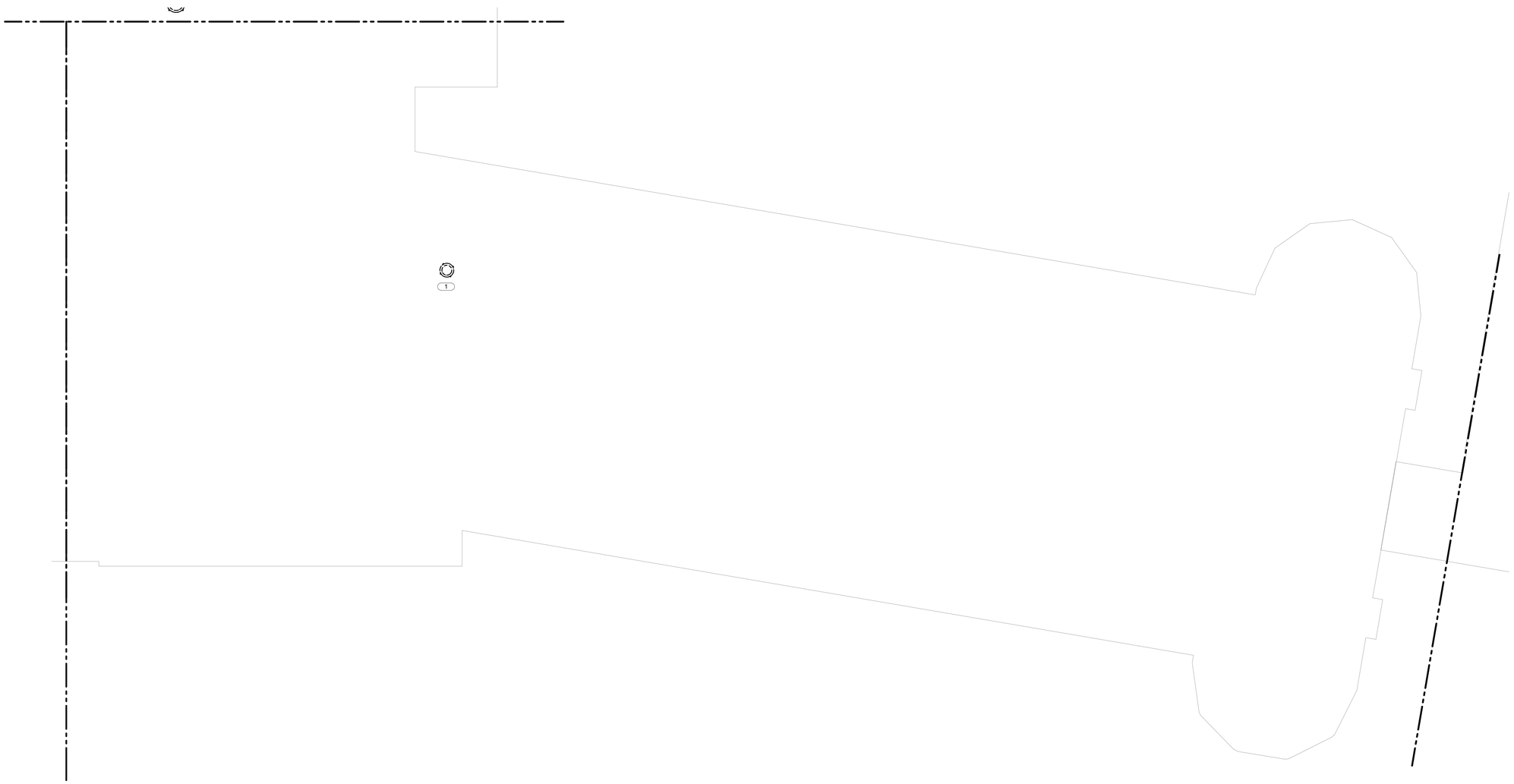
REF. SCALE IN INCHES

PROJECT #21002885.12

KEYNOTES:

1. DEMO EXISTING EXHAUST FAN. CAP DUCTWORK FOR RECONNECTION TO NEW FAN. TYPICAL.



NORTH

1 ROOF DEMOLITION - MECHANICAL - AREA D

1/8" = 1'-0"

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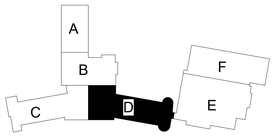

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Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

ROOF DEMOLITION - MECHANICAL - AREA D

SCALE

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

SHEET NUMBER

M102D

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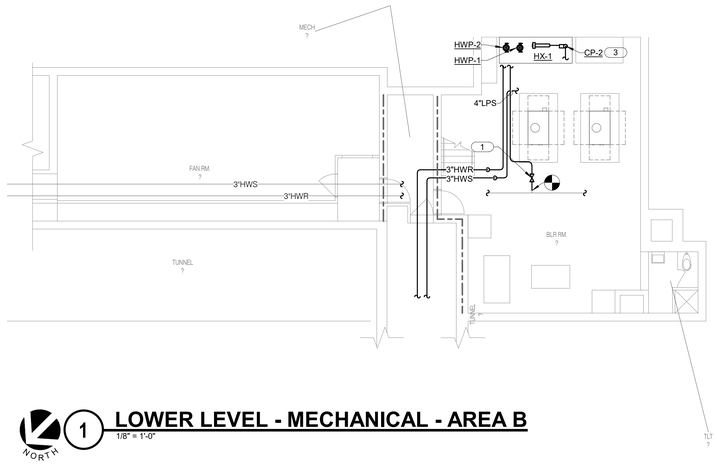
REF. SCALE IN INCHES

PROJECT #21002885.12

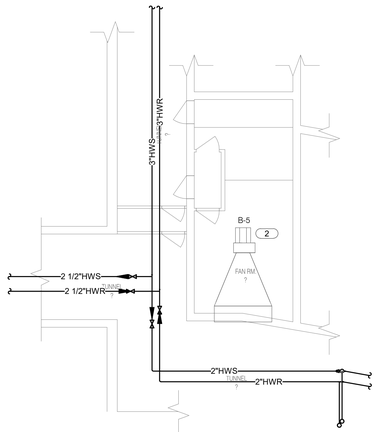
KEYNOTES:

1. CONNECT LPS TO EXISTING STEAM HEADER VALVE AND EXTEND TO NEW STEAM TO WATER HEAT EXCHANGER.
2. REPLACE EXISTING 15HP FAN MOTOR AND ADD VFD FOR EXISTING AHU.
3. CONDENSATE PUMP DISCHARGE TO BOILER FEED WATER TANK INLET PIPING.



1 LOWER LEVEL - MECHANICAL - AREA B

1/8" = 1'-0"



2 LOWER LEVEL - MECHANICAL - AREA D

1/8" = 1'-0"

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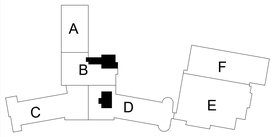

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Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

LOWER LEVEL - MECHANICAL

SCALE

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

SHEET NUMBER

M200

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REF. SCALE IN INCHES

PROJECT #21002885.12

STRUCTURAL SHEET NOTES:

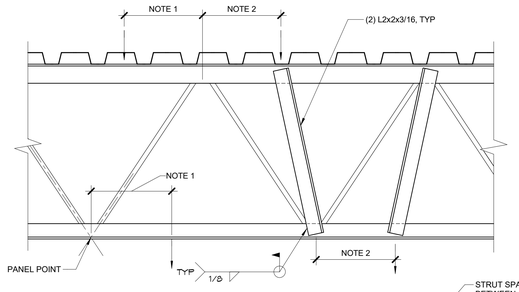
1. ONLY STRUCTURAL MEMBERS APPLICABLE TO REINFORCEMENT OF WALLS DUE TO NEW OPENINGS SHOWN.
2. MATERIALS:
   A. STRUCTURAL STEEL ANGLES SHALL CONFORM TO ASTM A36.
   B. WIDE FLANGE MEMBERS SHALL CONFORM TO ASTM A992.
   C. ELECTRODES FOR ARC WELDING SHALL CONFORM TO AWS 5.1, E70XX.
3. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER. NO HOLES SHALL BE CUT IN STRUCTURAL STEEL BY OTHER TRADES UNLESS SHOWN ON STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
4. EXISTING CONDITIONS:
   A. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS DATED JANUARY 30, 1950 BY GILBERT A. JOHNSON ARCHITECT AND JUNE 15, 1962 BY BRADLEY & BRADLEY ARCHITECTS AND ENGINEERS.
   B. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE SEOR SO PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
5. SHOP DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
6. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE STRUCTURAL ENGINEER SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE STRUCTURAL ENGINEER.
7. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS IN RELATION TO THE STRUCTURAL PLAN AND DETAIL AND SHOWN FOR DUCTS, PIPE, INSERTS, AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
8. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
9. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
10. DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
11. STRUCTURAL FRAMING MEMBERS SHALL NOT BE CUT OR REMOVED. MODIFICATION OF STRUCTURAL FRAMING IS ONLY ACCEPTABLE AS SHOWN IN DETAILS 2, 3, 4 AND 5 OF THIS SHEET.
12. FOR MEP ITEMS BEING ATTACHED TO EXISTING JOIST AS WORK DONE FOR THIS PROJECT SEE DETAIL 2/M201A.
13. L# INDICATES LINTEL IN CMU WALL. FOR LINTELS IN NON LOAD BEARING WALLS SEE DETAIL 5/M201A.

GENERAL VENTILATION NOTES :

1. ALL PIPING BELOW 6' AFF SHALL BE ENCLOSED IN A FIELD BUILD SHEET METAL SHROUD, PRIMED AND READY FOR FIELD PAINTING. PIPING ABOVE 6' WILL BE ROUTED WITH PIPING SUPPORTS. SEE M400 SERIES OF DRAWINGS FOR MORE INFORMATION.

KEYNOTES:

1. SEE DETAIL ON M400 SERIES OF DRAWINGS FOR MORE INFORMATION.
2. CONNECT NEW UNIT VENTILATOR TO EXISTING PIPING MAINS ROUTED ALONG THE EXTERIOR WALL OF THE BUILDING. TYPICAL.
3. INSTALL NEW THERMOSTAT IN EXISTING WALL BOX. PROVIDE ADAPTER PLATE AS NECESSARY. TYPICAL.
4. ROUTE NEW HORIZONTAL REFRIGERANT PIPING UNDER EXISTING FIN TUBE COVER. COVER VERTICAL PIPING FROM CEILING PENETRATION TO FIN TUBE COVER. TYPICAL.

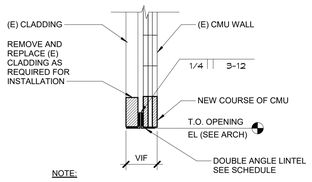


NOTES:

1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED.
2. FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

2 JOIST MODIFICATION DETAIL

1 1/2" = 1'-0"



NOTE:

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

3 DOUBLE ANGLE LINTEL DETAIL AT EXISTING

NO SCALE

1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION.
2. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER SIMILAR TO THE IDENTIFIED LOCATIONS. LINTELS OCCURRING IN EXISTING BEARING WALLS ARE TO BE SIZED ACCORDING TO SIMILAR CONDITIONS AND SPANS IN THE NEW CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" WIDE OR LESS AND AT LEAST 1 COURSE BELOW THE TOP OF WALL.
3. LINTELS IN NON-BEARING MASONRY CAN BE SIZED PER THE FOLLOWING:

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"	L6 1/2x3 1/2x3/8 (LLV)

*ALL ANGLES THAT ARE BACK-TO-BACK SHALL BE WELDED TOP AND BOTTOM 3" @ 12" OC MINIMUM.

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.

5 LINTEL GENERAL NOTES

NO SCALE

LINTEL SCHEDULE

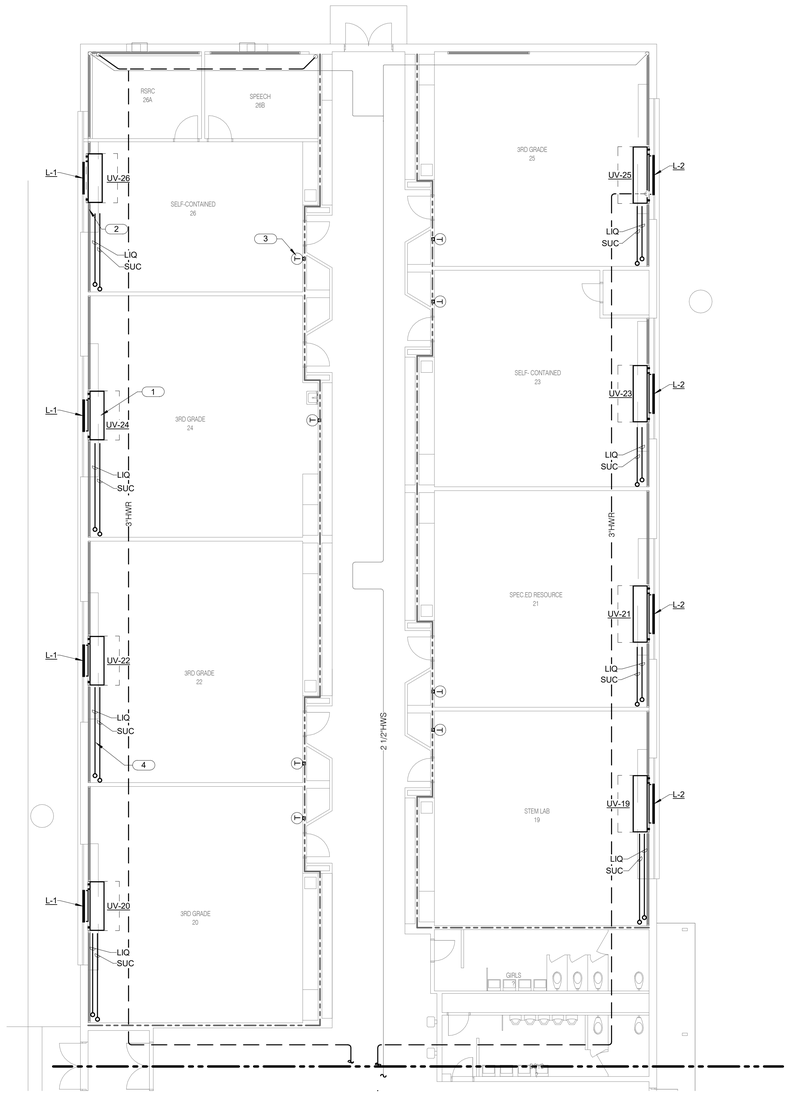
MARK	MEMBER SIZE	REFERENCE DETAIL	REMARKS
L1	(2) L4x3-1/2x1/4	3/M201A	SEE AREA B, C
L2	(2) L4x3-1/2x5/16	3/M201A	SEE AREA C, D
L3	(2) L4x3-1/2x1/2	3/M201A	SEE AREA D

NOTE:

1. BEARING LENGTH EACH END = 8", UON.

4 LINTEL SCHEDULE

NO SCALE



1 FIRST FLOOR - MECHANICAL - AREA A

1/8" = 1'-0"

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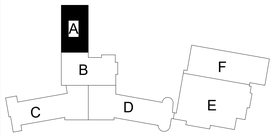

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SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.12
Drawn	KEAHAR
Checked	KEVPOP
Approved	BRAPIE

SHEET TITLE

FIRST FLOOR - MECHANICAL - AREA A

SCALE

Scale: As indicated

SHEET NUMBER

M201A

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REF. SCALE IN INCHES

PROJECT #21002885.12

STRUCTURAL NOTES:

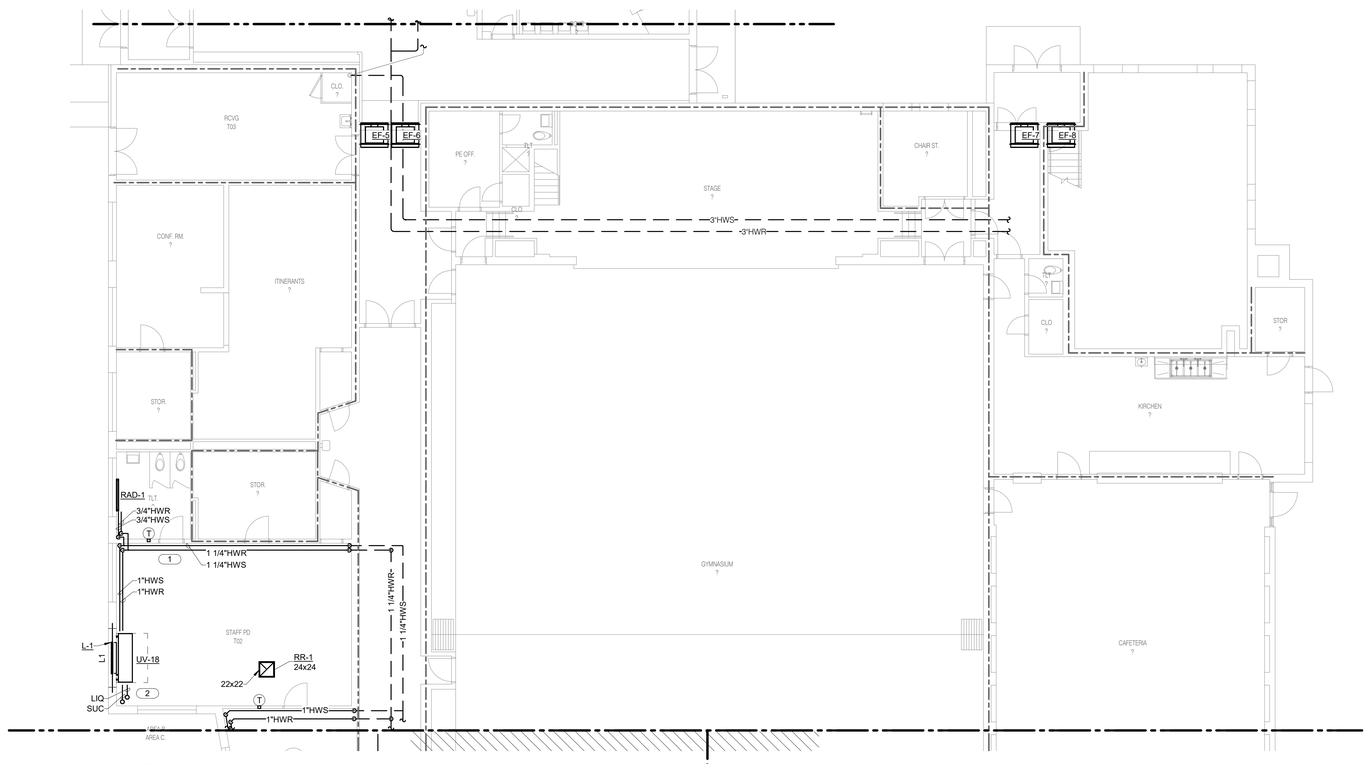
1. L# INDICATES LINTEL IN CMU WALL. FOR LINTEL SCHEDULE SEE 4/M201A.

GENERAL VENTILATION NOTES :

1. ALL PIPING BELOW 6' AFF SHALL BE ENCLOSED IN A FIELD BUILD SHEET METAL SHROUD, PRIMED AND READY FOR FIELD PAINTING. PIPING ABOVE 6' WILL BE ROUTED WITH PIPING SUPPORTS. SEE M400 SERIES OF DRAWINGS FOR MORE INFORMATION.

KEYNOTES:

1. ROUTE NEW HWS/R PIPING HIGH AND TIGHT TO CEILING AND DROP DOWN TO BELOW WINDOW LEVEL AND ROUTE OVER TO NEW UV. COVER ALL PIPING WITH SHROUD.
2. ROUTE NEW REFRIGERANT PIPING FROM CEILING DOWN TO BELOW WINDOW AND OVER TO NEW UV. COVER ALL NEW PIPING WITH SHROUD.



NORTH

2 FIRST FLOOR - MECHANICAL - AREA B

1/8" = 1'-0"

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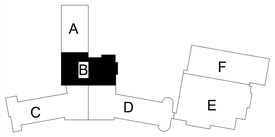

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REFERENCE SCALE IN INCHES

0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

FIRST & UPPER FLOOR - MECHANICAL - AREA B

SCALE

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

SHEET NUMBER

M201B

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REF. SCALE IN INCHES

PROJECT #21002885.12

STRUCTURAL NOTES:

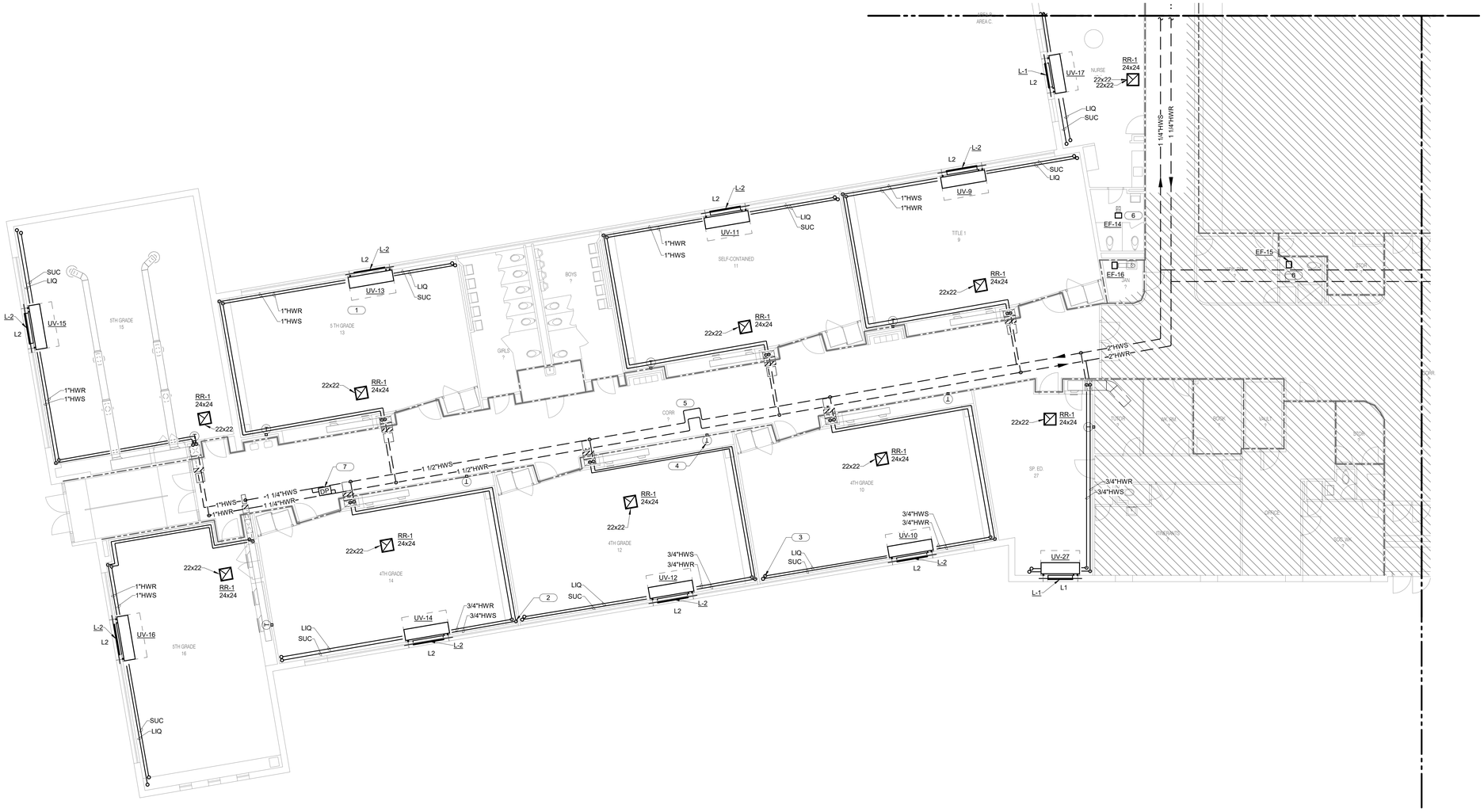
1. L# INDICATES LINTEL IN CMU WALL. FOR LINTEL SCHEDULE SEE 4/M201A.

GENERAL VENTILATION NOTES :

1. ALL PIPING BELOW 6' AFF SHALL BE ENCLOSED IN A FIELD BUILD SHEET METAL SHROUD, PRIMED AND READY FOR FIELD PAINTING. PIPING ABOVE 6' WILL BE ROUTED WITH PIPING SUPPORTS. SEE M400 SERIES OF DRAWINGS FOR MORE INFORMATION.

KEYNOTES:

1. SEE DETAIL ON M400 SERIES OF DRAWINGS FOR MORE INFORMATION.
2. ROUTE HWS/R PIPING THROUGH EXISTING VENTILATION DUCTWORK AND PENETRATE THROUGH WALL AND ROUTE TIGHT ABOVE LOCKERS AND CABINETS TIGHT TO WALL. DROP DOWN TO BELOW THE WINDOW AND ROUTE TO UV. TYPICAL.
3. ROUTE REFRIGERANT PIPING FROM CONDENSING UNIT DOWN THROUGH ROOF TO UNIT VENTILATOR. TYPICAL.
4. INSTALL NEW THERMOSTAT IN EXISTING WALL BOX. PROVIDE ADAPTER PLATE AS NECESSARY. TYPICAL.
5. PROVIDE EXPANSION LOOP FOR HWS/R PIPING.
6. CONNECT NEW EXHAUST FAN TO EXISTING DUCTWORK.
7. PROVIDE DIFFERENTIAL PRESSURE SENSOR FOR HW PIPING.



1 FIRST FLOOR - MECHANICAL - AREA C

1/8" = 1'-0"

NORTH

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PROJECT #21002885.12

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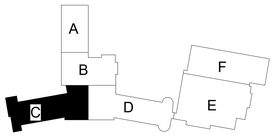
KEY PLAN



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No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

FIRST FLOOR - MECHANICAL - AREA C

SCALE

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

SHEET NUMBER

M201C

21002885.12 11/1/2022 4:47:31 PM ESSER HVAC Improvements - Rolling Green Elementary School

STRUCTURAL NOTES:

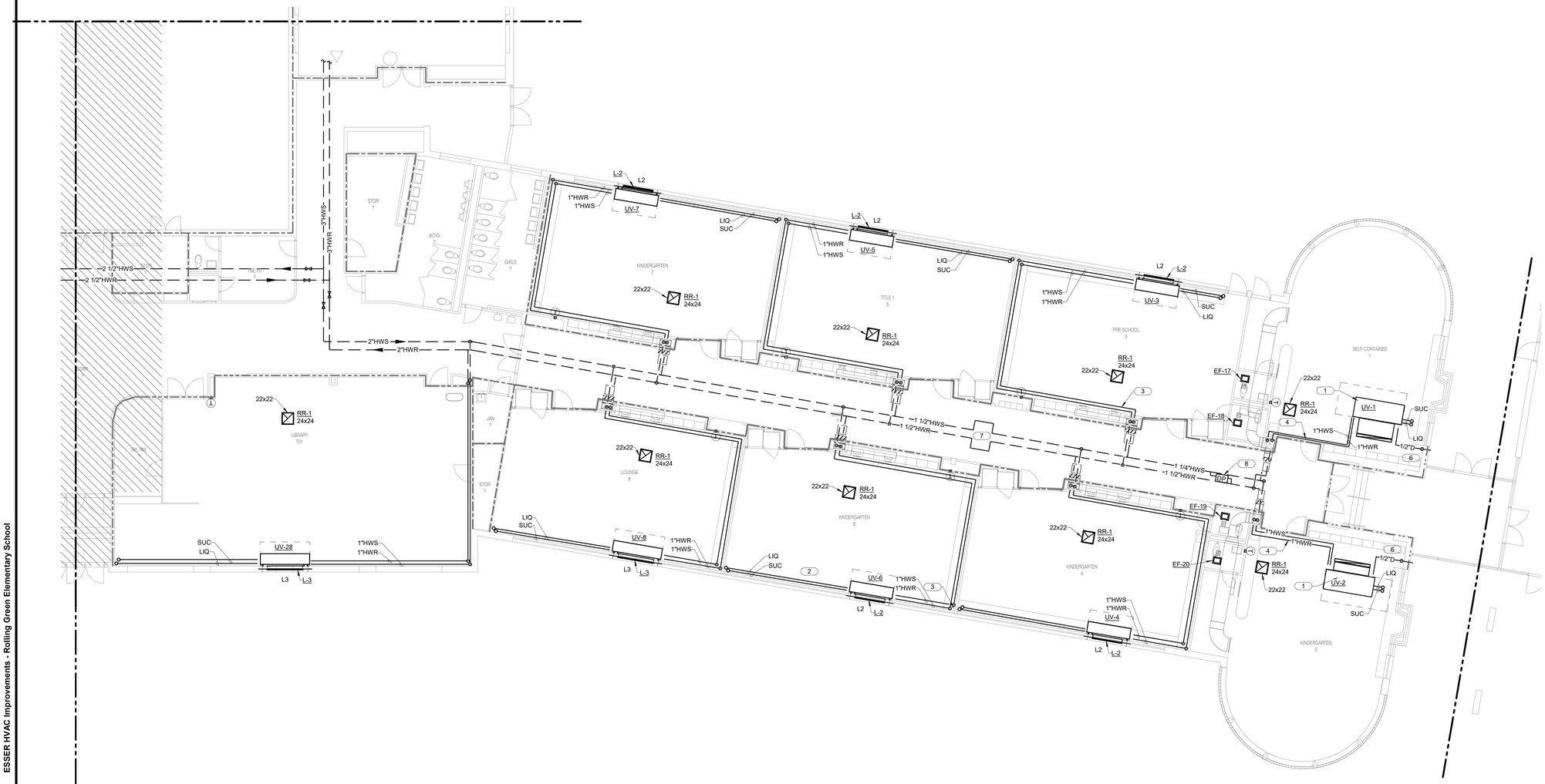
1. L# INDICATES LINTEL IN CMU WALL. FOR LINTEL SCHEDULE SEE 4/M201A.

GENERAL VENTILATION NOTES :

1. ALL PIPING BELOW 6' AFF SHALL BE ENCLOSED IN A FIELD BUILD SHEET METAL SHROUD, PRIMED AND READY FOR FIELD PAINTING. PIPING ABOVE 6' WILL BE ROUTED WITH PIPING SUPPORTS. SEE M400 SERIES OF DRAWINGS FOR MORE INFORMATION.

KEYNOTES:

1. UNIT VENTILATOR INSTALLED IN THE HORIZONTAL POSITION. ROUTE OUTSIDE AIR DUCT UP TO INTAKE HOOD ON ROOF.
2. SEE DETAIL ON M400 SERIES OF DRAWINGS FOR MORE INFORMATION.
3. ROUTE HWS/R PIPING THROUGH ABANDONED DUCT AND PENETRATE INTO CLASSROOM. ROUTE TIGHT TO WALL AND ABOVE CABINETS. DROP DOWN TO BELOW THE WINDOW AND ROUTE TO UV. TYPICAL.
4. ROUTE HWS/R PIPING THROUGH ABANDONED DUCT AND PENETRATE INTO CLASSROOM. ROUTE TIGHT ALONG WALL AND TO HORIZONTAL UV.
5. ROUTE HWS/R PIPING THROUGH CHASE AND PENETRATE INTO CLASSROOM. ROUTE TIGHT ALONG WALL AND ABOVE CABINETS. DROP DOWN TO BELOW THE WINDOW AND ROUTE TO UV.
6. PROVIDE CONDESNSATE PIPE FOR HORIZONTAL UNIT VENTILATOR. ROUTE DRAIN TO EXTERIOR OF BUILDING.
7. PROVIDE EXPANSION LOOP FOR HWS/R PIPING.
8. PROVIDE DIFFERENTIAL PRESSURE SENSOR FOR HW PIPING.



1 **FIRST FLOOR - MECHANICAL - AREA D**

1/8" = 1'-0"

NORTH

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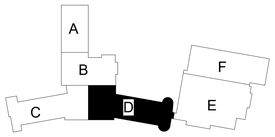
KEY PLAN



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Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

FIRST FLOOR - MECHANICAL - AREA D

SCALE

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

SHEET NUMBER

M201D

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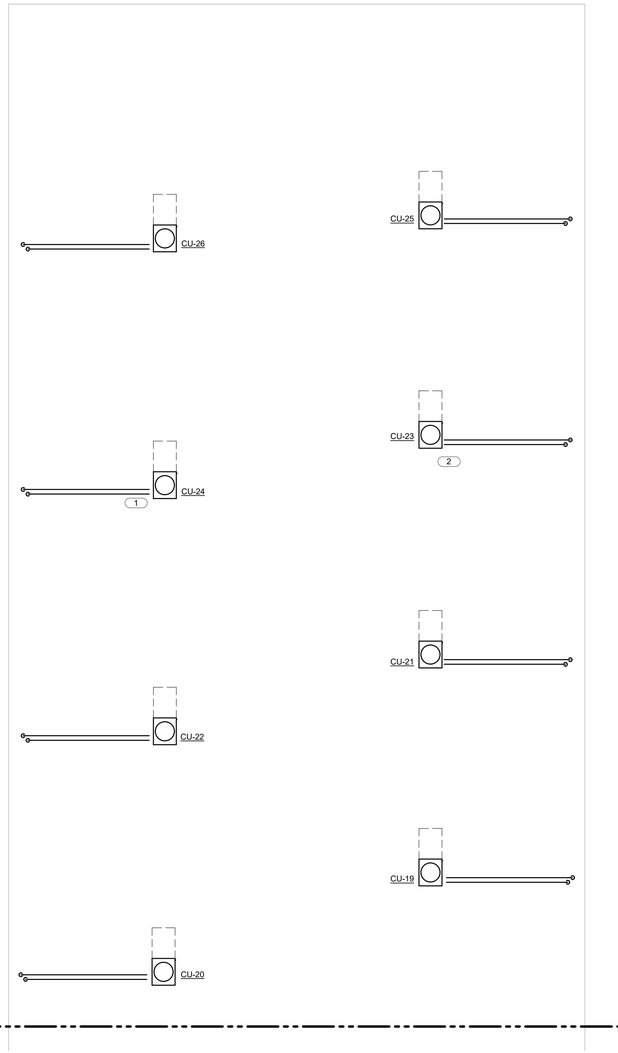
REF. SCALE IN INCHES

PROJECT #21002885.12

KEYNOTES:

1. ROUTE REFRIDGERANT PIPING FROM CONDENSING UNIT DOWN THROUGH ROOF TO UNIT VENTILATOR. TYPICAL.
2. SEE M400 SERIES OF DRAWINGS FOR CONDENSING UNIT SUPPORT DETAIL AND PIPE SUPPORTS. TYPICAL.



NORTH

1 ROOF - MECHANICAL - AREA A

1/8" = 1'-0"

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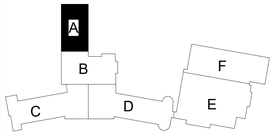
KEY PLAN



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SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

ROOF - MECHANICAL - AREA A

SCALE

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

SHEET NUMBER

M202A

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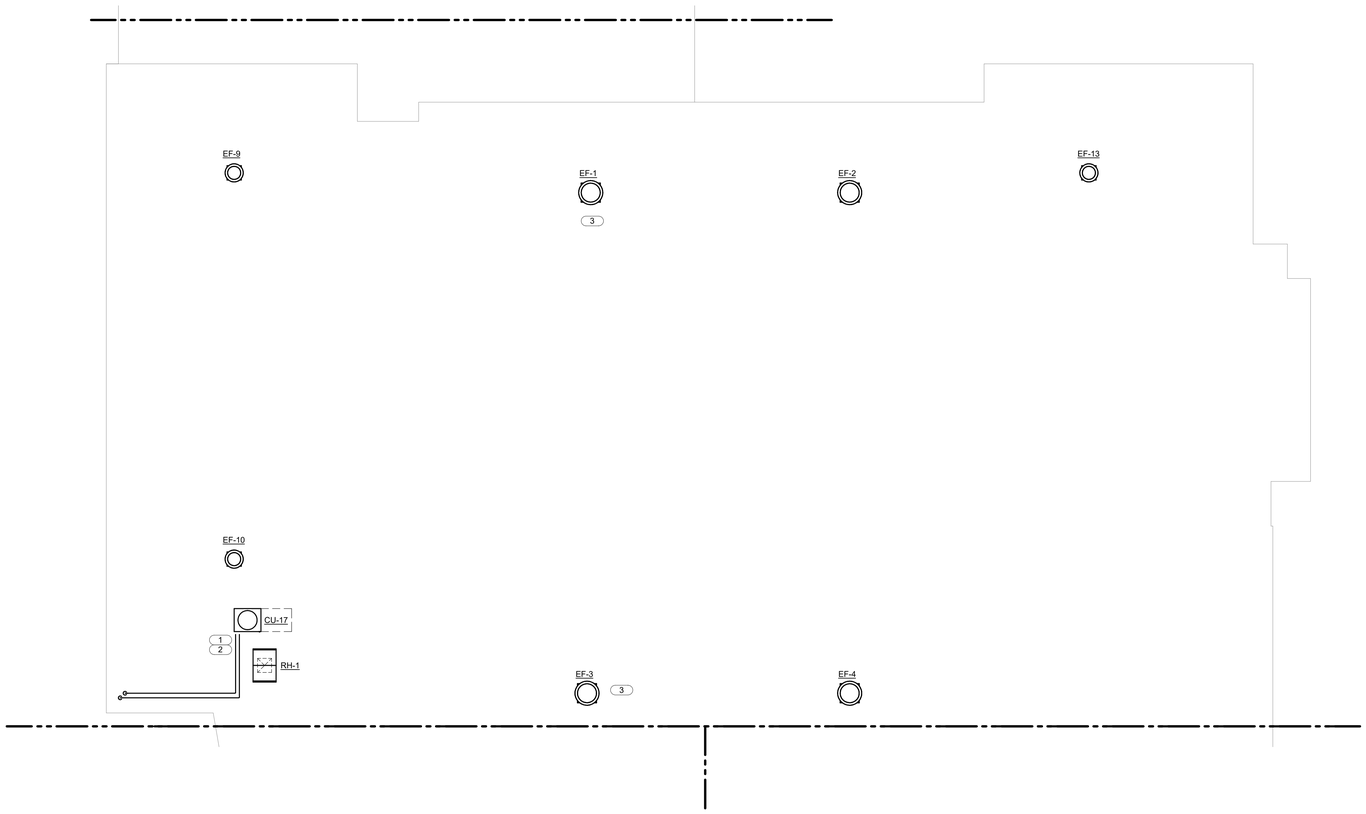
REF. SCALE IN INCHES
PROJECT #21002885.12

KEYNOTES:

1. ROUTE REFRIDGERANT PIPING FROM CONDENSING UNIT DOWN THROUGH ROOF TO UNIT VENTILATOR. TYPICAL.
2. SEE M400 SERIES OF DRAWINGS FOR CONDENSING UNIT SUPPORT DETAIL AND PIPE SUPPORTS. TYPICAL.
3. ATTACH EXISTING DUCTWORK TO NEW EXHAUST FAN. TYPICAL.



NORTH

1 ROOF - MECHANICAL - AREA B

1/8" = 1'-0"

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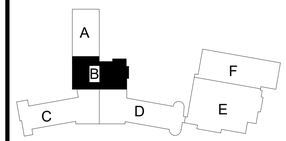

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Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

ROOF - MECHANICAL - AREA B

SCALE

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

SHEET NUMBER

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PROJECT #21002885.12

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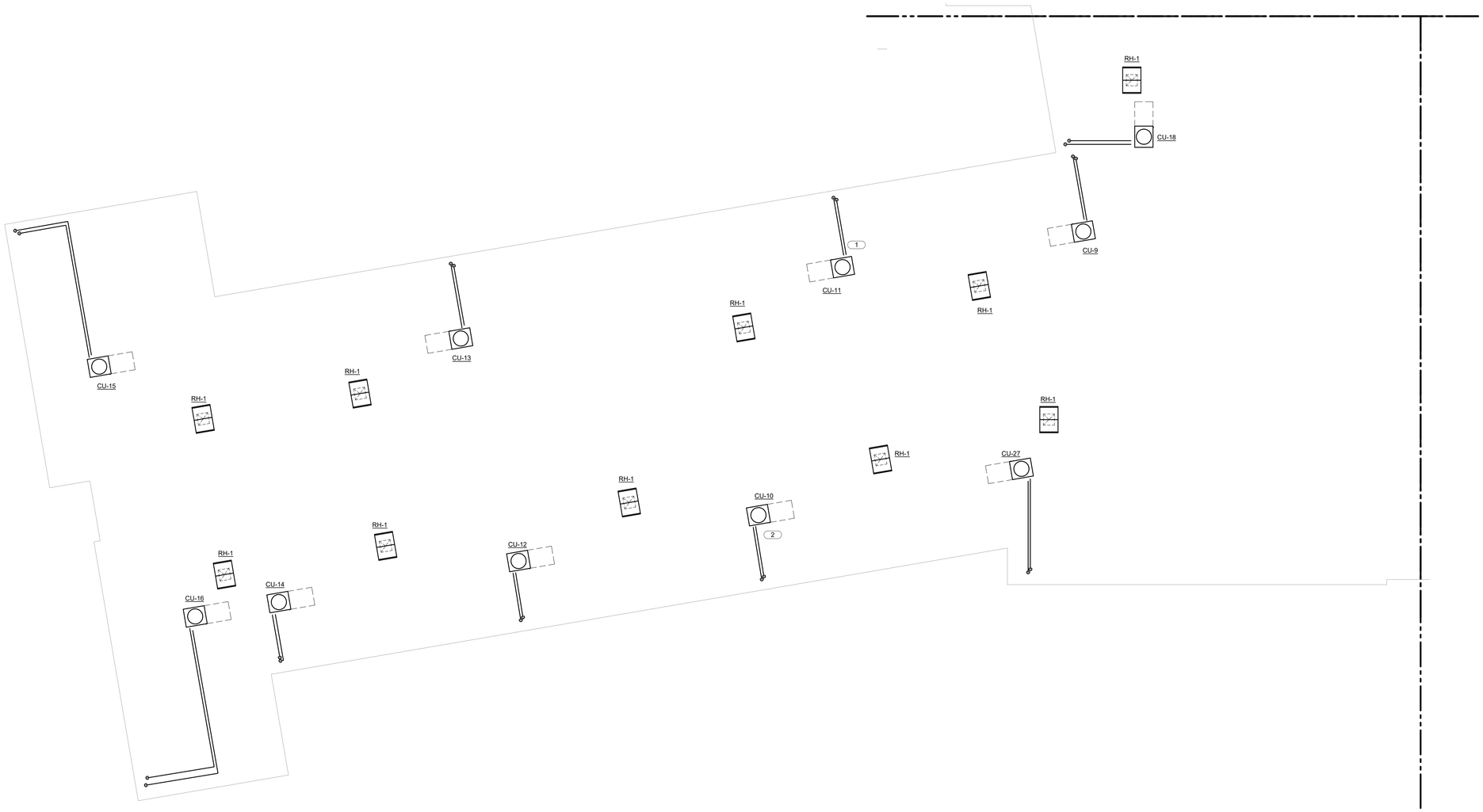
2. SEE M400 SERIES OF DRAWINGS FOR CONDENSING UNIT SUPPORT DETAIL AND PIPE SUPPORTS. TYPICAL.



NORTH

1 ROOF - MECHANICAL - AREA C

1/8" = 1'-0"

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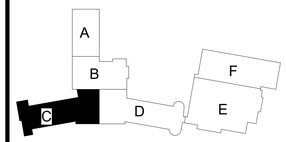
KEY PLAN



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Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

ROOF - MECHANICAL - AREA C

SCALE

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

SHEET NUMBER

M202C

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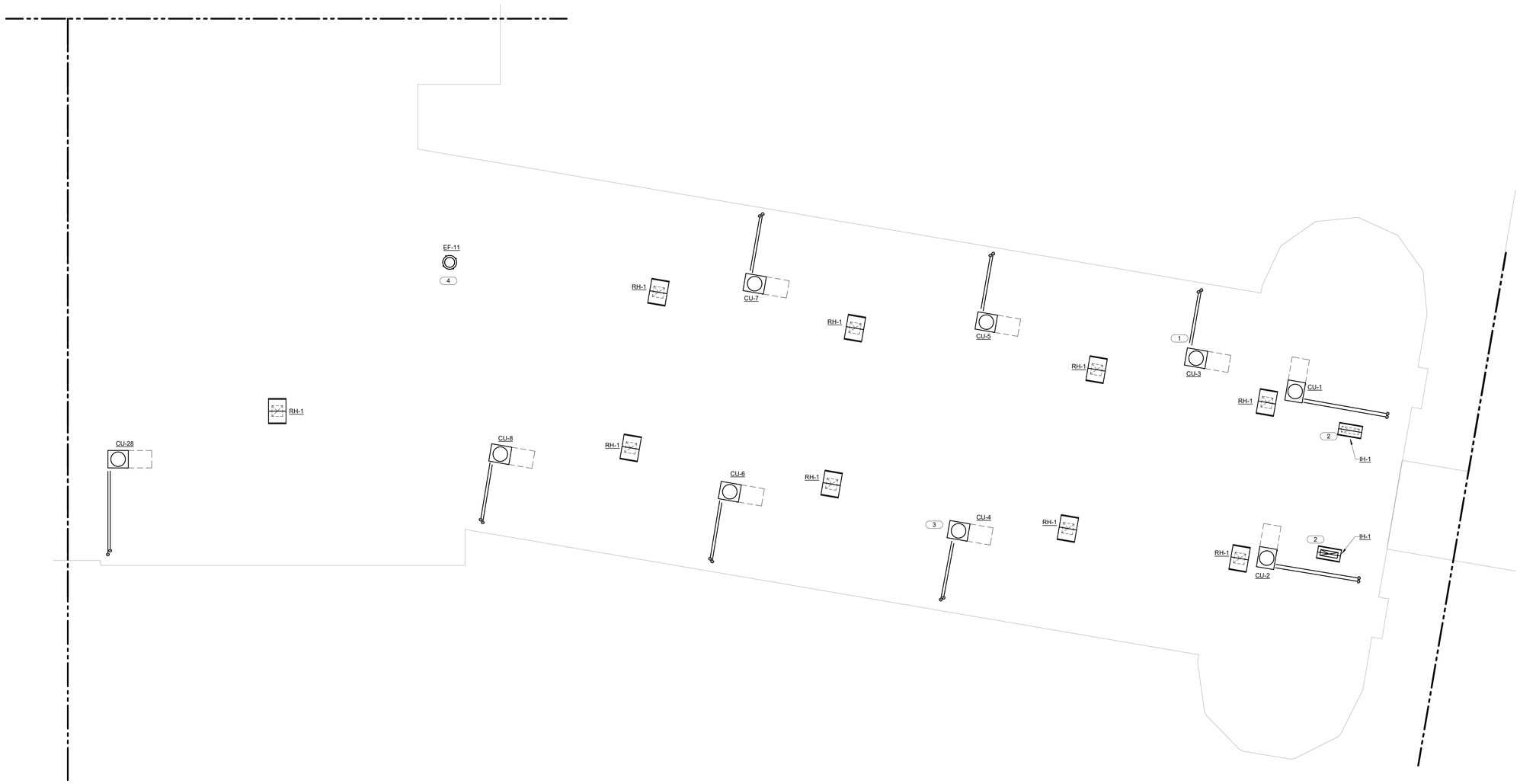
REF. SCALE IN INCHES

PROJECT #21002885.12

KEYNOTES:

1. ROUTE REFRIDGERANT PIPING FROM CONDENSING UNIT DOWN THROUGH ROOF TO UNIT VENTILATOR. TYPICAL.
2. PROVIDE INTAKE HOOD FOR HORIZONTAL UNIT VENTILATOR.
3. SEE M400 SERIES OF DRAWINGS FOR CONDENSING UNIT SUPPORT DETAIL AND PIPE SUPPORTS. TYPICAL.
4. ATTACH EXISTING DUCTWORK TO NEW EXHAUST FAN. TYPICAL.



NORTH

1 ROOF - MECHANICAL - AREA D

1/8" = 1'-0"

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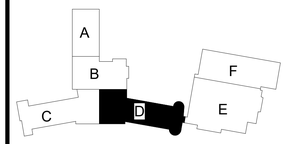

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Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

SHEET TITLE

ROOF - MECHANICAL - AREA D

SCALE

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

SHEET NUMBER

M202D

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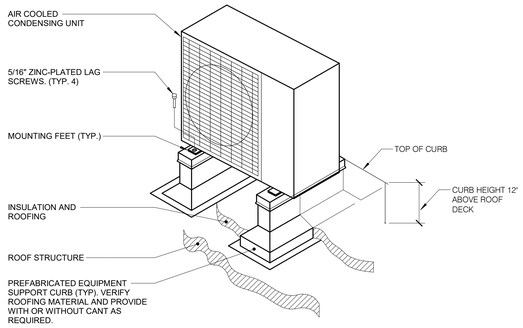
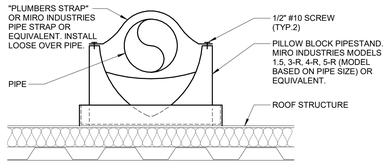


NOTES:

1. VERIFY DIAMETER OF ANCHOR BOLT REQUIRED TO FIT WITHIN MOUNTING FEET ANCHOR HOLES.

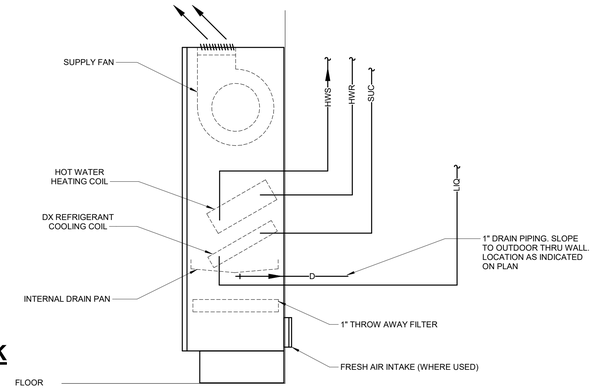
1 ROOF SUPPORT - EQUIPMENT RAIL
NO SCALE



NOTES:

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

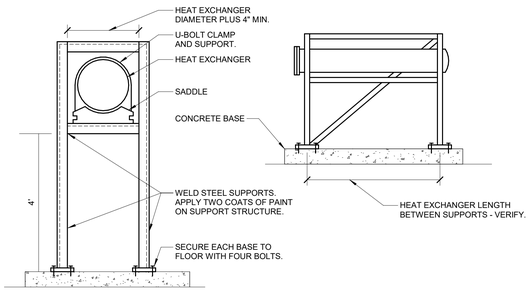
2 ROOF SUPPORT - EXPOSED PIPING PILLOW BLOCK
NO SCALE



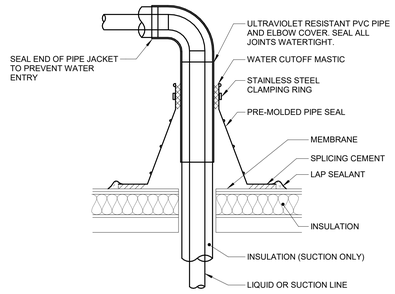
NOTE:

1. PROVIDE MANUAL AIR VENT AT HIGH POINT OF PIPING SYSTEM

3 VERTICAL CLASSROOM UNIT VENTILATOR DETAIL
NO SCALE



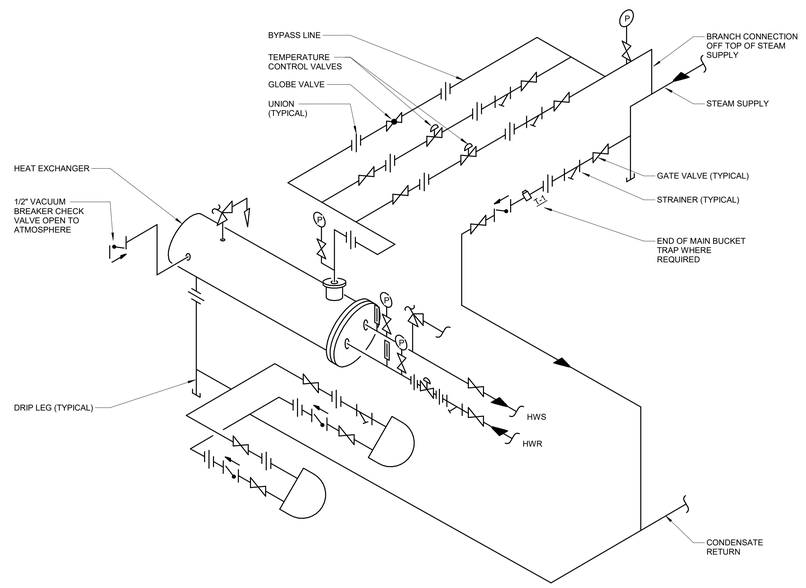
4 EQUIPMENT SUPPORT - FLOOR FRAME HEAT EXCHANGER
NO SCALE



NOTES:

1. MASTIC, PIPE SEAL, AND CEMENT TO MATCH ROOFING SUPPLIERS REQUIREMENTS.

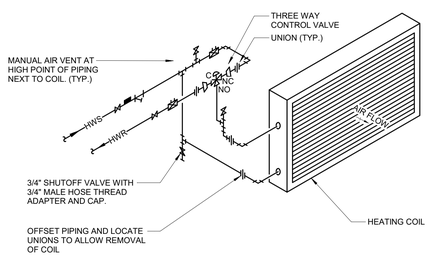
5 ROOF PENETRATION - INSULATED PIPE
NO SCALE



NOTES:

1. 1/3 - 2/3 VALVES ARE REQUIRED WHEN THE STEAM FLOW IS LARGER THAN THE CAPABILITY OF A 1 1/4" VALVE, AT THE PRESCRIBED PRESSURE DROP
2. INSTALL A 1" INLET/OUTLET ASME "UV" RELIEF VALVE SET AT 125 PISG. PIPE TO A FLOOR DRAIN WITH AIR GAP. RELIEF VALVE TO BE ON EXCHANGER SIDE OF SHUT-OFF VALVE
3. BALL VALVE IN PIPING 2" AND SMALLER. BUTTERFLY VALVE IN PIPING ABOVE 2" (TYPICAL).
4. GLOBE VALVE TO BE ONE HALF THE SIZE OF LARGER TEMPERATURE CONTROL VALVE.
5. LINE SIZE TWO-POSITION MOTORIZED VALVE FOR ISOLATION AND BALANCING.
6. CONTRACTOR MUST VERIFY NUMBER OF HEAT EXCHANGERS AND APPLY THIS DETAIL TO EACH HEAT EXCHANGER.

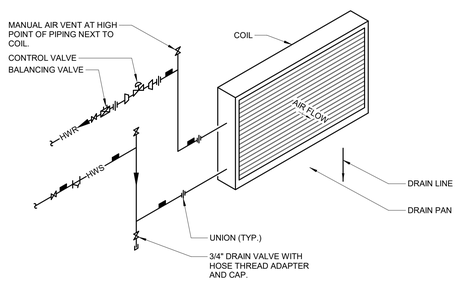
8 MULTIPLE HEAT EXCHANGER PIPING DETAIL
NO SCALE



NOTES:

1. SEE SPECIFICATION SECTION 23 21 00 - HYDRONIC PIPING FOR BALANCE VALVE SIZING REQUIREMENTS.

6 COIL - HOT WATER PIPING DIAGRAM W/ 3-WAY VALVE
NO SCALE



7 COIL - HOT WATER PIPING DIAGRAM W/ 2-WAY VALVE
12" = 1'-0"

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REVISIONS

No.	Date	Revision / Issue

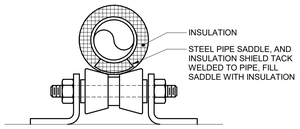
SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**KEAHAR**
Checked	**KEVPOP**
Approved	**BRAPIE**

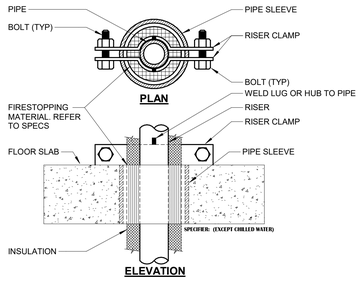
SHEET TITLE
MECHANICAL DETAILS

SCALE
Scale: **12" = 1'-0"**

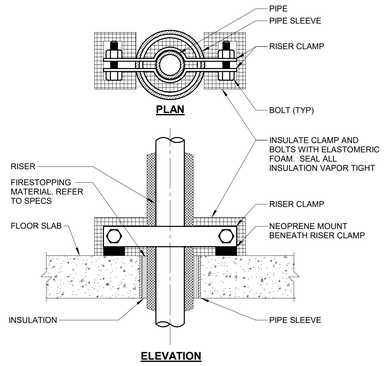
SHEET NUMBER
M400



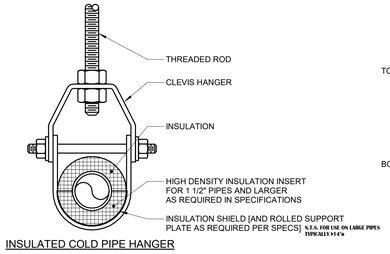
INSULATED HOT PIPE 4" AND LARGER



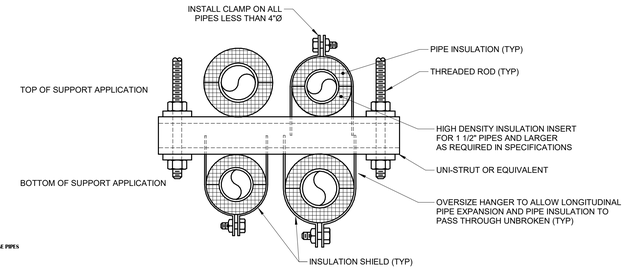
INSULATED HOT PIPE RISER SUPPORT



INSULATED COLD PIPE RISER SUPPORT



INSULATED COLD PIPE HANGER



TRAPEZE HANGER

NOTES:

1. REFER TO SPECIFICATION SECTIONS (SECTION 22 05 29-PLUMBING, SECTION 23 05 29-HVAC) & (SECTION 22 07 19-PLUMBING, SECTION 23 07 19-HVAC).

1 PIPE - HANGERS AND SUPPORTS

NO SCALE

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21002885.12 11/1/2022 4:47:37 PM ESSER HVAC Improvements - Rolling Green Elementary School

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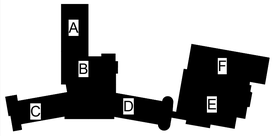

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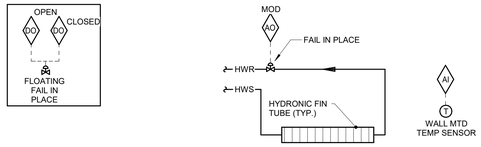


SEQUENCE OF OPERATION:

WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 60°F (ADJ.), THE FMCS SHALL MODULATE THE RADIATION CONTROL VALVE TO MAINTAIN A SPACE TEMPERATURE SETPOINT OF 70°F (ADJ.).

WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 60°F (ADJ.), CONTROL VALVE SHALL BE FULLY CLOSED.

WHEN FLOATING CV'S ARE USED, FMCS SHALL PERFORM AN AUTO-ZERO FUNCTION EVERY NIGHT DURING UNOCCUPIED TIMES. THE FMCS SHALL STAGGER AUTO-ZERO SEQUENCES SO THAT ALL VALVES DO NOT SIMULTANEOUSLY CLOSE.

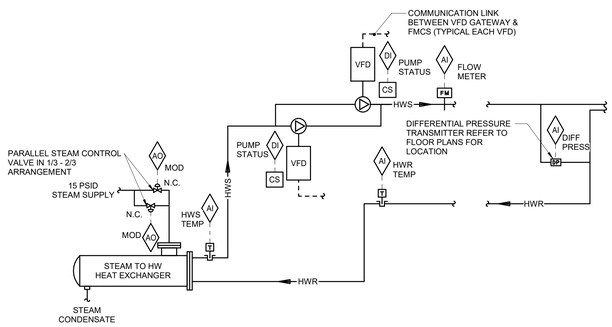
NIGHT SETBACK CONTROL:
OCCUPIED/UNOCCUPIED SCHEDULE SHALL BE SET AT THE OPERATOR INTERFACE FOR THIS ZONE. WHEN THE ZONE IS SCHEDULED UNOCCUPIED, THE SPACE TEMPERATURE SETPOINT SHALL BE RESET TO 55°F (ADJ.).

ALARMS, INTERLOCKS & SAFETIES:

SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE FALLS 10°F (ADJ.) BELOW SETPOINT.

NOTES:
1. TYPICAL FOR ALL RADIATION NOT CONTROLLED BY TERMINAL AIR BOX SEQUENCE.

1 STAND ALONE RADIATION CONTROL
NO SCALE



SEQUENCE OF OPERATION:
THE STEAM CONTROL VALVES SHALL MODULATE TO THE HEAT EXCHANGER AS REQUIRED TO MAINTAIN SYSTEM SUPPLY TEMP AS FOLLOWS:
- THE 1/3 CAPACITY STEAM CONTROL VALVE SHALL BE MODULATED IN ORDER TO MAINTAIN THE HEATING WATER SUPPLY TEMPERATURE.
- IF THE 1/3 CAPACITY CONTROL VALVE IS 100% OPEN AND THE HEAT EXCHANGER IS UNABLE TO MAINTAIN SETPOINT, THE 1/3 CAPACITY CONTROL VALVE SHALL CLOSE AND THE 2/3 CAPACITY STEAM CONTROL VALVE SHALL MODULATE TO MAINTAIN SETPOINT.
- IF THE 2/3 CAPACITY CONTROL VALVE IS 100% OPEN AND IS UNABLE TO MAINTAIN SETPOINT, THE 2/3 CAPACITY CONTROL VALVE SHALL REMAIN OPEN AND THE 1/3 CAPACITY CONTROL VALVE SHALL ALSO MODULATE OPEN TO MAINTAIN SETPOINT.
- ON A DECREASE IN LOAD, THE 2/3 CAPACITY STEAM CONTROL VALVE SHALL REMAIN OPEN AND THE 1/3 CAPACITY STEAM CONTROL VALVE SHALL MODULATE CLOSED UNTIL SETPOINT IS ACHIEVED.
- ON A FURTHER DECREASE IN LOAD, THE 1/3 CAPACITY STEAM CONTROL VALVE SHALL REMAIN SHUT AND THE 2/3 CAPACITY STEAM CONTROL VALVE SHALL MODULATE CLOSED UNTIL SETPOINT IS ACHIEVED OR UNTIL IT REACHES 40% (ADJ.) OPEN.
- IF THE 2/3 CAPACITY STEAM CONTROL VALVE REACHES 40% (ADJ.) OPEN AND SETPOINT IS STILL NOT ACHIEVED, THE 2/3 CAPACITY STEAM CONTROL VALVE SHALL CLOSE AND THE 1/3 CAPACITY STEAM CONTROL VALVE SHALL MODULATE OPEN UNTIL SETPOINT IS ACHIEVED.

STEAM CONTROL VALVE OPERATION SHALL NOT BE ENABLED UNLESS ONE HW PUMP IS RUNNING AS PROVEN BY VFD STATUS. FMCS SHALL LIMIT THE HWS TEMP TO MAX. 190°F (ADJ.).

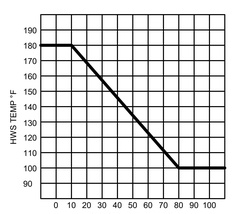
HWS TEMP SETPOINT:
FMCS SHALL RESET THE HWS TEMP IN ACCORDANCE WITH HWS RESET SCHEDULE.

HEATING WATER PUMP CONTROL:
START/STOP: THE FMCS SHALL START THE LEAD PUMP VIA THE VFD AND SHALL RUN CONTINUOUSLY. HEATING WATER PUMPS SHALL BE STARTED AND STOPPED THROUGH A HAND-OFF-AUTO SWITCH ON THE FACE OF THE VFD. WHEN PLACED IN THE HAND POSITION, PUMP MOTOR SHALL RUN CONTINUOUSLY. WHEN PLACED IN THE AUTO POSITION, THE FMCS SHALL CONTROL PUMP OPERATION. WHEN PLACED IN THE OFF POSITION, THE PUMP MOTOR SHALL BE DE-ENERGIZED.

THE FMCS SHALL MODULATE OUTPUT TO THE VFD AS REQUIRED TO MAINTAIN DP SETPOINT AT THE LOCATION OF THE DP TRANSMITTER. FMCS SHALL RESET THE DP SETPOINT UNTIL ONE SYSTEM COIL MODULATING CONTROL VALVE IS 95% OPEN. IN NO CASE SHALL DP SETPOINT EXCEED 10 PSID (ADJ) OR DROP BELOW 2 PSID.

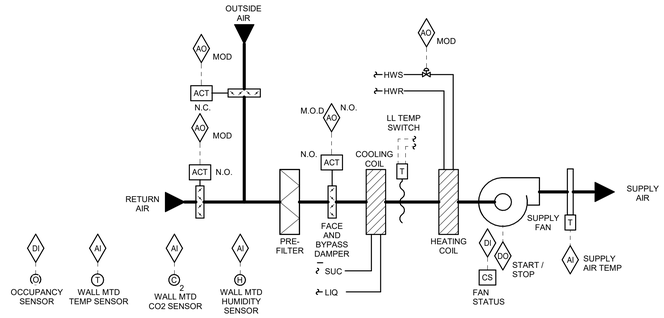
THE FMCS SHALL ALTERNATE THE PRIMARY/STANDBY THE PUMPS ON A WEEKLY BASIS. INCLUDE GRAPHIC TOGGLE ON OPERATOR WORKSTATION GRAPHICAL SCREEN TO ALLOW OPERATOR TO MANUALLY SELECT WHICH PUMP IS THE PRIMARY AND WHICH IS THE STANDBY.

ALARMS, INTERLOCKS & SAFETIES:
FMCS SHALL INDICATE AN ALARM TO THE FMCS OPERATOR WORKSTATION IN THE EVENT THE FOLLOWING OCCUR:
- SHOULD THE FMCS COMMAND THE LEAD HW PUMP TO OPERATE AND THE PUMP FAILS TO DO SO AS DETERMINED BY THE VFD STATUS, AN ALARM SHALL BE INDICATED AT THE FMCS OPERATOR WORKSTATION AND THE LAG HW PUMP SHALL AUTOMATICALLY START.
- AN ALARM CONDITION OCCURS AT ANY VFD.
- IF HEATING WATER SUPPLY TEMPERATURE IS MORE THAN 5°F (ADJ.) ABOVE OR BELOW SETPOINT FOR MORE THAN 10 MINUTES (ADJ.).
- IF SYSTEM DIFFERENTIAL PRESSURE IS NOT MAINTAINED FOR MORE THAN 15 MINUTES (ADJ.).



HWS TEMP RESET SCHEDULE

2 HEATING CONTROL - HEAT EXCHANGER VARIABLE/PRIMARY
NO SCALE



SUPPLY FAN CONTROL:
- UNIT VENTILATOR OPERATION SHALL BE SCHEDULED AT THE FMCS OPERATOR WORKSTATION.
- WHEN THE UNIT VENTILATOR IS INDEXED TO RUN THE FOLLOWING SHALL OCCUR:
  1. CO2 SENSOR SHALL CONTROL THE MINIMUM O.A. DAMPER POSITION.
  2. IF THE SPACE CO2 LEVEL IS ABOVE THE SETPOINT OF 1100 PPM (ADJ.), THE OUTSIDE AIR DAMPIER SHALL MODULATE OPEN TO ITS MINIMUM POSITION AND RETURN AIR DAMPER SHALL MODULATE IN OPPOSITION. THE UNIT SHALL CONTINUE TO OPERATE IN THAT MODE FOR A MINIMUM OF 10 MINUTES (ADJ.) TO PREVENT SHORT CYCLING. ONCE THE CO2 LEVEL IS BELOW SET POINT, THE OUTSIDE AIR DAMPER SHALL MODULATE CLOSED TO MAINTAIN THE CO2 LEVEL BELOW THE SETPOINT.
  3. IF THE CO2 SENSOR FAILS, THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS FIXED MINIMUM OUTSIDE AIR POSITION AND THE RETURN AIR DAMPER SHALL MODULATE IN OPPOSITION. THE MINIMUM OA DAMPER POSITION SHALL BE SET BY THE TESTING AND BALANCING CONTRACTOR TO MATCH THE SCHEDULED MINIMUM CFM.
  4. THE SUPPLY FAN SHALL BE ENABLED TO RUN.
  5. THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED TIMES.

SPACE TEMPERATURE AND HUMIDITY CONTROL:
- IN COOLING MODE, WHENEVER THE OUTSIDE AIR TEMPERATURE IS BELOW 70°F (ADJ.) AND THE ROOM AIR TEMPERATURE IS 2°F (ADJ.) ABOVE THE SETPOINT, THE CONDENSING UNIT SHALL BE ENABLED TO MAINTAIN SPACE TEMPERATURE SETPOINT AND THE BYPASS DAMPER SHALL BE OPEN TO THE COIL.
- IN COOLING MODE, WHENEVER THE OUTSIDE AIR TEMPERATURE IS ABOVE 70°F (ADJ.) AND THE ROOM AIR TEMPERATURE IS 2°F (ADJ.) ABOVE THE SETPOINT, THE CONDENSING UNIT SHALL BE ENABLED AND THE BYPASS DAMPER SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
- WHENEVER THE SPACE RELATIVE HUMIDITY EXCEEDS 60%RH, THE CONDENSING UNIT SHALL BE ENABLED IN DEHUMIDIFICATION MODE AND THE BYPASS DAMPER SHALL BE OPEN TO THE COIL. UPON ENABLING THE DEHUMIDIFICATION CYCLE, THE CONDENSING UNIT SHALL BE ENABLED ON THE FIRST STAGE OF COOLING. IF AFTER 10 MINUTES(ADJ) THE ROOM RH HAS NOT DECREASED BY 2%(ADJ), THE SECOND STAGE OF COOLING SHALL BE ENABLED. ONCE THE SECOND STAGE OF COOLING HAS BEN ENABLED, IT SHALL REMAIN ENABLED UNTIL THE ROOM RH SETPOINT HAS BEEN REACHED. THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE.
- WHEN IN ECONOMIZER MODE, FMCS SHALL NOT MODULATE THE BYPASS DAMPER UNLESS O.A. DAMPER IS 100% (ADJ.) OPEN.
- IN HEATING MODE, WHENEVER THE OUTSIDE AIR TEMPERATURE IS ABOVE 40F (ADJ.) AND THE ROOM AIR TEMPERATURE IS 3°F (ADJ.) BELOW THE SETPOINT, THE HEATING CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE TEMPERATURE SETPOINT AND THE BYPASS DAMPER SHALL BE OPEN TO THE COIL.
- IN HEATING MODE, WHENEVER THE OUTSIDE AIR TEMPERATURE IS BELOW 40°F (ADJ.) AND THE ROOM AIR TEMPERATURE IS 3°F (ADJ.) BELOW THE SETPOINT, THE HEATING CONTROL VALVE SHALL BE FULLY OPEN AND THE BYPASS DAMPER SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

ECONOMIZER CONTROL:
- WHEN THE O.A. TEMPERATURE IS LESS THAN THE ROOM AIR TEMPERATURE THE FMCS SHALL ENABLE ECONOMIZER CONTROLS FOR COOLING.
- WHEN O.A. TEMPERATURE IS GREATER THAN THE ROOM AIR TEMPERATURE THE FMCS SHALL DISABLE ECONOMIZER CONTROLS AND SHALL RETURN THE UNIT TO MINIMUM O.A. MODE.
- ONCE ECONOMIZER CONTROLS HAVE BEEN ENABLED OR DISABLED FROM OPERATION, THE UNIT SHALL CONTINUE TO OPERATE IN THAT MODE FOR A MINIMUM OF 10 MINUTES (ADJ.) BEFORE BEING ALLOWED TO SWITCH BACK (TO PREVENT SHORT CYCLING).
- IN ECONOMIZER MODE THE FMCS SHALL MODULATE THE RETURN AND OUTSIDE AIR DAMPERS AS REQUIRED TO MAINTAIN ROOM AIR TEMPERATURE SETPOINT.

OCCUPANCY SENSOR CONTROL
- IF THE UNIT VENTILATOR IS SCHEDULED TO RUN AT THE FMCS OPERATOR WORKSTATION AND THE OCCUPANCY SENSOR INDICATES THE SPACE IS OCCUPIED THE O.A. DAMPER SHALL BE OPEN TO ITS MINIMUM POSITION.
- IF THE UNIT VENTILATOR IS SCHEDULED TO RUN AT THE FMCS OPERATOR WORKSTATION AND THE OCCUPANCY SENSOR INDICATES THE SPACE IS NOT OCCUPIED THE O.A. DAMPER SHALL BE CLOSED.
- IF THE UNIT VENTILATOR IS NOT SCHEDULED TO RUN AT THE FMCS OPERATOR WORKSTATION THE INPUT FROM THE OCCUPANCY SENSOR SHALL BE IGNORED.
- ECONOMIZER MODE SHALL TAKE PRECEDENCE OVER THE CONDITION OF THE OCCUPANCY SENSOR FOR CONTROL OF THE O.A. DAMPER.

NIGHT SETBACK CONTROL:
- NIGHT SETBACK SHALL BE INITIATED VIA THE FMCS BASED ON THE FOLLOWING TIME SCHEDULE:
- OCCUPIED MODE START: 6:00 AM (ADJ.)
- UNOCCUPIED MODE START: 5:00 PM (ADJ.)
- NIGHT SETBACK SHALL NOT OCCUR WHEN A SPACE IS DESIGNATED AS UNOCCUPIED VIA A LIGHTING OCCUPANCY SENSOR.
- AT THE START OF OCCUPIED MODE, THE FMCS SHALL ESTABLISH THE ROOM TEMPERATURE SETPOINT IN ACCORDANCE WITH THE SEQUENCE OF OPERATION.
- AT THE START OF UNOCCUPIED MODE, THE FMCS SHALL ESTABLISH THE ROOM TEMPERATURE SETPOINTS OF:
  COOLING SETPOINT = 80°F (ADJ.)
  HEATING SETPOINT = 60°F (ADJ.)
- DURING NIGHT SETBACK THE UNIT VENTILATOR CAN BE PLACED INTO OCCUPIED MODE VIA THE OVERRIDE SWITCH ON THE ROOM TEMPERATURE SENSOR. WHEN THE OVERRIDE SWITCH IS ENABLED IT SHALL CONTROL THE UNIT IN OCCUPIED MODE SETTING FOR A PERIOD OF 2 HOURS (ADJ.) AT WHICH TIME THE UNIT SHALL REVERT BACK TO NIGHT SETBACK MODE.

ALARMS, INTERLOCKS & SAFETIES:
- SHOULD ANY ONE FOOT SECTION OF THE MANUAL RESET LOW LIMIT TEMPERATURE SWITCH SENSE AIR TEMP < 36°F THE CHILLED WATER VALVE SHALL FULLY OPEN AND THE FMCS SHALL START THE LEAD CHILLED WATER PUMP IN THE EVENT NONE OF THE CHILLED WATER PUMPS ARE IN OPERATION (IN ADDITION TO UNIT VENT SHUTDOWN). AN ALARM SHALL BE GENERATED AT THE FMCS OPERATOR WORKSTATION.
- A FLOAT SWITCH MOUNTED IN THE DRAIN PAN BELOW EACH UNIT VENT SHALL CLOSE THE CHILLED WATER VALVE AND PREVENT SUPPLY FAN OPERATION UPON DETECTION OF WATER AND SHALL INDICATE AN ALARM TO THE OPERATOR WORKSTATION.
- FMCS SHALL INDICATE AN ALARM TO THE FMCS OPERATOR WORKSTATION IF THE FMCS COMMANDS THE SUPPLY FAN TO OPERATE AND THE FAN CURRENT RELAY DETECTS INSUFFICIENT CURRENT FLOW.

UNIT SHUTDOWN:
- WHENEVER THE UNIT VENTILATOR IS SHUTDOWN THE FOLLOWING SHALL OCCUR:
- THE OUTSIDE AIR DAMPER SHALL CLOSE.
- THE RETURN AIR DAMPER SHALL OPEN.
- THE FACE AND BYPASS DAMPER SHALL CLOSE TO THE COIL.
- THE HEATING WATER CONTROL VALVE SHALL CLOSE. IF THE LOW LIMIT SWITCH IS ACTIVATED THE HEATING COIL CONTROL VALVE SHALL FULLY OPEN.
- THE REFRIGERANT CONTROL VALVE SHALL CLOSE.
- THE SUPPLY FAN SHALL STOP.

3 UNIT VENTILATOR (VERTICAL) CONTROL - UV-X
NO SCALE

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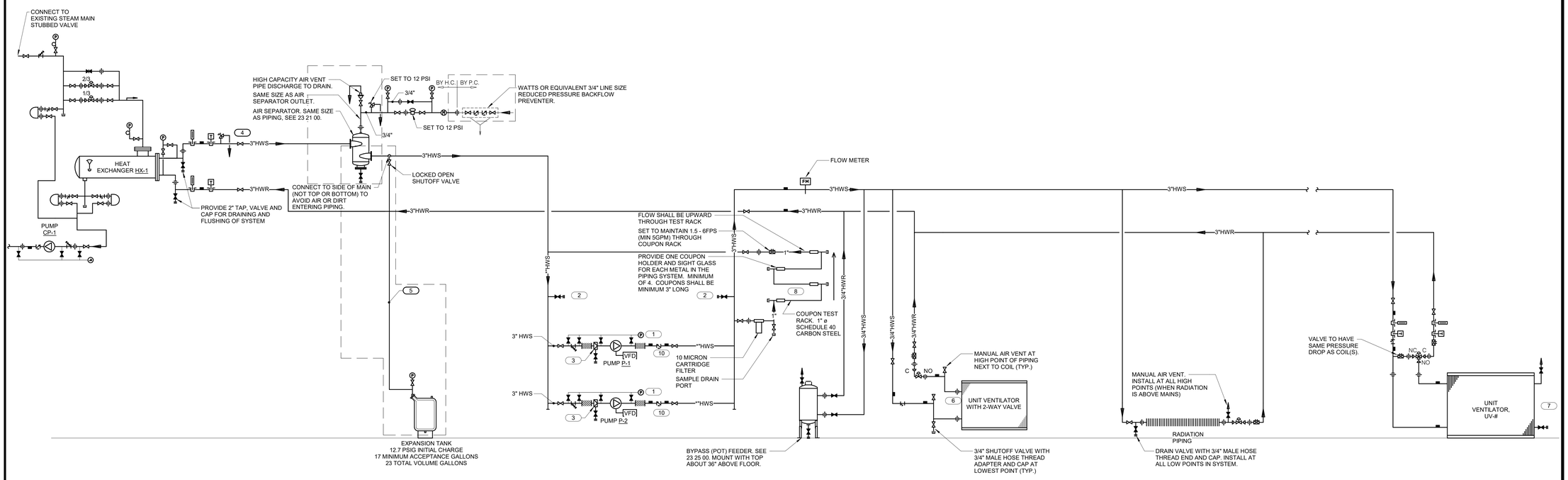
Illinois Design Firm Registration #184007637-0014
0 1 2 3
REF. SCALE IN INCHES
PROJECT #21002885.12



HEATING WATER FLOW DIAGRAM SYMBOL LIST

SYMBOL:	DESCRIPTION:
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
CW	COLD WATER - POTABLE
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	FLEXIBLE CONNECTION
	PRESSURE/TEMPERATURE TEST PLUG
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
M	METER
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	SUCTION DIFFUSER WITH SUPPORT FOOT
	AUTOMATIC AIR VENT
	MANUAL AIR VENT W/ BALL VALVE
	DRAIN WITH HOSE CONNECTION, CAP & BALL VALVE
F	FLOW SWITCH
FM	FLOW METER
T	TEMPERATURE SENSOR WITH WELL
	THERMOMETER WITH WELL (FILLED TYPE)
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	BALANCING VALVE
	CONTROL VALVE (TWO-WAY)
	CONTROL VALVE (THREE-WAY)
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP

KEYNOTES

1. PRESSURE GAUGE WITH SNUBBER PER SECTION 23 09 13. INSTALL WITH MOUNTING ON WALL, STAND, OR VIBRATION-FREE PIPE ABOVE PUMP FLEXIBLE CONNECTOR. INSTALL FLEXIBLE COPPER TUBING TO PIPING CONNECTIONS TO AVOID VIBRATION DAMAGE TO THE GAUGE. PREFERRED CONNECTION LOCATIONS ARE: (a) JUST UPSTREAM OF STRAINER, (b) GAUGE PORT ON SUCTION DIFFUSER OR BETWEEN STRAINER AND PUMP INLET (c) GAUGE TAPPING ON PUMP INLET FLANGE. (d) GAUGE TAPPING ON PUMP OUTLET FLANGE.
2. PROVIDE 2 1/2" OR LARGER CONNECTIONS FOR CONNECTION OF FIRE HOSES FOR FLUSHING AND CLEANING OF SYSTEM, IF CHEMICAL CLEANING IS NOT USED.
3. INSTALL SAFETY RELIEF VALVE. PIPE TO DRAIN. SUPPORT SOLIDLY.
4. SIZE PER BLADDER TANK MANUFACTURER'S RECOMMENDATIONS BUT NOT SMALLER THAN CONNECTION TO TANK.
5. ARRANGE PIPING SO COILS CAN BE REMOVED WITHOUT REMOVING PIPING ABOVE THE UNIONS OR FLANGES. PIPE LOCATION MUST NOT RESTRICT OPENING OF ACCESS DOORS.
6. THE NUMBER OF COILS MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR SHALL SIZE PIPING TO EACH COIL SECTION AT NOT OVER 4 FEET OF PRESSURE DROP PER 100 FEET OF PIPE AND PROVIDE ADDITIONAL UNIONS, VALVES, AND P/T PLUGS AS SHOWN FOR COILS.
7. PROVIDE COUPON TEST RACK AS INDICATED FOR EACH SYSTEM AS SHOWN.
8. TRIPLE DUTY OR BALANCING VALVES ARE NOT PERMITTED ON VARIABLE VOLUME SYSTEMS.
9. CHECK VALVE SHALL BE NON-SLAM SPRING STYLE.

1 HEATING WATER FLOW DIAGRAM - HEAT EXCHANGER VARIABLE/PRIMARY

NO SCALE

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KEY PLAN

AGENCY APPROVAL

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REFERENCE SCALE IN INCHES 0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.12
Drawn	KEAHAR
Checked	KEVPOP
Approved	BRAPIE

SHEET TITLE

MECHANICAL DIAGRAMS

SCALE

Scale: 12" = 1'-0"

SHEET NUMBER

M501

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UNIT VENTILATOR SCHEDULE

NOTES:
1.PROVIDE WITH TOP DISCHARGE GRILE, OUTDOOR INTAKE GRILEE WITH HORIZONTAL LOUVERS. FRONT RETURN AIR, FACE AND BYPASS DAMPERS.
2.PROVIDE WITH SIDE DISCHARGE, OUTDOOR INTAKE HOOD. BOTTOM RETURN AIR, FACE AND BYPASS DAMPERS.
3.PROVIDE UNIT WITH 3-WAY VALVE.

				COOLING COIL					HEATING COIL					ELECTRICAL						MAX. DIMENSIONS			WEIGHT			
				EAT													DISCONNECT		CONTROLLER/ STARTER							
TAG NAME	AREA SERVED	CFM	MIN. OA CFM	DB °F	WB °F	EWT °F	TOTAL MBH	SENSIBLE MBH	EWT °F	LWT °F	GPM	MBH	Row Count	HP	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	LENGTH	WIDTH	HEIGHT	OPERATING	MANUFACTURER	MODEL	NOTES
UV-1	1	1,212	375	80	67	45	43	32	140	110	5.7	68.4	2	0.75	115 V	1	MFR	NF	MFR	40	100	16.63	680	DAIKIN APPLIED	UAHF9V20	2
UV-2	2	1,212	375	80	67	45	43	32	140	110	5.5	65.4	2	0.75	115 V	1	MFR	NF	MFR	40	100	16.63	680	DAIKIN APPLIED	UAHF9V20	2,3
UV-3	3	1,212	360	80	67	45	43	32	140	110	4.9	59	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-4	4	1,212	360	80	67	45	43	32	140	110	4.9	58.8	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-5	5	1,212	360	80	67	45	43	32	140	110	4.9	58.7	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-6	6	1,212	360	80	67	45	43	32	140	110	4.9	59.8	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-7	7	1,212	360	80	67	45	43	32	140	110	4.9	58.9	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-8	8	1,444	155	80	67	45	54	40	140	110	3.2	38.8	2	0.33	115 V	1	MFR	NF	MFR	98	21.88	30.13	600	DAIKIN APPLIED	UAVR9V15	1
UV-9	9	1,212	360	80	67	45	43	32	140	110	4.9	58.3	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-10	10	1,212	370	80	67	45	43	32	140	110	5	59.6	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-11	11	1,212	360	80	67	45	43	32	140	110	4.9	58.9	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-12	12	1,212	360	80	67	45	43	32	140	110	5	59	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-13	13	1,212	360	80	67	45	43	32	140	110	5	59.8	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-14	14	1,212	360	80	67	45	34	32	140	110	5.6	60.3	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-15	15	1,212	395	80	67	45	43	32	140	110	5.7	57.8	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1,3
UV-16	16	1,212	365	80	67	45	43	32	140	110	3	58.2	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-17	17	979	260	80	67	45	33	24	140	110	4.1	35.6	2	0.33	115 V	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9V10	1
UV-18	STAFF PD	979	350	80	67	45	33	24	140	110	3.7	49.6	2	0.33	115 V	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9V10	1
UV-19	19	1,212	350	80	67	45	43	32	140	110	4.4	44.7	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-20	20	979	360	80	67	45	33	24	140	110	4.2	53	2	0.33	115 V	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9V10	1
UV-21	21	1,212	350	80	67	45	43	32	140	110	4.5	50.7	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-22	22	979	365	80	67	45	33	24	140	110	4.2	53.7	2	0.33	115 V	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9V10	1
UV-23	23	1,212	345	80	67	45	43	32	140	110	4.5	50.6	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-24	24	979	365	80	67	45	33	24	140	110	4.2	53.7	2	0.33	115 V	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9V10	1
UV-25	25	1,212	350	80	67	45	43	32	140	110	4.5	52.4	2	0.33	115 V	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	1
UV-26	26	979	320	80	67	45	33	24	140	110	4.4	47.1	2	0.33	115 V	1	MFR	NF	MFR	74	21.88	30.13	525	DAIKIN APPLIED	UAVR9V10	1,3
UV-27	27	979	265	80	67	45	33	24	140	110	3.9	35.1	2	0.33	115 V	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9V10	1
UV-28	LIBRARY	1,444	410	80	67	45	54	40	140	110	5.8	69.7	2	0.33	115 V	1	MFR	NF	MFR	98	21.88	30.13	600	DAIKIN APPLIED	UAVR9V15	1

PUMP SCHEDULE

NOTES:
1.PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION ----{15170} [22 05 13] [23 05 13].

							ELECTRICAL (NOTE 1)								MAX. DIMENSIONS						
											DISCONNECT		CONTROLLER/ STARTER								
TAG NAME	AREA SERVED	GPM	PUMP FT. HEAD AT DESIGN	MINIMUM PUMP EFFICIENCY	INLET SIZE	IMPELLER ---	HP (NOTE E)	RPM	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	LENGTH	WIDTH	HEIGHT	WEIGHT	MANUFACTURER	MODEL	NOTES
CP-2	HX	18.0	5.00	60	3/4"	0.000	0.33	1000	115	1	EC	NF	MFR	FV	9.5	9.5	15.6	15	SPIRAX SARCO	GC2D151	
HWP-1	BUILDING	96.0	50.00	73	1 1/2"	6.950	1.5	1760	208	3	EC	NF	MFR	VFD	17	10	23.75	157	TACO	KV2007D	
HWP-2	BUILDING	96.0	50.00	73	1 1/2"	6.950	1.5	1760	208	3	EC	NF	MFR	VFD	17	10	23.75	157	TACO	KV2007D	

CONDENSING UNIT SCHEDULE

NOTES:
1.PROVIDE WITH HIGH EFFICIENCY 2-STAGE SCROLL COMPRESSOR AND HIGH EFFICIENCY ECM CONDENSOR FAN MOTOR.
2.PROVIDE WITH RAWAL APR CONTROL COMPRESSION RATIO REDUCTION VALVE.

								ELECTRICAL							MAX. DIMENSIONS			WEIGHT			
												DISCONNECT		CONTROLLER/ STARTER							
TAG NAME	AREA SERVED	NOMINAL DESIGN TONS	REFRIGERANT	HOLDING REFRIGERANT CHARGE	AMBIENT TEMP °F	NUMBER OF STAGES	NUMBER OF FANS	VOLTAGE	PHASES	MCA	MOCP	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	LENGTH	WIDTH	HEIGHT	OPERATING	MANUFACTURER	MODEL (NOTE 1)	NOTES
CU-1	1	3	R-410A	114	95.0	2	1	208	1	28.3	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX18TC0481	1,2
CU-2	2	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX18TC0481	1,2
CU-3	3	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX18TC0481	1,2
CU-4	4	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX18TC0481	1,2
CU-5	5	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX18TC0481	1,2
CU-6	6	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX18TC0481	1,2
CU-7	7	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX18TC0481	1,2
CU-8	8	4	R-410A	204	95.0	2	1	208	1	28.3	45	EC	NF	MFR	35.75	35.75	42.25	302	DAIKIN	DX18TC0481	1,2
CU-9	9	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX16TC0361	1,2
CU-10	10	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX18TC0481	1,2
CU-11	11	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX18TC0481	1,2
CU-12	12	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX18TC0481	1,2
CU-13	13	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX18TC0481	1,2
CU-14	14	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX18TC0481	1,2
CU-15	15	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX16TC0361	1,2
CU-16	16	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX16TC0361	1,2
CU-17	17	2	R-410A	135	95.0	2	1	208	1	15.3	25	EC	NF	MFR	35.75	35.75	40	226	DAIKIN	DX18TC0241	1,2
CU-18	STAFF PD	2	R-410A	135	95.0	2	1	208	1	15.3	25	EC	NF	MFR	35.75	35.75	40	223	DAIKIN	DX18TC0241	1,2
CU-19	19	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX16TC0361	1,2
CU-20	20	2	R-410A	135	95.0	2	1	208	1	15.3	25	EC	NF	MFR	35.75	35.75	40	226	DAIKIN	DX18TC0241	1,2
CU-21	21	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX16TC0361	1,2
CU-22	22	2	R-410A	135	95.0	2	1	208	1	15.3	25	EC	NF	MFR	35.75	35.75	40	226	DAIKIN	DX18TC0241	1,2
CU-23	23	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX16TC0361	1,2
CU-24	24	2	R-410A	135	95.0	2	1	208	1	15.3	25	EC	NF	MFR	35.75	35.75	40	226	DAIKIN	DX18TC0241	1,2
CU-25	25	3	R-410A	114	95.0	2	1	208	1	19.7	30	EC	NF	MFR	35.75	35.75	36.5	223	DAIKIN	DX16TC0361	1,2
CU-26	26	2	R-410A	135	95.0	2	1	208	1	15.3	25	EC	NF	MFR	35.75	35.75	40	226	DAIKIN	DX18TC0241	1,2
CU-27	27	2	R-410A	135	95.0	2	1	208	1	15.3	25	EC	NF	MFR	35.75	35.75	40	226	DAIKIN	DX18TC0241	1,2
CU-28	LIBRAY	4	R-410A	204	95.0	2	1	208	1	28.3	45	EC	NF	MFR	35.75	35.75	42.25	302	DAIKIN	DX18TC0481	1,2

RADIATION SCHEDULE

NOTES:
1.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.

				ELEMENT						CABINET						
TAG NAME	AREA SERVED	MBH	GPM	MAT'L	LENGTH FT.	PIPE SIZE	FIN HEIGHT	FIN WIDTH	NUMBER OF ROWS	FINS PER FOOT	LENGTH	HEIGHT	DEPTH	AVERAGE WATER TEMP °F	MANUFACTURER	MODEL	NOTES
RAD-1	RR	0.94	2.0	ALUMINUM	3' - 10"	3/4"	3 1/2"	3 1/2"	1	42	4' - 0"	14"	4"	165	MODINE	S	1

FAN SCHEDULE

NOTES:
1.1 TO 1 REPLACEMENT OF EXISTING FAN.

						ELECTRICAL (NOTE 1)											
										DISCONNECT		CONTROLLER/ STARTER					
TAG NAME	CFM	S.P. IN. W.C.	FAN RPM (NOTE F)	DRIVE TYPE	MAX. AMCA SONES	BHP	MHP	VOLTAGE	PHASES	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)	WEIGHT	MANUFACTURER	MODEL	NOTES
EF-1	3400	0.25	1075	DIRECT	15.8	0.653	0.75	115	1	MFR	NF	MFR	FV	67	COOK	180 ACED	1
EF-2	3400	0.25	1075	DIRECT	15.8	0.653	0.75	115	1	MFR	NF	MFR	FV	67	COOK	180 ACED	1
EF-3	3600	0.25	1075	DIRECT	15.8	0.653	0.75	115	1	MFR	NF	MFR	FV	67	COOK	180 ACED	1
EF-4	3600	0.25	1075	DIRECT	15.8	0.653	0.75	115	1	MFR	NF	MFR	FV	67	COOK	180 ACED	1
EF-5	5500	0.25	1725	DIRECT	19.4	0.653	0.75	115	1	MFR	NF	MFR	SS	65	COOK	24XLW	1
EF-6	5500	0.25	1725	DIRECT	19.4	0.653	0.75	115	1	MFR	NF	MFR	SS	65	COOK	24XLW	1
EF-7	5500	0.25	1725	DIRECT	19.4	0.653	0.75	115	1	MFR	NF	MFR	SS	65	COOK	24XLW	1
EF-8	5500	0.25	1725	DIRECT	19.4	0.653	0.75	115	1	MFR	NF	MFR	SS	65	COOK	24XLW	1
EF-9	1500	0.25	1550	DIRECT	12.4	0.233	0.25	115	1	MFR	NF	MFR	FV	30	COOK	120 ACED	1
EF-10	1500	0.25	1550	DIRECT	12.4	0.233	0.25	115	1	MFR	NF	MFR	FV	30	COOK	120 ACED	1
EF-11	1100	0.25	1300	DIRECT	9.5	0.142	0.25	115	1	MFR	NF	MFR	FV	30	COOK	120 ACED	1
EF-13	1500	0.25	1550	DIRECT	12.4	0.233	0.25	115	1	MFR	NF	MFR	FV	30	COOK	120 ACED	1
EF-14	275	0.25	1300	DIRECT	4	0.121	0.125	115	1	MFR	NF	MFR	FV	25	COOK	GC	1
EF-15	75	0.25	1300	DIRECT	4	0.121	0.125	115	1	MFR	NF	MFR	FV	25	COOK	GC	1
EF-16	375	0.25	1300	DIRECT	4	0.121	0.125	115	1	MFR	NF	MFR	FV	25	COOK	GC	1
EF-17	75	0.25	1300	DIRECT	4	0.121	0.125	115	1	MFR	NF	MFR	FV	25	COOK	GC	1
EF-18	75	0.25	1300	DIRECT	4	0.121	0.125	115	1	MFR	NF	MFR	FV	25	COOK	GC	1
EF-19	75	0.25	1300	DIRECT	4	0.121	0.125	115	1	MFR	NF	MFR	FV	25	COOK	GC	1
EF-20	75	0.25	1300	DIRECT	4	0.121	0.125	115	1	MFR	NF	MFR	FV	25	COOK	GC	1

HOOD & LOUVERED PENTHOUSE SCHEDULE

NOTES:
1.PROVIDE INSULATED HOODS.

			THROAT SIZE							MAX. DIMENSIONS						
TAG NAME	AREA SERVED	CFM	WIDTH	LENGTH	THROAT VELOCITY	STATIC PRESSURE DROP	FREE AREA (FT ²)	CONFIGURATION	DAMPER TYPE	LENGTH	WIDTH	HEIGHT	WEIGHT	MANUFACTURER	MODEL	NOTES
IH-1	CL1-2	1400	12	36	560	0.05	3	GRAVITY HOOD	GRAVITY	51	26	14	56	Greenheck	FGR-12X36	
RH-1	CL	1400	24	24	560	0.05	4	GRAVITY HOOD	GRAVITY	56	36	14	56	Greenheck	FGI-24X24	1

HEAT EXCHANGER SCHEDULE - STEAM TO WATER

NOTES:
1.STEAM PRESSURE INDICATED IS THE PRESSURE AVAILABLE DOWNSTREAM OF THE CONTROL VALVE.

	WATER				STEAM (NOTE 1)		MAX. DIMENSIONS		WEIGHT			
TAG NAME	GPM	W.P.D. FT. HEAD	EWT °F	LWT °F	PSIG	HEATING SURFACE FT²	LENGTH	DIAMETER	OPERATING	MANUFACTURER	MODEL	NOTES
HX-1	96.0	2.5	150	180	10	40.9	36	1'-4"	353	Taco	G10406S	1

LOUVER SCHEDULE

NOTES:
1.STANDARD COLOR - SELECTION BY ARCHITECT.

			SIZE (INCHES)					
TAG NAME	AREA SERVED	CFM	WIDTH	HEIGHT	S.P. IN. W.C.	MANUFACTURER	MODEL	NOTES
L-1	UV	1000	48	10	0.06	DAIKIN	S10	1
L-2	UV	1250	60	10	0.06	DAIKIN	S13	1
L-3	UV	1500	72	10	0.06	DAIKIN	S15	1

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
MFR = MANUFACTURER
EC = ELECTRICAL CONTRACTOR.
MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR.
ATC = AUTOMATIC TEMPERATURE CONTROL CONTRACTOR

B. DISCONNECT TYPE:
F = FUSED
NF = NON-FUSED

C. CONTROLLER STARTER TYPE:
FV = FULL VOLTAGE
WYE = WYE-DELTA
SS = SOLID STATE (SOFT START)
MS = MANUAL STARTER
VFD = VARIABLE FREQUENCY DRIVE
VFD/B = VARIABLE FREQUENCY DRIVE WITH BYPASS

D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.

E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.

F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.

G. CURB TYPE:
MFR = STANDARD CURB BY MANUFACTURER
GC = BY GENERAL CONTRACTOR
SAC = SOUND ATTENUATOR CURB

EXPANSION TANK SCHEDULE

							DIMENSIONS				
ITEM	SERVICE	TYPE	TANK VOL [GAL]	BRANCH PIPE SIZE [IN]	GLYCOL %	FILL PRESS [PSI]	DIAMETER [IN]	HEIGHT [IN]	OP. WT. [LBS]	MANUFACTURER & MODEL NO.	NOTES
ET-1	HVAC	BLADDER	23	1/2	0%	12.7	16	29.5	120	TACO CA90-125	1

GENERAL NOTES:

1) ALL THERMAL EXPANSION ABSORBERS USED ON DOMESTIC WATER SYSTEMS SHALL BE NSF LISTED.

2) ALL BLADDER TANKS SHALL BE FULL ACCEPTANCE WITH REPLACEABLE BLADDER.

SPECIFIC NOTES:

1) PROVIDE ASME RATED TANK

HVAC PIPING INSULATION SCHEDULE

			PIPE SIZES					
SYSTEM	INSULATION TYPE	FLUID TEMPERATURE RANGE	<1"	1" TO <1-1/2"	1-1/2" TO <4"	4" TO <8"	8" AND LARGER	SPECIFIC NOTES
HEATING HOT WATER, SNOWMELT, STEAM, AND STEAM CONDENSATE	GLASS FIBER OR MINERAL FIBER PREFORMED PIPE INSULATION	< 140 DEG F	1"	1"	1-1/2"	1-1/2"	1-1/2"	

GENERAL NOTES:

1) FOR PIPING EXPOSED TO THE OUTSIDE AMBIENT CONDITIONS OR PIPING PROVIDED WITH HEAT TRACE, INCREASE THICKNESS OF INSULATION BY 1/2".

2) FOR PIPING EXPOSED TO THE OUTSIDE AMBIENT CONDITIONS PROVIDE PROTECTIVE JACKET (SEE SPECIFICATIONS).

3) ALL INSULATION EXPOSED TO UV CONDITIONS SHALL BE PROTECTED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

4) MINIMUM THERMAL CONDUCTIVITY "k" VALUE FOR FLEXIBLE ELASTOMERIC SHALL BE 0.27 AT 75 DEG. F

5) MINIMUM THERMAL CONDUCTIVITY "k" VALUE FOR GLASS FIBER SHALL BE 0.23 AT 75 DEG. F

SPECIFIC NOTES:

1) PROVIDE PIPE INSULATION WICKING SYSTEM ON ALL EXISTING SYTEMS THAT ARE OPERATIONAL DURING INSTALLATION.

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Illinois Design Firm Registration #184007637-0014

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REF. SCALE IN INCHES
PROJECT #21002885.12

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ROCKFORD PUBLIC SCHOOLS

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AGENCY APPROVAL

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.12
Drawn	KEAHAR
Checked	KEVPOP
Approved	BRAPIE

SHEET TITLE
MECHANICAL SCHEDULES

SCALE

Scale:

SHEET NUMBER
M600

21002885.12 11/1/2022 4:47:40 PM ESSER HVAC Improvements - Rolling Green Elementary School

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH
PLAN OR DETAIL NUMBER
PLAN OR DETAIL NAME
VIEW NAME
1/8" = 1'-0"
PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
DETAIL REFERRED TO BY SECTION CUT
SHEET DETAIL IS LOCATED ON
SIM
M101
T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

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 [FLOOR, FLOOR CEILING, AND ROOF CEILING] ASSEMBLIES SHALL BE DESIGNATED AS 1, 1/2, 3/4 HOUR FIRE WALLS, UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 09/12/2022.

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

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	BRANDON PIERSON
MECHANICAL	KEVIN POPE
ELECTRICAL	GAURAV SHARMA

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

ELECTRICAL EXISTING/DEMO SYMBOL LIST

SYMBOL:	DESCRIPTION:
$	SWITCH - SINGLE POLE
	PENDANT LUMINAIRE
	1'X4' LUMINAIRE
	DOWNLIGHT LUMINAIRE
	SINGLE FACE EXIT SIGN
	DOUBLE FACE EXIT SIGN
	CEILING EMERGENCY EXIT SIGN
	DUPLEX RECEPTACLE, 125V
	QUAD RECEPTACLE, 125V
	RECEPTACLE, 6-20R, 250V
E	ELECTRICAL CONNECTION
J	JUNCTION BOX
	PANELBOARD - RECESS MOUNT
	PANELBOARD - SURFACE MOUNT
	NON FUSED/FUSED DISCONNECT.
	TRANSFORMER
WM	WIREMOLD
M	ELECTRICAL METER
S	SPEAKER
CM	FIRE ALARM ADDRESSABLE CONTROL MODULE
F #	AUDIO HORN ALARM DEVICE, CEILING OR WALL MOUNTED
EB	ELECTRIC BELL
C	CLOCK

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
GB	GB	26 05 26	GROUND BUS
IBT	IBT	26 05 26	INTERSYSTEM BONDING TERMINATION
E E	ECONN	26 05 33	ELECTRICAL CONNECTION
J J	JB	26 05 33	JUNCTION BOX
	N/A	26 05 35	ELECTRICAL WIREWAY w/ DEVICES SHOWN
DPM	DPM	26 24 13	DIGITAL POWER METER
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
	MX-#/MS-#	26 24 19	MANUAL SWITCH / STARTER. REFER TO DISC/STA SCHEDULE
	DS-#/FDS-#	26 28 16	DISCONNECT. REFER TO DISC/STA SCHEDULE
W	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
	REC-SIM-620R	26 27 26	RECEPTACLE, 6-20R, 250V

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION
DP-#	DISTRIBUTION PANEL	26 24 16
MC-#	EXTERIOR MOUNTED METERING CABINET	26 20 00
MS-#	MANUAL STARTER, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
SPD-#	SURGE PROTECTION DEVICE	26 43 00
VFD-#	VARIABLE FREQUENCY DRIVE - REFER TO VFD SCHEDULE	26 29 23

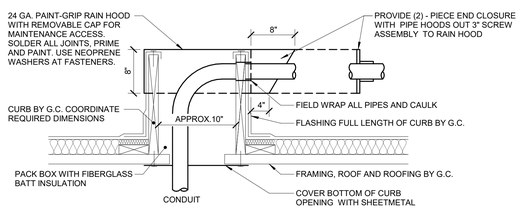
ELECTRICAL SHEET INDEX

E000	ELECTRICAL COVERSHEET
E101A	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA A
E101B	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA B
E101C	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA C
E101D	FIRST FLOOR DEMOLITION - ELECTRICAL - AREA D
E102B	ROOF DEMOLITION - ELECTRICAL - AREA B
E102D	ROOF DEMOLITION - ELECTRICAL - AREA D
E200	LOWER LEVEL - ELECTRICAL
E201A	FIRST FLOOR - ELECTRICAL - AREA A
E201B	FIRST FLOOR - ELECTRICAL - AREA B
E201C	FIRST FLOOR - ELECTRICAL - AREA C
E201D	FIRST FLOOR - ELECTRICAL - AREA D
E202A	ROOF - ELECTRICAL - AREA A
E202B	ROOF - ELECTRICAL - AREA B
E202C	ROOF - ELECTRICAL - AREA C
E202D	ROOF - ELECTRICAL - AREA D
E500	ELECTRICAL DIAGRAMS
E700	ELECTRICAL PANEL SCHEDULES
GRAND TOTAL: 18	

CONDUIT INSTALLATION SCHEDULE

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

INSTALLATION TYPE	RMC	EMT	PVC	HDPE	ASR
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X			
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X			
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X			
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X			
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X			
FINISHED SPACES / CONCEALED		X			
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X				
CORROSIVE LOCATIONS					
ELEVATED CONCRETE SLABS (ABOVE GRADE)	X				
INTERIOR LOCATIONS: CONCEALED		X			
INTERIOR LOCATIONS: EXPOSED		X			
INTERIOR LOCATIONS: EXISTING WALLS AND EXPOSED INSTALLATION (FINISHED SPACES)		X	X		X
UNDERGROUND / SLABS ON GRADE (IN OR UNDER SLABS ON GRADE)					
WITHIN 5' FROM THE PERIMETER OF THE BUILDING	X		X		
WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PASSING THROUGH THE PERIMETER OF THE BUILDING FOUNDATION:	X				
UNDERGROUND SITE CONDUITS:					
WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION	X				
5' OR GREATER FROM THE PERIMETER OF A BUILDING FOUNDATION	X		X		
UNDER ROADS, DRIVES, AND VEHICLE TRAVELED WAYS. WHEN HDPE DIRECTIONAL BORING IS ALLOWED: PROVIDE PRESSURIZED GROUT			X	X	



1 ROOF PENETRATION WITH HOOD

NO SCALE

NOTES:

1. VERIFY FINAL REQUIREMENTS WITH GENERAL CONTRACTOR (G.C.) PRIOR TO INSTALLATION.

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 PHASE.
3. FLUSH MOUNT ALL DUPLEX RECEPTACLES 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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 FINISH.
9. 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.
10. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

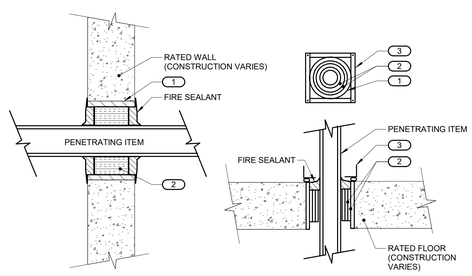
ELECTRICAL RENOVATION NOTES:

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 FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
5. THE CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
7. 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.
8. COORDINATE HOURS OF ACCESS WITH OWNER.
9. WHERE WALL SWITCH DEVICE IS REMOVED AND NOT REPLACED, PROVIDE WITH BLANK SWITCH PLATE.
10. EXPOSED 3/4" CONDUIT TO NEW OR EXISTING FIXTURES OR DEVICES IS ACCEPTABLE AS LONG AS IT IS INSTALLED IN A NEAT AND ORDERLY METHOD AND MEETS ADOPTED CODES. COORDINATE NEW RUNS WITH OWNER PRIOR TO INSTALLATIONS.
11. REPLACE CEILING TILES WITH LIKE IN AREAS WITH A REDUCTION IN LUMINAIRE. REUSE EXISTING CEILING TILES WHERE APPLICABLE. PROVIDE NEW TO MATCH EXISTING IF REQUIRED. ADJUST AND MOVE AIR RETURN GRILLS AS REQUIRED TO COORDINATE WITH REVISED LUMINAIRE LAYOUT IN AREAS WITH A LAYIN CEILING.

ELECTRICAL GENERAL NOTES:

1. 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.



2 FIRE BARRIER PENETRATION

NO SCALE

NOTES:

1. 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 FOR ADDITIONAL INFORMATION.

KEYNOTES: #

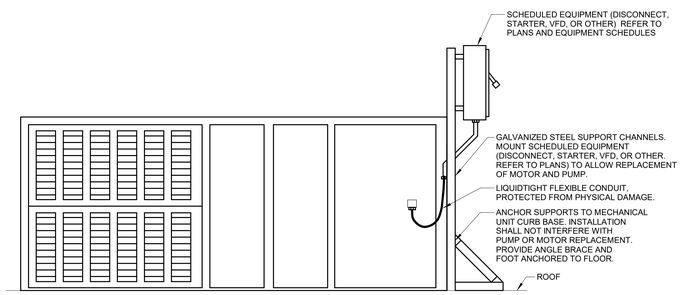
1. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO G.C., COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
2. 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.
3. WATER-TIGHT 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.

DISCONNECT AND STARTER SCHEDULE

NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE.

DISCONNECT TYPE:	ACCESSORIES & OPTIONS	
FU - FUSED	SA - STANDARD ACCESSORIES (INCLUDES * ITEMS)	PF - PHASE LOSS PROTECTION (5 HP OR GREATER, 3 PHASE...
NF - NON-FUSED	*CT - CONTROL TRANSFORMER, FUSED 120V	TO - MELTING THERMAL OVERLOADS (1 PHASE)
CB - CIRCUIT BREAKER	*EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS)	TS - 2 SPEED SELECTOR SWITCH IN DOOR
	*HA - HAND-OFF-AUTO IN DOOR	GP - GREEN (OFF) PILOT LIGHT IN DOOR
STARTER TYPE:	*RP - RED (RUN) PILOT LIGHT IN DOOR	FA - 4-CONVERTIBLE AUXILIARY CONTACTS
FV - FULL VOLTAGE	*TA - TWO CONVERTIBLE AUXILIARY CONTACTS	EI - ELECTRICAL INTERLOCK (2)-N.O. & (2)-N.C.
YD - WYE - DELTA	S/N - INSULATED NEUTRAL ASSEMBLY	SS - START-STOP PUSHBUTTON IN DOOR
RE - REVERSING		HL - HANDLE PADLOCK HASP
TW - 2 SPEED, 2 WINDING		
SW - 2 SPEED, 1 WINDING		
RV - REDUCED VOLTAGE AUTOXFMR		
SS - SOLID STATE		
MS - MANUAL STARTER		
MX - MANUAL SWITCH		
FS - FUSED SWITCH		
AMS-ASSEMBLED MOTOR STARTER		

ITEM	DISCONNECT TYPE & RATING: TYPE	RATING	VOLTAGE	POLES	STARTER: NEMA SIZE	TYPE	ENCLOSURE	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
MS-CP-2		16 A	120 V	1	0	MS	NEMA 1	RP,TO	
FDS-CU-1	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-2	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-3	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-4	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-5	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-6	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-7	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-8	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-9	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-10	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-11	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-12	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-13	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-14	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-15	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-16	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-17	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-18	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-19	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-20	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-21	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-22	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-23	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-24	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-25	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-26	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-27	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	
FDS-CU-28	FU	30 A	208 V	2			NEMA 3R	FUSE SIZE TO BE COORDINATED BASED ON FLA FOR APPROVED UNIT, WITH NEUTRAL	



3 ROOF MOUNTED DISCONNECT DETAIL

NO SCALE

NOTES:

1. COORDINATE EQUIPMENT INSTALLATION (DISCONNECT, STARTER, VFD, OR OTHER) AND POWER CONNECTION WITH THE CONTRACTOR PROVIDING THE FLOOR MOUNTED EQUIPMENT (MOTOR, PUMP, CONDENSING UNIT, OTHER).
2. FIELD COORDINATE INSTALLATION WITH EQUIPMENT LOCATION AND ORIENTATION TO ALLOW REPLACEMENT OF EQUIPMENT AND CODE REQUIRED CLEARANCES.

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Illinois Design Firm Registration #184007837-0014

REF. SCALE IN INCHES — PROJECT #21002885.12

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KEY PLAN

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REFERENCE SCALE IN INCHES

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.12
Drawn	RAJMAK
Checked	MATSNY
Approved	GAUSHA

SHEET TITLE
ELECTRICAL COVERSHEET

SCALE
Scale: As indicated

SHEET NUMBER
E000

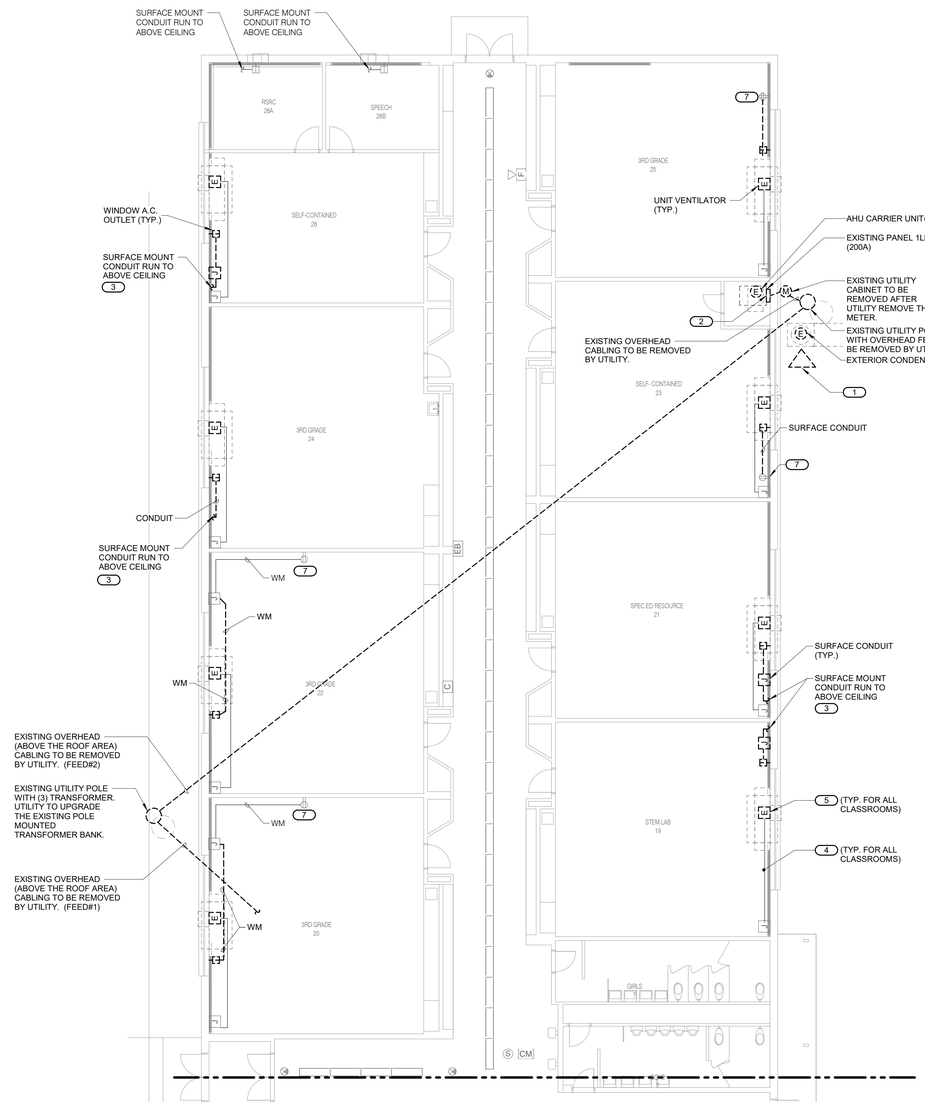
21002885.12 11/2/2022 12:21:48 PM ESSER HVAC Improvements - Rolling Green Elementary School

SHEET NOTES:

1. REFER TO RENOVATION NOTES ON THE ELECTRICAL COVER SHEET 'E000' AND THE ELECTRICAL SPECIFICATIONS SECTION '26 05 05' FOR MORE DETAILS ON ELECTRICAL DEMOLITION WORK.
2. WHERE APPLICABLE, RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT DURING DEMOLITION WORK FOR REUSE.
3. PROVIDE BLANK COVER PLATES FOR THE EMPTY BACKBOXES THAT WOULD REMAIN VISIBLE ON INTERIOR/EXTERIOR WALLS AFTER THE REMOVAL OF ELECTRICAL DEVICES.

KEYNOTES: #

1. EXISTING BURIED ELECTRICAL GROUND GRID TO BE DISCONNECTED AND ABANDONED.
2. REMOVE EXISTING BRANCH CIRCUIT(S), SERVING THE EXISTING REMAINING LOADS, UP TO NEW PULL BOX AND SPLICE WITH NEW BRANCH CIRCUIT(S). REFER TO E201A FOR MORE DETAILS.
3. REMOVE BRANCH CIRCUIT WIRING TO SOURCE PANEL ALTHOUGH MAINTAIN CONTINUITY OF POWER TO EXISTING REMAINING LOADS IF FOUND CONNECTED TO THIS BRANCH CIRCUIT WIRING. REMOVE THE RACEWAY (CONDUIT OR WIREMOLD) UPTO THE FIRST J-BOX LOCATED ABOVE CEILING.
4. REMOVE EXISTING BRANCH CIRCUIT WIRING , SERVING THE MECHANICAL UNIT, BACK TO THE SOURCE PANEL BUT KEEP THE EXISTING CONDUIT AND/OR THE SURFACE RACEWAY FOR REUSE. OTHER BRANCH CIRCUITS SERVING THE GENERAL POWER OUTLETS SHALL BE RETAINED FOR REUSE AND EXTENSION TO MAINTAIN CONTINUITY OF POWER TO REMAINING GENERAL POWER OUTLET(S).
5. REMOVE EXISTING POWER CONNECTION AND ASSOCIATED WIRING. MODIFY EXISTING RACEWAY (REMOVE PORTION OF IT OR EXTEND IT) AS NEEDED TO SERVE THE NEW MECHANICAL UNIT FROM THE NEW BRANCH CIRCUIT WIRING.
6. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT,STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
7. MAINTAIN CONTINUITY OF POWER, FROM THE EXISTING REMAINING BRANCH CIRCUIT, TO EXISTING REMAINING POWER OUTLET(S). PROVIDE NEW WIRING (2#12 & 1#12GND.) USING NEW ARCHITECTURAL SURFACE RUN AS NEEDED FOR EXISTING CIRCUIT EXTENSION. NEW ARCHITECTURAL SURFACE EXTENSION RUN SHALL BE INSTALLED IN COORDINATION WITH THE NEW MECHANICAL UNIT. FIELD VERIFY THE REQUIREMENTS.



1 FIRST FLOOR DEMOLITION - ELECTRICAL - AREA A

1/8" = 1'-0"

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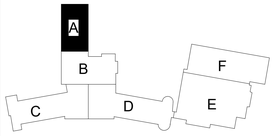
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

FIRST FLOOR DEMOLITION - ELECTRICAL - AREA A

SCALE

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

SHEET NUMBER

E101A

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REF. SCALE IN INCHES

PROJECT #21002885.12

SHEET NOTES:

1. REFER TO RENOVATION NOTES ON THE ELECTRICAL COVER SHEET 'E000' AND THE ELECTRICAL SPECIFICATIONS SECTION '26 05 05' FOR MORE DETAILS ON ELECTRICAL DEMOLITION WORK.
2. WHERE APPLICABLE, RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT DURING DEMOLITION WORK FOR REUSE.
3. PROVIDE BLANK COVER PLATES FOR THE EMPTY BACKBOXES THAT WOULD REMAIN VISIBLE ON INTERIOR/EXTERIOR WALLS AFTER THE REMOVAL OF ELECTRICAL DEVICES.

KEYNOTES: (#)

1. EXISTING BURIED ELECTRICAL GROUND GRID TO BE DISCONNECTED AND ABANDON.
2. MAINTAIN CONTINUITY OF POWER, FROM THE EXISTING REMAINING BRANCH CIRCUIT, TO EXISTING REMAINING POWER OUTLET(S). PROVIDE NEW WIRING (2#12 & 1#12GND.) USING NEW ARCHITECTURAL SURFACE RUN AS NEEDED FOR EXISTING CIRCUIT EXTENSION. NEW ARCHITECTURAL SURFACE EXTENSION RUN SHALL BE INSTALLED IN COORDINATION WITH THE NEW MECHANICAL UNIT. FIELD VERIFY THE REQUIREMENTS.
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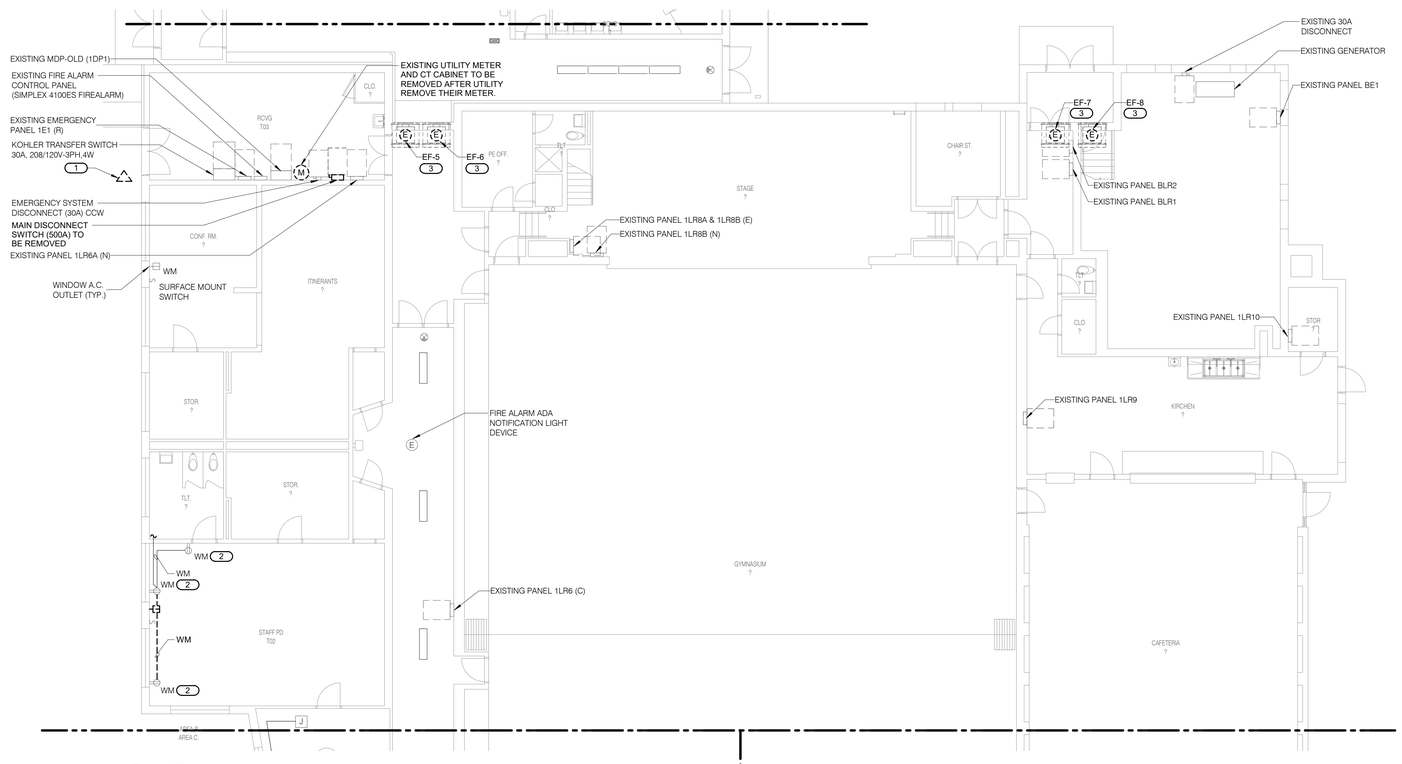

2 FIRST FLOOR DEMOLITION - ELECTRICAL - AREA B

1/8" = 1'-0"

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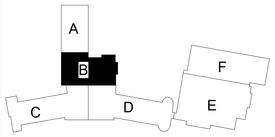
KEY PLAN



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SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

FIRST FLOOR DEMOLITION - ELECTRICAL - AREA B

SCALE

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

SHEET NUMBER

E101B

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REF. SCALE IN INCHES

PROJECT #21002885.12

21002885.12 11/2/2022 12:21:51 PM ESSER HVAC Improvements - Rolling Green Elementary School

SHEET NOTES:

1. REFER TO RENOVATION NOTES ON THE ELECTRICAL COVER SHEET 'E000' AND THE ELECTRICAL SPECIFICATIONS SECTION '26 05 05' FOR MORE DETAILS ON ELECTRICAL DEMOLITION WORK.
2. WHERE APPLICABLE, RETAIN EXISTING WALL RECESSED BACKBOX AND CONCEALED CONDUIT DURING DEMOLITION WORK FOR REUSE.
3. PROVIDE BLANK COVER PLATES FOR THE EMPTY BACKBOXES THAT WOULD REMAIN VISIBLE ON INTERIOR/EXTERIOR WALLS AFTER THE REMOVAL OF ELECTRICAL DEVICES.

KEYNOTES: (#)

1. REMOVE EXISTING BRANCH CIRCUIT WIRING, SERVING THE MECHANICAL UNIT, BACK TO THE SOURCE PANEL BUT KEEP THE EXISTING CONDUIT AND/OR THE SURFACE RACEWAY FOR REUSE. OTHER BRANCH CIRCUITS SERVING THE GENERAL POWER OUTLETS SHALL BE RETAINED FOR REUSE AND EXTENSION TO MAINTAIN CONTINUITY OF POWER TO REMAINING GENERAL POWER OUTLET(S).
2. REMOVE EXISTING OUTLET AND ASSOCIATED WIRING. MODIFY EXISTING RACEWAY (REMOVE PORTION OF IT OR EXTEND IT) AS NEEDED TO SERVE THE NEW MECHANICAL UNIT FROM THE NEW BRANCH CIRCUIT WIRING.
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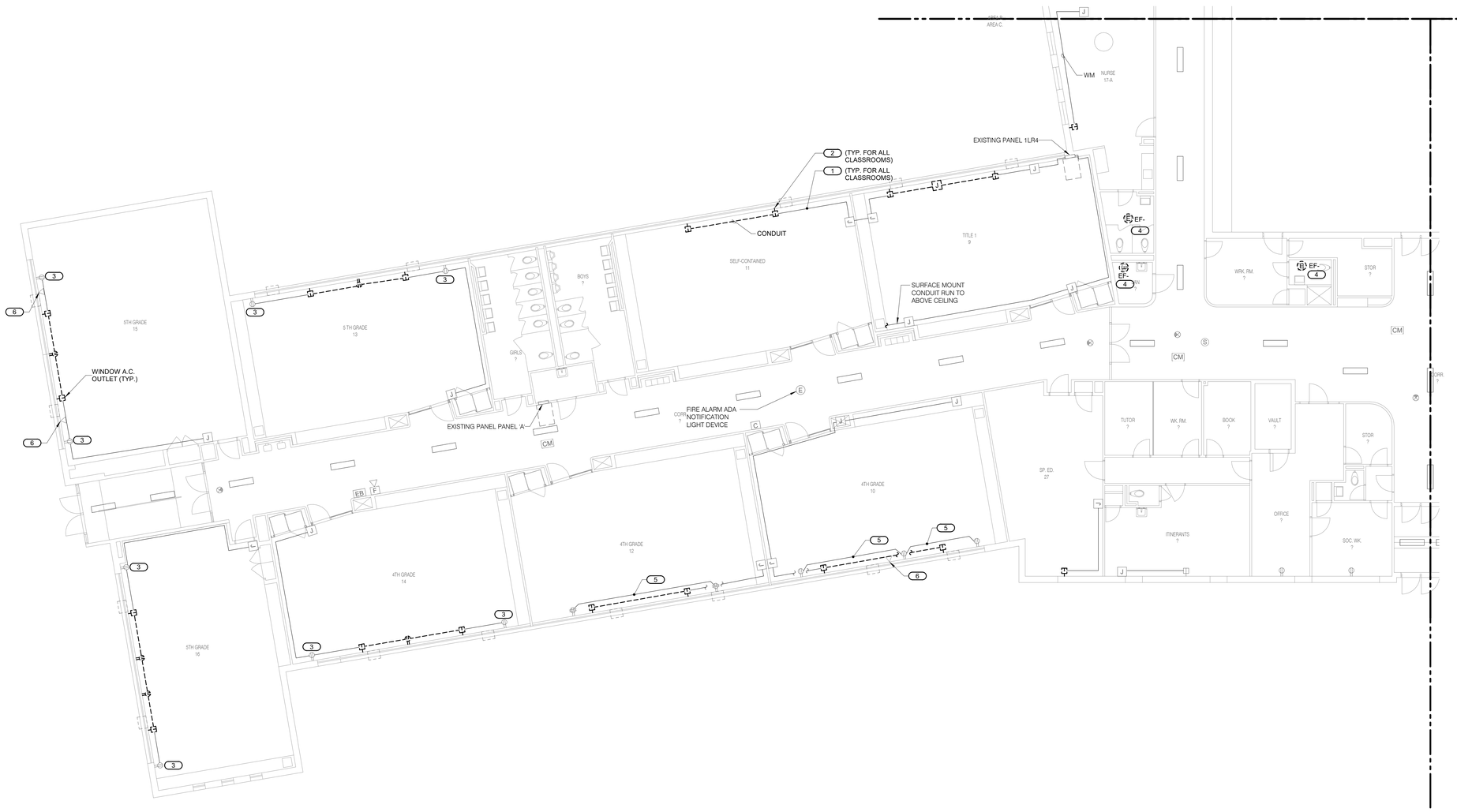
4. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT AND ASSOCIATED DISCONNECT. RETAIN EXISTING BRANCH CIRCUIT AND PREPARE IT TO SERVE THE NEW EQUIPMENT AT NEW LOCATION. FIELD VERIFY THE REQUIREMENTS.
5. WORK ON ONE EXISTING POWER CIRCUIT SURFACE RACEWAY TO REROUTE AS NEEDED FOR THE NEW MECHANICAL UNIT ON THIS WALL. PROVIDE NEW SURFACE RACEWAY AND NEW BRANCH CIRCUIT WIRING AS NEEDED. FIELD VERIFY THE REQUIREMENTS.
6. RELOCATE THE DATA OUTLET ON THE SAME WALL OUTSIDE OF THE FOOTPRINT OF THE NEW MECHANICAL UNIT". ADJUST THE EXISTING LOW VOLTAGE WIRING AND ASSOCIATED SURFACE RACEWAY AS NEEDED.



1 FIRST FLOOR DEMOLITION - ELECTRICAL - AREA C

1/8" = 1'-0"

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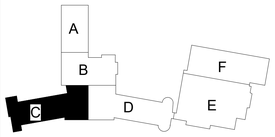
KEY PLAN



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REFERENCE SCALE IN INCHES

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

FIRST FLOOR DEMOLITION - ELECTRICAL - AREA C

SCALE

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

SHEET NUMBER

E101C

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0 1 2 3

REF. SCALE IN INCHES PROJECT #21002885.12

SHEET NOTES:

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KEYNOTES: (#)

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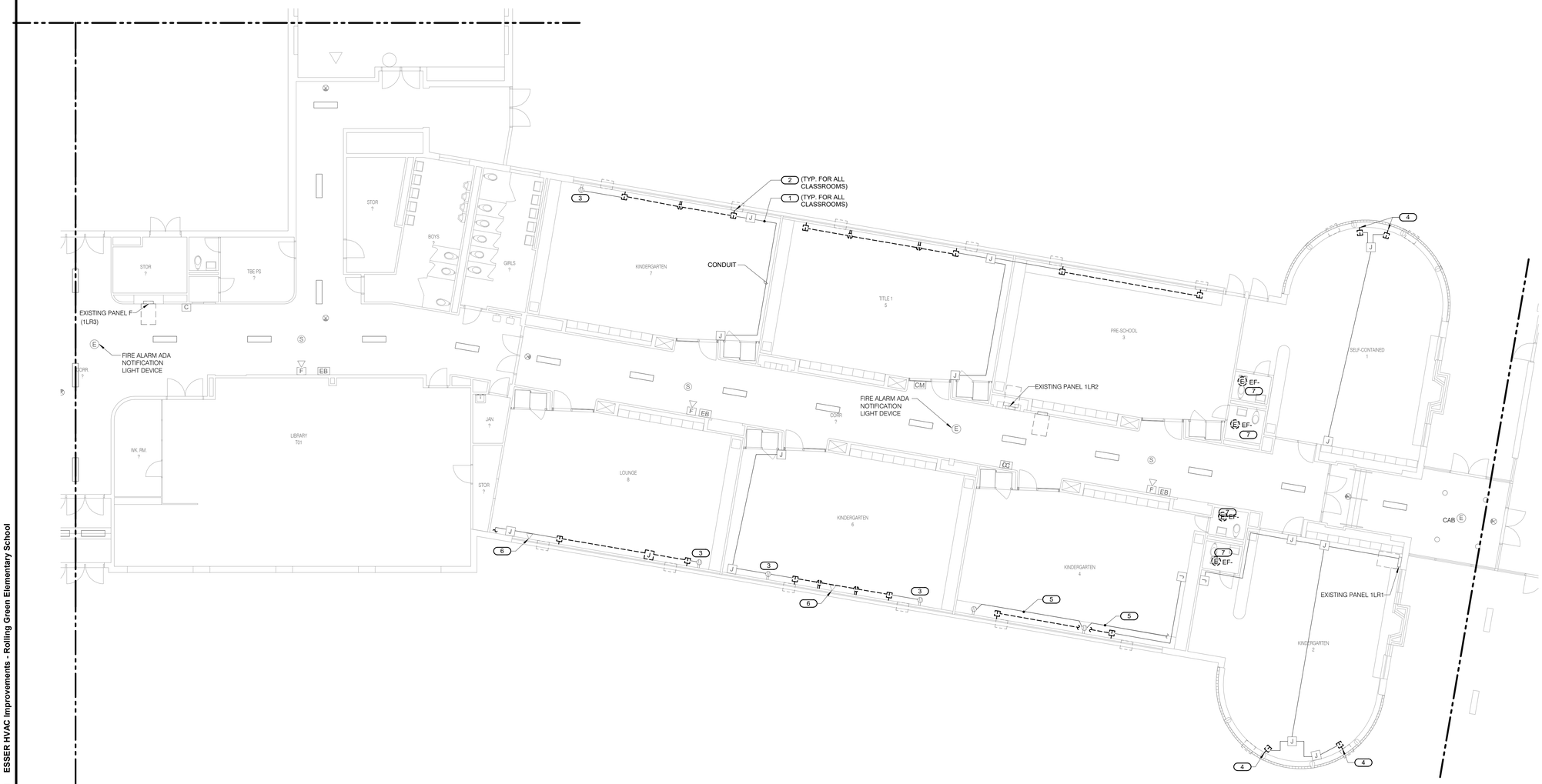
4. DISCONNECT AND REPLACE THE EXISTING OUTLET(S). PROVIDE NEW WIRING (MATCH WITH EXISTING TYPE AND SIZE) IN NEW RACEWAY AS NEEDED.
5. WORK ON ONE EXISTING POWER CIRCUIT SURFACE RACEWAY TO REROUTE AS NEEDED FOR THE NEW MECHANICAL UNIT ON THIS WALL. PROVIDE NEW SURFACE RACEWAY AND NEW BRANCH CIRCUIT WIRING AS NEEDED. FIELD VERIFY THE REQUIREMENTS.
6. RELOCATE THE DATA OUTLET ON THE SAME WALL OUTSIDE OF THE FOOTPRINT OF THE NEW MECHANICAL UNIT". ADJUST THE EXISTING LOW VOLTAGE WIRING AND ASSOCIATED SURFACE RACEWAY AS NEEDED.
7. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT AND ASSOCIATED DISCONNECT. RETAIN EXISTING BRANCH CIRCUIT AND PREPARE IT TO SERVE THE NEW EQUIPMENT AT NEW LOCATION. FIELD VERIFY THE REQUIREMENTS.



NORTH

1 FIRST FLOOR DEMOLITION - ELECTRICAL - AREA D

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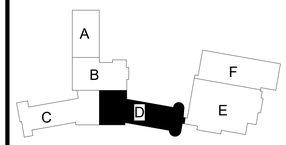
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

FIRST FLOOR DEMOLITION - ELECTRICAL - AREA D

SCALE

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

SHEET NUMBER

E101D

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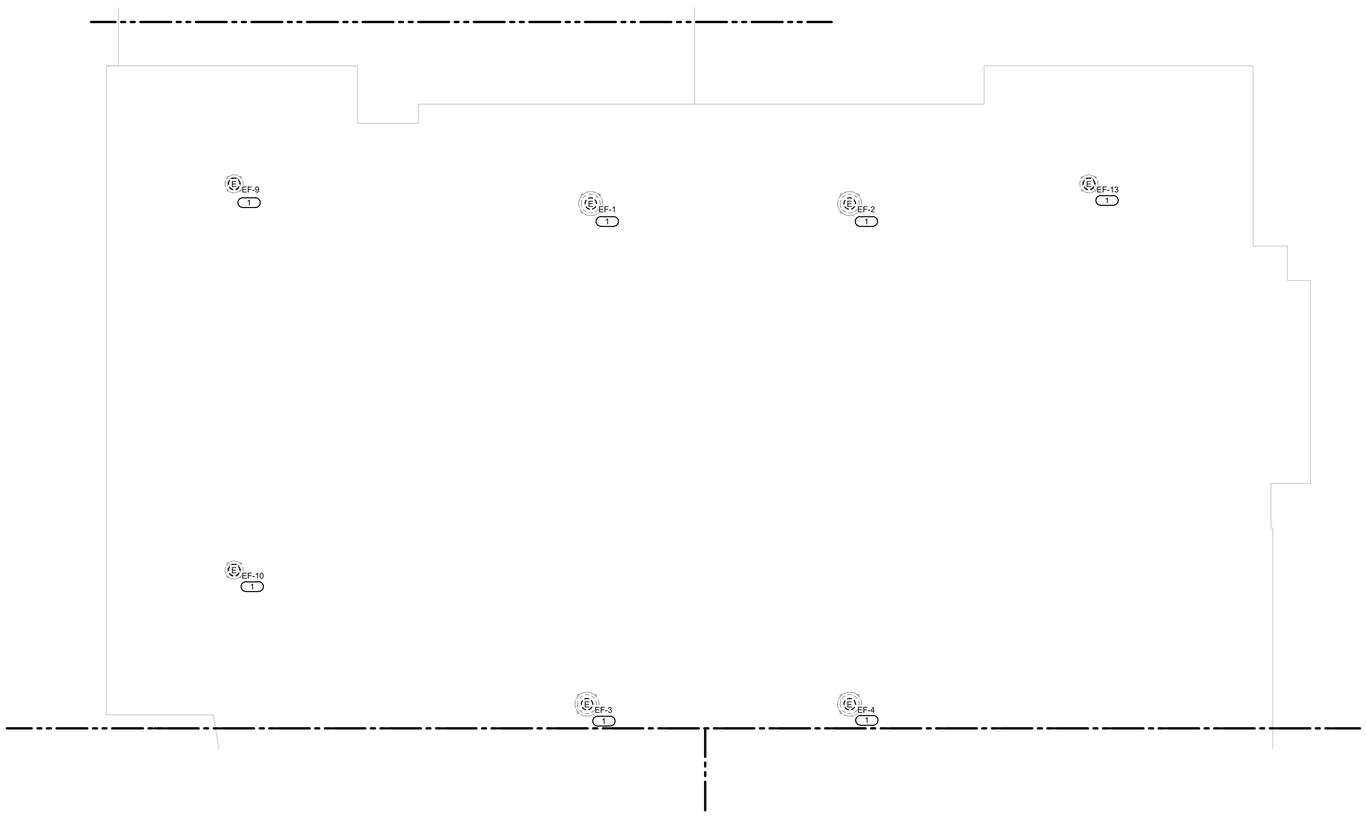
REF. SCALE IN INCHES PROJECT #21002885.12

SHEET NOTES:

1. REFER TO RENOVATION NOTES ON THE ELECTRICAL COVER SHEET 'E000' AND THE ELECTRICAL SPECIFICATIONS SECTION '26 05 05' FOR MORE DETAILS ON ELECTRICAL DEMOLITION WORK.

KEYNOTES: #

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT AND ASSOCIATED DISCONNECT. RETAIN EXISTING BRANCH CIRCUIT AND PREPARE IT TO SERVE THE NEW EQUIPMENT AT NEW LOCATION. FIELD VERIFY THE REQUIREMENTS.



NORTH

1 ROOF DEMOLITION - ELECTRICAL - AREA B

1/8" = 1'-0"

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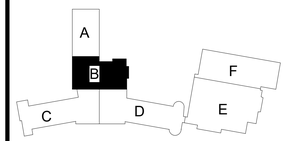
KEY PLAN



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REVISIONS

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SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

ROOF DEMOLITION - ELECTRICAL - AREA B

SCALE

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

SHEET NUMBER

E102B

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REF. SCALE IN INCHES

PROJECT #21002885.12

SHEET NOTES:

1. REFER TO RENOVATION NOTES ON THE ELECTRICAL COVER SHEET 'E000' AND THE ELECTRICAL SPECIFICATIONS SECTION '26 05 05' FOR MORE DETAILS ON ELECTRICAL DEMOLITION WORK.

KEYNOTES: (#)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT AND ASSOCIATED DISCONNECT. RETAIN EXISTING BRANCH CIRCUIT AND PREPARE IT TO SERVE THE NEW EQUIPMENT AT NEW LOCATION. FIELD VERIFY THE REQUIREMENTS.

NORTH

1 **ROOF DEMOLITION - ELECTRICAL - AREA D**
1/8" = 1'-0"

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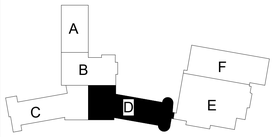
KEY PLAN



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SHEET INFORMATION

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Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

ROOF DEMOLITION - ELECTRICAL - AREA D

SCALE

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

SHEET NUMBER

E102D

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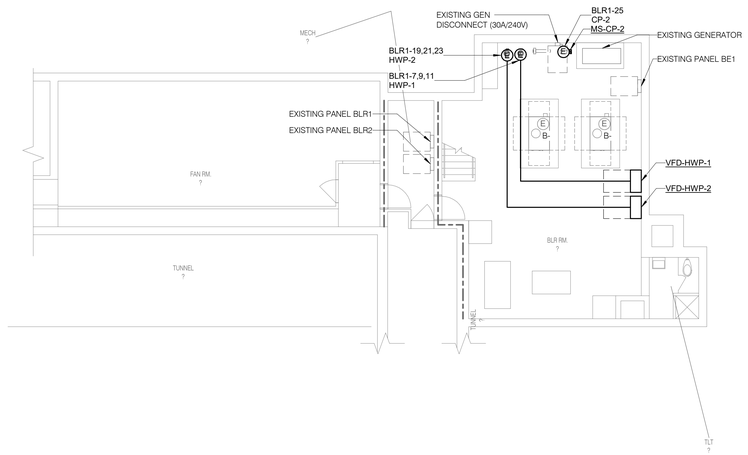
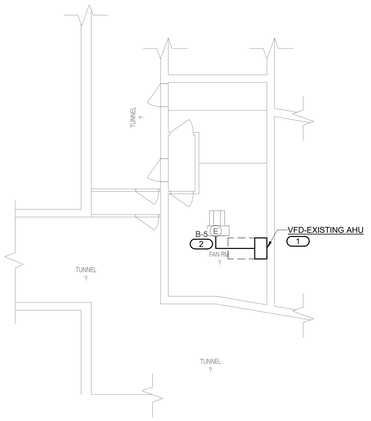
PROJECT #21002885.12

KEYNOTES: (#)

1. E.C. TO FIELD VERIFY THE EXISTING FAN SIZE AND REVISE THE VFD SIZE ACCORDINGLY FOR EXISTING AHU.
2. EXTEND EXISTING MECHANICAL UNIT CIRCUIT TO SERVE SHOWN UNIT VIA NEW VFD. PROVIDE NEW WIRING AND CONDUIT (MATCH WITH EXISTING WIRE SIZE AND TYPE) AS REQUIRED.



NORTH 1 **LOWER LEVEL - ELECTRICAL - AREA B**
1/8" = 1'-0"



NORTH 2 **LOWER LEVEL - ELECTRICAL - AREA D**
1/8" = 1'-0"

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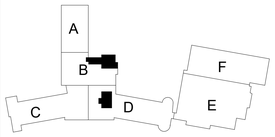
KEY PLAN



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Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE
LOWER LEVEL - ELECTRICAL

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

SHEET NUMBER
E200

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REF. SCALE IN INCHES

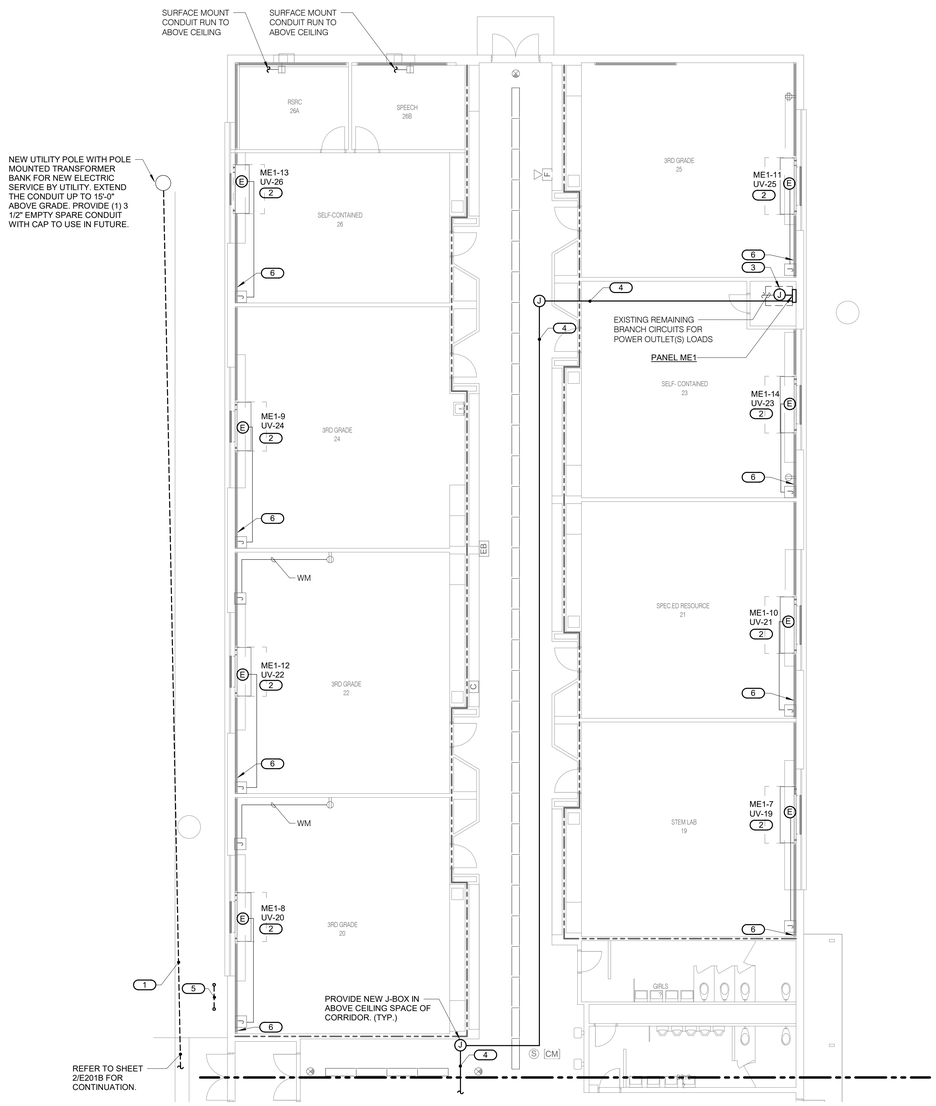
PROJECT #21002885.12

SHEET NOTES:

1. ALL SHOWN 208/120V POWER BRANCH CIRCUITS ARE FED FROM PANEL 'ME1' IN THE AREA A, UNLESS NOTED OTHERWISE.

KEYNOTES: (#)

1. NEW UNDERGROUND ELECTRICAL SECONDARY SERVICE PER DETAIL 4/E500. E.C. TO FIELD COORDINATE THE ELECTRICAL UNDERGROUND CONDUIT ROUTING WITH CIVIL AND MECHANICAL CONTRACTOR AND WITH EXISTING UTILITIES IN THE AREA PRIOR TO INSTALLATION.
2. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.
3. PROVIDE PULL BOX (SIZE AS NEEDED TO MEET NEC REQUIREMENTS). FIELD VERIFY THE EXACT LOCATION. PROVIDE NEW WIRING AND CONDUIT (MATCH WITH EXISTING SIZE AND TYPE) FROM NEW BREAKER OF PANEL 'ME1' TO NEW PULL BOX TO SPLICE WITH EXISTING CIRCUIT. REMAINS FROM EXISTING DEMO PANEL 1LR7, TO SERVE THE EXISTING OUTLET LOADS. REFER TO PANEL SCHEDULE ON SHEET E700 FOR MORE INFORMATION.
4. RUN FEEDER CIRCUIT FOR THE NEW PANEL IN THE ABOVE CEILING SPACE. DISCONNECT AND RECONNECT EXISTING LIGHTS AS NEEDED FOR THE REMOVAL OF THE CEILING IN THE SPACE TO INSTALL NEW CONDUIT IN ABOVE CEILING SPACE.
5. NEW GROUND GRID FOR NEW 208Y/120V RATED ELECTRIC SERVICE. REFER TO SHEET E500 RISER DIAGRAM FOR MORE DETAILS. FIELD COORDINATE EXACT LOCATION.
6. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR MORE DETAILS ON NEW ROOF OPENING IN THE SPACE. UTILIZE THE SAME ROOF OPENING TO EXTEND NEW BRANCH CIRCUIT CONDUIT TO THE ROOF MOUNTED CONDENSING UNIT. FROM THE SOURCE PANEL, RUN THAT BRANCH CIRCUIT IN THE ACCESSIBLE ABOVE CEILING SPACE TO THIS ROOF OPENING LOCATION.



1 FIRST FLOOR - ELECTRICAL - AREA A

1/8" = 1'-0"

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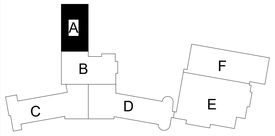
KEY PLAN



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REVISIONS

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SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

FIRST FLOOR - ELECTRICAL - AREA A

SCALE

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

SHEET NUMBER

E201A

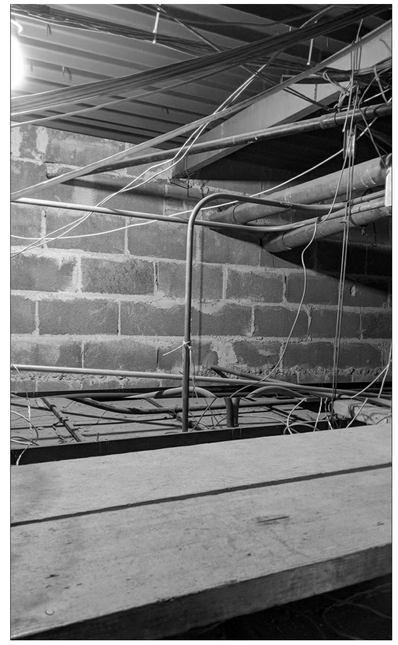
21002885.12 11/2/2022 12:21:55 PM ESSER HVAC Improvements - Rolling Green Elementary School

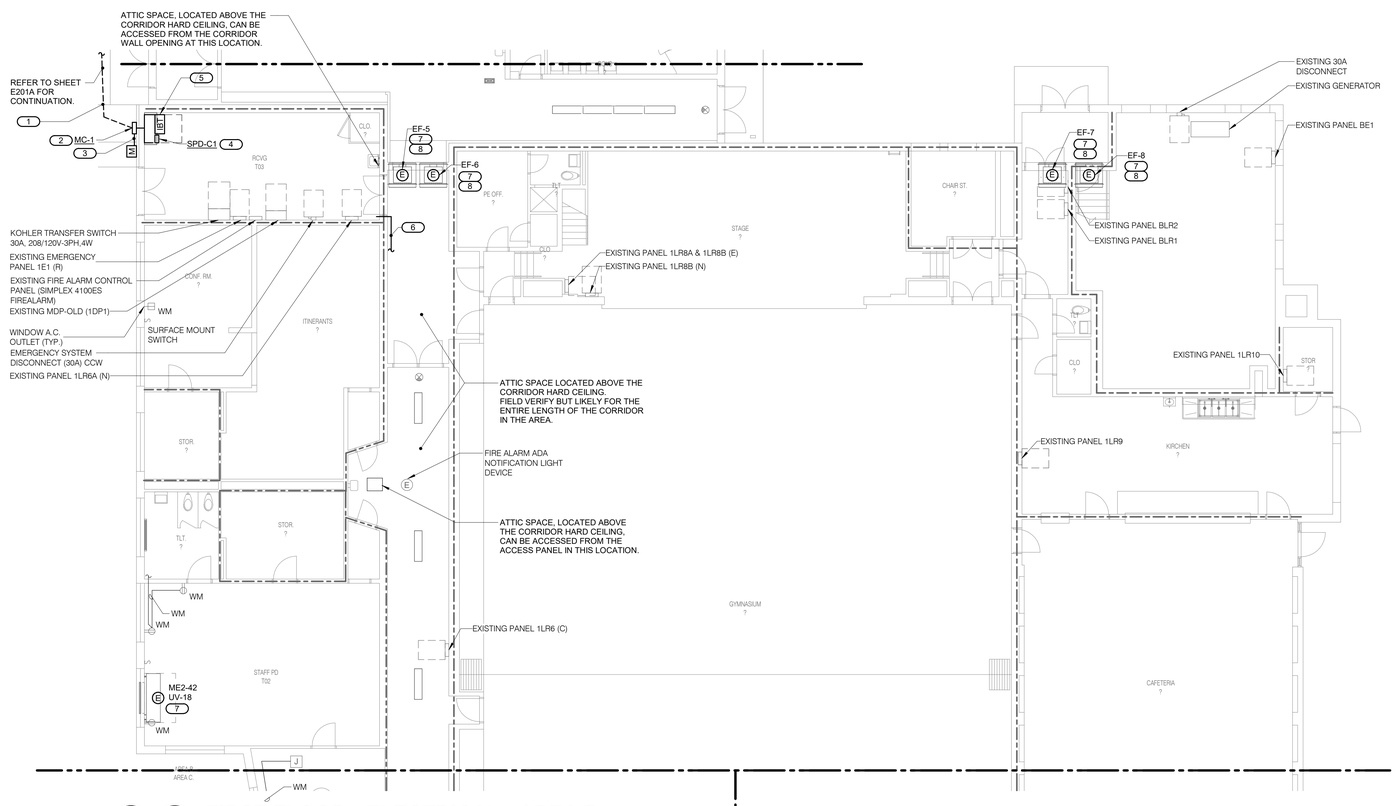
SHEET NOTES:

1. ALL SHOWN 208/120V POWER BRANCH CIRCUITS ARE FED FROM PANEL 'ME2' IN THE AREA A, UNLESS NOTED OTHERWISE.
2. A COUPLE OF PHOTOS OF THE ATTIC SPACE HAVE BEEN PROVIDED HERE FOR REFERENCE PURPOSES ONLY. CONTRACTOR TO FIELD VERIFY THE EXISTING CONDITIONS OF THE ATTIC SPACE AND PREPATE THE ELECTRICAL BID ACCORDINGLY TO INSTALL THE NEW FEEDER AND BRANCH CIRCUIT CONDUITS.

KEYNOTES: (#)

1. NEW UNDERGROUND ELECTRICAL SECONDARY SERVICE PER DETAIL 4/E500. E.C. TO FIELD COORDINATE THE ELECTRICAL UNDERGROUND CONDUIT ROUTING WITH CIVIL AND MECHANICAL CONTRACTOR AND WITH EXISTING UTILITIES IN THE AREA PRIOR TO INSTALLATION.
2. EXTERIOR NEMA 3R RATED CT CABINET. E.C. TO PROVIDE METER AND CT CABINET PER UTILITY COMPANY REQUIREMENTS. UTILITY METER FURNISHED AND INSTALLED BY UTILITY COMPANY.
3. PROVIDE (1) 1" EMPTY CONDUIT BETWEEN CT CABINET AND METER CABINET FOR UTILITY PROVIDED METER WIRING.
4. COORDINATE MOUNTING LOCATION IN FIELD TO INSTALL SURGE PROTECTIVE DEVICE ON WALL ABOVE THE DISTRIBUTION BOARD/ PANELBOARD LOCATION WITH-IN 5'-0" OF BUS.
5. COORDINATE MOUNTING LOCATION IN FIELD TO INSTALL INTERSYSTEM BONDING TERMINATION ON THE WALL.
6. NEW FEEDER CIRCUIT FOR NEW PANEL ME2 SHALL BE INSTALLED IN THE ATTIC SPACE BETWEEN THE HARD CEILING OF THE CORRIDOR AND THE ROOF DECK.
7. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.
8. EXTEND EXISTING MECHANICAL UNIT CIRCUIT RETAINED DURING DEMOLITION WORK IN THIS AREA. PROVIDE NEW WIRING AND CONDUIT (MATCH WITH EXISTING WIRE SIZE AND TYPE) AS REQUIRED.





2 FIRST FLOOR - ELECTRICAL - AREA B

1/8" = 1'-0"

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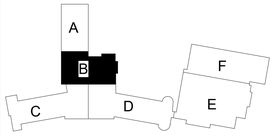
KEY PLAN



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REVISIONS

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SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

FIRST FLOOR - ELECTRICAL - AREA B

SCALE

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

SHEET NUMBER

E201B

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REF. SCALE IN INCHES

PROJECT #21002885.12

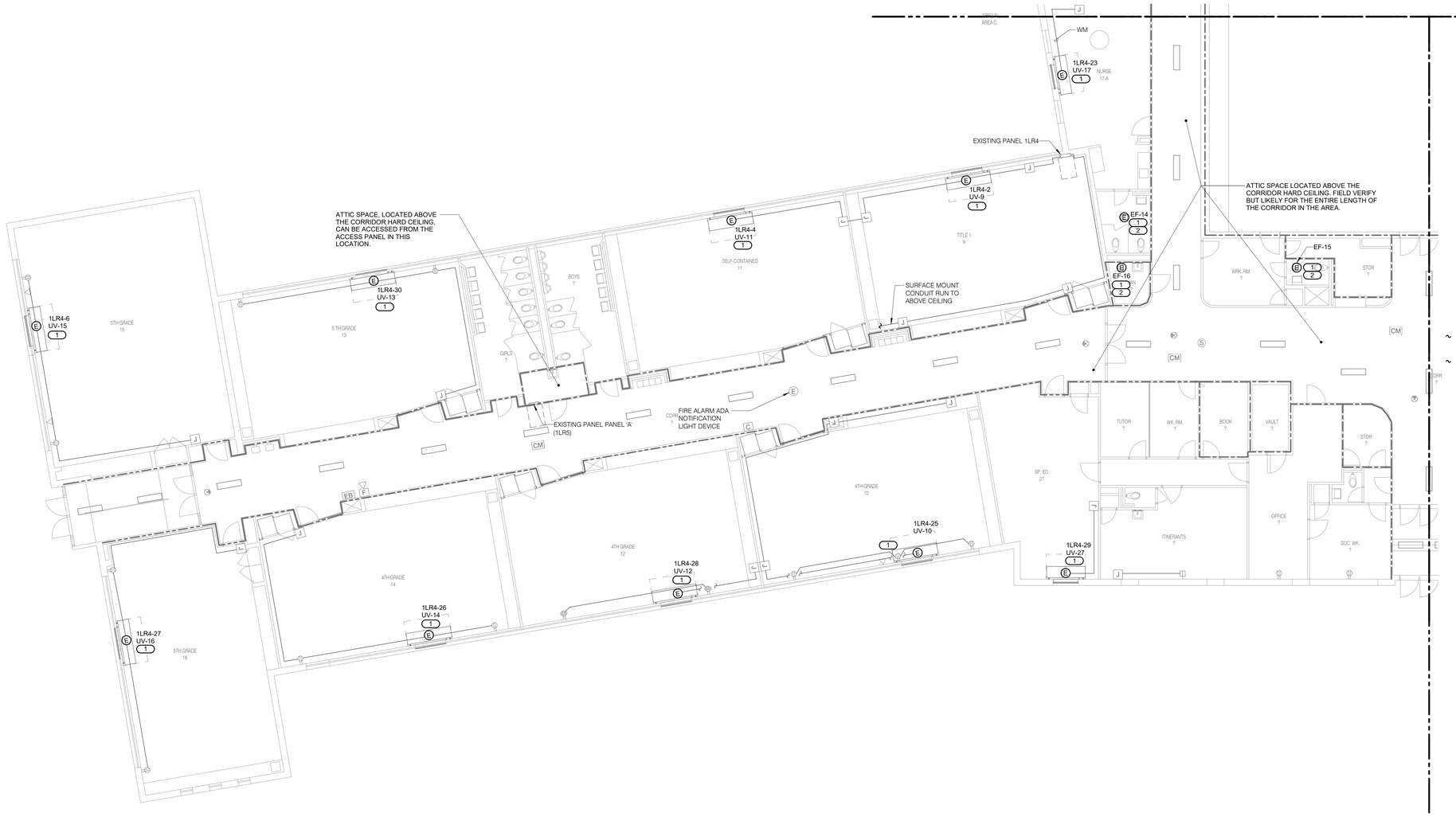
21002885.12 11/2/2022 12:21:57 PM ESSER HVAC Improvements - Rolling Green Elementary School

SHEET NOTES:

1. ALL NEW UNIT VENTILATION (UV) UNITS ARE FED FROM EXISTING PANEL "1LR4' FOR IN THIS AREA C, UNLESS NOTED OTHERWISE.
2. CONTRACTOR TO FIELD VERIFY THE EXISTING CONDITIONS OF THE ATTIC SPACE AND PREPATE THE ELECTRICAL BID ACCORDINGLY TO INSTALL THE NEW FEEDER AND BRANCH CIRCUIT CONDUITS.

KEYNOTES: #

1. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.
2. EXTEND EXISTING MECHANICAL UNIT CIRCUIT RETAINED DURING DEMOLITION WORK IN THIS AREA. PROVIDE NEW WIRING AND CONDUIT (MATCH WITH EXISTING WIRE SIZE AND TYPE) AS REQUIRED.



1 FIRST FLOOR - ELECTRICAL - AREA C

1/8" = 1'-0"

NORTH

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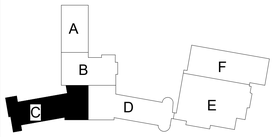
KEY PLAN



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Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

FIRST FLOOR - ELECTRICAL - AREA C

SCALE

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

SHEET NUMBER

E201C

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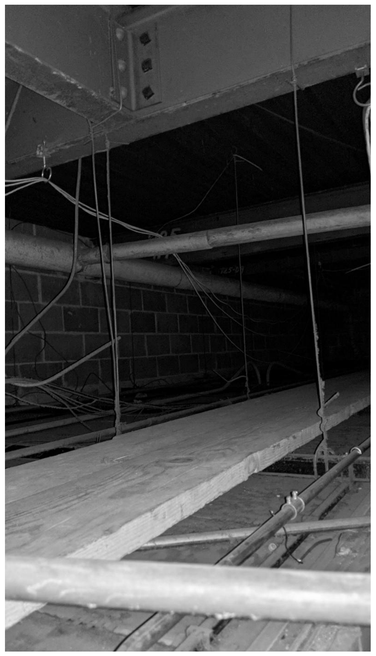
PROJECT #21002885.12

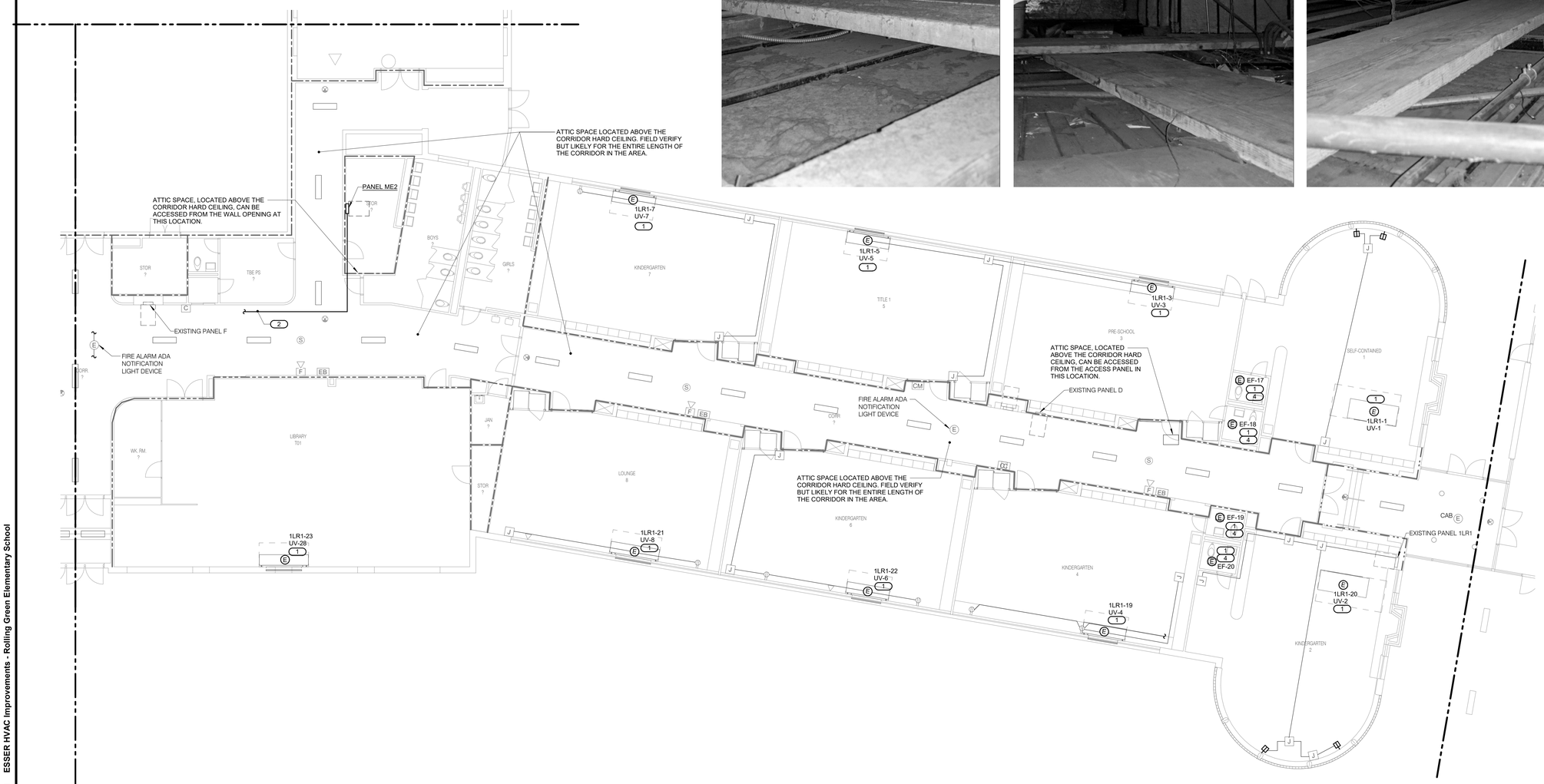
SHEET NOTES:

1. ALL NEW UNIT VENTILATION (UV) UNITS ARE FED FROM EXISTING PANEL "1LR1" FOR IN THIS AREA D, UNLESS NOTED OTHERWISE.
2. A COUPLE OF PHOTOS OF THE ATTIC SPACE HAVE BEEN PROVIDED HERE FOR REFERENCE PURPOSES ONLY. CONTRACTOR TO FIELD VERIFY THE EXISTING CONDITIONS OF THE ATTIC SPACE AND PREPATE THE ELECTRICAL BID ACCORDINGLY TO INSTALL THE NEW FEEDER AND BRANCH CIRCUIT CONDUITS.

KEYNOTES: (#)

1. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.
2. NEW FEEDER CIRCUIT FOR NEW PANEL "ME2" SHALL BE INSTALLED IN THE ATTIC SPACE BETWEEN THE HARD CEILING OF THE CORRIDOR AND THE ROOF DECK.
3. EXTEND EXISTING MECHANICAL UNIT CIRCUIT RETAINED DURING DEMOLITION WORK IN THIS AREA. PROVIDE NEW WIRING AND CONDUIT (MATCH WITH EXISTING WIRE SIZE AND TYPE) AS REQUIRED.





1 FIRST FLOOR - ELECTRICAL - AREA D

1/8" = 1'-0"

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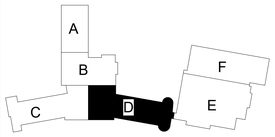
KEY PLAN



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REFERENCE SCALE IN INCHES

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.12**
Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

FIRST FLOOR - ELECTRICAL - AREA D

SCALE

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

SHEET NUMBER

E201D

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REF. SCALE IN INCHES

PROJECT #21002885.12

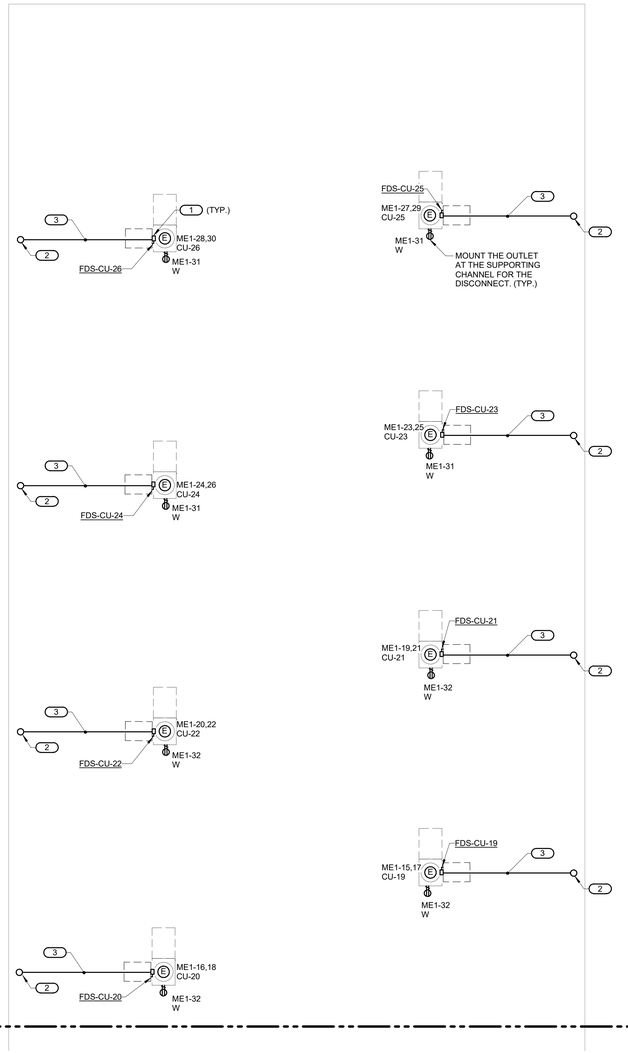
21002885.12 11/2/2022 12:22:01 PM ESSER HVAC Improvements - Rolling Green Elementary School

SHEET NOTES:

1. ALL SHOWN 208/120V POWER BRANCH CIRCUITS ARE FED FROM PANEL 'ME1' IN THE AREA, UNLESS NOTED OTHERWISE.
2. INSTALL BRANCH CIRCUIT CONDUIT(S) CONCEALED IN THE ABOVE CEILING SPACE OF THE CORRIDOR/CLASSROOM FROM THE SOURCE PANEL TO THE ROOF OPENING LOCATION USED FOR MECHANICAL PIPING AND THEN FOLLOW THE MECHANICAL PIPING ROUTING TO RUN CONDUITS EXPOSED ON ROOF TO SERVE THE RESPECTIVE CONDENSING UNIT AS SHOWN.

KEYNOTES: #

1. REFER TO DETAIL 3/E000 FOR ROOF MOUNTED DISCONNECT DETAIL.
2. UTILIZE SAME ROOF OPENING CREATED FOR NEW MECHANICAL PIPING TO EXTEND CONDUIT FROM THE BUILDING INTERIOR TO ROOF. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR MORE DETAILS.
3. EXPOSED CONDUIT RUN ON THE ROOF TO BE INSTALLED IN CLOSE PROXIMITY WITH THE NEW MECHANICAL PIPING. PROVIDE PRE-FABRICATED ROOFTOP CONDUIT SUPPORT SYSTEM PER SPECIFICATIONS SECTION 26 05 27.



NORTH

1 ROOF - ELECTRICAL - AREA A

1/8" = 1'-0"

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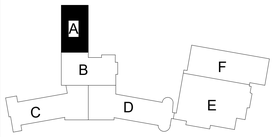
KEY PLAN



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Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

ROOF - ELECTRICAL - AREA A

SCALE

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

SHEET NUMBER

E202A

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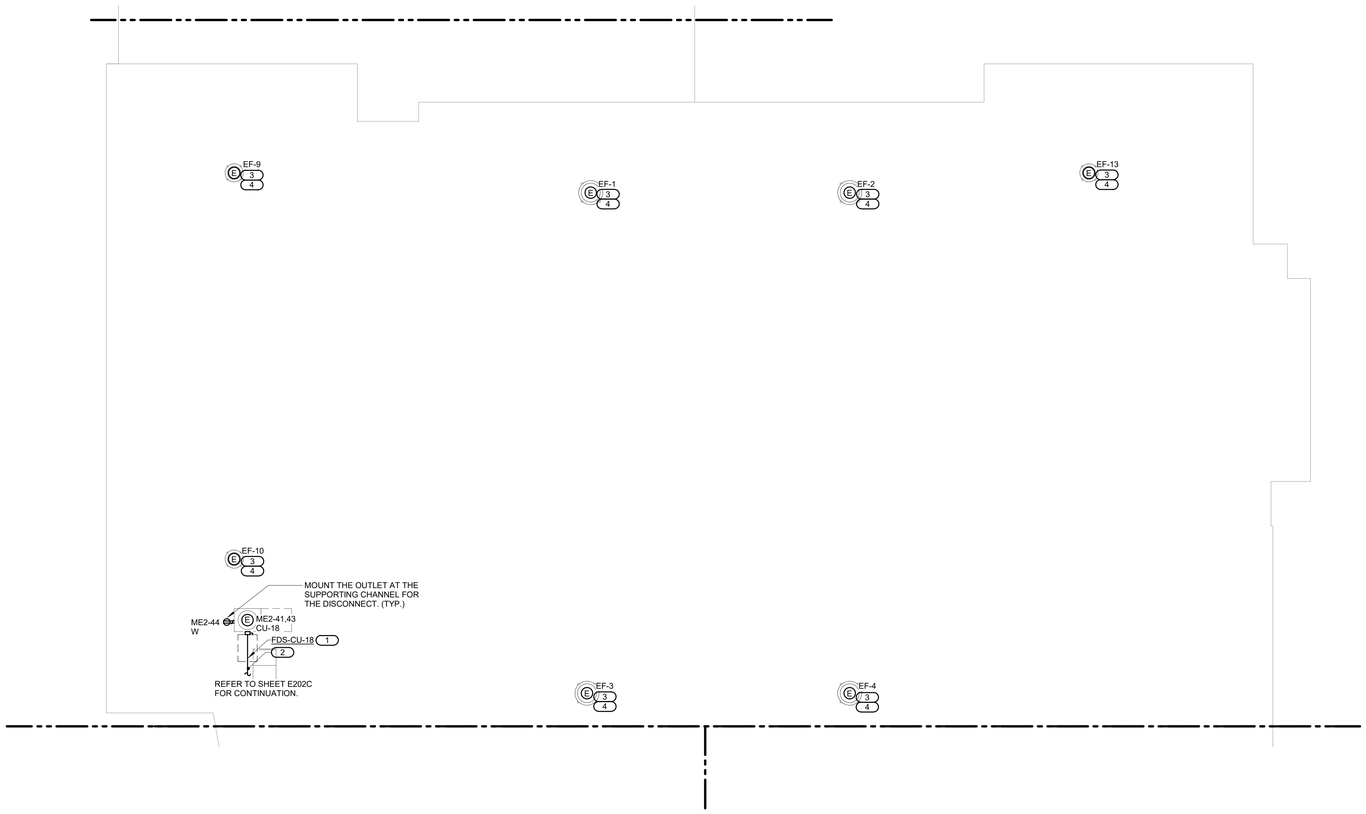
PROJECT #21002885.12

SHEET NOTES:

1. ALL SHOWN 208/120V POWER BRANCH CIRCUITS ARE FED FROM PANEL 'ME2' IN THE AREA, UNLESS NOTED OTHERWISE.

KEYNOTES: (#)

1. REFER TO DETAIL 3/E000 FOR ROOF MOUNTED DISCONNECT DETAIL.
2. EXPOSED CONDUIT RUN ON THE ROOF SURFACE. PROVIDE PRE-FABRICATED ROOFTOP CONDUIT SUPPORT SYSTEM PER SPECIFICATIONS SECTION 26 05 27.
3. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.
4. EXTEND EXISTING MECHANICAL UNIT CIRCUIT RETAINED DURING DEMOLITION WORK IN THIS AREA. PROVIDE NEW WIRING AND CONDUIT (MATCH WITH EXISTING WIRE SIZE AND TYPE) AS REQUIRED.



1 ROOF - ELECTRICAL - AREA B

1/8" = 1'-0"

NORTH

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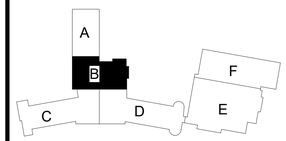

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Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

ROOF - ELECTRICAL - AREA B

SCALE

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

SHEET NUMBER

E202B

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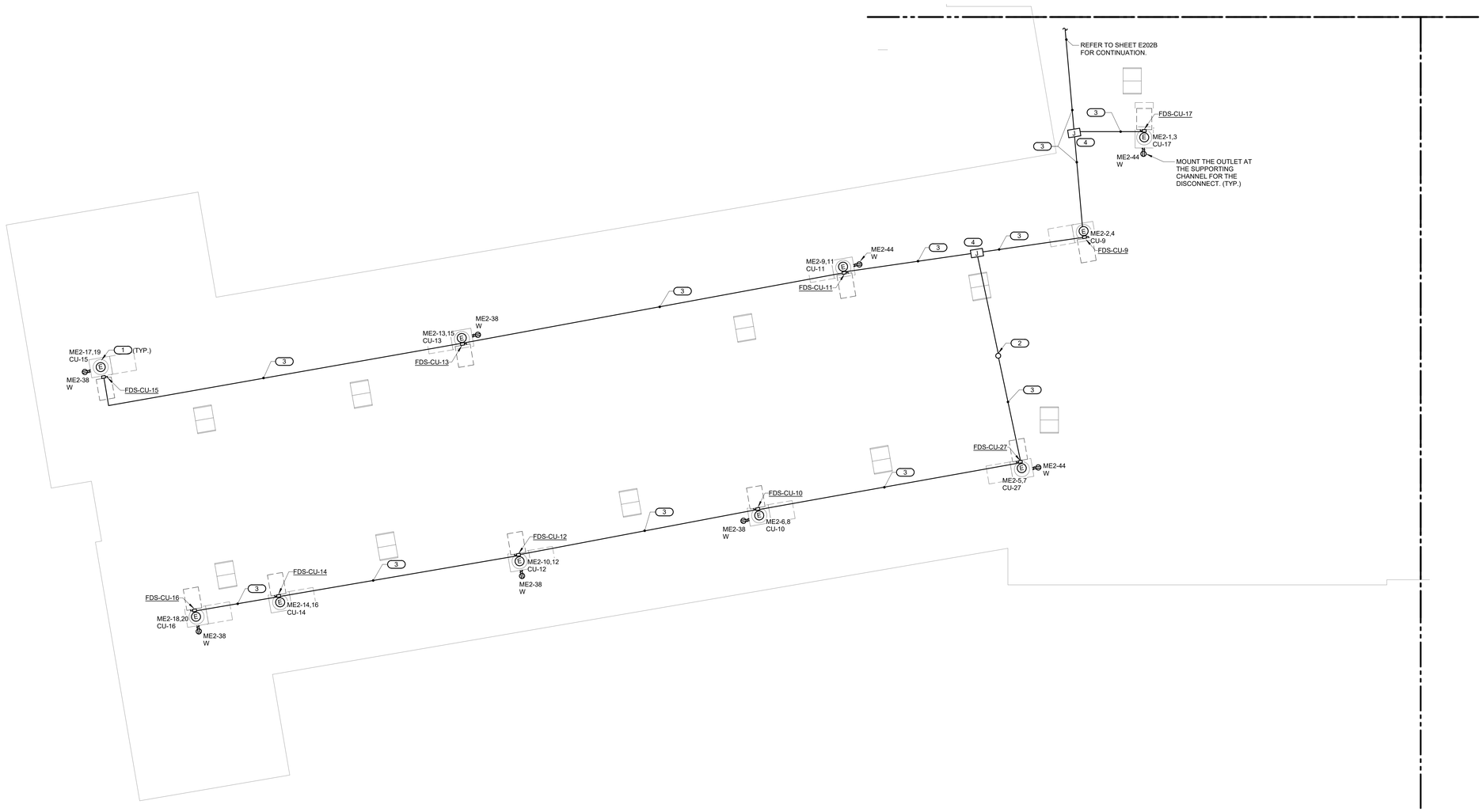
PROJECT #21002885.12

SHEET NOTES:

1. ALL SHOWN 208/120V POWER BRANCH CIRCUITS ARE FED FROM PANEL 'ME2' IN THE AREA, UNLESS NOTED OTHERWISE.
2. INSTALL BRANCH CIRCUIT CONDUIT(S) CONCEALED IN THE ATTIC SPACE OF THE CORRIDOR FROM THE SOURCE PANEL. PENETRATE THE ROOF SURFACE TO STUB OUT THE CONDUIT AT A LOCATION CLOSER TO THE ROOF UNITS BEING SERVED AND THEN RUN CONDUITS EXPOSED ON ROOF TO SERVE THE RESPECTIVE CONDENSING UNIT AS SHOWN.

KEYNOTES: (#)

1. REFER TO DETAIL 3/E000 FOR ROOF MOUNTED DISCONNECT DETAIL.
2. PENETRATE ROOF TO STUB OUT THE BRANCH CIRCUIT CONDUIT FROM THE ABOVE CEILING SPACE OF THE CORRIDOR BELOW. PROVIDE WEATHER-PROOF J-BOX TO SEPARATE THE BRANCH CIRCUITS FOR RESPECTIVE UNIT. REFER TO DETAIL 1/E000 FOR CONDUIT ROOF PENETRATION DETAILS.
3. EXPOSED CONDUIT RUN ON THE ROOF SURFACE. PROVIDE PRE-FABRICATED ROOFTOP CONDUIT SUPPORT SYSTEM PER SPECIFICATIONS SECTION 26 05 27.
4. PROVIDE WEATHER-PROOF J-BOX MOUNTED AT ROOFTOP CONDUIT SUPPORT SYSTEM TO RUN THE BRANCH CIRCUITS TO RESPECTIVE UNITS AS NEEDED.



1 ROOF - ELECTRICAL - AREA C

1/8" = 1'-0"

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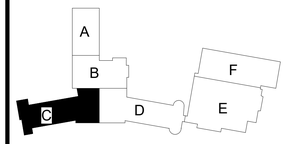
KEY PLAN



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Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

ROOF - ELECTRICAL - AREA C

SCALE

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

SHEET NUMBER

E202C

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REF. SCALE IN INCHES

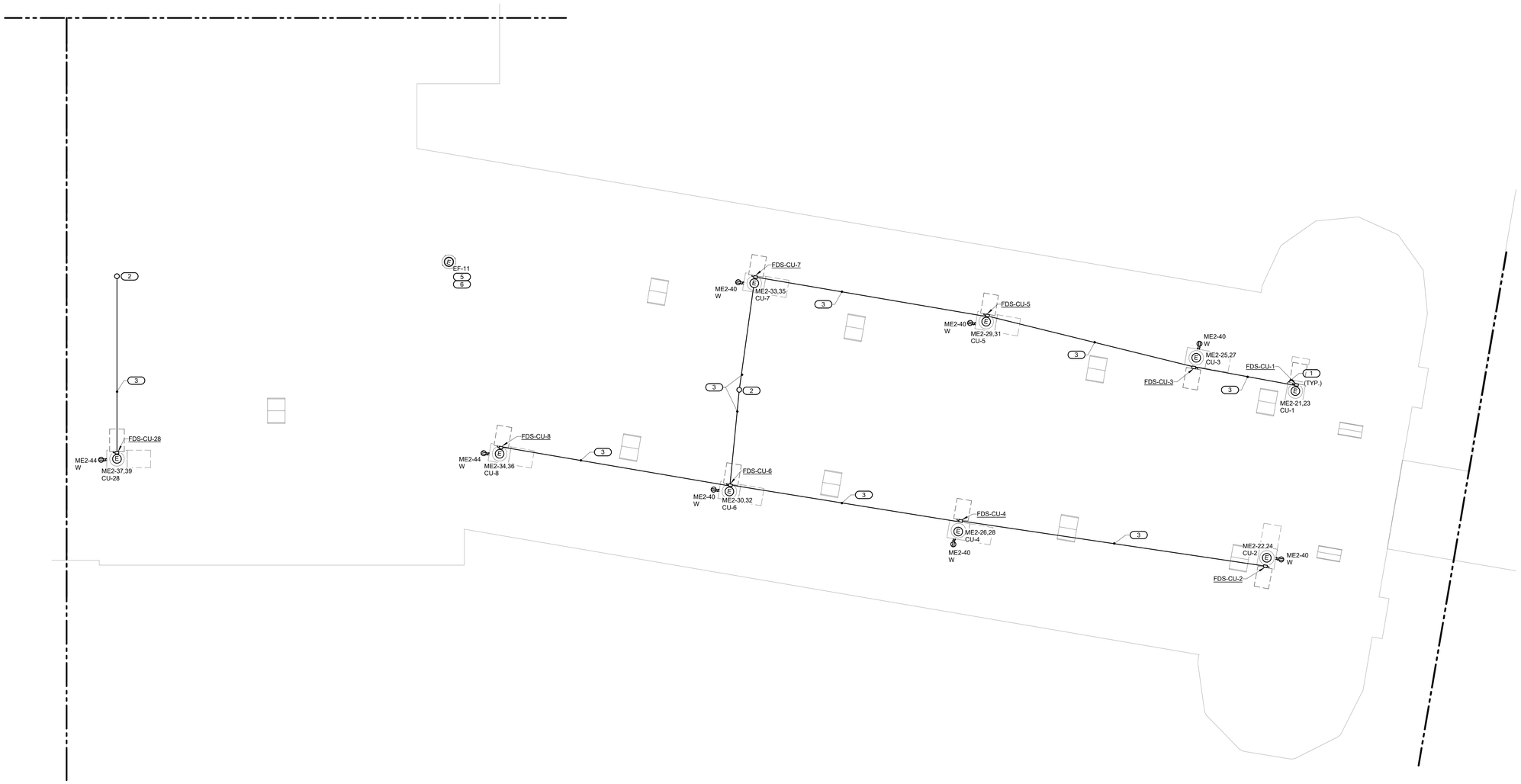
PROJECT #21002885.12

SHEET NOTES:

1. ALL SHOWN 208/120V POWER BRANCH CIRCUITS ARE FED FROM PANEL 'ME2' IN THE AREA, UNLESS NOTED OTHERWISE.
2. INSTALL BRANCH CIRCUIT CONDUIT(S) CONCEALED IN THE ATTIC SPACE OF THE CORRIDOR FROM THE SOURCE PANEL. PENETRATE THE ROOF SURFACE TO STUB OUT THE CONDUIT AT A LOCATION CLOSER TO THE ROOF UNITS BEING SERVED AND THEN RUN CONDUITS EXPOSED ON ROOF TO SERVE THE RESPECTIVE CONDENSING UNIT AS SHOWN.

KEYNOTES: (#)

1. REFER TO DETAIL 3/E000 FOR ROOF MOUNTED DISCONNECT DETAIL.
2. PENETRATE ROOF TO STUB OUT THE BRANCH CIRCUIT CONDUIT FROM THE ABOVE CEILING SPACE OF THE CORRIDOR BELOW. PROVIDE WEATHER-PROOF J-BOX TO SEPARATE THE BRANCH CIRCUITS FOR RESPECTIVE UNIT. REFER TO DETAIL 1/E000 FOR CONDUIT ROOF PENETRATION DETAILS.
3. EXPOSED CONDUIT RUN ON THE ROOF SURFACE. PROVIDE PRE-FABRICATED ROOFTOP CONDUIT SUPPORT SYSTEM PER SPECIFICATIONS SECTION 26 05 27.
4. PROVIDE WEATHER-PROOF J-BOX MOUNTED AT ROOFTOP CONDUIT SUPPORT SYSTEM TO RUN THE BRANCH CIRCUITS TO RESPECTIVE UNITS AS NEEDED.
5. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C..
6. EXTEND EXISTING MECHANICAL UNIT CIRCUIT RETAINED DURING DEMOLITION WORK IN THIS AREA. PROVIDE NEW WIRING AND CONDUIT (MATCH WITH EXISTING WIRE SIZE AND TYPE) AS REQUIRED.



NORTH

1 ROOF - ELECTRICAL - AREA D

1/8" = 1'-0"

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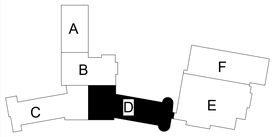

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Drawn	**RAJMAK**
Checked	**MATSNY**
Approved	**GAUSHA**

SHEET TITLE

ROOF - ELECTRICAL - AREA D

SCALE

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

SHEET NUMBER

E202D

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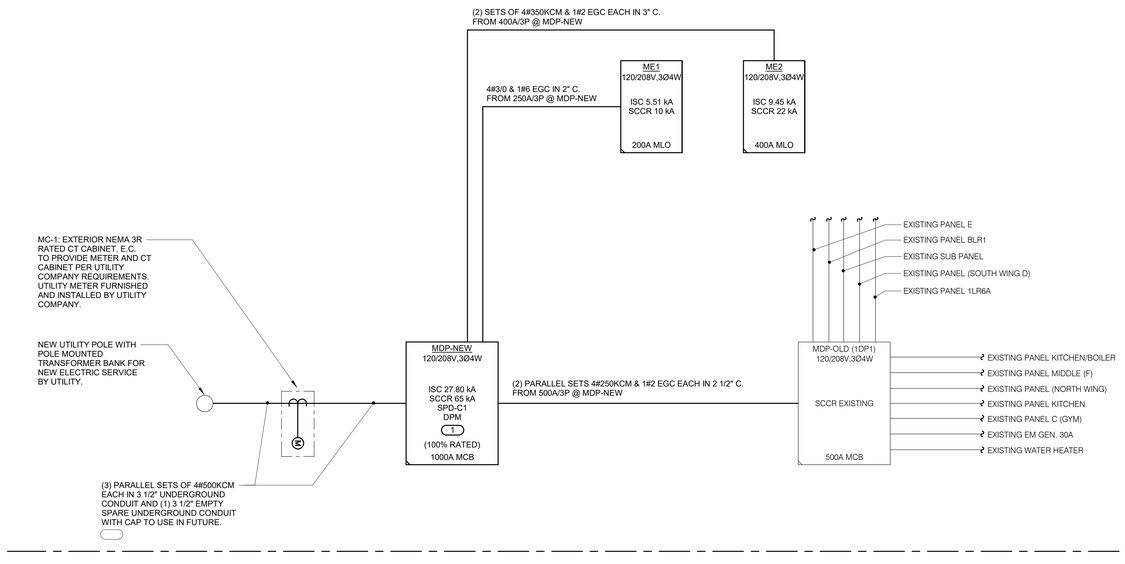
0 1 2 3

REF. SCALE IN INCHES

PROJECT #21002885.12

KEYNOTES: (#)

1. REFER TO 3/E500 FOR SERVICE ENTRANCE GROUNDING DETAIL.
2. REMOVE THE EXISTING GROUND AND NEUTRAL BONDING.
3. REFER TO 4/E500 FOR UNDERGROUND CONDUIT DETAIL.

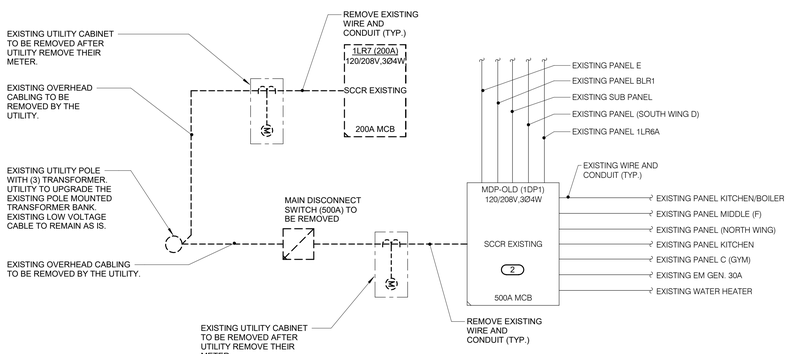


2 RISER DIAGRAM - NEW

NO SCALE

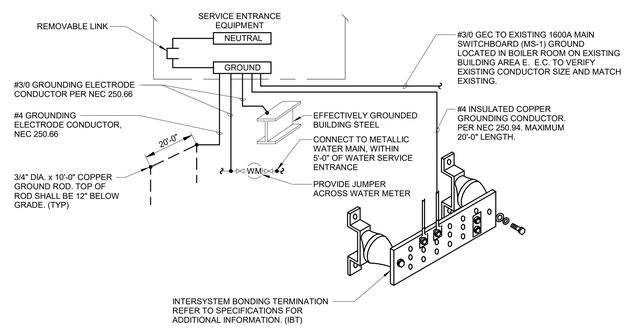
RISER DIAGRAM AND DISTRIBUTION SCHEDULE NOTES

1. THE RISER DIAGRAM IS INTENDED TO CONVEY THE COMPONENTS OF THE ELECTRICAL DISTRIBUTION SYSTEM. REFER TO ELECTRICAL DRAWINGS, DETAILS, DISTRIBUTION / PANEL / EQUIPMENT / EQUIPMENT CONNECTION SCHEDULES, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. SHORT CIRCUIT CURRENT RATINGS (SCCR) FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUSS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.
3. THE BASIS OF DESIGN: THE CONTRACTOR SHALL BE RESPONSIBLE FOR DERATING AND SIZING CONDUCTORS AND CONDUITS TO EQUAL OR EXCEED AMPACITY OF THE BASIS OF DESIGN CIRCUITS WHEN ALTERNATIVE METHODS OR MATERIALS OTHER THAN THE BASIS OF DESIGN ARE APPLIED.
   A. RACEWAY: EMT UNLESS NOTED OTHERWISE
   B. FEEDER CHARACTERISTICS: ALL CURRENT CARRYING CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 25 05 13 WIRE AND CABLE FOR ADDITIONAL INFORMATION.
   C. GROUNDING AND BONDING CONDUCTORS SHALL BE COPPER.
   D. CONDUCTORS (MOTORS): COPPER
   E. [BLANK] OR [CU] INDICATES COPPER CONDUCTOR
4. PROVIDE GROUNDING ELECTRODE AND BONDING SYSTEM PER CODE REQUIREMENTS. PROVIDE THE FOLLOWING MINIMUM CONNECTIONS AND COMPONENTS. REFER TO SPECIFICATION SECTION 26 05 26 GROUNDING AND BONDING AND DETAILS WHEN APPLICABLE
   A. ELECTRICAL GROUND FIELD
   B. CONCRETE ENCASED UFER GROUND
   C. METALLIC WATER MAIN
   D. BUILDING STEEL, EFFECTIVELY GROUNDED
   E. INTERSYSTEM BONDING TERMINAL [IBT]
   F. GROUND RING ENCIRCLING STRUCTURE
5. DRY TYPE TRANSFORMER AND SEPARATELY DERIVED SYSTEM GROUNDING. PROVIDE GROUNDING ELECTRODE CONDUCTOR FOR SEPARATELY DERIVED SYSTEM. ROUTE TO STRUCTURAL BUILDING STEEL WHEN AVAILABLE. OTHERWISE ROUTE TO MAIN GROUNDING ELECTRODE SYSTEM.
6. PROVIDE O.Z. GEDNEY OR EQUAL GROUND BUSHING FOR ALL SERVICE AND FEEDER RACEWAYS BONDED TO GROUND BUS WITH CONDUCTOR SIZED TO MAXIMUM FEEDER GROUND CAPACITY.
7. CONDUCTORS AND GROUND SIZES ON THE LINE AND LOAD SIDES OF ALL DISCONNECT SWITCHES SHALL BE IDENTICAL UNLESS NOTED OTHERWISE.
8. REFER TO COVER SHEET FOR ADDITIONAL EQUIPMENT TAG INFORMATION (SPD-#, M-#, ETC).
9. REFER TO GROUNDING ELECTRODE SYSTEM AND BONDING DETAILS
10. CIRCUIT BREAKER CHARACTERISTICS AND ACCESSORIES:
    A. [CB] INDICATES CIRCUIT BREAKER
    B. [MCCB] INDICATES MOLDED CASE CIRCUIT BREAKER
    C. [LSIG] INDICATES FEATURES PROVIDED WITH SOLID STATE CIRCUIT BREAKER [LONG TIME (W/DELAY), SHORT TIME (W/DELAY), INSTANTANEOUS, GROUND FAULT]
    D. [GF] INDICATES GROUND FAULT RELAY
    E. [AER] INDICATES ARC ENERGY REDUCTION SYSTEM
    F. [100% RATED] INDICATES INSULATED CASE BREAKER RATED FOR FULL CONTINUOUS CAPACITY OF CIRCUIT BREAKER NAMEPLATE
11. ADDITIONAL ABBREVIATIONS:
    A. EGC – EQUIPMENT GROUNDING CONDUCTOR
    B. GEC – GROUNDING ELECTRODE CONDUCTOR
    C. SSBJ – SUPPLY SIDE BONDING JUMPER



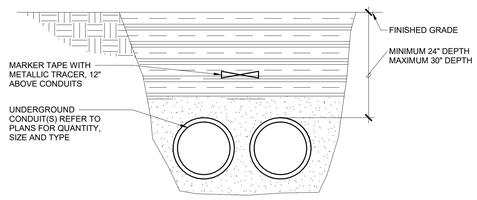
1 RISER DIAGRAM - EXISTING

NO SCALE



3 SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEM DETAIL

NO SCALE



4 UNDERGROUND CONDUIT DETAIL

NO SCALE

NOTES:

1. INSTALL 200 lb TENSILE STRENGTH PULL ROPE IN ALL EMPTY CONDUITS.
2. TRENCHING AND BACKFILL ACCORDING TO SPECIFICATION SECTION 26 05 00.

FIRST LEVEL

IMEG
623 26TH AVENUE
QUAD CITIES, IL
61201
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ROCKFORD PUBLIC SCHOOLS

ESSER HVAC Improvements - Rolling Green Elementary School

3615 W Gate Pkwy, Rockford, IL 61108

PROFESSIONAL SEAL

CONSULTANT

Saavedra Group Architects
Architecture • Engineering • Management
504 North Church Street • Rockford, Illinois 61103
815-963-9392 • www.sgadesign.com

KEY PLAN

AGENCY APPROVAL

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REFERENCE SCALE IN INCHES

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.12
Drawn	RAJMAK
Checked	MATSNY
Approved	GAUSHA

SHEET TITLE

ELECTRICAL DIAGRAMS

SCALE

Scale: As indicated

SHEET NUMBER

E500

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Illinois Design Firm Registration #184007637-0014
REF. SCALE IN INCHES PROJECT #21002885.12

21002885.12 11/2/2022 12:22:06 PM ESSER HVAC Improvements - Rolling Green Elementary School

MDP-NEW

ENCLOSURE: NEMA PB 1
FED FROM: UTILITY
LOCATION: ELECTRICAL ROOM
SPD: SPD-C1
METER: DPM

SOLID NEUTRAL
GROUND BUS

MAIN: 1,000 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC: 27,799 A

NOTES: (1) PROVIDE MINIMUM 20" PREPARED SPACE FOR FUTURE LOADS. (2) SERVICE ENTRANCE RATED. (3) 100% RATED MAIN BREAKER WITH [LSI] FEATURES. (4) PROVIDE EXTERNAL TYPE SPD-C1.

CKT	LOAD DESCRIPTION	LOAD	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT KEY
1	SPD-C1	0 kVA	3	60 A	60 A			4#6 & 1#10 EGC IN 1" C. MAX 5'-0" LENGTH	
2	EXISTING MDP-OLD (1DP1)	145.63 kVA	3	500 A	500 A			(2) PARALLEL SETS 4#250KCM & 1#2 EGC EACH IN 2 1/2" C.	*1
3	PANEL ME1	37.01 kVA	3	250 A	250 A			4#3/0 & 1#6 EGC IN 2" C.	
4	PANEL ME2	68.08 kVA	3	400 A	400 A			(2) SETS OF 4#350KCM & 1#2 EGC EACH IN 3" C.	
5	SPARE	0 kVA	1	--	100 A	--	--	--	--
6									
7									
8									

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	95.418 kVA	100.00%	95.418 kVA		
HVAC Heating Only	4.8 kVA	100.00%	4.8 kVA	TOTAL CONNECTED LOAD:	250.72 kVA
Power	140 kVA	100.00%	140 kVA	TOTAL ESTIMATED DEMAND LOAD:	250.468 kVA
Receptacles	10.5 kVA	97.62%	10.25 kVA	TOTAL CONNECTED AMPS:	695.92 A
				TOTAL ESTIMATED DEMAND AMPS:	695.2 A

*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: *1 = PEAK DEMAND PER UTILITY PROVIDED INFORMATION.

EXISTING PANEL BLR1

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: EXISTING
LOCATION: EXISTING

SOLID NEUTRAL
GROUND BUS

MAIN: 175 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: EXISTING

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	EXISTING LOAD, *E	15 A	3	--	--	--	0	0					--	--	--	3	20 A	EXISTING LOAD, *E	2	--
--	3	--	--	--	--	--	--			0	0			--	--	--	--	--	--	4	--
--	5	--	--	--	--	--	--					0	0	--	--	--	--	--	--	6	--
	7	HVAC Heating Only, HWP-1, BOILER, *EB	20 A	3	12	12	12	0.8	0					--	--	--	3	90 A	EXISTING LOAD, *E	8	--
--	9	--	--	--	--	--	--			0.8	0			--	--	--	--	--	--	10	--
--	11	--	--	--	--	--	--					0.8	0	--	--	--	--	--	--	12	--
--	13	EXISTING LOAD, *E	35 A	3	--	--	--	0	0					--	--	--	3	20 A	EXISTING LOAD, *E	14	--
--	15	--	--	--	--	--	--			0	0			--	--	--	--	--	--	16	--
--	17	--	--	--	--	--	--					0	0	--	--	--	--	--	--	18	--
	19	HVAC Heating Only, HWP-2, BOILER, *EB	20 A	3	12	12	12	0.8	0					--	--	--	3	20 A	EXISTING LOAD, *E	20	--
--	21	--	--	--	--	--	--			0.8	0			--	--	--	--	--	--	22	--
--	23	--	--	--	--	--	--					0.8	0	--	--	--	--	--	--	24	--
	25	HVAC, CP-2, BOILER, *NB	20 A	1	12	12	12	0.83	0					--	--	--	3	20 A	EXISTING LOAD, *E	26	--
--	27	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	--	28	--
--	29	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	--	30	--
--	31	SPACE	--	--	--	--	--	0	0					--	--	--	3	20 A	EXISTING LOAD, *E	32	--
--	33	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	--	34	--
--	35	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	--	36	--
--	37	SPACE	--	--	--	--	--	0	0					--	--	--	3	20 A	EXISTING LOAD, *E	38	--
--	39	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	--	40	--
--	41	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	--	42	--
							Total Load:	2.43 kVA		1.60 kVA		1.60 kVA									
							Total Amps:	20.25		13.33		13.33									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	0.83 kVA	100.00%	0.83 kVA		
HVAC Heating Only	4.8 kVA	100.00%	4.8 kVA	TOTAL CONNECTED LOAD:	5.63 kVA
				TOTAL ESTIMATED DEMAND LOAD:	5.63 kVA
				TOTAL CONNECTED AMPS:	15.63 A
				TOTAL ESTIMATED DEMAND AMPS:	15.6 A

*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: *E = EXISTING REMAINING LOADS, *NB = NEW BREAKER IN EXISTING SPACE, NEW WIRING, *EB = EXISTING BREAKER, NEW WIRING

EXISTING PANEL 1LR1

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: EXISTING
LOCATION: EXISTING

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: EXISTING

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	HVAC, UV-1, RM 1, *RNB	25 A	1	10	10	10	1.6	0					--	--	--	2	20 A	SPARE, *ER	2	--
	3	HVAC, UV-3, RM 3, *RNB	20 A	1	12	12	12			0.83	0			--	--	--	--	--	--	4	--
	5	HVAC, UV-5, RM 5, *RNB	20 A	1	10	10	10					0.83	0	--	--	--	2	20 A	SPARE, *ER	6	--
	7	HVAC, UV-7, RM 7, *RNB	20 A	1	10	10	10	0.83	0					--	--	--	--	--	--	8	--
--	9	EXISTING LOAD, *E	20 A	1	--	--	--			0	0			--	--	--	2	20 A	SPARE, *ER	10	--
--	11	EXISTING LOAD, *E	20 A	1	--	--	--					0	0	--	--	--	--	--	--	12	--
--	13	EXISTING LOAD, *E	20 A	1	--	--	--	0	0					--	--	--	2	20 A	SPARE, *ER	14	--
--	15	EXISTING LOAD, *E	20 A	1	--	--	--			0	0			--	--	--	--	--	--	16	--
--	17	EXISTING LOAD, *E	20 A	1	--	--	--					0	0	--	--	--	1	20 A	EXISTING LOAD, *E	18	--
	19	HVAC, UV-4, RM 4, *NB	20 A	1	12	12	12	0.83	1.6					10	10	10	1	25 A	HVAC, UV-2, RM 2, *NB	20	
	21	HVAC, UV-8, RM 8, *NB	20 A	1	10	10	10			0.83	0.83			10	10	3	1	20 A	HVAC, UV-6, RM 6, *NB	22	
	23	HVAC, UV-28, RM LIBRARY, *NB	20 A	1	10	10	10					0.83	0	--	--	--	--	--	SPACE	24	--
							Total Load:	4.87 kVA		2.50 kVA		1.67 kVA									
							Total Amps:	41.62		21.89		13.88									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	9.031 kVA	100.00%	9.031 kVA		
				TOTAL CONNECTED LOAD:	9.03 kVA
				TOTAL ESTIMATED DEMAND LOAD:	9.031 kVA
				TOTAL CONNECTED AMPS:	25.07 A
				TOTAL ESTIMATED DEMAND AMPS:	25.1 A

*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: *E = EXISTING REMAINING LOADS, *ER = EXISTING BREAKER BECOME SPARE AFTER LOAD BEING REMOVED, *NB = NEW BREAKER IN EXISTING SPACE, NEW WIRING, *RNB = REMOVE EXISTING BREAKER(S), INSTALL NEW BREAKER, NEW WIRING

EXISTING PANEL 1LR4

MOUNTING: RECESSED
ENCLOSURE: NEMA PB 1
FED FROM: EXISTING
LOCATION: EXISTING

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: EXISTING

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	MAIN BREAKER, *E	100 A	3	--	--	--	0	0.83					12	12	12	1	20 A	HVAC, UV-9, RM 9, *NB	2	
--	3	--	--	--	--	--	--			0	0.83			12	12	12	1	20 A	HVAC, UV-11, RM 11, *NB	4	
--	5	--	--	--	--	--	--					0	0.83	10	10	10	1	20 A	HVAC, UV-15, RM 15, *NB	6	
--	7	SPARE, *ER	20 A	2	--	--	--	0	0					--	--	--	2	20 A	SPARE, *ER	8	--
--	9	--	--	--	--	--	--			0	0			--	--	--	--	--	--	10	--
--	11	SPARE, *ER	20 A	2	--	--	--					0	0	--	--	--	2	20 A	SPARE, *ER	12	--
--	13	--	--	--	--	--	--	0	0					--	--	--	--	--	--	14	--
--	15	SPARE, *ER	20 A	2	--	--	--			0	0			--	--	--	2	20 A	SPARE, *ER	16	--
--	17	--	--	--	--	--	--					0	0	--	--	--	--	--	--	18	--
--	19	SPARE, *ER	20 A	2	--	--	--	0	0					--	--	--	2	20 A	SPARE, *ER	20	--
--	21	--	--	--	--	--	--			0	0			--	--	--	--	--	--	22	--
	23	HVAC, UV-17, RM 17-A, *EB	20 A	1	12	12	12					0.83	0	--	--	--	1	20 A	EXISTING LOAD, *E	24	--
	25	HVAC, UV-10, RM 10, *NB	20 A	1	12	12	12	0.83	0.83					10	10	10	1	20 A	HVAC, UV-14, RM 14,*NB	26	
	27	HVAC, UV-16, RM 16, *NB	20 A	1	10	10	10			0.83	0.83			10	10	10	1	20 A	HVAC, UV-12, RM 12,*NB	28	
	29	HVAC, UV-27, RM 27, *NB	20 A	1	12	12	12					0.83	0.83	10	10	10	1	20 A	HVAC, UV-13, RM 13,*NB	30	
							Total Load:	2.50 kVA		2.50 kVA		3.33 kVA									
							Total Amps:	20.83		20.83		27.77									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	8.33 kVA	100.00%	8.33 kVA		
				TOTAL CONNECTED LOAD:	8.33 kVA
				TOTAL ESTIMATED DEMAND LOAD:	8.33 kVA
				TOTAL CONNECTED AMPS:	23.12 A
				TOTAL ESTIMATED DEMAND AMPS:	23.1 A

*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: *E = EXISTING REMAINING LOADS, *ER = EXISTING BREAKER BECOME SPARE AFTER LOAD BEING REMOVED, *NB = NEW BREAKER IN EXISTING SPACE, NEW WIRING, *EB = EXISTING BREAKER, NEW WIRING.

PANEL ME1

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 250 A/3P @ MDP-NEW
LOCATION: CLOSET

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC: 5.51 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
*1	1	EXISTING OUTLET LOADS	20 A	1				1	1								1	20 A	EXISTING OUTLET LOADS	2	*1
*1	3	EXISTING OUTLET LOADS	20 A	1						1	1						1	20 A	EXISTING OUTLET LOADS	4	*1
*1	5	EXISTING OUTLET LOADS	20 A	1								1	1				1	20 A	EXISTING OUTLET LOADS	6	*1
	7	HVAC, UV-19, RM 19	20 A	1	12	12	12	0.83	0.83					10	10	10	1	20 A	HVAC, UV-20, RM 20	8	
	9	HVAC, UV-24, RM 24	20 A	1	12	12	12			0.83	0.83			12	12	12	1	20 A	HVAC, UV-21, RM 21	10	
	11	HVAC, UV-25, RM 25	20 A	1	12	12	12					0.83	0.83	10	10	10	1	20 A	HVAC, UV-22, RM 22	12	
	13	HVAC, UV-26, RM 26	20 A	1	12	12	12	0.83	0.83					12	12	12	1	20 A	HVAC, UV-23, RM 23	14	
	15	HVAC, CU-19, ROOF	30 A	2	12	12	10			1.59	1.27			10	12	12	2	25 A	HVAC, CU-20, ROOF	16	
--	17	--	--	--	--	--	--					1.59	1.27	--	--	--	--	--	--	18	--
	19	HVAC, CU-21, ROOF	30 A	2	12	12	10	1.59	1.27					10	12	12	2	25 A	HVAC, CU-22, ROOF	20	
--	21	--	--	--	--	--	--			1.59	1.27			--	--	--	--	--	--	22	--
	23	HVAC, CU-23, ROOF	30 A	2	12	12	10					1.59	1.27	10	12	12	2	25 A	HVAC, CU-24, ROOF	24	
--	25	--	--	--	--	--	--	1.59	1.27					--	--	--	--	--	--	26	--
	27	HVAC, CU-25, ROOF	30 A	2	12	12	10			1.59	1.27			10	12	12	2	25 A	HVAC, CU-26, ROOF	28	
--	29	--	--	--	--	--	--					1.59	1.27	--	--	--	--	--	--	30	--
	31	Receptacles, ROOF	20 A	1	10	10	10	0.72	0.72					10	10	10	1	20 A	Receptacles, ROOF	32	
--	33	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	34	--
--	35	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	36	--
--	37	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	38	--
--	39	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	40	--
--	41	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	42	--
							Total Load:	12.50 kVA		12.26 kVA		12.26 kVA									
							Total Amps:	104.16		102.14		102.14									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	29.572 kVA	100.00%	29.572 kVA		
Receptacles	7.44 kVA	100.00%	7.44 kVA	TOTAL CONNECTED LOAD:	37.01 kVA
				TOTAL ESTIMATED DEMAND LOAD:	37.012 kVA
				TOTAL CONNECTED AMPS:	102.74 A
				TOTAL ESTIMATED DEMAND AMPS:	102.7 A

*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: *1 = PROVIDE WIRING AND CONDUIT (MATCH WITH EXISTING SIZE AND TYPE) FROM NEW BREAKER (MATCH WITH EXISTING SIZE AND CHARACTERISTIC) TO NEW PULL BOX TO SPLICE WITH EXISTING CIRCUIT CUT OVER FROM EXISTING DEMO PANEL '1LR7' TO SERVE THE EXISTING OUTLET LOADS.

VARIABLE FREQUENCY DRIVE SCHEDULE

STARTER TYPE:	ACCESSORIES & OPTIONS (REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION):	
PWM - PULSE WIDTH MODULATED	SC - SHIELDED VFD CABLE	RSS - REMOTE START-STOP, DRIVE RUN, FAULT TRIP
(6,12,18 PULSE PWM REQUIRED)	LPF - LEADING POWER FACTOR MANAGEMENT	**SA - STANDARD ACCESSORIES FOR ALL DRIVES**
AFE - ACTIVE FRONT END / ULTRA	DB - DYNAMIC BRAKING	(INCLUDES * ITEMS)
LOW HARMONIC (REQUIRED)	PHF - PASSIVE HARMONIC FILTER	* MANUAL SPEED ADJUSTMENT
LINE DISCONNECT:	AHF - ACTIVE HARMONIC FILTER	* ELECTRONIC THERMAL OVERLOADS
DS - DISCONNECT SWITCH	CA - TWO CONVERTIBLE AUXILIARY CONTACTS	* CONTROL TRANSFORMER, FUSED, 120V
FDS - FUSED DISCONNECT SWITCH	TO - MELTING THERMAL OVERLOADS	* HAND-OFF-AUTO DOOR SWITCH
CB - CIRCUIT BREAKER	MMO - MULTIPLE MOTOR OVERLOADS	* SKIP FREQUENCY CAPABILITY
	FCH - FORCED COOLING / HEATING	* HARMONIC DISTORTION PERFORMANCE CRITERIA
		REFER TO SPECIFICATIONS

ITEM	LINE DISC.	DRIVE BYPASS	SCCR	CIRCUIT VOLTAGE	POLES	DRIVE HP RATING	DRIVE TYPE	DRIVE TORQUE TYPE	ENCLOSURE	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
VFD-HWP-1	DS	NONE	65 kA	208 V	3	1.5	PWM	VARIABLE	NEMA 1	SA	
VFD-HWP-2	DS	NONE	65 kA	208 V	3	1.5	PWM	VARIABLE	NEMA 1	SA	
VFD-EXISTING AHU	DS	NONE	65 kA	208 V	3	25	PWM	VARIABLE	NEMA 1	SA	

PANEL ME2

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 400 A/3P @ MDP-NEW
LOCATION: STORAGE

SOLID NEUTRAL
GROUND BUS

MAIN: 400 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC: 9.45 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	A		B		C		WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	HVAC, CU-17, ROOF	25 A	2	12	12	10	1.27	1.59					10	12	12	2	30 A	HVAC, CU-9, ROOF	2	
--	3	--	--	--	--	--	--			1.27	1.59			--	--	--	--	--	--	4	--
	5	HVAC, CU-27, ROOF	25 A	2	12	12	10					1.27	1.59	10	10	10	2	30 A	HVAC, CU-10, ROOF	6	
--	7	--	--	--	--	--	--	1.27	1.59					--	--	--	--	--	--	8	--
	9	HVAC, CU-11, ROOF	30 A	2	10	10	10			1.59	1.59			10	10	10	2	30 A	HVAC, CU-12, ROOF	10	
--	11	--	--	--	--	--	--					1.59	1.59	--	--	--	--	--	--	12	--
	13	HVAC, CU-13, ROOF	30 A	2	10	10	10	1.59	1.59					10	8	8	2	30 A	HVAC, CU-14, ROOF	14	
--	15	--	--	--	--	--	--			1.59	1.59			--	--	--	--	--	--	16	--
	17	HVAC, CU-15, ROOF	30 A	2	8	8	10					1.59	1.59	10	8	8	2	30 A	HVAC, CU-16, ROOF	18	
--	19	--	--	--	--	--	--	1.59	1.59					--	--	--	--	--	--	20	--
	21	HVAC, CU-1, ROOF	30 A	2	10	10	10			1.59	1.59			10	10	10	2	30 A	HVAC, CU-2, ROOF	22	
--	23	--	--	--	--	--	--					1.59	1.59	--	--	--	--	--	--	24	--
	25	HVAC, CU-3, ROOF	30 A	2	10	10	10	1.59	1.59					10	10	10	2	30 A	HVAC, CU-4, ROOF	26	
--	27	--	--	--	--	--	--			1.59	1.59			--	--	--	--	--	--	28	--
	29	HVAC, CU-5, ROOF	30 A	2	12	12	10					1.59	1.59	10	12	12	2	30 A	HVAC, CU-6, ROOF	30	
--	31	--	--	--	--	--	--	1.59	1.59					--	--	--	--	--	--	32	--
	33	HVAC, CU-7, ROOF	30 A	2	12	12	10			1.59	2.2			10	10	10	2	45 A	HVAC, CU-8, ROOF	34	
--	35	--	--	--	--	--	--					1.59	2.2	--	--	--	--	--	--	36	--
	37	HVAC, CU-28, ROOF	45 A	2	10	10	10	2.2	0.9					10	10	10	1	20 A	Receptacles, ROOF	38	
--	39	--	--	--	--	--	--			2.2	1.08			10	10	10	1	20 A	Receptacles, ROOF	40	
	41	HVAC, CU-18, RM STAFF PD	25 A	2	12	12	10					1.27	0.83	10	10	10	1	20 A	HVAC, UV-18, RM 18	42	
--	43	--	--	--	--	--	--	1.27	1.08					10	10	10	1	20 A	Receptacles, ROOF	44	
--	45	SPARE	20 A	1	--	--	--			0	0			--	--	--	--	--	SPACE	46	--
--	47	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	48	--
--	49	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	50	--
--	51	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	52	--
--	53	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	54	--
--	55	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	56	--
--	57	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	58	--
--	59	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	60	--
--	61	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	62	--
--	63	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	64	--
--	65	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	66	--
--	67	SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SPACE	68	--
--	69	SPACE	--	--	--	--	--			0	0			--	--	--	--	--	SPACE	70	--
--	71	SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SPACE	72	--
							Total Load:	23.91 kVA		22.67 kVA		21.49 kVA									
							Total Amps:	200.78		190.44		179.10									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	65.016 kVA	100.00%	65.016 kVA		
Receptacles	3.06 kVA	100.00%	3.06 kVA	TOTAL CONNECTED LOAD:	68.08 kVA
				TOTAL ESTIMATED DEMAND LOAD:	68.076 kVA
				TOTAL CONNECTED AMPS:	188.96 A
				TOTAL ESTIMATED DEMAND AMPS:	189 A

*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:

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0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.12
Drawn	RAJMAK
Checked	MATSNY
Approved	GAUSHA

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

SCALE
Scale:

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SHEET NUMBER
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