Rockford Public School District #205

2100 Huffman Blvd, Rockford, IL 61103

IFB# 23-16 PROJECT NUMBER: 2304

ESSER HVAC Improvements - Welsh Elementary School

IMEG

623 26TH AVENUE
QUAD CITIES, IL
61201

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ESSER HVAC Improvements - Welsh Elementary School

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Rockford Public School District #205

CONSULTANT

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

ARCHITECTURAL Sheet List	
Number	Name
C000	PROJECT COVER SHEET
G000	GENERAL INFORMATION
G001	BASEMENT, FIRST, SECOND & ATTIC CODE PLAN
G002	FINISH ROOM SCHEDULE
D100	BASEMENT FLOOR DEMOLITION PLAN
D101A	FIRST FLOOR DEMOLITION PLAN AREA A
D101B	FIRST FLOOR DEMOLITION PLAN AREA B
D102	SECOND FLOOR DEMOLITION PLAN
A100	BASEMENT FLOOR PLAN
A101A	FIRST FLOOR PLAN AREA A
A101B	FIRST FLOOR PLAN AREA B
A102	SECOND FLOOR PLAN
A201A	FIRST FLOOR REFLECTED CEILING PLAN AREA A
A201B	FIRST FLOOR REFLECTED CEILING PLAN AREA B
A202	SECOND FLOOR REFLECTED CEILING PLAN
A300	ELEVATIONS
A301	ROOF PLAN
17	

MECHANICAL / PLUMBING / ELECTRICAL Sheet List	
Number	Name
M000	MECHANICAL COVERSHEET
M100	BASEMENT DEMOLITION PLAN - MECHANICAL
M101	FIRST FLOOR DEMOLITION PLAN - MECHANICAL
M102	SECOND FLOOR DEMOLITION PLAN - MECHANICAL
M200	BASEMENT PLAN - MECHANICAL
M201	FIRST FLOOR PLAN - MECHANICAL
M202	SECOND FLOOR PLAN - MECHANICAL
M204	ROOF PLAN - MECHANICAL
M410	MECHANICAL DETAILS
M411	MECHANICAL DETAILS
M510	MECHANICAL CONTROL DIAGRAMS
M610	MECHANICAL SCHEDULES
E000	ELECTRICAL COVERSHEET
E100	BASEMENT DEMOLITION PLAN - ELECTRICAL
E101	FIRST FLOOR DEMOLITION PLAN - ELECTRICAL
E102	SECOND FLOOR DEMOLITION PLAN - ELECTRICAL
E200	BASEMENT PLAN - ELECTRICAL
E201	FIRST FLOOR PLAN - ELECTRICAL
E202	SECOND FLOOR PLAN - ELECTRICAL
E204	ROOF PLAN - ELECTRICAL
E500	ELECTRICAL DIAGRAMS
E600	ELECTRICAL SCHEDULES
E700	PANEL SCHEDULES
23	

ROCKFORD PUBLIC SCHOOLS

VICINITY MAP

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: **21002885.08**

SHEET TITLE

PROJECT COVER SHEET

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
EXIST.	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

ITEM	SYMBOL
DRAWING TITLE	0 TITLE / SCALE
ROOM NAME AND NUMBER	ROOM NAME; 101 — ROOM NUMBER; 000 SF — ROOM SF
DOOR NUMBER	101
WALL TYPE	00
WINDOW NUMBER / CURTAIN PANEL	00 (OR) 00
CEILING ELEVATION	00'-00"
KEYNOTE (Sheet Note)	0; 00
SPOT ELEVATION	0'-0"
EQUIPMENT NUMBER	00 Department
AREA NAME	Name; 000 SF — AREA SF
NORTH ARROW	N.
REVISION	1
BUILDING SECTION	1 A101 SIM
WALL SECTION	1 A101 SIM
DETAIL	1 A101 SIM
DETAIL	A101 SIM
ELEVATION	Name Elevation
EXISTING COLUMN LINE	00
COLUMN LINE	00
FLOOR FINISH	T-1
BASE FINISH	B-1
WALL FINISH	P-1
WOOD STAIN	ST-1
WALL PAINT FINISH	PT-1

ACCESSIBILITY COMPLIANCE STATMENT

PROJECT INFORMATION

PROJECT: WELSH ELEMENTARY SCHOOL

PROJECT ADDRESS: _____

ROCKFORD (CITY) ILLINOIS (STATE) 61102 (ZIP CODE)

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. SAAVEDRA 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 **WELSH ELEMENTARY SCHOOL** 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. SAAVEDRA 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	1 1 1 1 1 1
FIRE BARRIER 2 HOUR	2 2 2 2 2 2

ARCHITECTURAL SEAL

STATE OF ILLINOIS — DANIEL G. SAAVEDRA 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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ROCKFORD PUBLIC SCHOOLS

WELSH ELEMENTARY SCHOOL

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ROCKFORD SCHOOL DISTRICT No. 205

PROFESSIONAL SEAL

CONSULTANT

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KEY PLAN

AGENCY APPROVAL

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

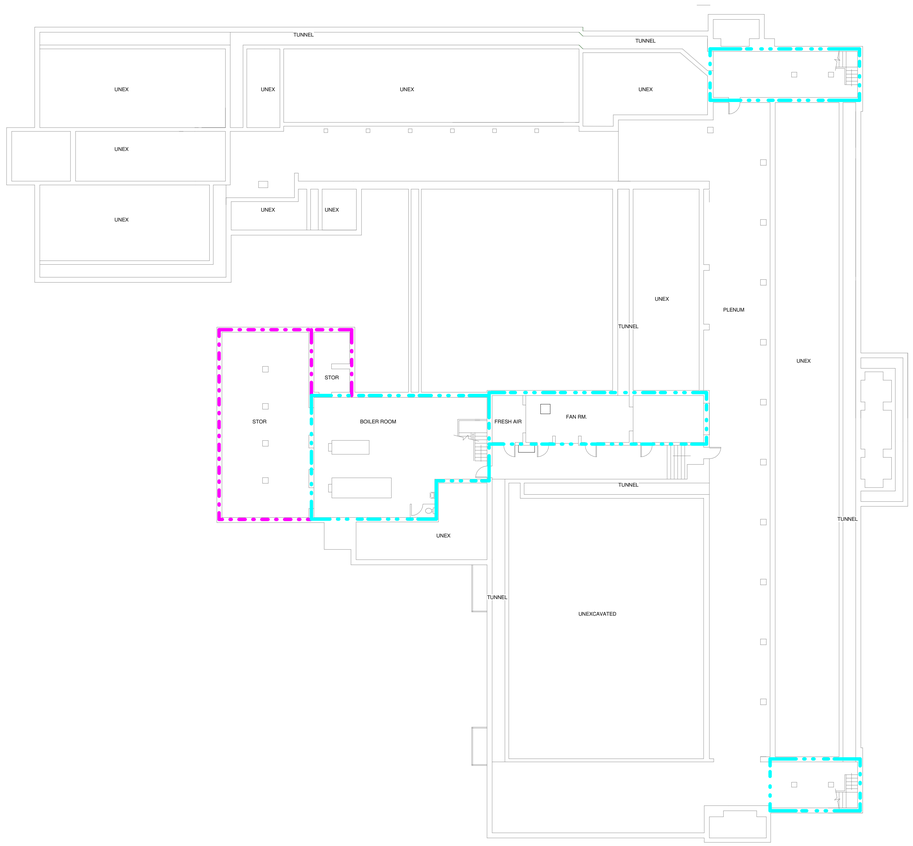
SHEET INFORMATION

Issue	CONSTRUCTION DOCUMENT
Date	November 3, 2022
Job Number	22006.30
Drawn	MI
Checked	MS
Approved	DS/MS

SHEET TITLE
GENERAL INFORMATION

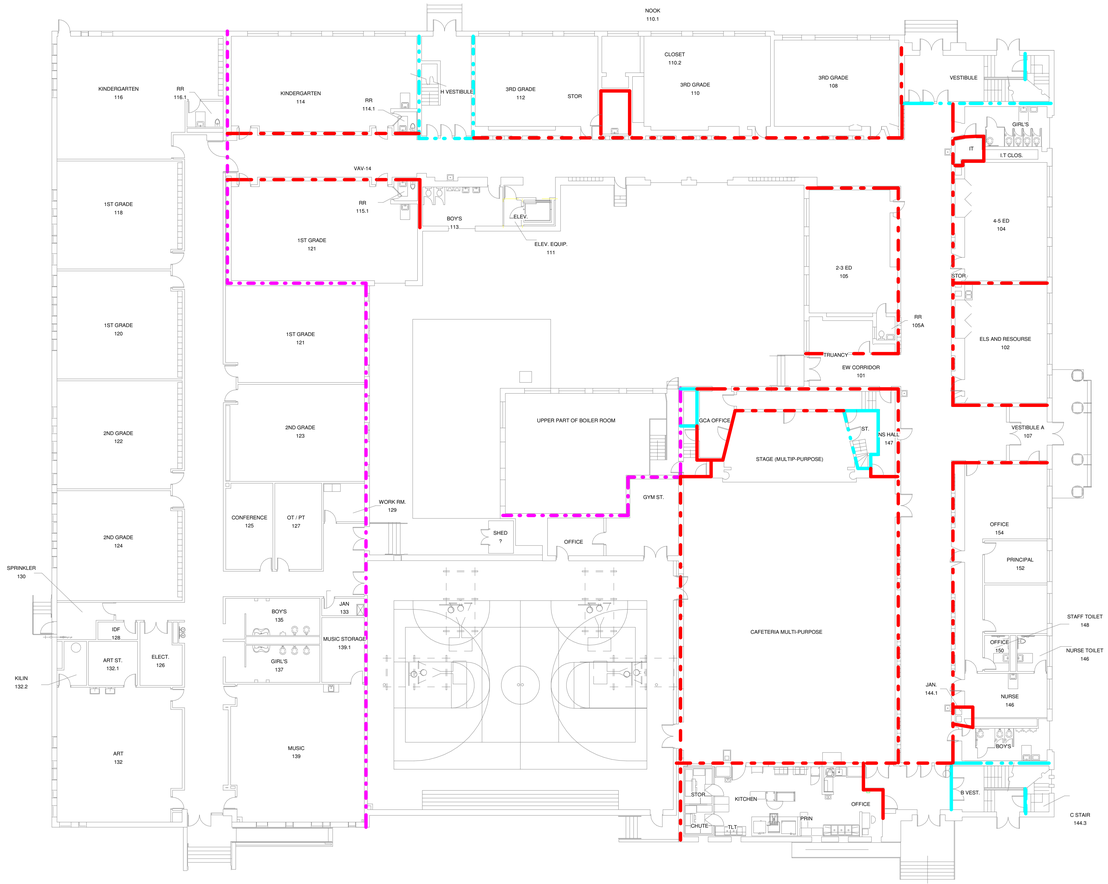
SCALE
Scale: As indicated

SHEET NUMBER
G000



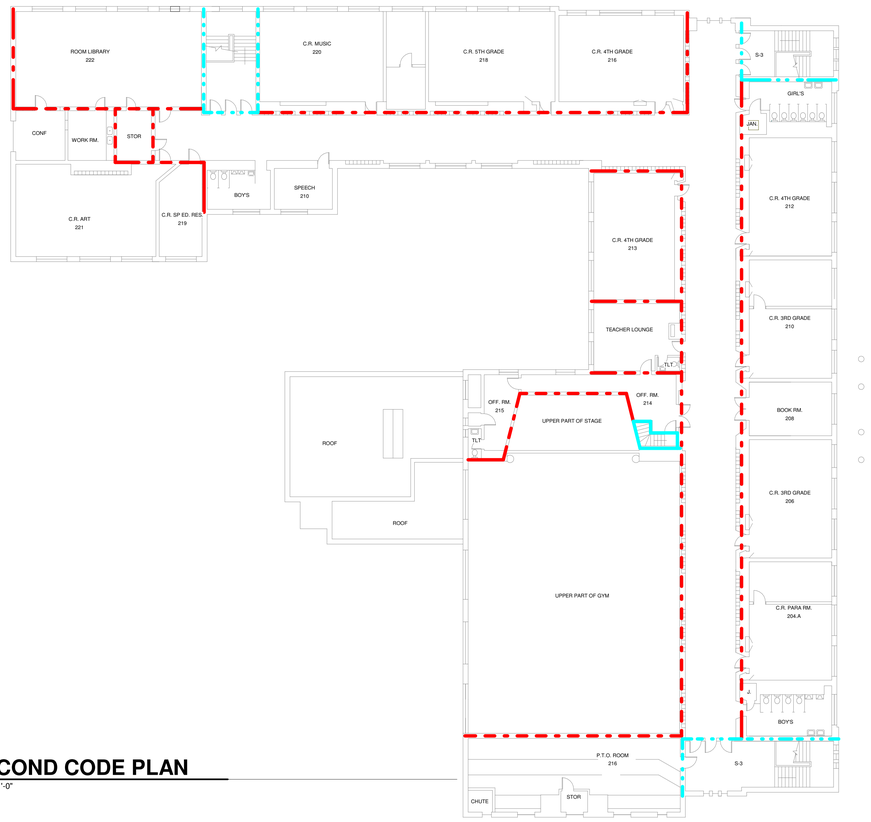
1 BASEMENT CODE PLAN

1/16" = 1'-0"



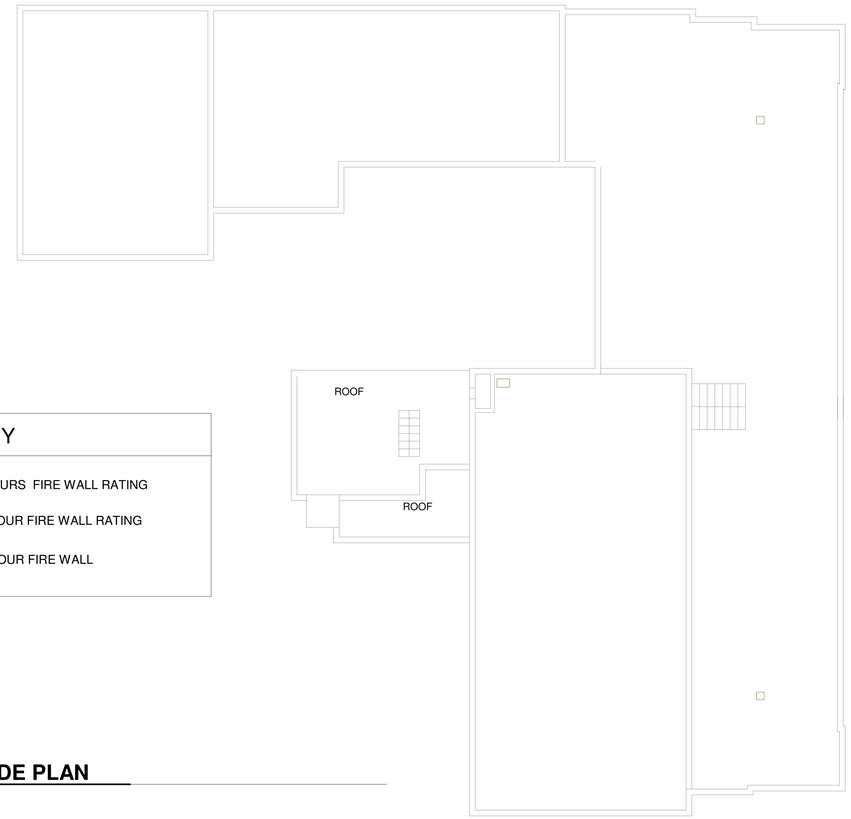
2 FIRST CODE PLAN

1/16" = 1'-0"



3 SECOND CODE PLAN

1/16" = 1'-0"



4 ATTIC CODE PLAN

1/16" = 1'-0"

WALL RATING KEY

- 2 HOURS FIRE WALL RATING
- $\frac{1}{2}$ HOUR FIRE WALL RATING
- $\frac{3}{4}$ HOUR FIRE WALL

WELSH ELEMENTARY SCHOOL

3/11/2022 11:51:49 a. m.

22006.30

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KEY PLAN

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	CONSTRUCTION DOCUMENT
Date	November 3, 2022
Job Number	22006.30
Drawn	MI
Checked	MS
Approved	Approver

SHEET TITLE

BASEMENT,FIRST ,SECOND, & ATTIC CODE PLAN

SCALE

Scale: 1/16" = 1'-0"

SHEET NUMBER

G001

WELSH 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																									
102	ELS AND RESOURSE			●	●		●	●						●					●	●				●	1,2,3
103				●	●		●	●						●					●	●				●	1,2,3
104	4-5 ED			●	●		●	●						●					●	●				●	1,2,3
105	2-3 ED			●	●		●	●						●					●	●				●	1,2,3
105A	RR			●	●		●	●						●					●	●				●	1,2,3
108	3RD GRADE			●	●		●	●						●					●	●				●	1,2,3
110	3RD GRADE			●	●		●	●						●					●	●				●	1,2,3
112	3RD GRADE			●	●		●	●						●					●	●				●	1,2,3
102	KINDERGARTEN			●	●		●	●						●					●	●				●	1,2,3
	KINDERGARTEN			●	●		●	●						●					●	●				●	1,2,3
SECOND FLOOR																									
204 - 204A	C.R. PARA RM.			●	●		●	●						●					●	●				●	1,2,3
206	C.R. 3RD GRADE			●	●		●	●						●					●	●				●	1,2,3
204	C.R. 3RD GRADE			●	●		●	●						●					●	●				●	1,2,3
205	C.R. 4TH GRADE			●	●		●	●						●					●	●				●	1,2,3
206	C.R. 4TH GRADE			●	●		●	●						●					●	●				●	1,2,3
207	C.R. 5TH GRADE			●	●		●	●						●					●	●				●	1,2,3
208	BOOK RM			●	●		●	●						●					●	●				●	1,2,3
210.A	C.R. 3TH GRADE			●	●		●	●						●					●	●				●	1,2,3
211	TEACHER LOUNGE			●	●		●	●						●					●	●				●	1,2,3
213	C.R. 4TH GRADE			●	●		●	●						●					●	●				●	1,2,3
216				●	●		●	●						●					●	●				●	1,2,3
218				●	●		●	●						●					●	●				●	1,2,3
T01				●	●		●	●						●					●	●				●	1,2,3
220				●	●		●	●						●					●	●				●	1,2,3
221				●	●		●	●						●					●	●				●	1,2,3
222				●	●		●	●						●					●	●				●	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 INFILL WALL TO MATCH EXISTING ADJACENT WALL.
4. PATCH,PREP, AND PAINT GYPSUM BOARD CEILING.

GENERAL PAINTING NOTES:

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

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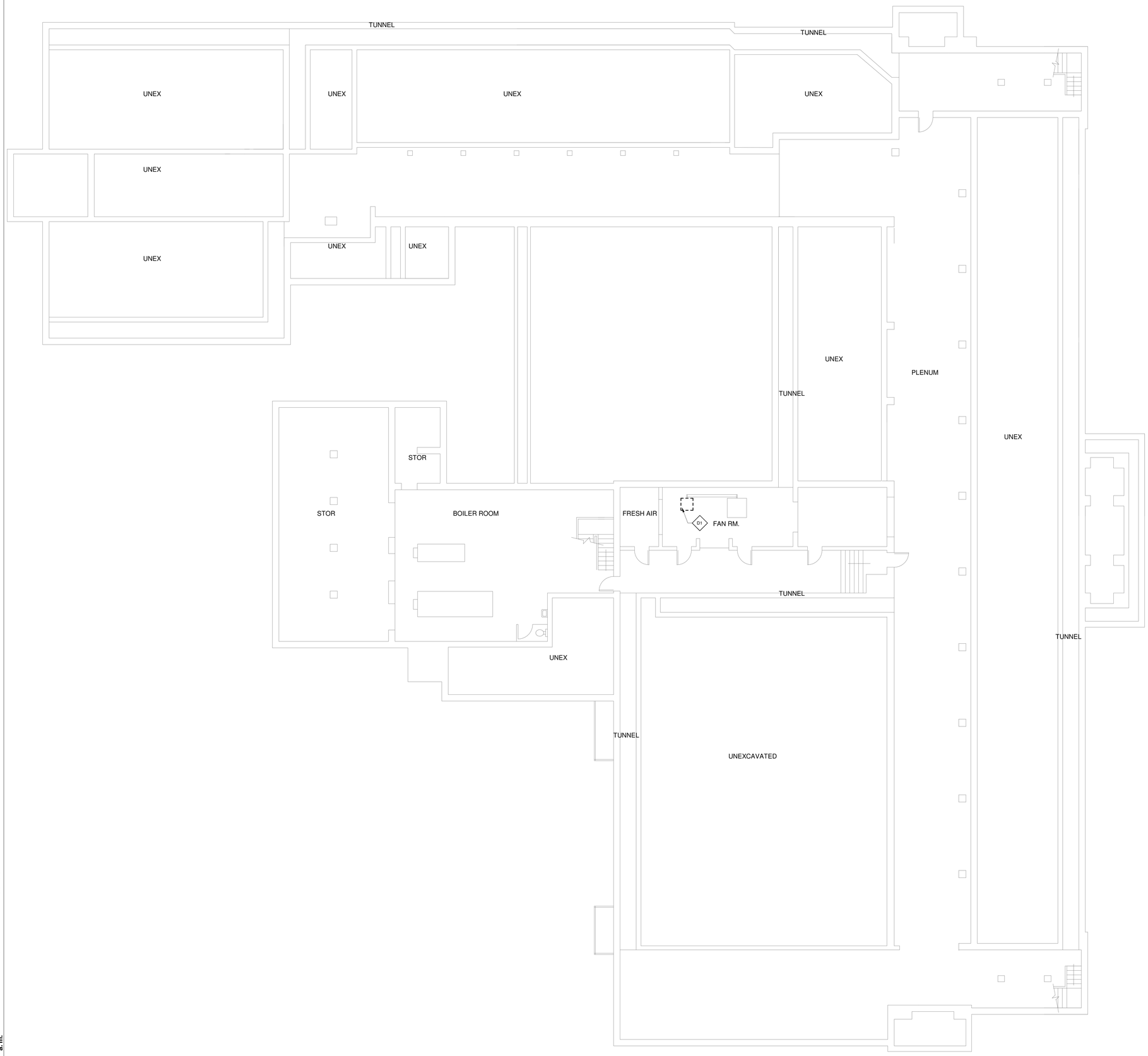
Approved	Approver

SHEET TITLE
FINISH ROOM SCHEDULE

SCALE
Scale: As indicated

SHEET NUMBER
G002



DEMOLITION KEY NOTES

D1	REMOVE MECHANICAL EQUIPMENT- SEE MECHANICAL DRAWINGS.
D2	CAREFULLY REMOVE EXISTING CEILING SYSTEM AS REQUIRED TO PERFORM THE WORK AND SALVAGE FOR REINSTALLATION.
D3	MECHANICAL EQUIPMENT TO REMAIN - SEE MECHANICAL DRAWINGS
D4	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 FOR ADDITIONAL INFORMATION.
D5	REMOVE PORTION OF EXISTING GLASS PANEL FROM EXISTING WINDOW TO ACCOMMODATE NEW LOUVER. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D6	PROVIDE NEW FLOOR PENETRATION TO ROUTE PIPING. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D7	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW PIPING. IF CORING TIGHT TO NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D8	CAREFULLY REMOVE EXISTING ACOUSTIC CEILING TILE AS REQUIRED TO ACCOMMODATE NEW WORK AND SALVAGE FOR REINSTALLATION.
D9	REMOVE PORTION OF EXISTING GYPSUM BOARD CEILING TO ACCOMMODATE NEW WORK.
D10	REMOVE PORTION OF EXISTING CEILING TO ACCOMMODATE NEW WORK.

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.

DEMO LEGEND

DEMOLITION WORK

NORTH

1 **BASEMENT FLOOR DEMOLITION PLAN**
1/8" = 1'-0"

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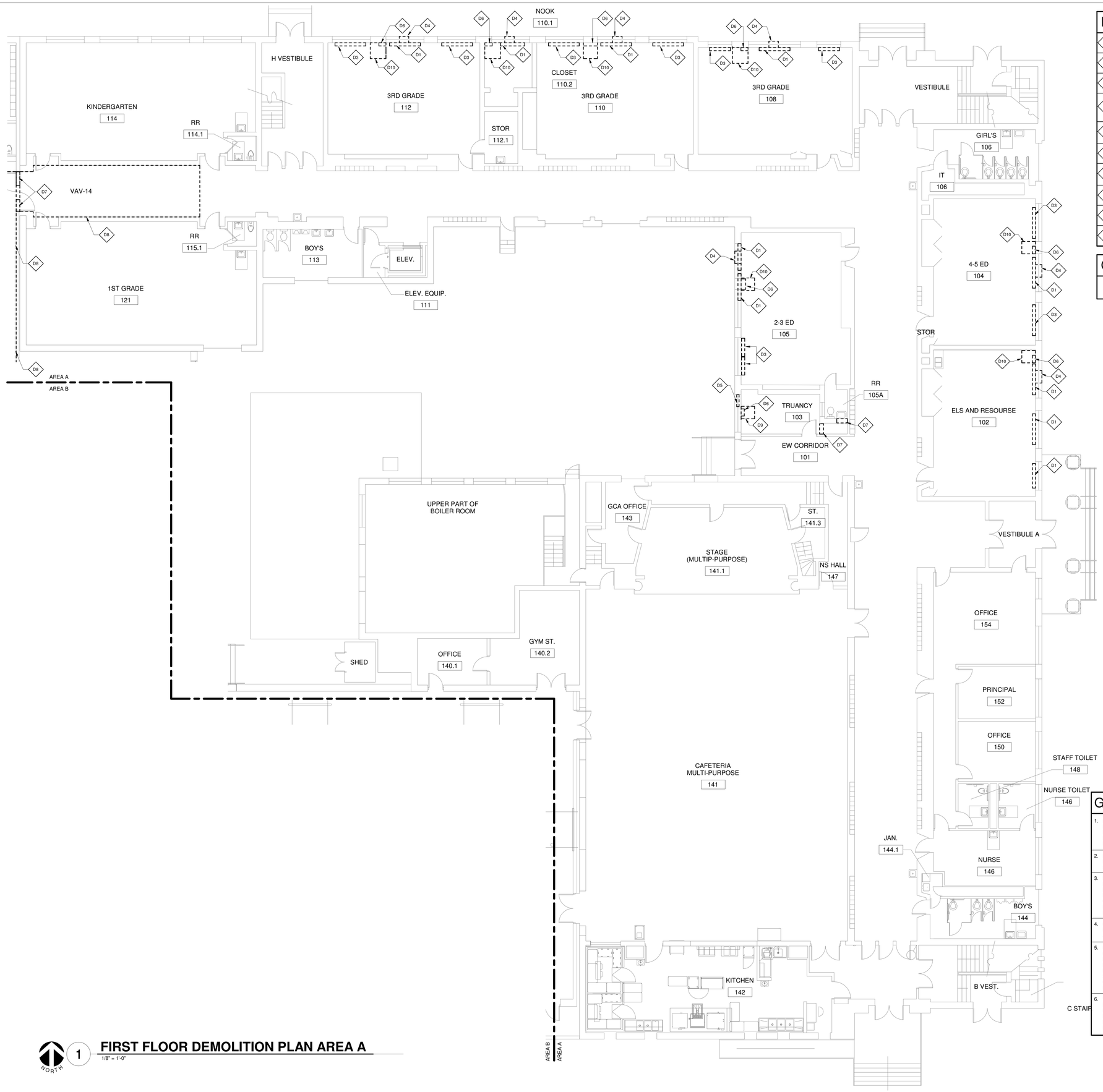
Checked	MS
Approved	Approver

SHEET TITLE
BASEMENT FLOOR DEMOLITION PLAN

SCALE
Scale: As indicated

SHEET NUMBER
D100

22006.30 3/11/2022 11:51:16 a. m. WELSH ELEMENTARY SCHOOL



1 **FIRST FLOOR DEMOLITION PLAN AREA A**

1/8" = 1'-0"

DEMOLITION KEY NOTES

D1	REMOVE MECHANICAL EQUIPMENT- SEE MECHANICAL DRAWINGS.
D2	CAREFULLY REMOVE EXISTING CEILING SYSTEM AS REQUIRED TO PERFORM THE WORK AND SALVAGE FOR REINSTALLATION.
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GENERAL COORDINATION NOTE

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

GENERAL DEMOLITION NOTES

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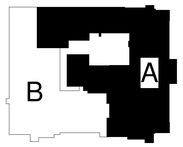
KEY PLAN



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Approved	Approver

SHEET TITLE

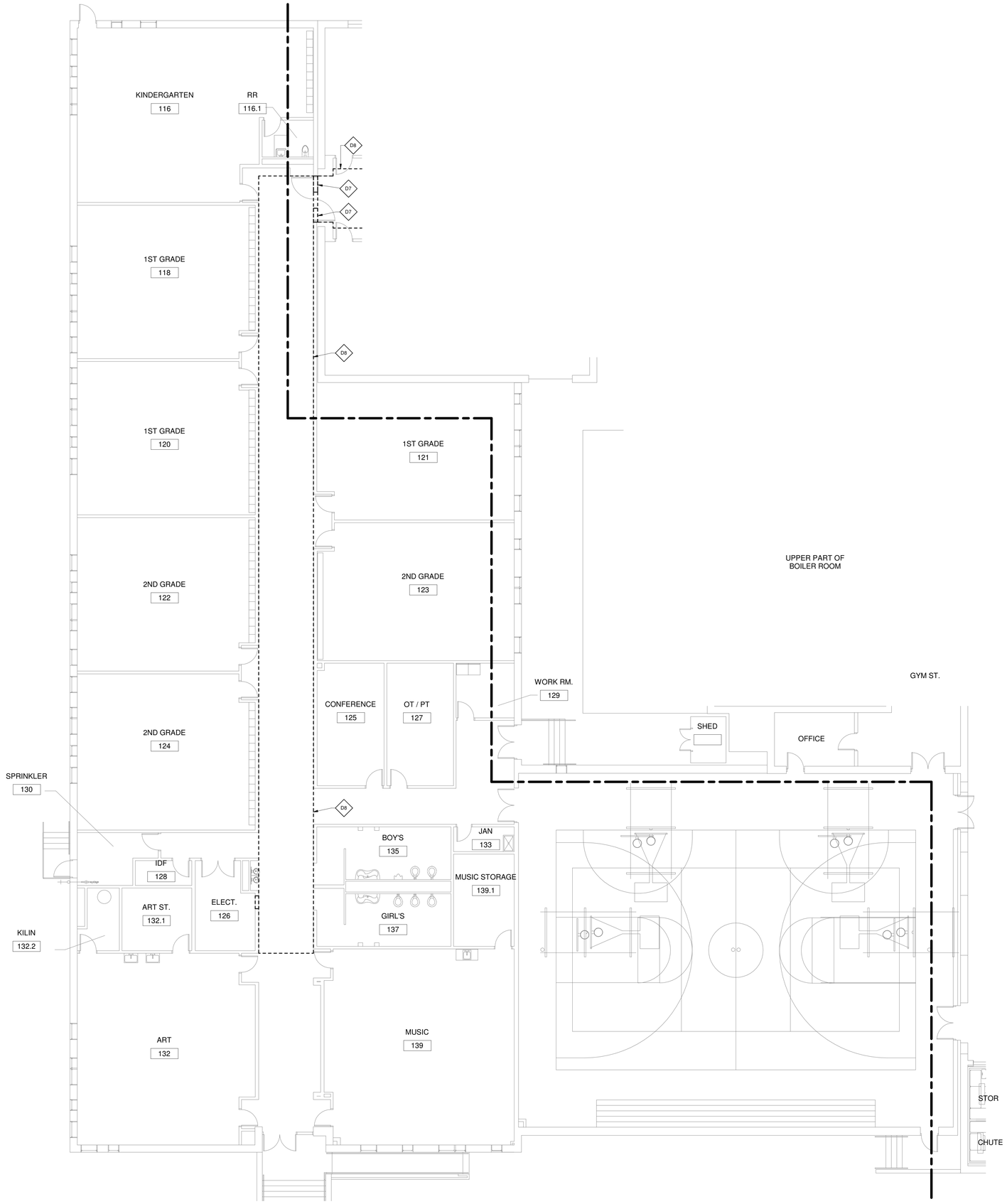
FIRST FLOOR DEMOLITION PLAN AREA A

SCALE

Scale: As indicated

SHEET NUMBER

D101A



1 **FIRST FLOOR DEMOLITION PLAN AREA B**

1/8" = 1'-0"

NORTH

DEMOLITION KEY NOTES

D1	REMOVE MECHANICAL EQUIPMENT- SEE MECHANICAL DRAWINGS.
D2	CAREFULLY REMOVE EXISTING CEILING SYSTEM AS REQUIRED TO PERFORM THE WORK AND SALVAGE FOR REINSTALLATION.
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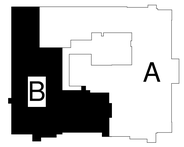

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Approved	Approver

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN AREA B

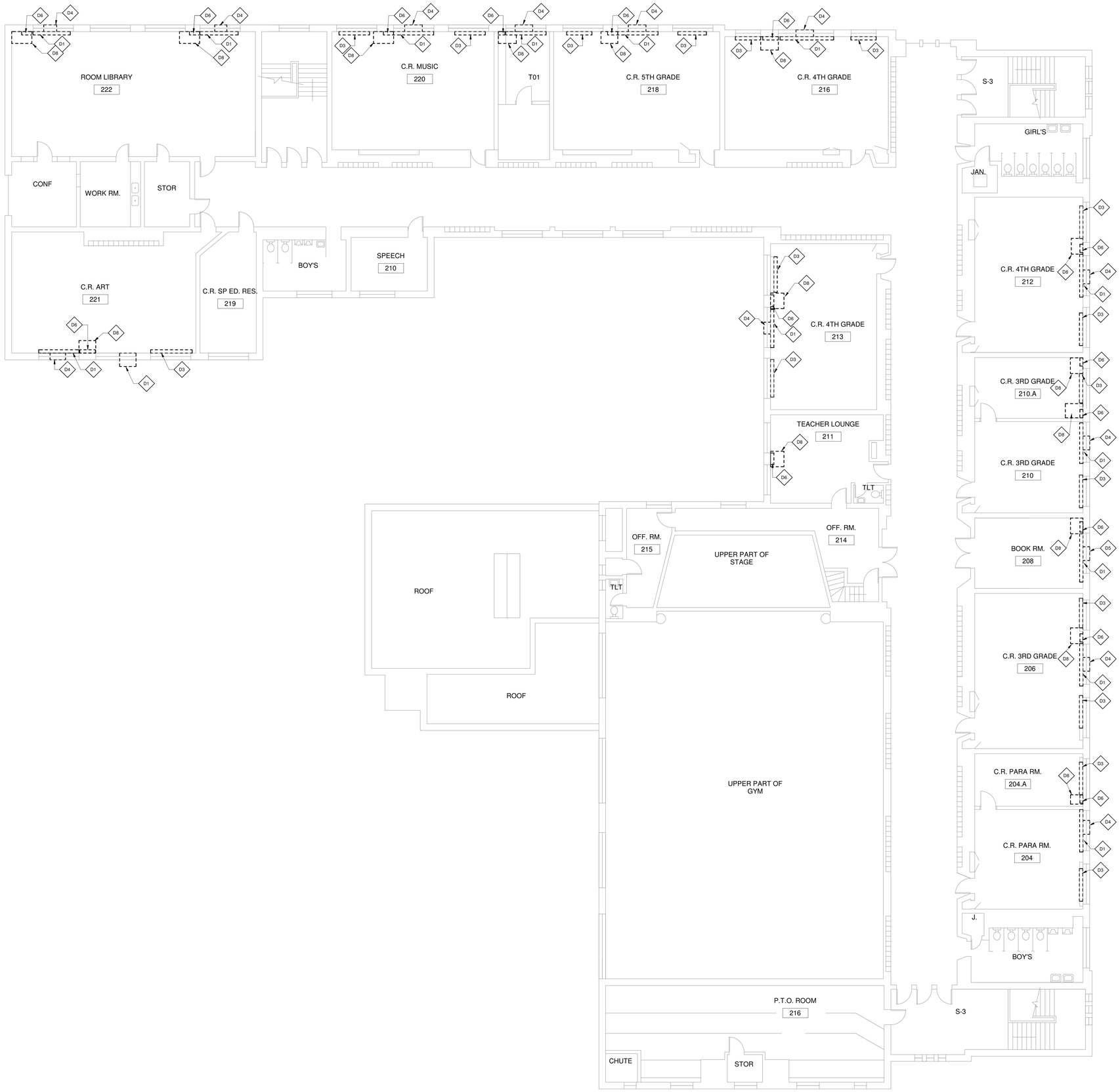
SCALE

Scale: As indicated

SHEET NUMBER

D101B

22006.30 3/11/2022 11:51:25 a. m. WELSH ELEMENTARY SCHOOL



DEMOLITION KEY NOTES

D1	REMOVE MECHANICAL EQUIPMENT- SEE MECHANICAL DRAWINGS.
D2	CAREFULLY REMOVE EXISTING CEILING SYSTEM AS REQUIRED TO PERFORM THE WORK AND SALVAGE FOR REINSTALLATION.
D3	MECHANICAL EQUIPMENT TO REMAIN - SEE MECHANICAL DRAWINGS
D4	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 FOR ADDITIONAL INFORMATION.
D5	REMOVE PORTION OF EXISTING GLASS PANEL FROM EXISTING WINDOW TO ACCOMMODATE NEW LOUVER. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D6	PROVIDE NEW FLOOR PENETRATION TO ROUTE PIPING. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D7	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW PIPING. IF CORING TIGHT TO NEW PIPING IS NOT FEASIBLE, REMOVE FULL CMU. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D8	CAREFULLY REMOVE EXISTING ACOUSTIC CEILING TILE AS REQUIRED TO ACCOMMODATE NEW WORK AND SALVAGE FOR REINSTALLATION.
D9	REMOVE PORTION OF EXISTING GYPSUM BOARD CEILING TO ACCOMMODATE NEW WORK.
D10	REMOVE PORTION OF EXISTING CEILING TO ACCOMMODATE NEW WORK.

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.

DEMO LEGEND

DEMOLITION WORK

NORTH

1 **SECOND FLOOR DEMOLITION PLAN**

1/8" = 1'-0"

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REVISIONS

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SHEET INFORMATION

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SHEET TITLE
SECOND FLOOR DEMOLITION PLAN

SCALE
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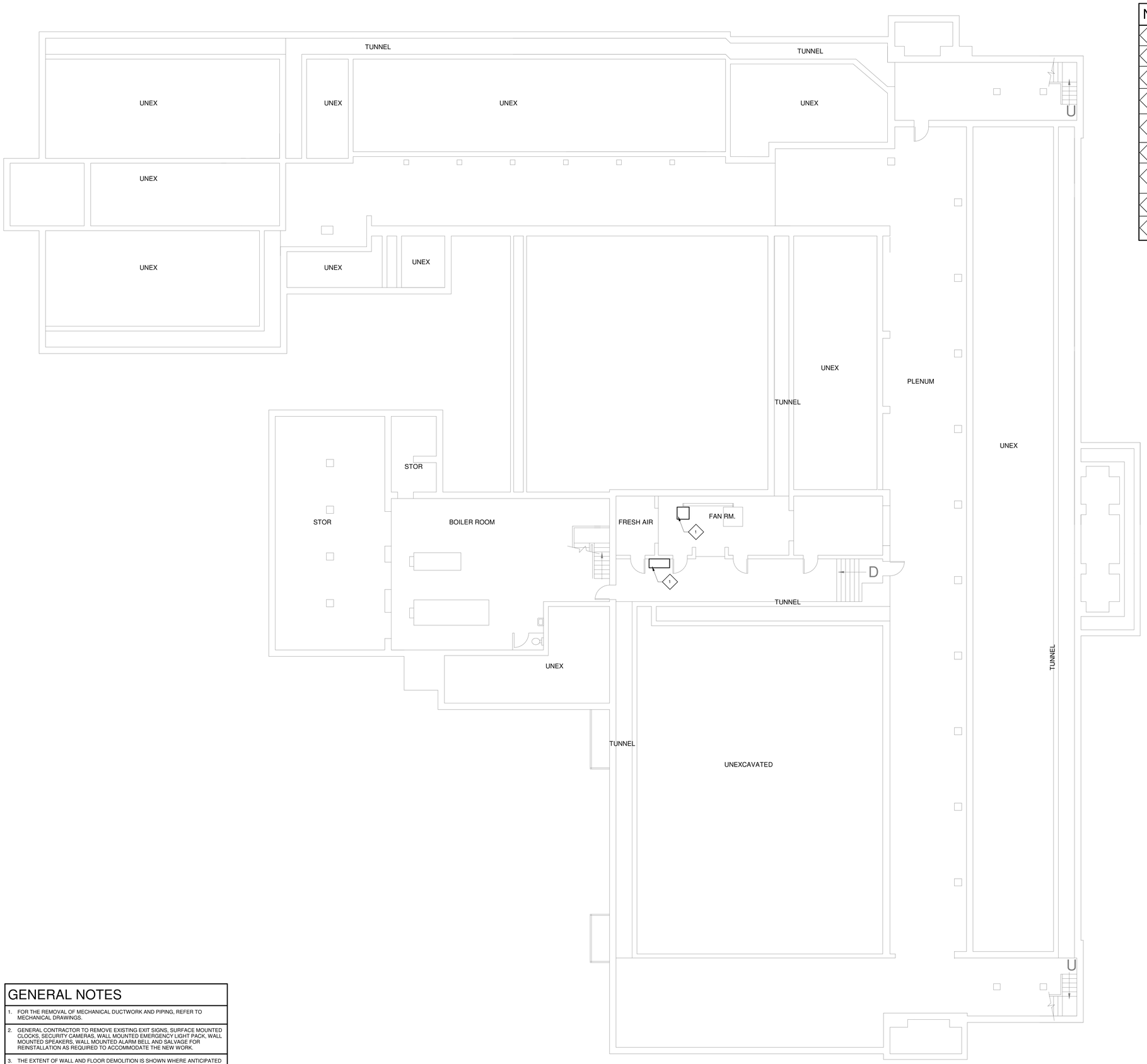
SHEET NUMBER
D102

22006.30 3/11/2022 11:51:27 a. m. WELSH ELEMENTARY SCHOOL



NEW WORK KEY NOTES

1	MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS.
2	PATCH, PREP, AND PAINT EXISTING WALL PREVIOUSLY COVERED BY MECHANICAL EQUIPMENT TO MATCH EXISTING ADJACENT SURFACE.
3	NEW LOUVER; TOOTH-IN SALVAGED MASONRY AT PERIMETER OF OPENING TO MATCH EXISTING COURSING - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. SEE DETAIL 2/A102
4	WHERE PIPING HAS BEEN ROUTED THROUGH A MASONRY WALL. INFILL HOLE TIGHT TO NEW PIPING WITH FULL CMU. MATCH THICKNESS AND COURSING.
5	WHERE PIPING HAS BEEN ROUTED THROUGH EXISTING FLOOR; PATCH CONCRETE SLAB AS REQUIRED TO MATCH ADJACENT SURFACE AND PATCH FINISH FLOOR TO MATCH EXISTING FINISH FLOOR IN COLOR, TYPE, TEXTURE AND SIZE.
6	WHERE EXISTING EQUIPMENT WAS REMOVED; PATCH FINISH FLOOR TO MATCH EXISTING FINISH FLOOR IN COLOR, TYPE, TEXTURE AND SIZE.
7	NEW LOUVER WITH METAL PANEL ON BOTH SIDES OF 1" RIGID INSULATION. COLOR TO MATCH WINDOW FRAME. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
8	INSTALL PIPE ENCLOSURE - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
9	PROVIDE GLAZING TO MATCH EXISTING IN R-VALUE, COLOR AND THICKNESS.

GENERAL NOTES

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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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NORTH

1 **BASEMENT FLOOR PLAN**

1/8" = 1'-0"

LEGEND

NEW WORK

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SHEET TITLE

BASEMENT FLOOR PLAN

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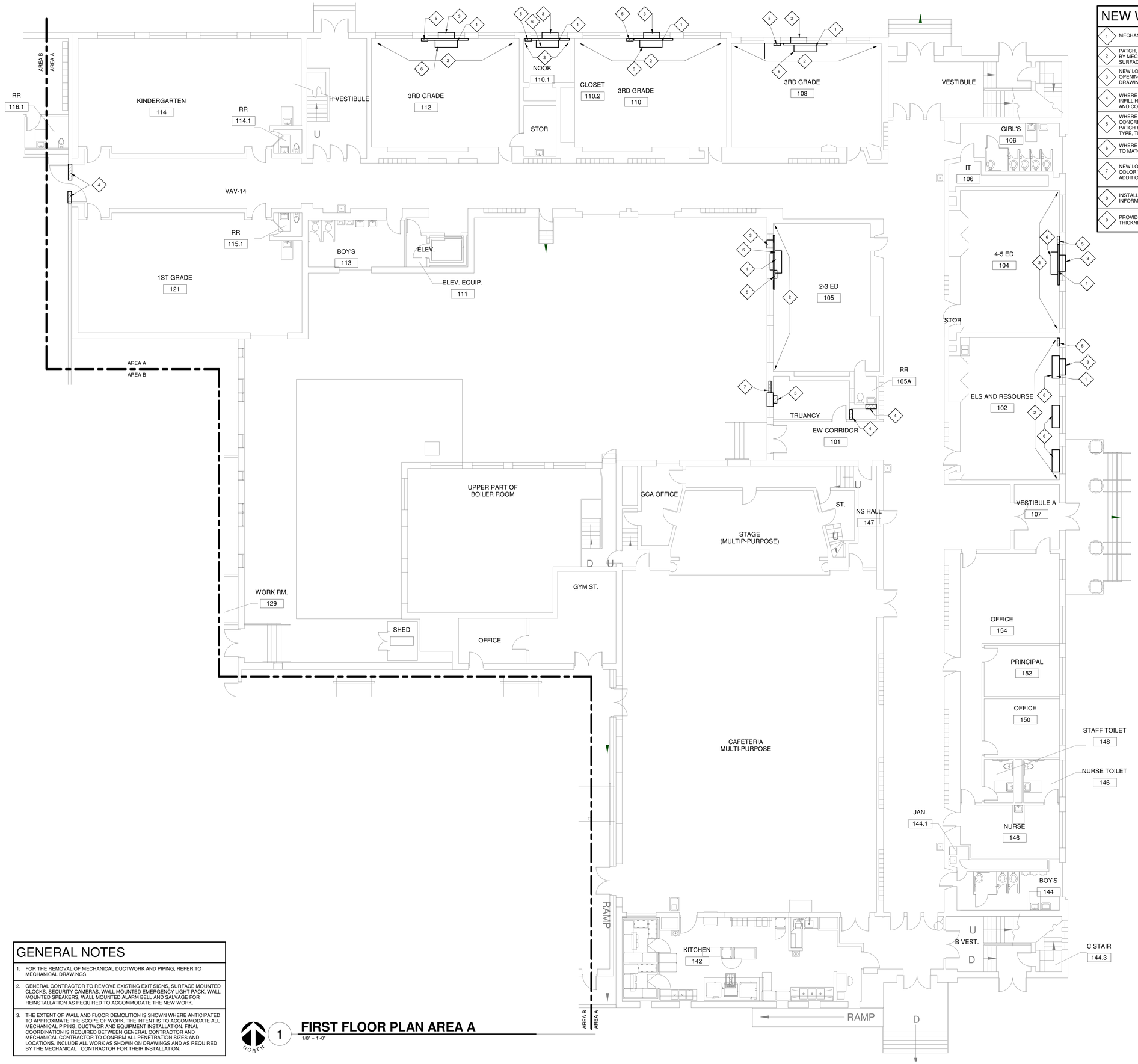
SHEET NUMBER

A100



NEW WORK KEY NOTES

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NORTH

1 **FIRST FLOOR PLAN AREA A**

1/8" = 1'-0"

LEGEND

NEW WORK

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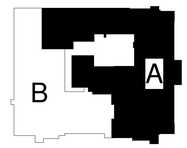
KEY PLAN



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FIRST FLOOR PLAN AREA A

SCALE

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SHEET NUMBER

A101A

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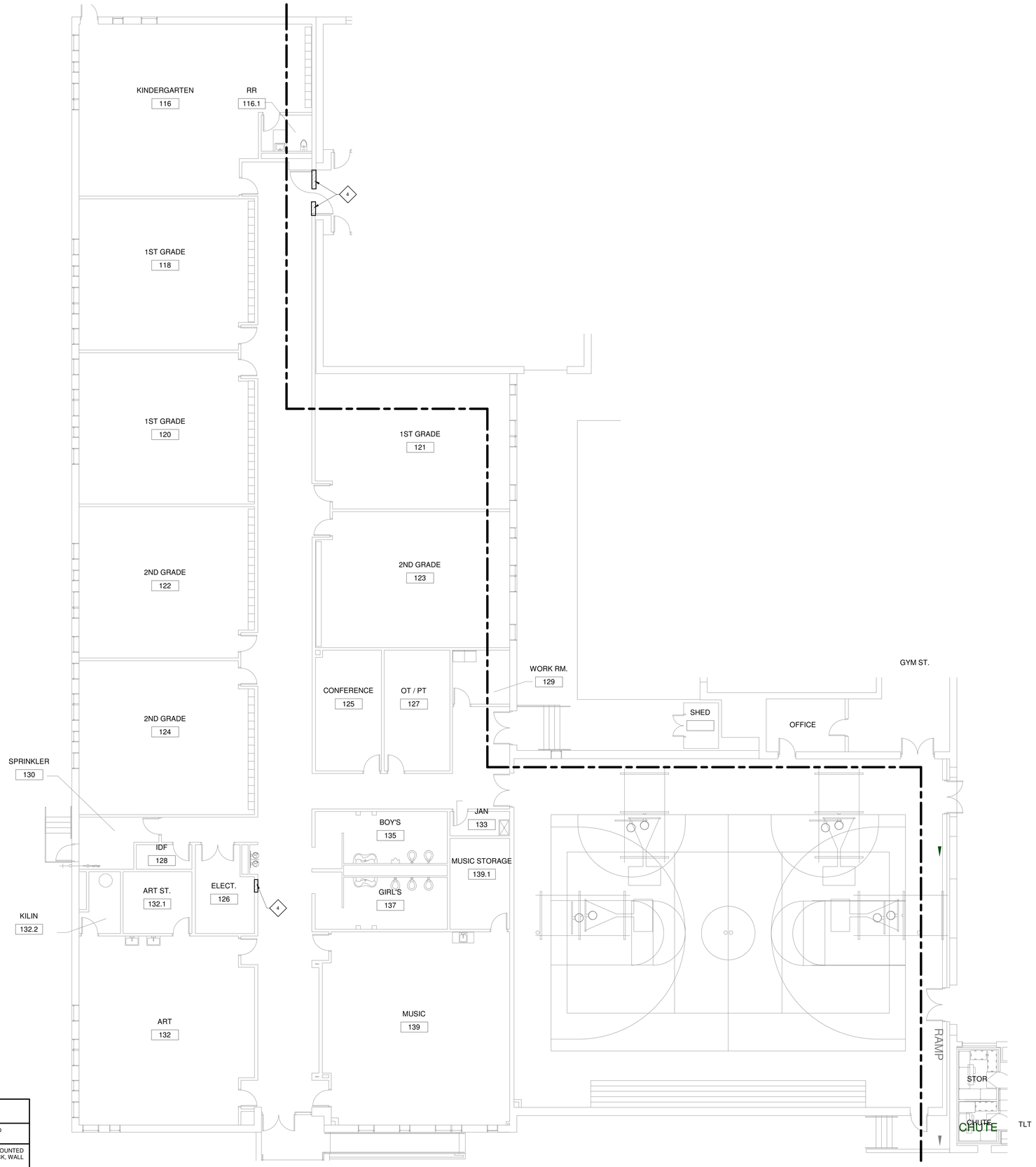

FIRST FLOOR PLAN AREA B

1 — 1/8" = 1'-0"

NORTH

NEW WORK KEY NOTES

1	MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS.
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LEGEND

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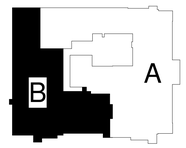

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SHEET TITLE
FIRST FLOOR PLAN AREA B

SCALE
Scale: As indicated

SHEET NUMBER
A101B

WELSH ELEMENTARY SCHOOL
3/11/2022 11:50:02 a. m.
22006.30

NEW WORK KEY NOTES

1	MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS.
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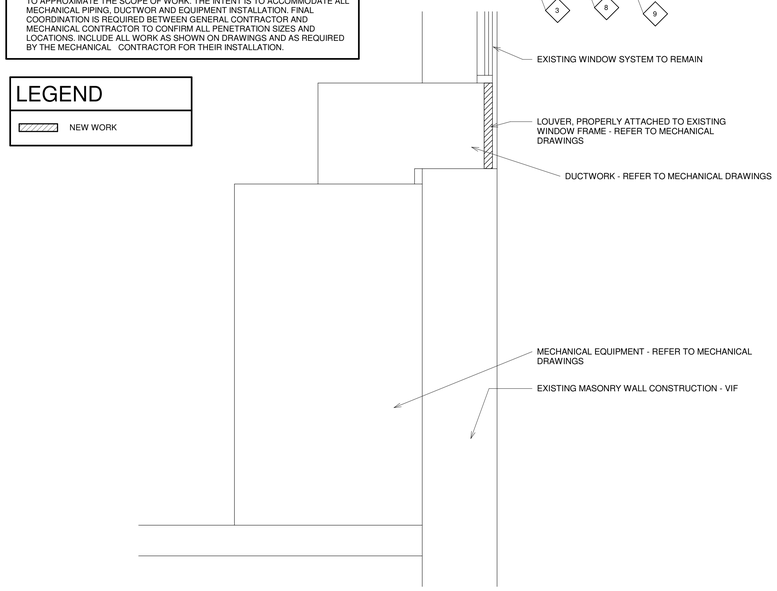
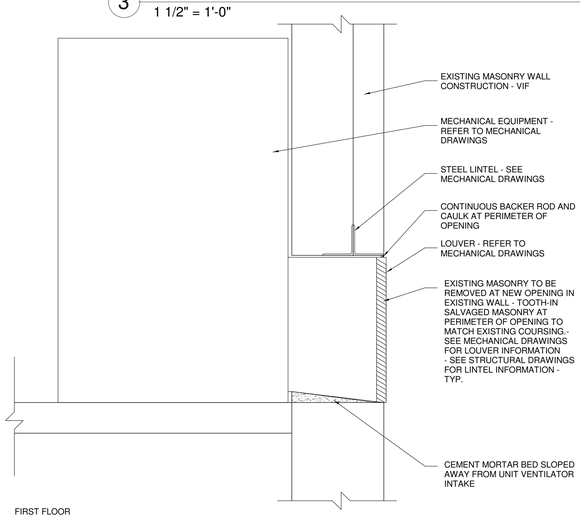
LEGEND

NEW WORK



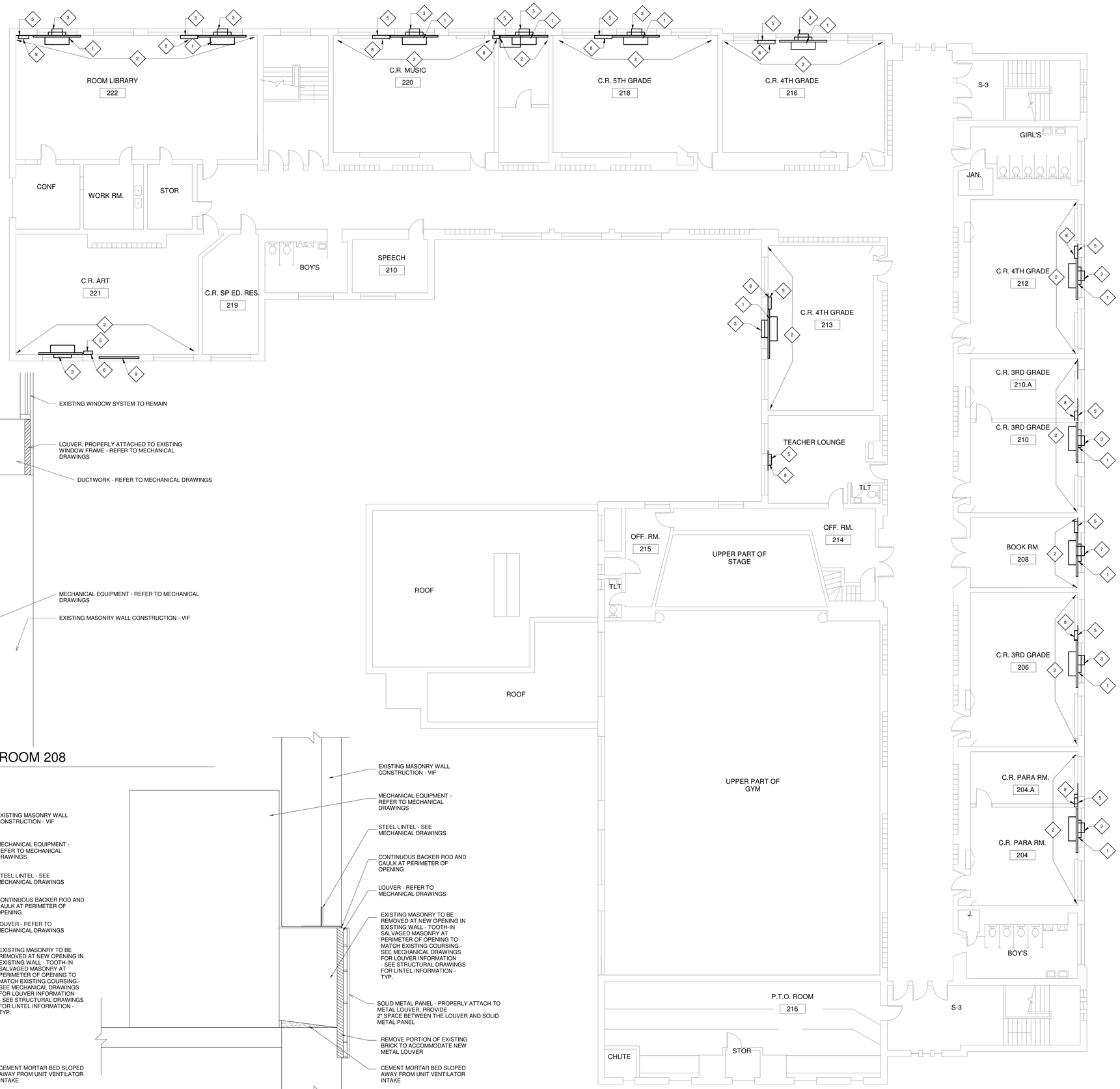
3 WINDOW LOUVER DETAIL AT ROOM 208

1 1/2" = 1'-0"



2 TYPICAL LOUVER DETAIL

1 1/2" = 1'-0"



NORTH

1 SECOND FLOOR PLAN

1/8" = 1'-0"

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Approved	Approver

SHEET TITLE

SECOND FLOOR PLAN

SCALE

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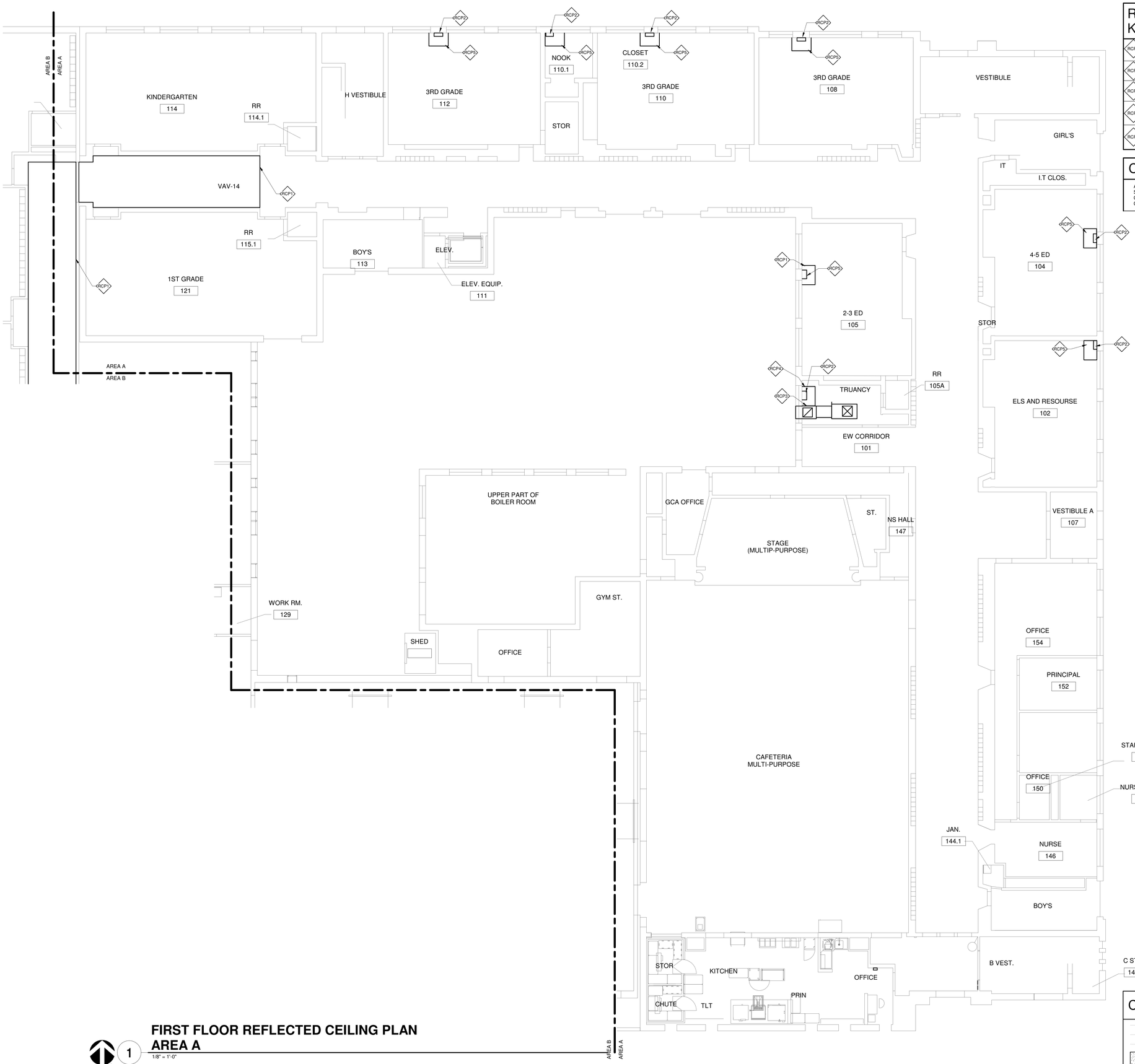
SHEET NUMBER

A102

WELSH ELEMENTARY SCHOOL

3/11/2022 11:50:05 a. m.

22006.30



FIRST FLOOR REFLECTED CEILING PLAN AREA A

1 — 1/8" = 1'-0"

NORTH

REFLECTED CEILING PLAN KEY NOTES

RCP1	REINSTALL SALVAGED ACOUSTIC CEILING TILE.
RCP2	PIPE ENCLOSURE - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
RCP3	MECHANICAL DUCTWORK - SEE MECHANICAL DRAWINGS.
RCP4	IN LOCATION WHERE GYPSUM BOARD HAS BEEN REMOVED TO ACCOMMODATE NEW WORK, PATCH, PREP, AND PAINT ENTIRE CEILING, COLOR TO MATCH EXISTING.
RCP5	INSTALL GYPSUM BOARD CEILING WITH EXPANSION JOINT, PATCH, PREP, AND PAINT.

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.

CEILING PLAN LEGEND

- 2X2 SUSPENDED ACT CEILING SYSTEM
- GYPSUM BOARD CEILING SYSTEM

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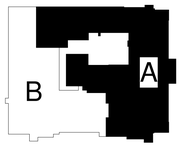
KEY PLAN



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REFERENCE SCALE IN INCHES
0 — 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

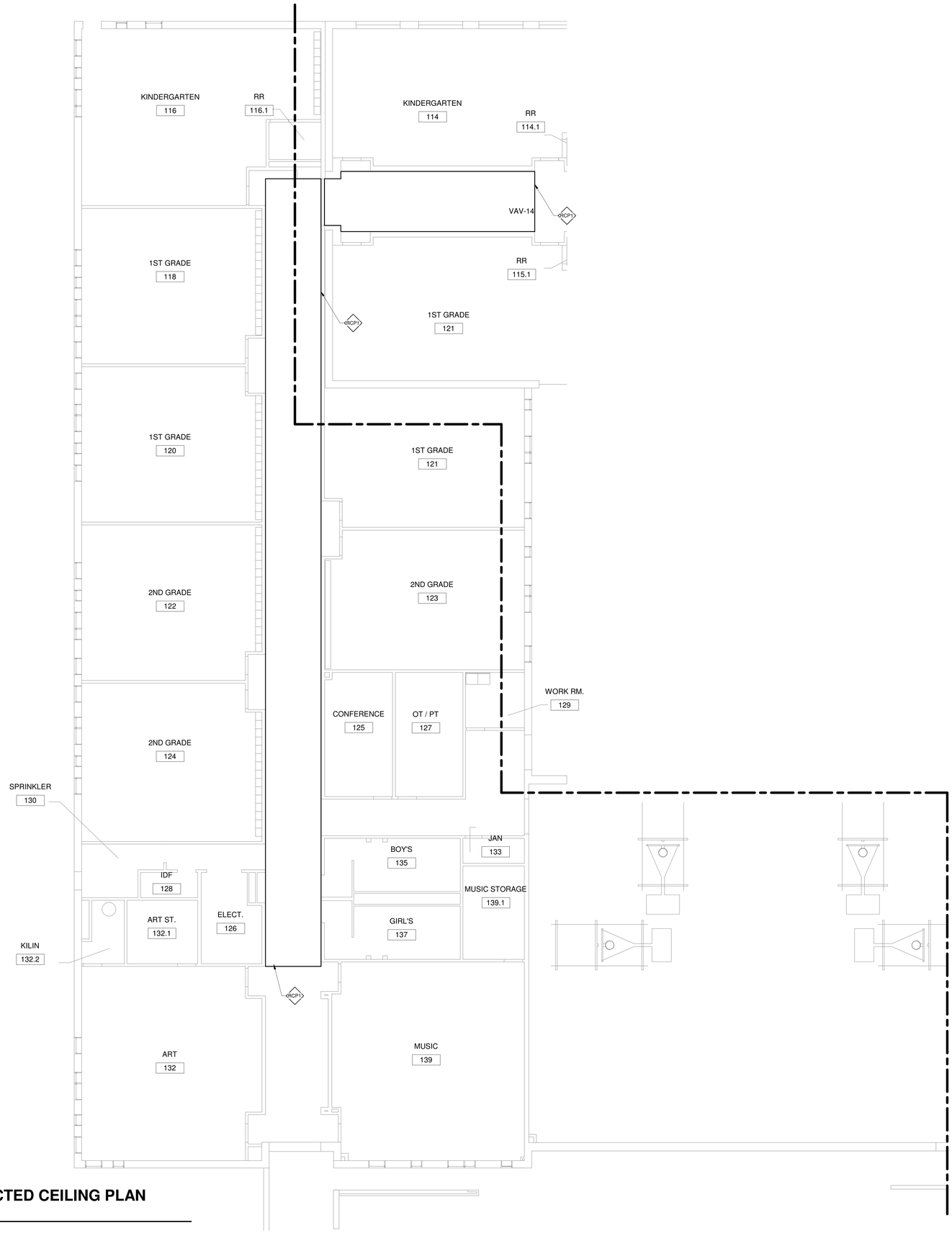
Issue	CONSTRUCTION DOCUMENT
Date	November 3, 2022
Job Number	22006.30
Drawn	MI
Checked	MS
Approved	Approver

SHEET TITLE
FIRST FLOOR REFLECTED CEILING PLAN AREA A

SCALE
Scale: As indicated

SHEET NUMBER
A201A

22006.30 3/11/2022 11:50:08 a. m. WELSH ELEMENTARY SCHOOL



FIRST FLOOR REFLECTED CEILING PLAN AREA B

1 — 1/8" = 1'-0"

NORTH

REFLECTED CEILING PLAN KEY NOTES

RCP1	REINSTALL SALVAGED ACOUSTIC CEILING TILE.
RCP2	PIPE ENCLOSURE - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
RCP3	MECHANICAL DUCTWORK - SEE MECHANICAL DRAWINGS.
RCP4	IN LOCATION WHERE GYPSUM BOARD HAS BEEN REMOVED TO ACCOMMODATE NEW WORK, PATCH, PREP, AND PAINT ENTIRE CEILING, COLOR TO MATCH EXISTING.
RCP5	INSTALL GYPSUM BOARD CEILING WITH EXPANSION JOINT, PATCH, PREP, AND PAINT.

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.

CEILING PLAN LEGEND

	2X2 SUSPENDED ACT CEILING SYSTEM
	GYPSUM BOARD CEILING SYSTEM

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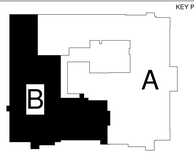
KEY PLAN



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Drawn	Author
Checked	Checker
Approved	Approver

SHEET TITLE

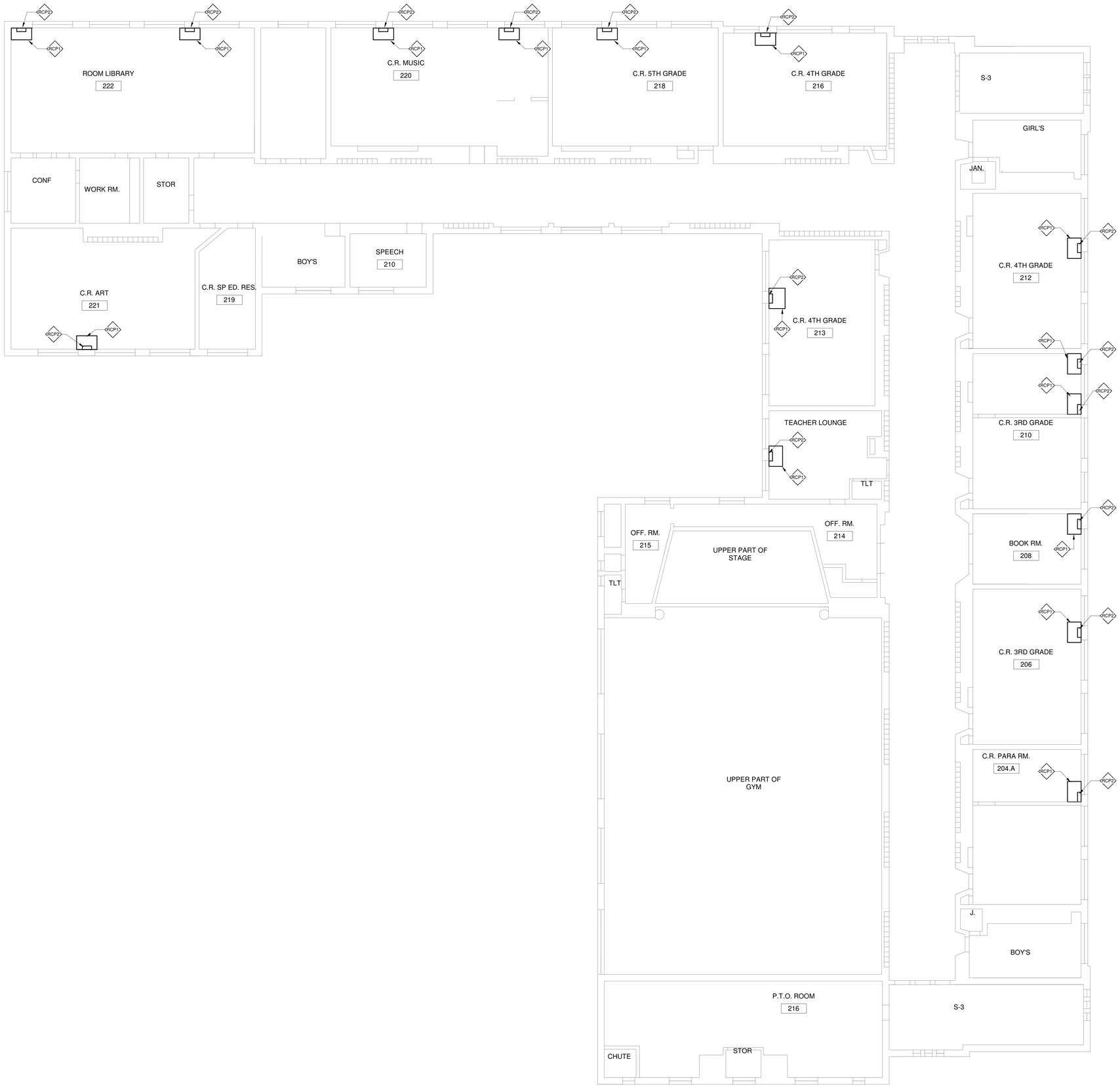
FIRST FLOOR REFLECTED CEILING PLAN AREA B

SCALE

Scale: As indicated

SHEET NUMBER

A201B



REFLECTED CEILING PLAN KEY NOTES

RCP1	REINSTALL SALVAGED ACOUSTIC CEILING TILE.
RCP2	PIPE ENCLOSURE - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
RCP3	MECHANICAL DUCTWORK - SEE MECHANICAL DRAWINGS.
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CEILING PLAN LEGEND

2X2 SUSPENDED ACT CEILING SYSTEM

GYPSUM BOARD CEILING SYSTEM

NORTH

1 **SECOND FLOOR REFLECTED CEILING PLAN**

1/8" = 1'-0"

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Drawn	**MI**
Checked	**MS**
Approved	**Approver**

SHEET TITLE

SECOND FLOOR REFLECTED CEILING PLAN

SCALE

Scale: **As indicated**

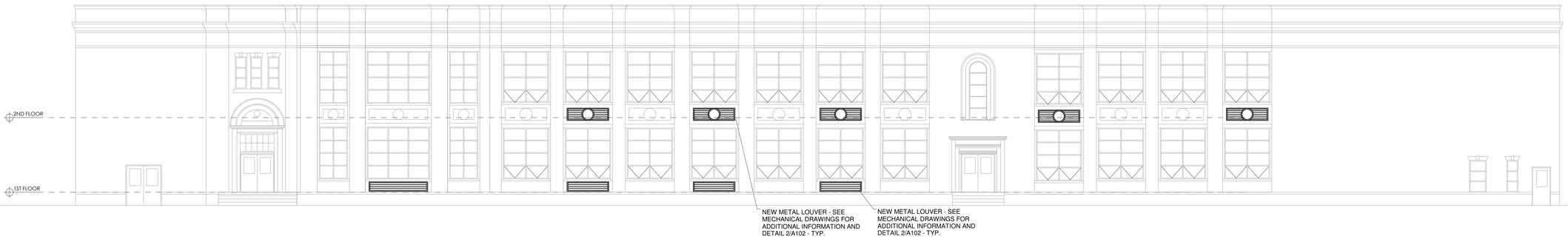
SHEET NUMBER

A202

22006.30 3/11/2022 11:50:13 a. m. WELSH ELEMENTARY SCHOOL

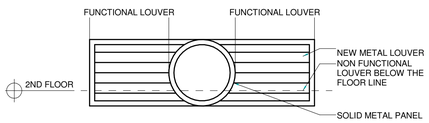
1 WELSH EMENTARY SCHOOL - EAST (FRONT) ELEVATION

1/8" = 1'-0"



2 WELSH EMENTARY SCHOOL -NORTH (SIDE) ELEVATION

1/8" = 1'-0"



3 EAST (FRONT) ELEVATION

1/2" = 1'-0"

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Drawn	Author
Checked	Checker
Approved	Approver

SHEET TITLE
ELEVATIONS

SCALE
Scale: As indicated

SHEET NUMBER
A300

ROOF KEYNOTES

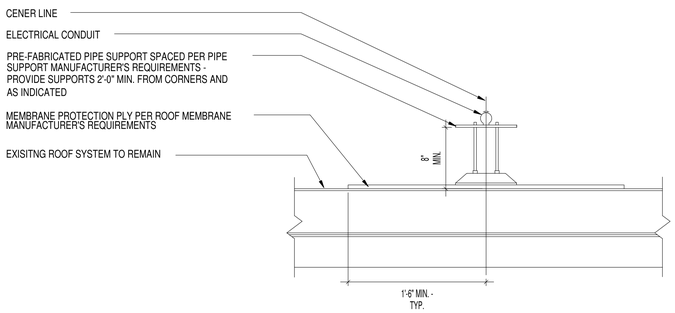
1	MECHANICAL EQUIPMENT- SEE MECHANICAL DRAWINGS AND DETAIL 3/A204
2	PIPE - SEE MECHANICAL DRAWINGS AND DETAIL 2/A204
3	PIPE PENETRATION - SEE MECHANICAL DRAWINGS AND DETAIL 4/A204
4	PROVIDE WALKWAY PADS ALL SIDES OF MECHANICAL EQUIPMENT.

ROOF WARRANTY NOTE

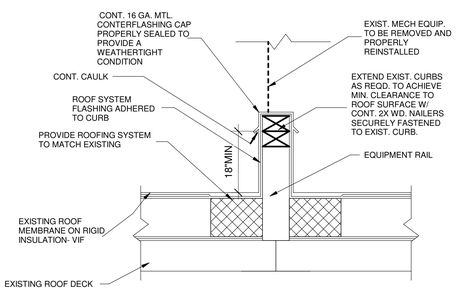
GENERAL CONTRACTOR TO VERIFY WITH EXISTING ROOFING MANUFACTURER THE REQUIREMENTS TO MAINTAIN EXISTING FULL ROOF WARRANTY PRIOR TO THE COMMENCEMENT OF ANY ROOF WORK.

ROOF NOTE

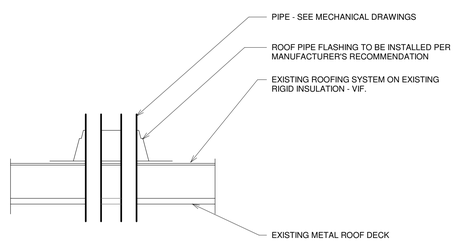
INSTALL CONDENSING UNITS 12' - 0" MINIMUM AWAY FROM THE EDGE OF THE BUILDING



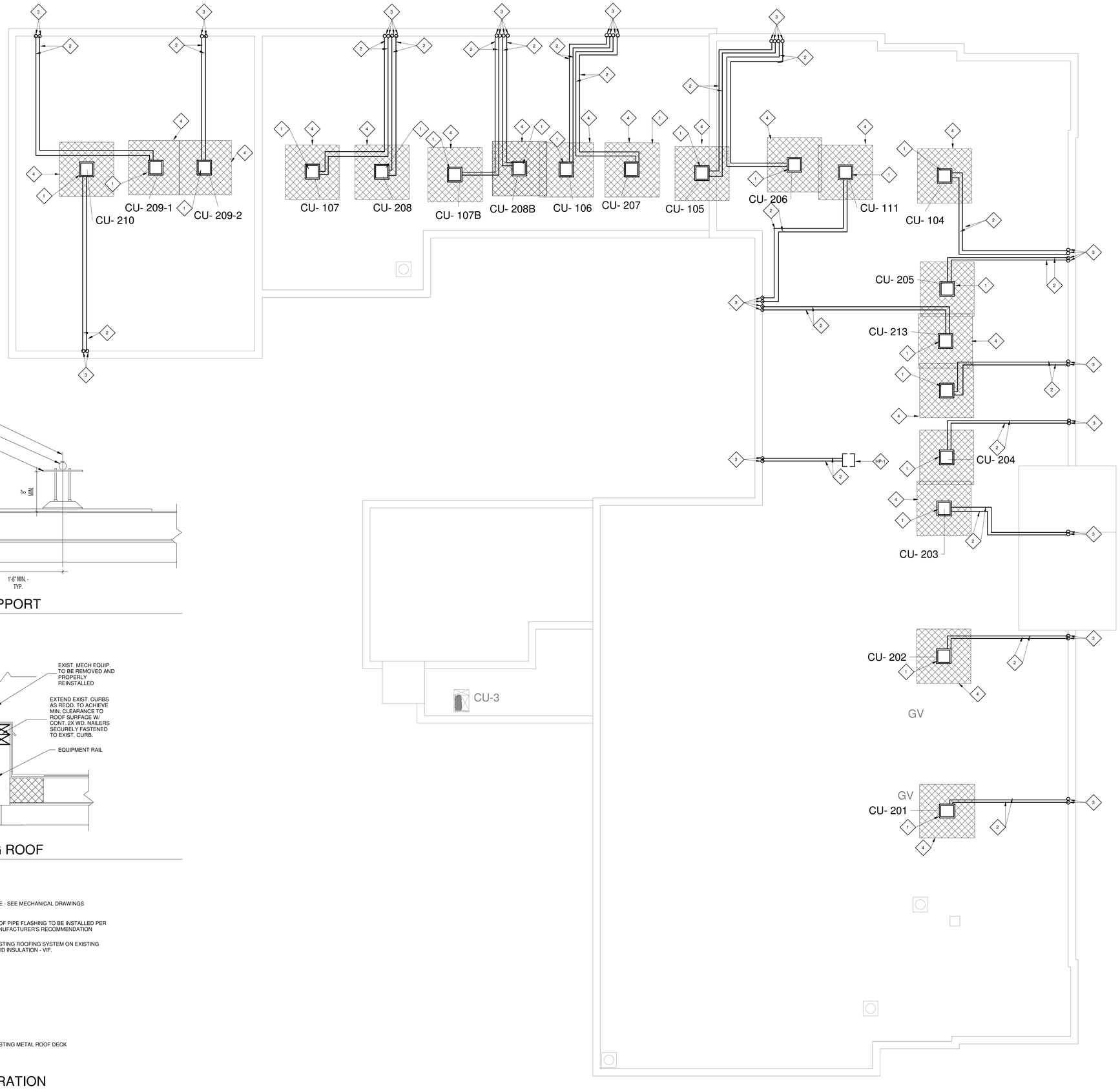
2 TYP. PRE-FABRICATED PIPE SUPPORT
1 1/2" = 1'-0"



3 TYP. ROOF CURB AT EXISTING ROOF
1 1/2" = 1'-0"



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



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

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SHEET TITLE
ROOF PLAN

SCALE
Scale: As indicated

SHEET NUMBER
A301

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
NORTH

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

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

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

MECHANICAL DESIGN CONDITIONS:

DESIGN CONDITIONS: **BASED ON WEATHER DATA FOR: ROCKFORD, ILLINOIS**

SUMMER: 95°F DRY BULB, 78°F WET BULB
WINTER: -15°F DRY BULB

TYPICAL ROOM SETPOINTS:

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

REFER TO CONTROL DIAGRAMS FOR ROOM SPECIFICS.

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
CAF	COMPRESSED AIR - FIRE PROTECTION
CO2	CARBON DIOXIDE
CW	COLD WATER - POTABLE
DFP	DRAIN - FIRE PROTECTION
DMG	DRAIN - MEDICAL GAS
DPP	DRAIN - PIPING
HG	REFRIGERANT HOT GAS
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
IA	
LCS	
LIQ	REFRIGERANT LIQUID
LPC	
LPS	
LWR	LOOP WATER RETURN
LWS	LOOP WATER SUPPLY
RWR	REHEAT WATER RETURN
RWS	REHEAT WATER SUPPLY
SUC	REFRIGERANT SUCTION
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
RD-1 6"(1000)	ROOF DRAIN PROPERTIES — SYMBOL; SIZE (ROOF SQ. FT.)
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	SOLENOID VALVE
	PUMP
	FLEXIBLE CONNECTION
M	METER

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
SD-1 6/115	AIR TERMINAL PROPERTIES — SYMBOL; NECK SIZE/CFM
###	TERMINAL AIR BOX (REFER TO SCHEDULE)
###	TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
	FAN POWERED TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
H	HUMIDIFIER
	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
XX-Y	AIRFLOW MEASUREMENT SYMBOL; XX - AHU SYMBOL; Y - SEQUENTIAL NUMBER
	ACTUATOR
	DOOR SWITCH
	DIFFERENTIAL PRESSURE SWITCH
	CURRENT SWITCH
	VIBRATION SWITCH
	FLOW METER
	FAN
MTR	MOTOR
R	CONTACTOR
	PUMP
	NORMALL CLOSED CONTACT
	NORMALLY OPEN CONTACT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
P	PRESSURE SWITCH
	MONITOR SWITCH
T	THERMOSTAT
T	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
	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
	FILTER
DSD	DUCT SMOKE DETECTOR
	HEATING/ COOLING COIL
	AIR BLENDER

MECHANICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
C	COMMON
CB	CATCH BASIN
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
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
SCCR	SHORT CIRCUIT CURRENT RATING
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)
UON	UNLESS OTHERWISE NOTES
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 SHEET INDEX

M000	MECHANICAL COVERSHEET
M100	BASEMENT DEMOLITION PLAN - MECHANICAL
M101	FIRST FLOOR DEMOLITION PLAN - MECHANICAL
M102	SECOND FLOOR DEMOLITION PLAN - MECHANICAL
M200	BASEMENT PLAN - MECHANICAL
M201	FIRST FLOOR PLAN - MECHANICAL
M202	SECOND FLOOR PLAN - MECHANICAL
M204	ROOF PLAN - MECHANICAL
M410	MECHANICAL DETAILS
M411	MECHANICAL DETAILS
M510	MECHANICAL CONTROL DIAGRAMS
M610	MECHANICAL SCHEDULES
GRAND TOTAL: 12	

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE 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.
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
16. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING, DUCTWORK, PIPING, ETC.
17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
18. 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.
19. ROOF WARRANTY NOTE:
    CONTRACTOR TO VERIFY WITH EXISTING ROOFING MANUFACTURER THE REQUIREMENTS TO MAINTAIN EXISTING FULL ROOF WARRANTY PRIOR TO THE COMMENCEMENT OF ANY ROOF WORK.

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE 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 ARCHITECT 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
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. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

MECHANICAL PHASING NOTES:

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

1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO ARCHITECT'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
3. PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

VENTILATION GENERAL NOTES:

1. ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.

PIPING GENERAL NOTES:

1. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
2. INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

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SHEET INFORMATION

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Job Number	**21002885.08**
Drawn	**EFRGON**
Checked	**QEUMAZ**
Approved	**BRAPIE**

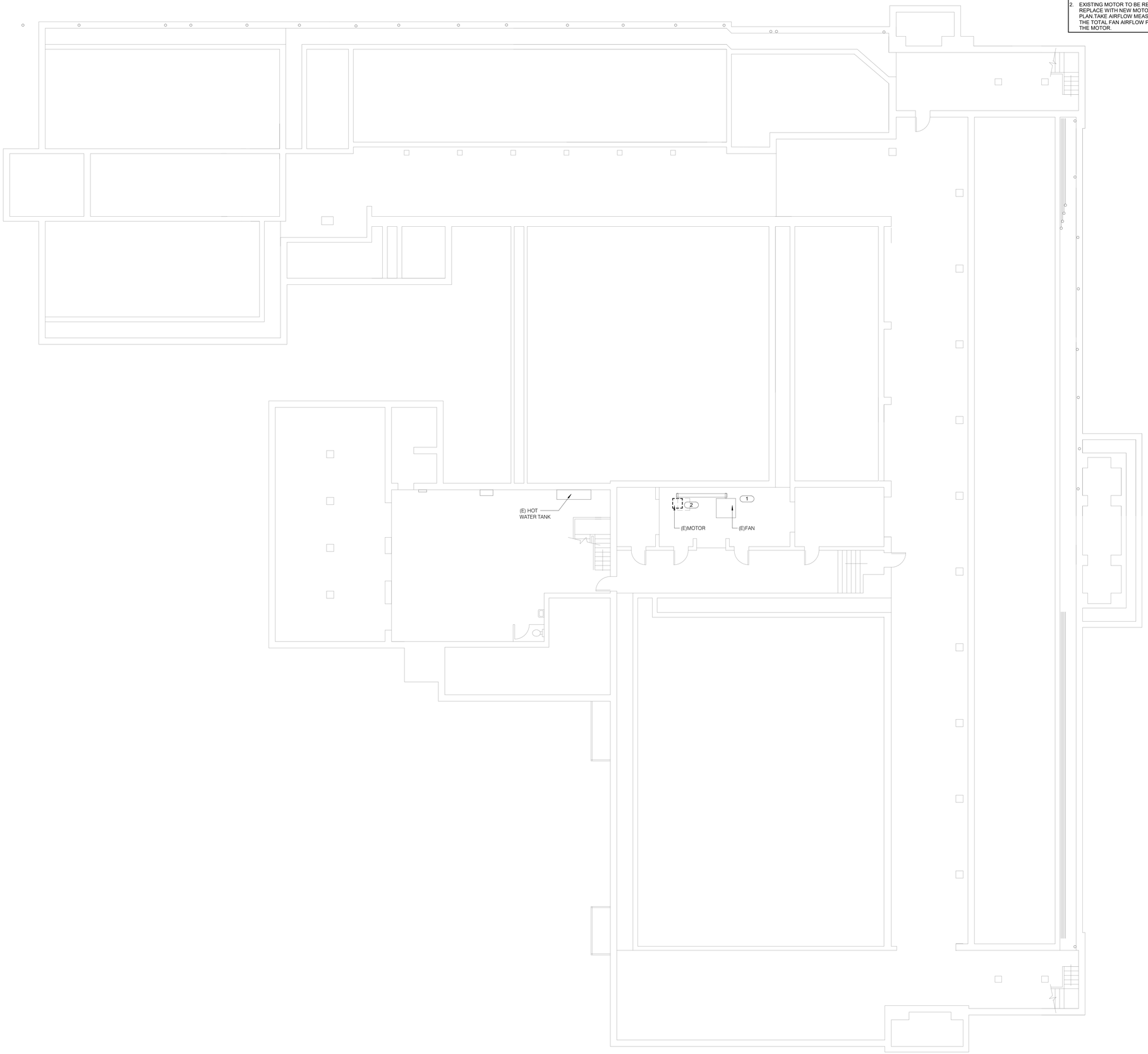
SHEET TITLE
MECHANICAL COVERSHEET

SCALE
Scale: **As indicated**

SHEET NUMBER
M000

KEYNOTES: #

1. EXISTING FAN TO REMAIN.
2. EXISTING MOTOR TO BE REMOVED AND REPLACE WITH NEW MOTOR AS PER REMODEL PLAN.TAKE AIRFLOW MEASUREMENTS FOR THE TOTAL FAN AIRFLOW PRIOR TO REMOVING THE MOTOR.



1 **BASEMENT DEMOLITION PLAN - MECHANICAL**
1/8" = 1'-0"

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SHEET TITLE

BASEMENT DEMOLITION PLAN - MECHANICAL

SCALE

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

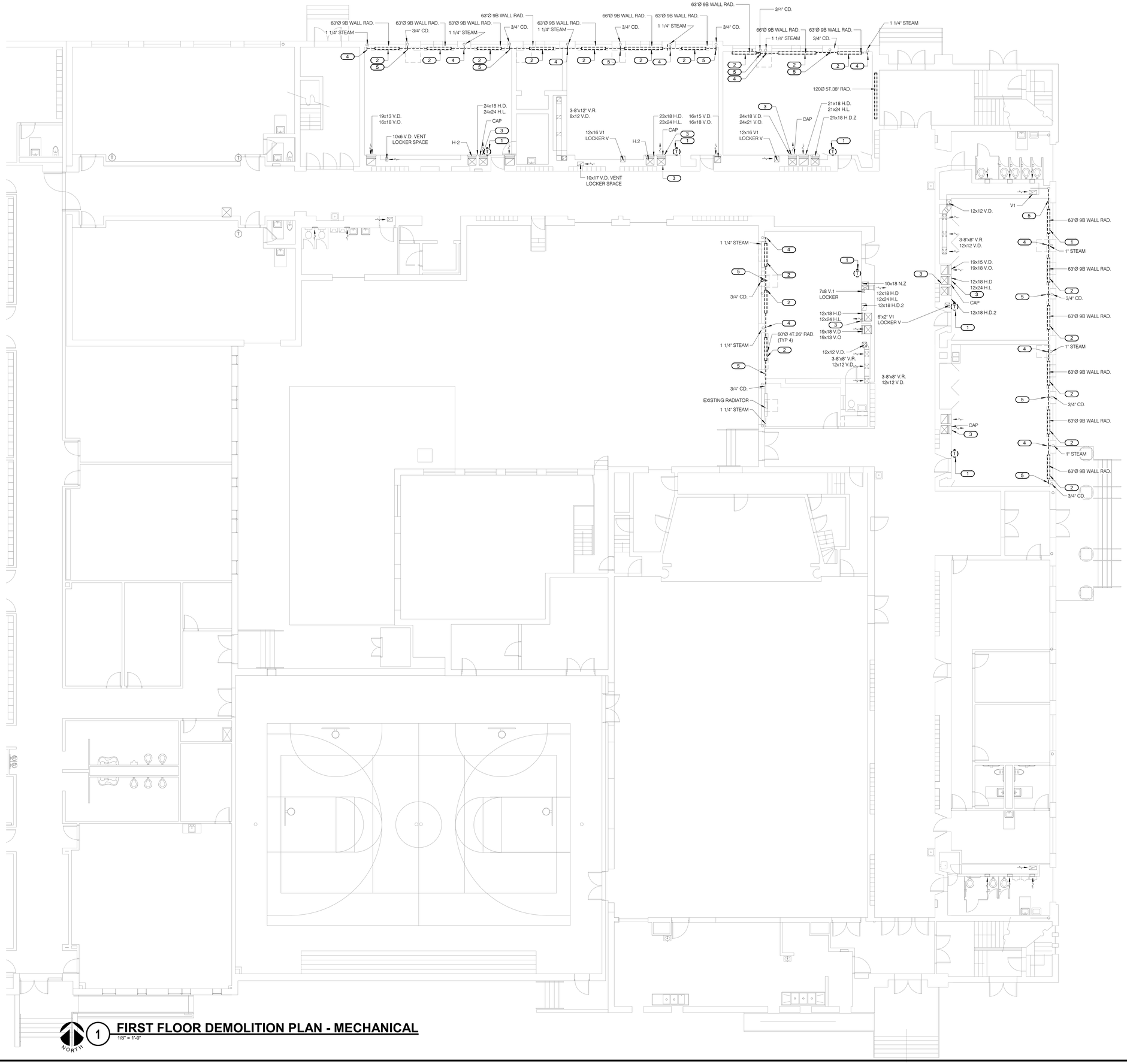
SHEET NUMBER

M100

21002885.08 11/15/2022 11:42:39 AM ESSER HVAC Improvements - Welsh Elementary School

KEYNOTES: #

1. REMOVE EXISTING THERMOSTAT. REMOVE ALL EXISTING PNEUMATIC CONTROLS AND TUBING.
2. REMOVE EXISTING STEAM RADIATOR AND ASSOCIATED STEAM AND CONDENSATE PIPING CONNECTIONS. PIPING SHALL BE REMOVED BACK TO AND INCLUDING THE EXISTING STEAM CONTROL VALVE.
3. TAKE PREBALANCE READINGS OF AIRFLOWS FROM THE HOUSE FAN PRIOR TO DEMOLITION. CAP EXISTING DUCT OPENING AND PAINT. PAINT SELECTION BY THE ARCHITECT.
4. EXISTING STEAM SUPPLY PIPE TO BE CAPPED FOR FUTURE USE TO PROVIDE STEAM TO NEW UNIT VENTILATOR.
5. EXISTING LOW PRESSURE CONDENSATE DRAIN PIPE TO BE CAPPED FOR FUTURE USE TO CONNECT TO DRAIN FROM NEW UNIT VENTILATOR.



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1 **FIRST FLOOR DEMOLITION PLAN - MECHANICAL**
1/8" = 1'-0"

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SHEET TITLE

FIRST FLOOR DEMOLITION PLAN - MECHANICAL

SCALE

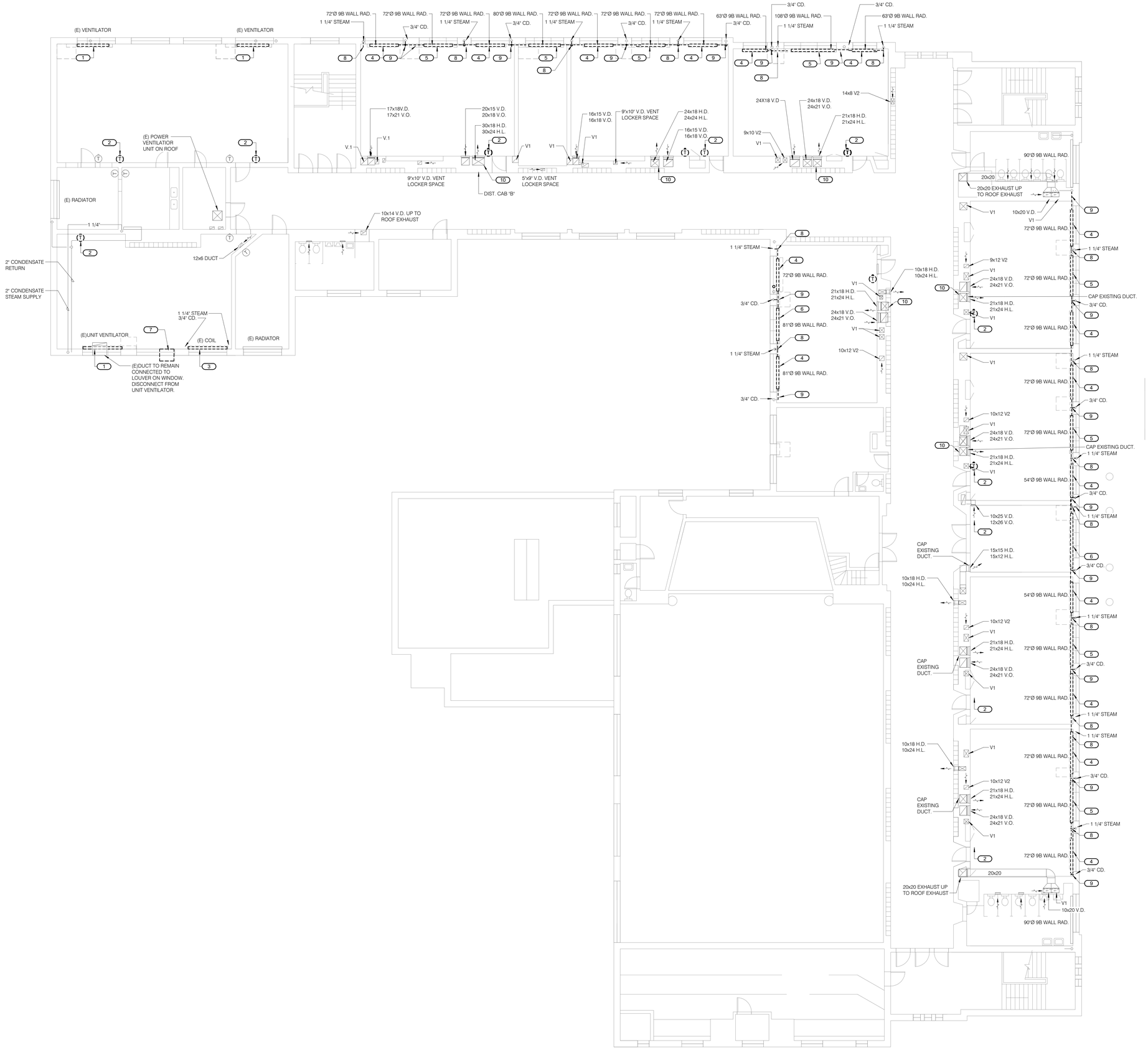
Scale: **1/8" = 1'-0"**

SHEET NUMBER

M101

KEYNOTES: #

1. REMOVE EXISTING UNIT VENTILATOR, UNIT CURB AND ASSOCIATED STEAM AND CONDENSATE PIPING CONNECTIONS. PIPING SHALL BE REMOVED BACK TO AND INCLUDING THE EXISTING STEAM CONTROL VALVE. EXISTING UNIT VENTILATOR PIPING IS ROUTED TO UNIT FROM FLOOR BELOW. PREPARE STEAM AND CONDENSATE PIPING FOR NEW CONNECTION. EXISTING VALVE SHALL BE REPLACED. REMOVE ANY ASSOCIATED EXISTING PNEUMATIC CONTROL LINES BACK TO NEAREST MAIN AND CAP. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING STEAM TRAP AND ACCESORIES FOR AVAILABLE ACCESS.
2. REMOVE EXISTING THERMOSTAT. REMOVE ALL EXISTING PNEUMATIC CONTROLS AND TUBING.
3. EXISTING CONVECTOR TO BE DEMOLISHED.
4. EXISTING STEAM RADIATOR TO BE DEMOLISHED.
5. REMOVE EXISTING STEAM RADIATOR AND ASSOCIATED STEAM AND CONDENSATE PIPING CONNECTIONS. PIPING SHALL BE REMOVED BACK TO AND INCLUDING THE EXISTING STEAM CONTROL VALVE.
6. REMOVE EXISTING STEAM CONVECTOR AND ASSOCIATED STEAM AND CONDENSATE PIPING CONNECTIONS. PIPING SHALL BE REMOVED BACK TO AND INCLUDING THE EXISTING STEAM CONTROL VALVE.
7. REMOVE EXISTING WINDOW AC UNIT. RETURN TO OWNER. SEE ARCH DRAWINGS FOR NEW WINDOW.
8. EXISTING STEAM SUPPLY PIPE TO BE CAPPED FOR FUTURE USE TO PROVIDE STEAM TO NEW UNIT VENTILATOR.
9. EXISTING LOW PRESSURE CONDENSATE DRAIN PIPE TO BE CAPPED FOR FUTURE USE TO CONNECT TO DRAIN FROM NEW UNIT VENTILATOR.
10. TAKE PREBALANCE READINGS OF AIRFLOWS FROM THE HOUSE FAN PRIOR TO DEMOLITION. CAP EXISTING DUCT AND PAINT. PAINT SELECTION BY THE ARCHITECT.



1 SECOND FLOOR DEMOLITION PLAN - MECHANICAL

1/8" = 1'-0"

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SHEET TITLE

SECOND FLOOR DEMOLITION PLAN - MECHANICAL

SCALE

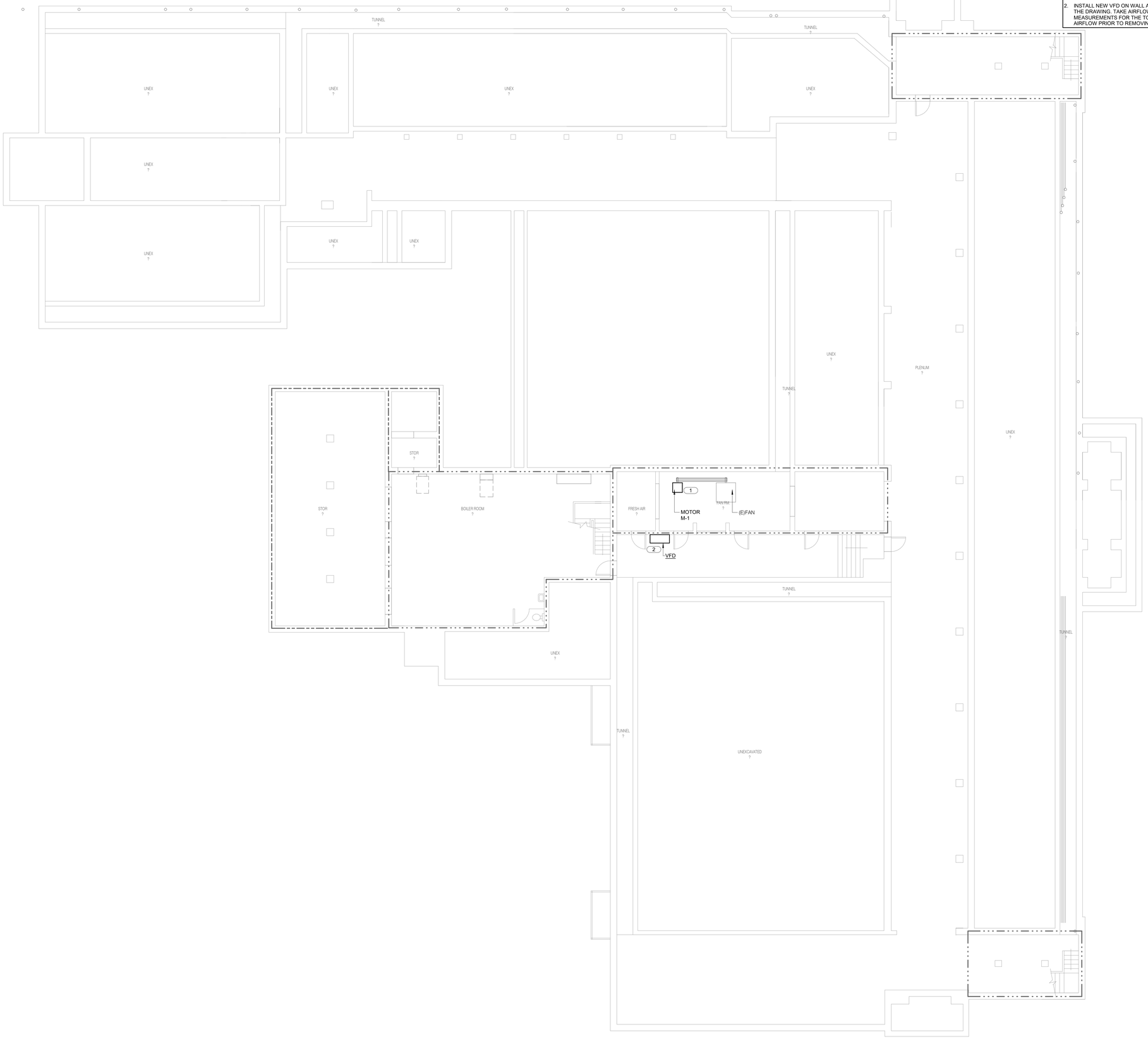
Scale: **1/8" = 1'-0"**

SHEET NUMBER

M102

KEYNOTES: #

1. REPLACE EXISTING MOTOR WITH NEW MOTOR. NEW MOTOR TO BE VFD RATED.
2. INSTALL NEW VFD ON WALL AS SHOWN ON THE DRAWING. TAKE AIRFLOW MEASUREMENTS FOR THE TOTAL FAN AIRFLOW PRIOR TO REMOVING THE MOTOR.



1 **BASEMENT PLAN - MECHANICAL**
1/8" = 1'-0"

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SHEET TITLE
BASEMENT PLAN - MECHANICAL

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

SHEET NUMBER
M200

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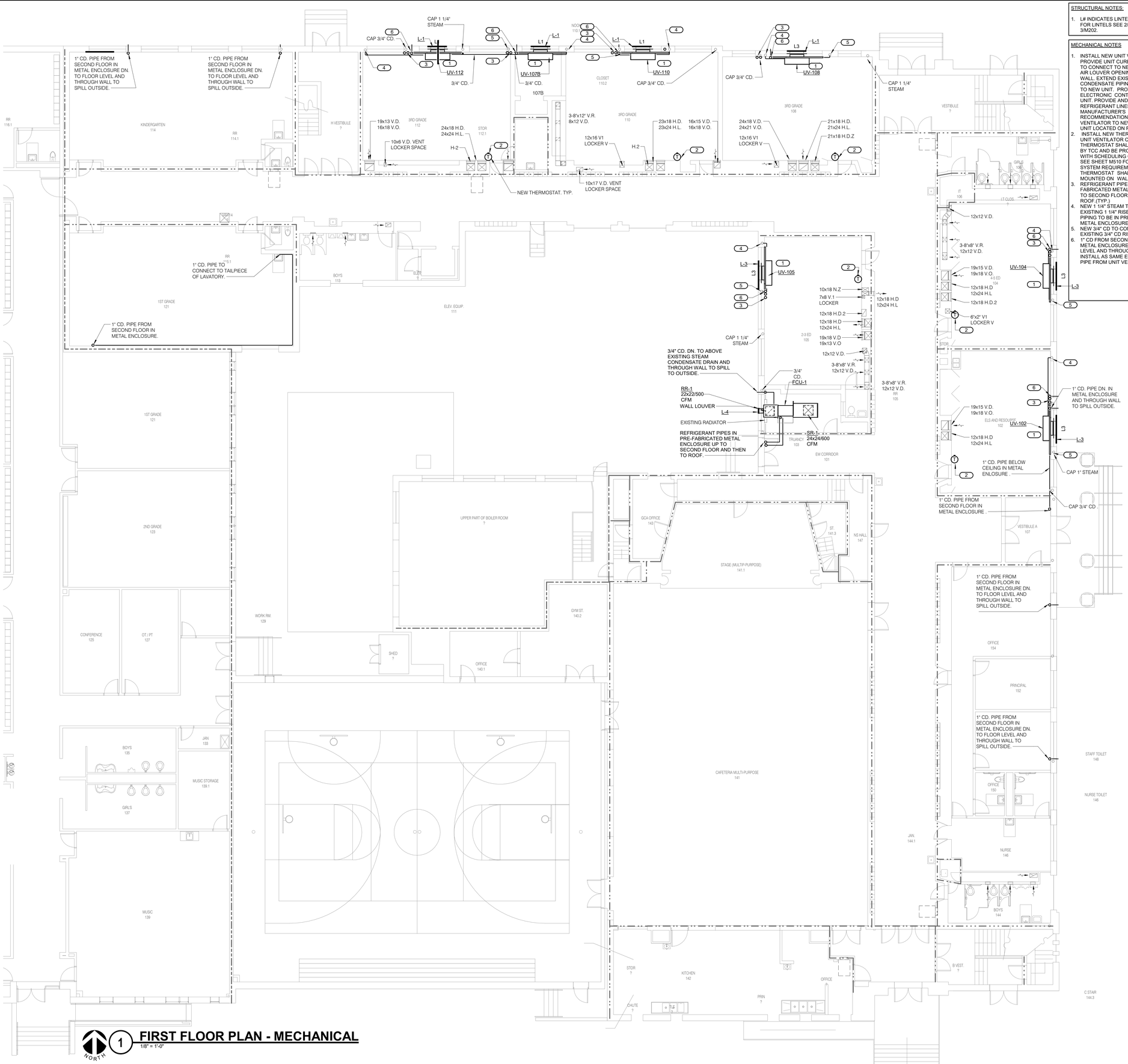

1 **FIRST FLOOR PLAN - MECHANICAL**
1/8" = 1'-0"

STRUCTURAL NOTES:

1. L# INDICATES LINTEL IN CMU WALL. FOR LINTELS SEE 2/M202 AND 3/M202.

MECHANICAL NOTES

1. INSTALL NEW UNIT VENTILATOR. PROVIDE UNIT CURB AS REQUIRED TO CONNECT TO NEW OUTSIDE AIR LOUVER OPENING IN EXTERIOR WALL. EXTEND EXISTING STEAM AND CONDENSATE PIPING TO CONNECT TO NEW UNIT. PROVIDE NEW ELECTRONIC CONTROL VALVE FOR UNIT. PROVIDE AND INSTALL REFRIGERANT LINES SIZED PER MANUFACTURER'S RECOMMENDATIONS FROM UNIT VENTILATOR TO NEW CONDENSING UNIT LOCATED ON ROOF ABOVE.
2. INSTALL NEW THERMOSTAT FOR UNIT VENTILATOR CONTROL. NEW THERMOSTAT SHALL BE PROVIDED BY TCC AND BE PROGRAMMABLE WITH SCHEDULING CAPABILITIES. SEE SHEET M510 FOR CONTROL SYSTEM REQUIREMENTS. THERMOSTAT SHALL BE SURFACE MOUNTED ON WALL.
3. REFRIGERANT PIPES IN PRE-FABRICATED METAL ENCLOSURE UP TO SECOND FLOOR AND THEN TO ROOF.(TYP.)
4. NEW 1 1/4" STEAM TO CONNECT TO EXISTING 1 1/4" RISER IN WALL. PIPING TO BE IN PRE-FABRICATED METAL ENCLOSURE.
5. NEW 3/4" CD TO CONNECT TO EXISTING 3/4" CD RISER IN WALL..
6. 1" CD FROM SECOND FLOOR IN METAL ENCLOSURE DN. TO FLOOR LEVEL AND THROUGH WALL. INSTALL AS SAME ELEVATION AS CD PIPE FROM UNIT VENTILATOR.

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SHEET TITLE
FIRST FLOOR PLAN - MECHANICAL

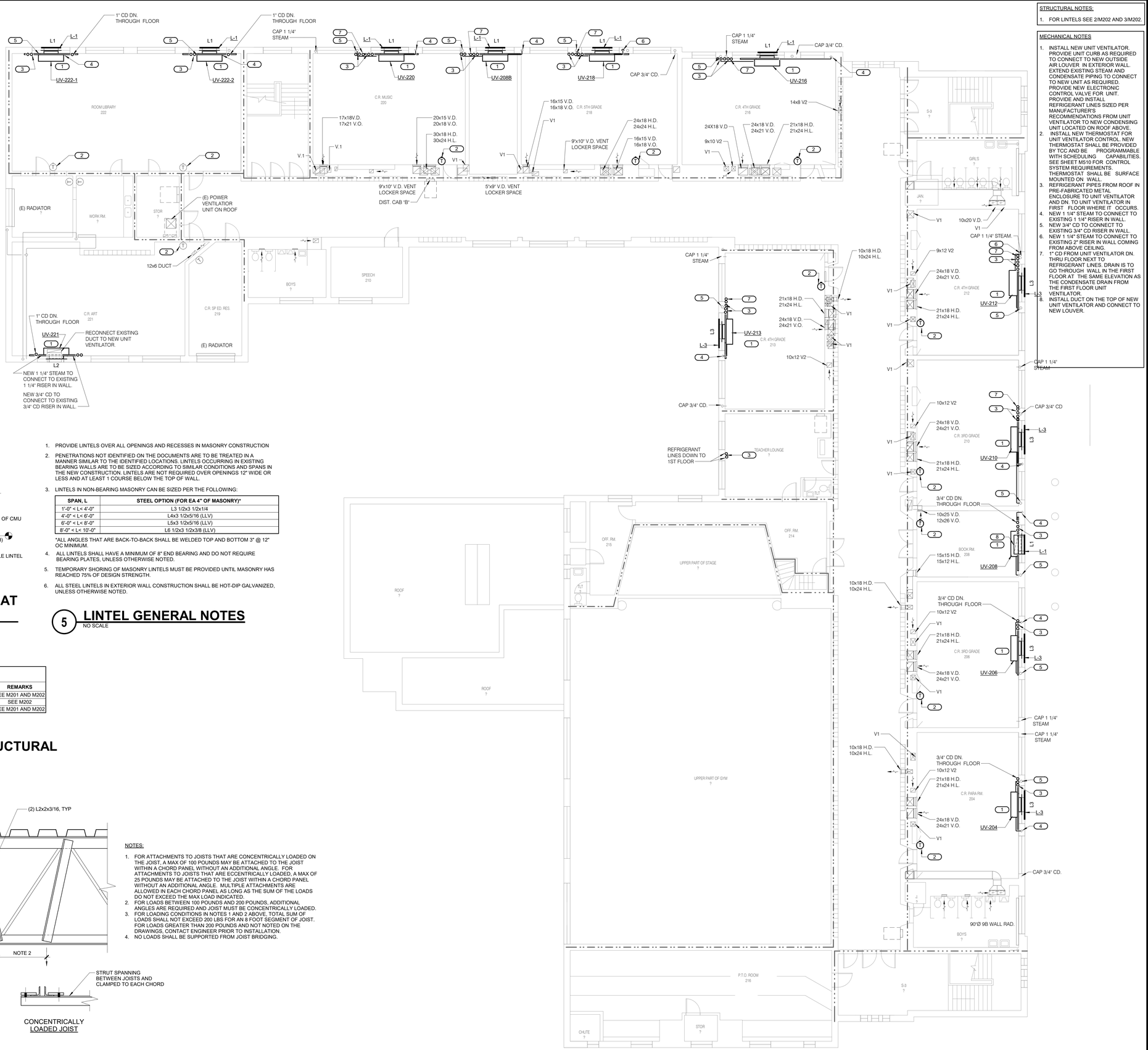
SCALE
Scale: **1/8" = 1'-0"**

SHEET NUMBER
M201

21002885.08 11/15/2022 11:42:47 AM ESSER HVAC Improvements - Welsh Elementary School

STRUCTURAL SHEET NOTES:

1. ONLY STRUCTURAL MEMBERS APPLICABLE TO REINFORCEMENT OF WALLS DUE TO NEW OPENING SHOWN.
2. MATERIALS:
   A. STRUCTURAL STEEL ANGLES SHALL CONFORM TO ASTM A36.
   B. WIDE FLANGE MEMBERS CONFORM TO ASTM A992.
   C. ELECTRODES FOR ARC WELDING SHALL CONFORM TO AWS 5.1, E70XX.
3. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL 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 9, 1929 BY PETERSON AND JOHNSON ARCHITECTS, SEPTEMBER 10, 1938 BY GILBERT A JOHNSON ARCHITECT, AND FEBRUARY 8, 1954 BY BRADLEY AND 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. NOTIFY EOR FOR ANY OPENINGS OR PENETRATIONS THROUGH PAN JOIST SYSTEM.
12. STRUCTURAL FRAMING MEMBERS SHALL NOT BE CUT OR REMOVED. MODIFICATION OF STRUCTURAL FRAMING IS ONLY ACCEPTABLE AS SHOWN IN DETAILS 2, 3 AND 4 OF THIS SHEET.
13. FOR MEP ITEMS BEING ATTACHED TO EXISTING JOIST AS WORK DONE FOR THIS PROJECT SEE DETAIL 4/M202.
14. L# INDICATES LINTEL IN CMU WALL. FOR LINTELS IN NON LOAD BEARING WALLS SEE DETAIL 5/M202.

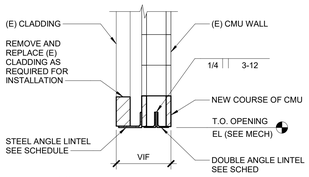


STRUCTURAL NOTES:

1. FOR LINTELS SEE 2/M202 AND 3/M202.

MECHANICAL NOTES

1. INSTALL NEW UNIT VENTILATOR. PROVIDE UNIT CURB AS REQUIRED TO CONNECT TO NEW OUTSIDE AIR LOUVER IN EXTERIOR WALL. EXTEND EXISTING STEAM AND CONDENSATE PIPING TO CONNECT TO NEW UNIT AS REQUIRED. PROVIDE NEW ELECTRONIC CONTROL VALVE FOR UNIT. PROVIDE AND INSTALL REFRIGERANT LINES SIZED PER MANUFACTURER'S RECOMMENDATIONS FROM UNIT VENTILATOR TO NEW CONDENSING UNIT LOCATED ON ROOF ABOVE.
2. INSTALL NEW THERMOSTAT FOR UNIT VENTILATOR CONTROL. NEW THERMOSTAT SHALL BE PROVIDED BY TCC AND BE PROGRAMMABLE WITH SCHEDULING CAPABILITIES. SEE SHEET M510 FOR CONTROL SYSTEM REQUIREMENTS. THERMOSTAT SHALL BE SURFACE MOUNTED ON WALL.
3. REFRIGERANT PIPES FROM ROOF IN PRE-FABRICATED METAL ENCLOSURE TO UNIT VENTILATOR AND DN. TO UNIT VENTILATOR IN FIRST FLOOR WHERE IT OCCURS.
4. NEW 1 1/4" STEAM TO CONNECT TO EXISTING 1 1/4" RISER IN WALL.
5. NEW 3/4" CD TO CONNECT TO EXISTING 3/4" CD RISER IN WALL.
6. NEW 1 1/4" STEAM TO CONNECT TO EXISTING 2" RISER IN WALL COMING FROM ABOVE CEILING.
7. 1" CD FROM UNIT VENTILATOR DN. THRU FLOOR NEXT TO REFRIGERANT LINES. DRAIN IS TO GO THROUGH WALL IN THE FIRST FLOOR AT THE SAME ELEVATION AS THE CONDENSATE DRAIN FROM THE FIRST FLOOR UNIT VENTILATOR.
8. INSTALL DUCT ON THE TOP OF NEW UNIT VENTILATOR AND CONNECT TO NEW LOUVER.



NOTE:

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

2 DOUBLE ANGLE LINTEL AT EXISTING

3/4" = 1'-0"

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

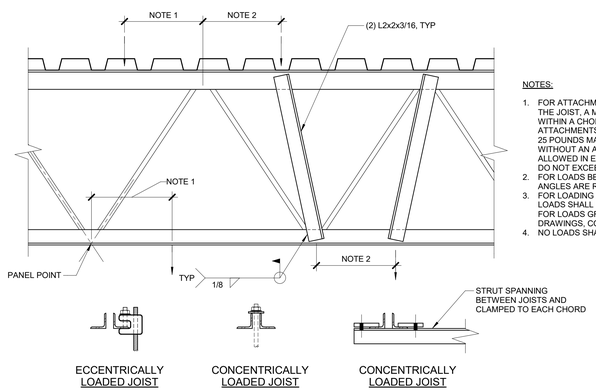
MARK	MEMBER SIZE	REFERENCE DETAIL	REMARKS
L1	2 L4x3-1/2x1/2 + L3-1/2x3-1/2x1/4	2/M201	SEE M201 AND M202
L2	2 L5x3-1/2x3/8 + L3-1/2x3-1/2x1/4	2/M201	SEE M202
L3	2 L6x3-1/2x3/8 + L4x3-1/2x3/8	2/M201	SEE M201 AND M202

NOTE:

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

3 LINTEL SCHEDULE STRUCTURAL REFERENCE

NO SCALE



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.

4 JOIST MODIFICATION STRUCTURAL REFERENCE DETAIL

NO SCALE

1 SECOND FLOOR PLAN - MECHANICAL

1/8" = 1'-0"

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No.	Date	Revision / Issue
A	Date 1	QA comments changes

SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
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Drawn	EFRGON
Checked	QEUMAZ
Approved	BRAPIE

SHEET TITLE

SECOND FLOOR PLAN - MECHANICAL

SCALE

Scale: As indicated

SHEET NUMBER

M202

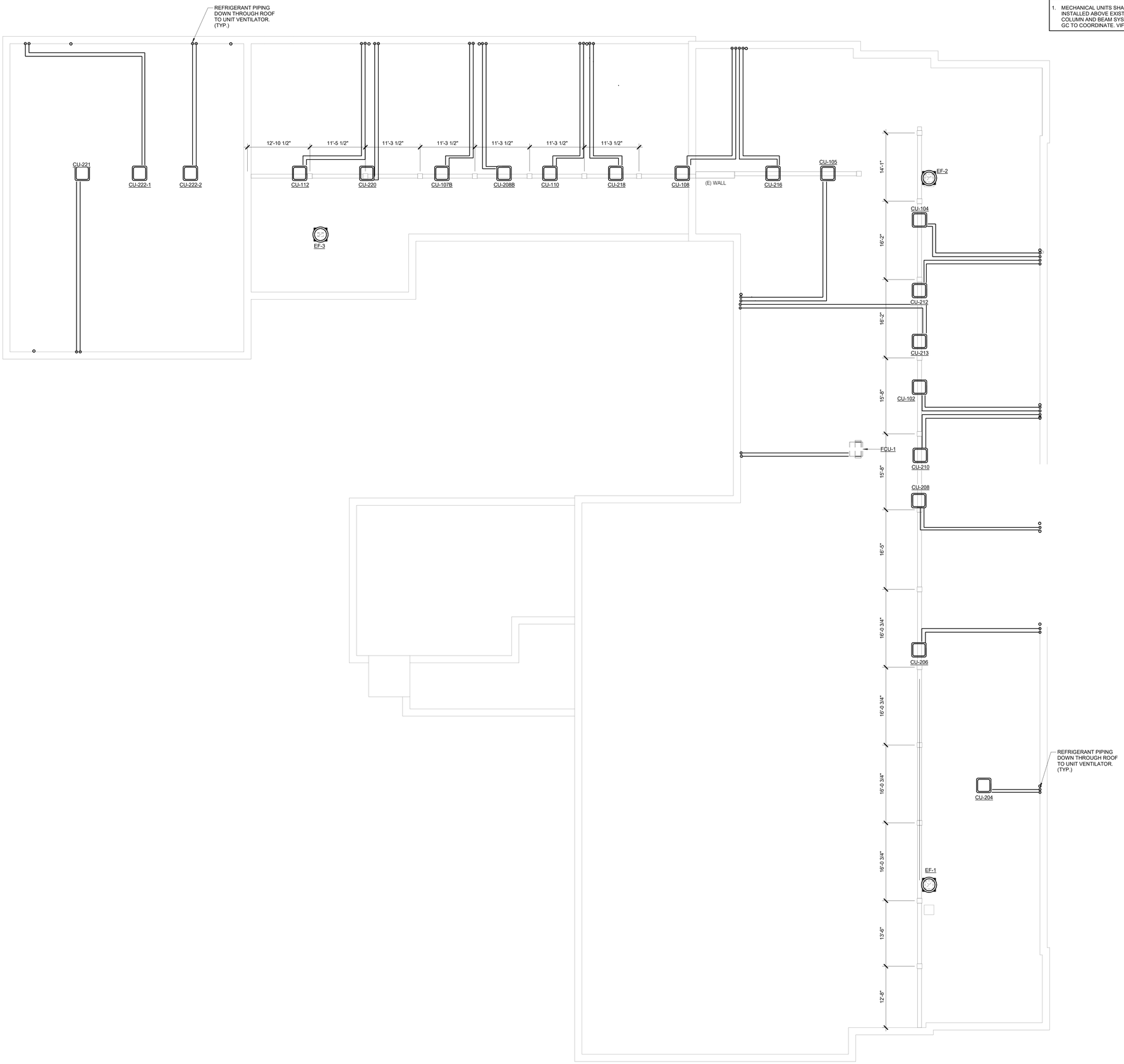
ESSER HVAC Improvements - Welsh Elementary School

11/15/2022 11:42:50 AM

21002885.08

STRUCTURAL NOTES:

1. MECHANICAL UNITS SHALL BE INSTALLED ABOVE EXISTING CONCRETE COLUMN AND BEAM SYSTEM AS SHOWN. GC TO COORDINATE. VIF.



NORTH

1 **ROOF PLAN - MECHANICAL**

1/8" = 1'-0"

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Approved	**BRAPIE**

SHEET TITLE

ROOF PLAN - MECHANICAL

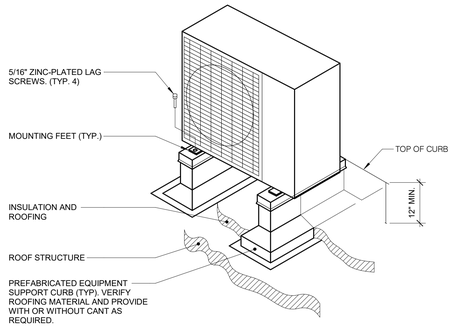
SCALE

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

SHEET NUMBER

M204

21002885.08 11/15/2022 11:42:52 AM ESSER HVAC Improvements - Welsh Elementary School

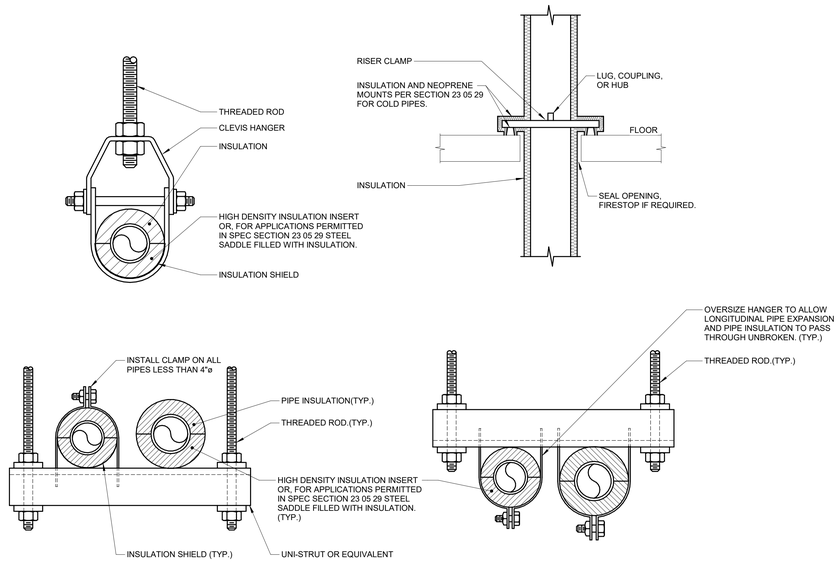


NOTES:

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

1 CONDENSING UNIT ROOF SUPPORT

NO SCALE

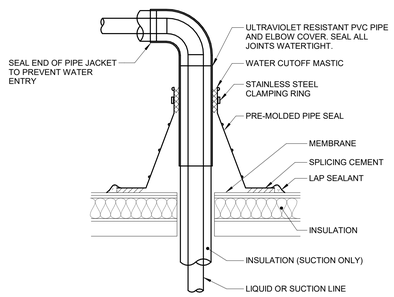


NOTES:

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

2 PIPE SUPPORT DETAIL

NO SCALE

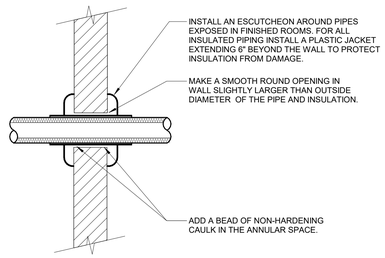


NOTES:

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

3 REFRIGERANT PIPING ROOF PENETATION WEATHERPROOFING DETAIL

NO SCALE

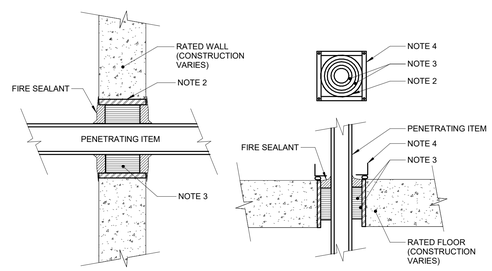


NOTES:

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. FLOOR OPENINGS ARE SIMILAR, SEE SPECIFICATION SECTION 23 05 29 FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.
3. SEE SPECIFICATION SECTIONS 23 05 03 AND 23 05 29 FOR ADDITIONAL INFORMATION.

4 PIPE THROUGH NON-FIRE RATED WALL

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 SECTION 23 05 03 FOR SELECTION OF THROUGH PENETRATION FIRE STOPPING.
2. SCHEDULE 5 PIPE SLEEVE EMBEDDED IN WALL OR FLOOR, OR SMOOTH CORE DRILL. EACH CONTRACTOR FURNISHES SLEEVE TO G.C., COORDINATES SLEEVE LOCATIONS AND DEBURS SLEEVE. G.C. BUILDS SLEEVE INTO WALL OR FLOOR ALLOWING NO GAP AROUND SLEEVE. IF SLEEVE IS NOT PROVIDED WHEN WALL OR FLOOR IS BUILT, CONTRACTOR SHALL INSTALL SLEEVE. SLEEVE SIZE SHALL ALLOW ANNULAR SPACE REQUIRED BY THE SELECTED FIRE STOP SYSTEM.
3. 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.
4. WATERTIGHT WELDED 1"x1" 20 GAUGE MINIMUM GALVANIZED SHEET METAL ANGLE FRAME, BY CONTRACTOR IN EQUIPMENT ROOMS FOR WATER STOP. PLACE A BEAD OF WATERPROOF SEALANT BETWEEN FLOOR AND BOTTOM OF ANGLE FRAME. SECURE TO FLOOR WITH MASONRY ANCHORS IN CORNERS AND ON 12" MAXIMUM CENTERS. MULTIPLE PENETRATING ITEMS MAY BE ENCLOSED IN ONE FRAME.

6 RATED FIRE BARRIER PENETRATION

NO SCALE

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SHEET TITLE

MECHANICAL DETAILS

SCALE

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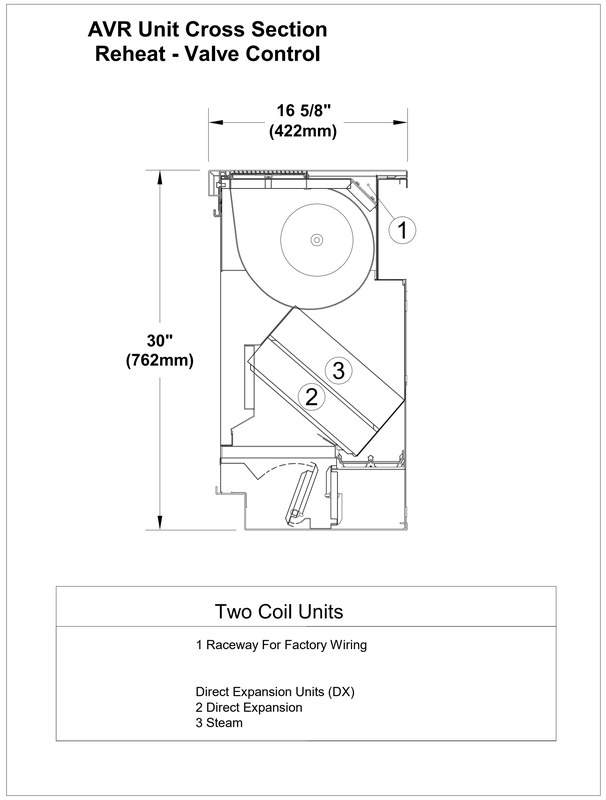
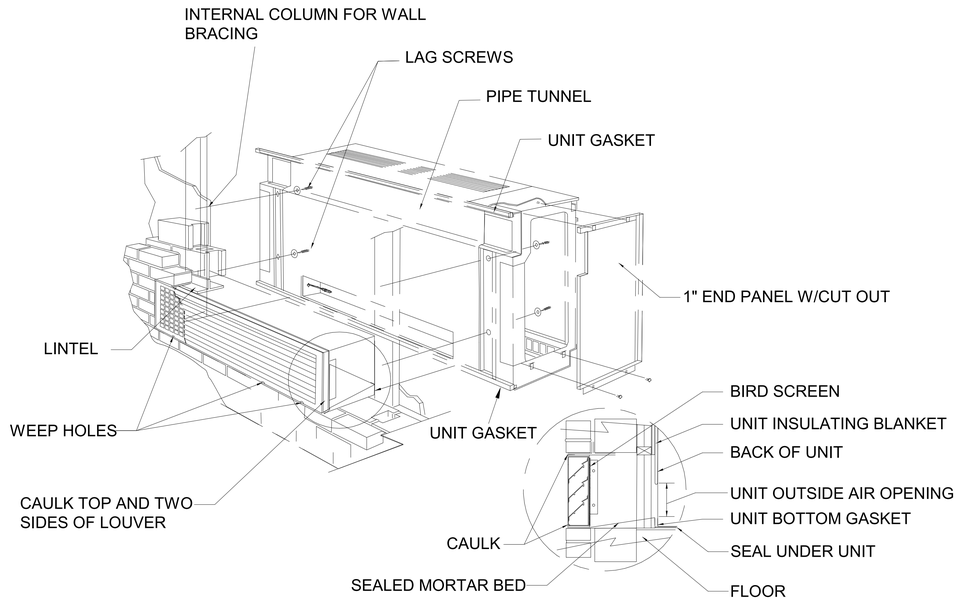
SHEET NUMBER

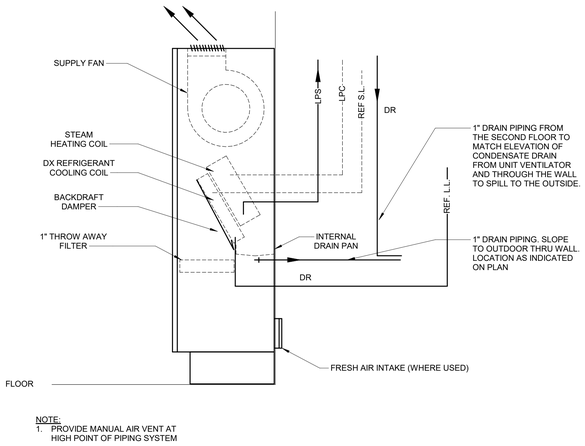
M410



1 AVR UNIT CROSS SECTION REHEAT - VALVE CONTROL
NO SCALE

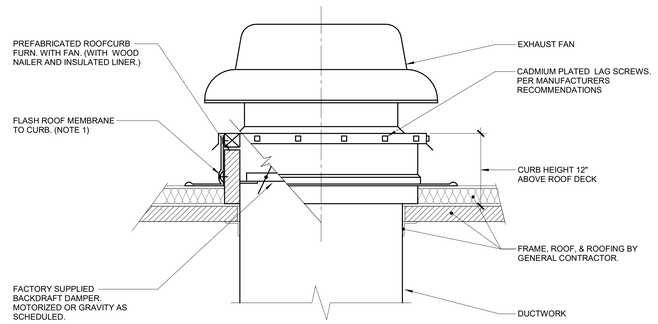


2 UNIT VENTILATOR WITH LOUVER INSTALLATION DETAIL
NO SCALE



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

3 VERTICAL CLASSROOM UNIT VENTILATOR DETAIL
NO SCALE



NOTES:
1. ALL ROOF FLASHING SHALL BE PER ROOFING MANUFACTURERS RECOMMENDATIONS.

4 ROOF SUPPORT - FAN/HOOD CURB
NO SCALE

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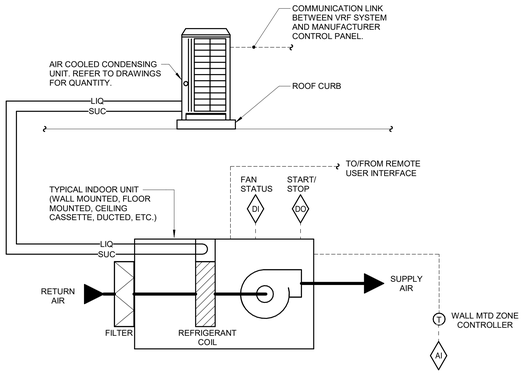
M411

21002885.08 11/15/2022 11:42:53 AM ESSER HVAC Improvements - Welsh Elementary School



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

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

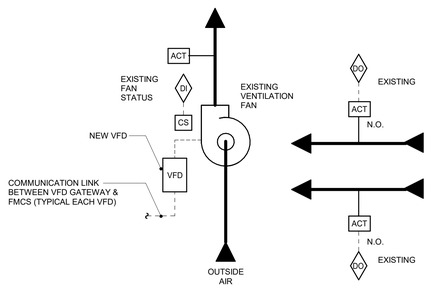
- OIL RECOVERY FUNCTION: THE HEAT RECOVERY UNIT CONTROLLER SHALL AUTOMATICALLY ENABLE THE COOLING MODE OR HEATING MODE OIL RECOVERY FUNCTION ACCORDING TO THE INTERNAL ALGORITHIMS/PARAMETERS BEING MONITORED BY THE UNIT CONTROLLER. THE SYSTEM CONTROLS SHALL PROVIDE CONTINUOUS HEATING OPERATION DURING THE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

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

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

- FILTER STATUS OF EACH INDOOR UNIT
- GENERAL ALARM
- ZONE TEMPERATURE (REFER TO DRAWINGS FOR QUANTITY)
- ZONE THERMOSTAT STATUS
- AIR-CONDITIONING MODE STATUS (HEAT/COOL)
- FAN STATUS
- TERMINAL UNIT START/STOP (REFER TO DRAWINGS FOR QUANTITY)
- TERMINAL UNIT MODE (HEAING OR COOLING)
- ZONE TEMPERATURE SETPOINT (REFER TO DRAWINGS FOR QUANTITY)
- ZONE SCHEDULING (REFER TO DRAWINGS FOR QUANTITY)
- ZONE OCCUPANCY OVERRIDE
- FILTER ALARM RESET
- TERMINAL UNIT FAN SETTING (HIGH/MEDIUM/LOW)
- DOAS ENABLE/DISABLE
- DOAS DISCHARGE AIR TEMPERATURE SET POINT
- DOAS GENERAL ALARM
- DOAS DIRTY FILTER ALARM

1 SPLIT SYSTEM AC UNIT CONTROL DIAGRAM
NO SCALE



SEQUENCE OF OPERATION:
FAN SHALL BE STARTED AND STOPPED THROUGH A HAND-OFF-AUTO SWITCH ON THE FACE OF THE VFD. WHEN PLACED IN THE HAND POSITION THE EXHAUST FAN SHALL RUN CONTINUOUSLY. WHEN PLACED IN THE AUTO POSITION THE FMCS SHALL CONTROL FAN OPERATION. WHEN PLACED IN THE OFF POSITION THE EXHAUST FAN MOTOR SHALL BE DE-ENERGIZED.

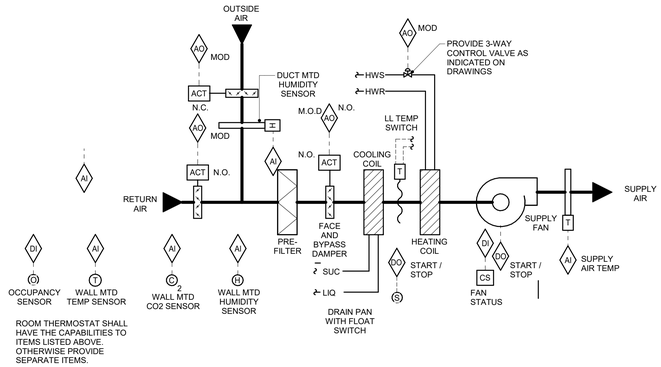
WHEN FAN IS INDEXED TO RUN THE FOLLOWING SHALL OCCUR:
- ALL INTAKE DAMPERS SHALL FULLY OPEN
- FAN SHALL BE ENERGIZED TO RUN AFTER 15 SECOND (ADJ.) DELAY TO ALLOW FOR OPENING OF DAMPERS.

WHEN FAN IS DE-ENERGIZED THE FOLLOWING SHALL OCCUR:
- ALL INTAKE DAMPERS SHALL FULLY CLOSE

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

ALARMS, INTERLOCKS AND SAFETIES:
AN ALARM SHALL BE GENERATED AT THE FMCS OPERATOR WORKSTATION IN THE FOLLOWING EVENTS:
- AN ALARM CONDITION OCCURS AT THE VFD
- THE FMCS COMMANDS THE FAN TO OPERATE AND THE CURRENT SENSING RELAY DETECTS INSUFFICIENT CURRENT DRAW.

2 SUPPLY FAN CONTROL - VENTILATION - BASEMENT FAN
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 DAMPER 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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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 03, 2022
Job Number	21002885.08
Drawn	EFRGON
Checked	QEUMAZ
Approved	BRAPIE

SHEET TITLE
MECHANICAL CONTROL DIAGRAMS

SCALE
Scale: 12" = 1'-0"

SHEET NUMBER
M510

UNIT VENTILATOR SCHEDULE

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

TAG NAME	AREA SERVED	CFM	MIN. OA CFM	COOLING COIL				STEAM COIL					ELECTRICAL					MAX. DIMENSIONS			WEIGHT	MANUFACTURER	MODEL	NOTES
				EAT		TOTAL MBH	SENSIBLE MBH	EAT DB	LAT DB	INLET STEAM PRESSURE (PSIG)	MBH	COIL ROWS	VOLTAGE	PHASES	DISCONNECT		CONTROLLER STARTER BY (NOTE A)	WIDTH	DEPTH	HEIGHT	OPERATING			
				DB(F)	WB(F)										BY (NOTE A)	TYPE (NOTE B)								
UV-102	ELS AND RESOURCE	1,474	369	80	67	54	41	70	121.5	15.0	81	2	115	1	MFR	NF	MFR	98	21.88	30.13	600	DAIKIN APPLIED	UAVR9V15	
UV-104	C.R 4-5 ED-104	1,474	369	80	67	54	41	70	121.5	15.0	81	2	115	1	MFR	NF	MFR	98	21.88	30.13	600	DAIKIN APPLIED	UAVR9V15	
UV-105	C.R. 2-3 ED-105	1,474	369	80	67	54	41	70	121.5	15.0	81	2	115	1	MFR	NF	MFR	98	21.88	30.13	600	DAIKIN APPLIED	UAVR9V15	
UV-107B	107B	748	50	80	67	18	25	70	121.9	15.0	56	2	115	1	MFR	NF	MFR	62	21.88	30.13	445	DAIKIN APPLIED	UAVR9S07	
UV-108	C.R 3RD GRADE-108	999	250	80	67	54	41	70	121.5	15.0	81	2	115	1	MFR	NF	MFR	74	21.88	30.13	600	DAIKIN APPLIED	UAVR9S10	
UV-110	C.R. 3RD GRADE-110	999	250	80	67	34	25	70	121.9	15.0	56	2	115	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9S10	
UV-112	C.R. 3RD GRADE-112	999	250	80	67	34	25	70	121.9	15.0	56	2	115	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9S10	
UV-204	C.R. PARA ROOM-204	1,474	369	80	67	54	41	70	121.5	15.0	81	2	115	1	MFR	NF	MFR	98	21.88	30.13	600	DAIKIN APPLIED	UAVR9V15	
UV-206	C.R 3RD GRADE-206	1,474	369	80	67	54	41	70	121.5	15.0	81	2	115	1	MFR	NF	MFR	98	21.88	30.13	600	DAIKIN APPLIED	UAVR9V15	
UV-208	BOOK ROOM-208	748	50	80	67	18	25	70	121.9	15.0	56	2	115	1	MFR	NF	MFR	62	21.88	30.13	445	DAIKIN APPLIED	UAVR9S07	
UV-208B	208B	748	50	80	67	18	25	70	121.5	15.0	56	2	115	1	MFR	NF	MFR	62	21.88	30.13	445	DAIKIN APPLIED	UAVR9S07	
UV-210	C.R. 3TH GRADE-210	1,474	369	80	67	54	41	70	121.5	15.0	81	2	115	1	MFR	NF	MFR	98	21.88	30.13	600	DAIKIN APPLIED	UAVR9V15	
UV-212	C.R. 4TH GRADE-212	1,474	369	80	67	54	41	70	121.5	15.0	81	2	115	1	MFR	NF	MFR	98	21.88	30.13	600	DAIKIN APPLIED	UAVR9V15	
UV-213	C.R. 4TH GRADE-213	1,474	369	80	67	54	41	70	121.5	15.0	81	2	115	1	MFR	NF	MFR	98	21.88	30.13	600	DAIKIN APPLIED	UAVR9V15	
UV-216	C.R. 4TH GRADE-216	999	250	80	67	34	25	70	121.9	15.0	56	2	115	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9S10	
UV-218	C.R. 5TH GRADE-218	999	250	80	67	34	25	70	121.9	15.0	56	2	115	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9S10	
UV-220	C.R. MUSIC-220	999	250	80	67	34	25	70	121.9	15.0	56	2	115	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9S10	
UV-221	C.R. ART-221	1,230	308	80	67	44	33	70	123	15.0	70	2	115	1	MFR	NF	MFR	86	21.88	30.13	525	DAIKIN APPLIED	UAVR9V13	
UV-222-1	ROOM LIBRARY-222	999	250	80	67	34	25	70	121.5	15.0	56	2	115	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9S10	
UV-222-2	ROOM LIBRARY-222	999	250	80	67	34	25	70	121.5	15.0	56	2	115	1	MFR	NF	MFR	74	21.88	30.13	445	DAIKIN APPLIED	UAVR9S10	

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

CONDENSING UNIT SCHEDULE

NOTES:
1.UNITS SHALL BE SELECTED FOR DESIGN COOLING LOAD.
2.COORDINATE ELECTRICAL CONNECTIONS WITH MANUFACTURER UNIT IS SUPPLIED AS MULTIPLE MODULES. EACH MODULE REQUIRES A SEPARATE ELECTRICAL CONNECTION AND DISCONNECT.
3.NOMINAL COOLING CAPACITY RATED AT: INDOOR TEMP = 80°FDB/67°FWB, OUTDOOR TEMP = 95°FDB.
4.DESIGN COOLING CAPACITY SHALL BE RATED AT: INDOOR TEMP = 74°FDB/61.7°FWB, OUTDOOR TEMP = 95°FDB. EFFECTS OF ESTIMATED REFRIGERANT LINE LENGTH SHALL BE INCLUDED IN COMPUTING DESIGN CAPACITY.
5.DESIGN HEATING CAPACITY SHALL BE RATED AT: INDOOR TEMP = 70°FDB, OUTDOOR TEMP = 14°FDB. EFFECTS OF ESTIMATED REFRIGERANT LINE LENGTHS AND DEFROSTING SHALL BE INCLUDED IN COMPUTING DESIGN CAPACITY.
6.REFER TO SPECIFICATION SECTION 15671 [23 62 13] FOR ADDITIONAL REQUIREMENTS.
7. PROVIDE WITH HIGH EFFICIENCY 2-STAGE SCROLL COMPRESSOR AND HIGH EFFICIENCY ECM CONDENSOR FAN MOTOR.

TAG NAME	AREA SERVED	NOMINAL DESIGN TONS	REFRIGERANT	MAX. REFRIGERANT CHARGE	AMBIENT TEMPERATURE	NUMBER OF STAGES	NUMBER OF FANS	ELECTRICAL				DISCONNECT BY	DISCONNECT TYPE	CONTROLLER STARTER BY	MAX. DIMENSIONS			WEIGHT	MANUFACTURER	MODEL	NOTES
								VOLTAGE	PHASES	MCA	MOCP				LENGTH	WIDTH	HEIGHT	OPERATING			
CU-102	UV-102	4	R410A	204.6	95	2	1	208/230	1	28	45	MFR	NF	MFR	35.75	35.75.	42.25	302	Daikin	DX18TC0481	
CU-104	UV-104	4	R410A	204.6	95	2	1	208/230	1	28	45	MFR	NF	MFR	35.75	35.75.	42.25	302	Daikin	DX18TC0481	
CU-105	UV-105	4	R410A	204.6	95	2	1	208/230	1	28	45	MFR	NF	MFR	35.75	35.75	42.25	302	Daikin	DX18TC0481	
CU-107B	UV-107B	2	R410A	114.6	95	2	1	208/230	1	20	30	MFR	NF	MFR	35.75	35.75	36.5	236	Daikin	DX18TC0241	
CU-108	UV-108	3	R410A	114.6	95	2	1	208/230	1	20	30	MFR	NF	MFR	35.75	35.75	36.5	223	Daikin	DX16TC0361	
CU-110	UV-110	3	R410A	114.6	95	2	1	208/230	1	20	30	MFR	NF	MFR	35.75	35.75	36.5	223	Daikin	DX16TC0361	
CU-112	UV-112	3	R410A	114.6	95	2	1	208/230	1	20	30	MFR	NF	MFR	35.75	35.75	36.5	223	Daikin	DX16TC0361	
CU-204	UV-204	4	R410A	204.6	95	2	1	208/230	1	28	45	MFR	NF	MFR	35.75	35.75	42.25	302	Daikin	DX18TC0481	
CU-206	UV-206	4	R410A	204.6	95	2	1	208/230	1	28	45	MFR	NF	MFR	35.75	35.75	42.25	302	Daikin	DX18TC0481	
CU-208	UV-208	2	R410A	114.6	95	2	1	208/230	1	20	30	MFR	NF	MFR	35.75	35.75	36.5	236	Daikin	DX18TC0241	
CU-208B	UV-208B	2	R410A	114.6	95	2	1	208/230	1	20	30	MFR	NF	MFR	35.75	35.75	36.5	236	Daikin	DX18TC0241	
CU-210	UV-210	4	R410A	204.6	95	2	1	208/230	1	28	45	MFR	NF	MFR	35.75	35.75	42.25	302	Daikin	DX18TC0481	
CU-212	UV-212	4	R410A	204.6	95	2	1	208/230	1	28	45	MFR	NF	MFR	35.75	35.75	42.25	302	Daikin	DX18TC0481	
CU-213	UV-213	4	R410A	204.6	95	2	1	208/230	1	28	45	MFR	NF	MFR	35.75	35.75	42.25	302	Daikin	DX18TC0481	
CU-216	UV-216	3	R410A	114.6	95	2	1	208/230	1	20	30	MFR	NF	MFR	35.75	35.75	36.5	223	Daikin	DX16TC0361	
CU-218	UV-218	3	R410A	114.6	95	2	1	208/230	1	20	30	MFR	NF	MFR	35.75	35.75	36.5	223	Daikin	DX16TC0361	
CU-220	UV-220	3	R410A	114.6	95	2	1	208/230	1	20	30	MFR	NF	MFR	35.75	35.75	36.5	223	Daikin	DX16TC0361	
CU-221	UV-221	4	R410A	204.6	95	2	1	208/230	1	28	45	MFR	NF	MFR	35.75	35.75	42.25	302	Daikin	DX18TC0481	
CU-222-1	UV-222-1	3	R410A	114.6	95	2	1	208/230	1	20	30	MFR	NF	MFR	35.75	35.75	36.5	223	Daikin	DX16TC0361	
CU-222-2	UV-222-2	3	R410A	114.6	95	2	1	208/230	1	20	30	MFR	NF	MFR	35.75	35.75	36.5	223	Daikin	DX16TC0361	

VFD SCHEDULE

SERVING	LOCATION	ENCLOSURE	ELECTRICAL POWER	MOTOR HP	AMP RATING	BYPASS OR DUAL DRIVE	MAXIMUM WEIGHT(LBS)	MANUFACTURER	MODEL	REMARKS
MOTOR M-1	BASEMENT	NEMA 1	230/3/60	15	23	BYPASS		ABB	ACH580-BCR	

MOTOR SCHEDULE

TAG NAME	MOTOR HP	RPM	VOLTAGE	PHASE	AMPS	FLA	FRAME SIZE	MANUFACTURER	MODEL	NOTES
M-1	15	1750	230	3	39.2	55	326	RELIANCE	22A227	INVERTER DUTY

SPLIT SYSTEM UNIT SCHEDULE

NOTES:
1.PROVIDE EQUIPMENT PAD

TAG NAME	AREA SERVED	INDOOR UNIT								OUTDOOR UNIT						ELECTRICAL				MANUFACTURER	NOTES
		CFM	COOLING MBH	HEATING MBH	DIMENSION			WEIGHT	MODEL	SEER	MAX. DIMENSIONS			WEIGHT (LBS)	MODEL	VOLTAGE	PHASE	MCA	MOCP AMPS		
					LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)				HEIGHT (IN.)	LENGTH (IN.)	WIDTH (IN.)								
FCU-1	PE OFFICE	600	18	20	39.4	27.5	11.8	80	FBQ18PVJU	18.6	39	12.6	37	80	RZQ18	230	1	16.5	25	DAIKIN	

EXHAUST FAN SCHEDULE

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

TAG NAME	AREA SERVED	CFM	S.P. IN. W.C.	FAN RPM (NOTE F)	DRIVE TYPE	MAX. AMCA SONES	ELECTRICAL (NOTE 1)				WEIGHT	MANUFACTURER	MODEL	NOTES
							BHP	MHP	VOLTAGE	PHASES				
EF-1	RESTROOMS	800	0.50	1052	DIRECT	6.9	0.14	0.33	115	1	75	GREENHECK	BG-120	
EF-2	RESTROOMS	800	0.50	1052	DIRECT	6.9	0.14	0.33	115	1	75	GREENHECK	BG-120	
EF-3	RESTROOMS	800	0.50	1052	DIRECT	6.9	0.14	0.33	115	1	75	GREENHECK	BG-120	

HVAC PIPING INSULATION SCHEDULE

SYSTEM	INSULATION TYPE	FLUID TEMPERATURE RANGE	PIPE SIZES					SPECIFIC NOTES
			<1"	1" TO <1-1/2"	1-1/2" TO <4"	4" TO <8"	8" AND LARGER	
HEATING HOT WATER, SNOWMELT, STEAM, AND STEAM...	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.

LOUVER SCHEDULE

NOTES:
1.STANDARD COLOR - SELECTION BY ARCHITECT.

TAG NAME	AREA SERVED	CFM	SIZE (INCHES)		S.P. IN. W.C.	MANUFACTURER	MODEL	NOTES
			WIDTH	HEIGHT				
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
L-4	FCU-1	30	12	12	0.00	DAIKIN	S10	1

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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue
A	Date 1	QA comments changes

SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.08
Drawn	EFRGON
Checked	QEUMAZ
Approved	BRAPIE

SHEET TITLE
MECHANICAL SCHEDULES

SCALE
Scale:

SHEET NUMBER
M610

VIEW KEY

NAME 10'-0" — LEVEL NAME / 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

SIM — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
1 — DETAIL REFERRED TO BY SECTION CUT
M101 — SHEET DETAIL IS LOCATED ON
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 2, 1/2, 3/4 HOUR FIRE WALLS, UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 09/12/2022.

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

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

CONTACT PERSONS:

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

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
C E J J	ECONN	26 05 33	ELECTRICAL CONNECTION
	JB	26 05 33	JUNCTION BOX
		EXISTING	TECHNOLOGY OUTLET, WALL
		EXISTING	TECHNOLOGY OUTLET, CEILING
S		EXISTING	SPEAKER, CEILING
WAP		EXISTING	WIRELESS ACCESS POINT, CEILING
		EXISTING	SECURITY CAMERA, CEILING
C		EXISTING	CENTRAL CLOCK, WALL
DEM	DEM	26 09 13	ENERGY METER
	PANEL '###'	26 24 16	PANELBOARD - RECESS MOUNT
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
	MX-#/MS-#	26 24 19	MANUAL SWITCH / STARTER. REFER TO DISC/STA SCHEDULE
	TR-#/DTR-#	26 22 00	TRANSFORMER
h	DS-#/FDS-#	26 28 16	DISCONNECT. REFER TO DISC/STA SCHEDULE

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
GFI	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V
WP	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
T	REC-TAMP	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
GFI T	REC-TAMP-GFI	26 27 26	GFI DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
T	REC-TAMP-QUAD	26 27 26	QUAD RECEPTACLE, TAMPER RESISTANT, 125V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V

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
UON	UNLESS OTHERWISE NOTED

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.

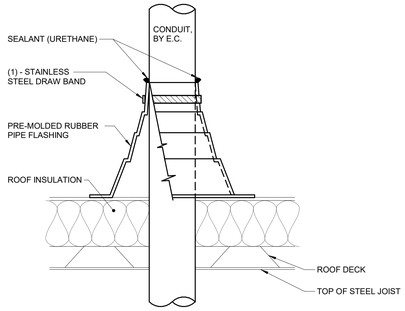
INSTALLATION TYPE	RMC	EMT	ASR
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X	
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X	
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE 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		
INTERIOR LOCATIONS: CONCEALED		X	
INTERIOR LOCATIONS: EXPOSED		X	
INTERIOR LOCATIONS: EXISTING WALLS AND EXPOSED INSTALLATION (FINISHED SPACES)			X

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
S	SW-1P	26 09 33	SWITCH - SINGLE POLE
S_3	SW-3W	26 09 33	SWITCH - THREE WAY
S_4	SW-4W	26 09 33	SWITCH - FOUR WAY
D_D	SW-D-LED	26 09 33	DIMMER - LED
D_{D3}	SW-D3-LED	26 09 33	DIMMER - LED - 3-WAY
D_O	SW-OD	26 09 33	DIMMER - WALL DIMMER OCCUPANCY SENSOR
LS_D	SW-LS-D	26 09 33	DAYLIGHT LEVEL SENSOR - 1 ZONE DIMMING
OC_D	SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY
S_O	SW-OC-P-O	26 09 33	SWITCH - OCCUPANCY SENSOR WALL SWITCH
OC_U	SW-OC-U	26 09 33	OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE
OC_A	SW-OC-U-A	26 09 33	OCCUPANCY SENSOR - ULTRASONIC TWO SIDED CORRIDOR COVERAGE
SW	SW	26 09 33	WALL CONTROL STATION

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REFER TO LUMINAIRE SCHEDULE		LINEAR LUMINAIRES
			TROFFER
			DOWNLIGHT LUMINAIRE
			AIMABLE OR WALL WASH LUMINAIRE
			INDUSTRIAL LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN
			EMERGENCY UNIT



NOTES:

1. CONDUIT SHALL BE SUPPORTED WITHIN 24 INCHES ABOVE AND BELOW ROOF.
2. VERIFY FINAL REQUIREMENTS WITH GENERAL CONTRACTOR (G.C.) AND ROOFING INSTALLER PRIOR TO INSTALLATION.

1 **CONDUIT ROOF PENETRATION**
NO SCALE

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION
MX-#	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19

ELECTRICAL SHEET INDEX

E000	ELECTRICAL COVERSHEET
E100	BASEMENT DEMOLITION PLAN - ELECTRICAL
E101	FIRST FLOOR DEMOLITION PLAN - ELECTRICAL
E102	SECOND FLOOR DEMOLITION PLAN - ELECTRICAL
E200	BASEMENT PLAN - ELECTRICAL
E201	FIRST FLOOR PLAN - ELECTRICAL
E202	SECOND FLOOR PLAN - ELECTRICAL
E204	ROOF PLAN - ELECTRICAL
E500	ELECTRICAL DIAGRAMS
E600	ELECTRICAL SCHEDULES
E700	PANEL SCHEDULES
GRAND TOTAL: 11	

ELECTRICAL GENERAL NOTES:

DEVICE KEY:
DEVICE — A = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

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

ELECTRICAL MOUNTING SUBSCRIPT KEY:
A — MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C — MOUNT AT CEILING
H — MOUNT ORIENTED HORIZONTALLY
R — MOUNT IN SURFACE RACEWAY

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.

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 AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
4. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
5. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
6. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
7. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
8. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINARES, 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.
9. ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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 CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
6. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL PHASING NOTES:

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

1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO CONSTRUCTION MANAGER'S/GENERAL CONTRACTOR'S/ARCHITECT'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
2. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
3. PROVIDE TEMPORARY LIGHTING, POWER, SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
4. INSTALL TEMPORARY LIGHTING, CIRCUITS, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.08
Drawn	JERVET
Checked	MATSNY
Approved	JERVET

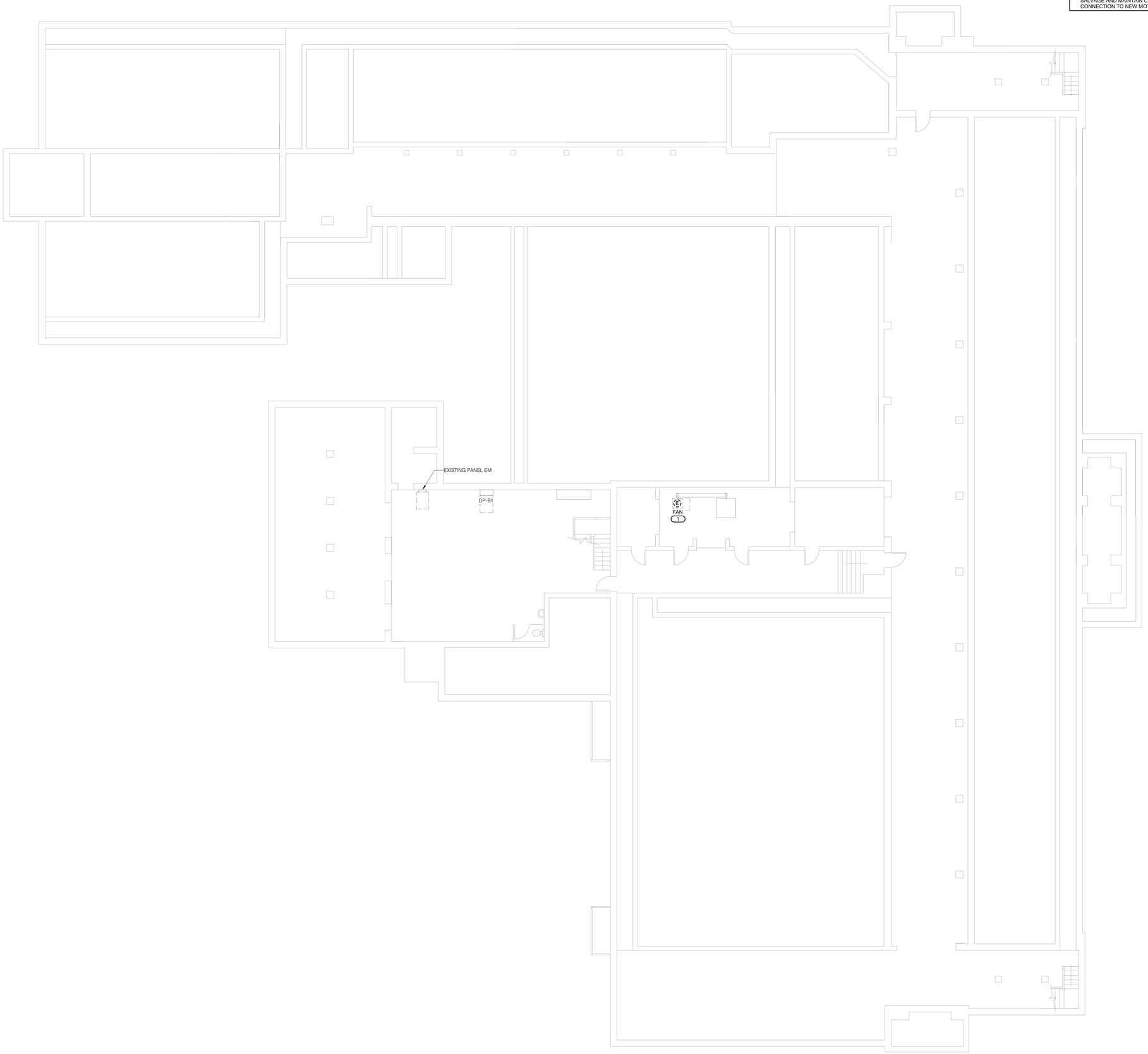
SHEET TITLE
ELECTRICAL COVERSHEET

SCALE
Scale: As indicated

SHEET NUMBER
E000

KEYNOTES: #

1. DISCONNECT MOTOR TO BE REPLACED. SALVAGE AND MAINTAIN CIRCUIT FOR CONNECTION TO NEW MOTOR.



NORTH

1 **BASEMENT DEMOLITION PLAN - ELECTRICAL**
1/8" = 1'-0"

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Date	**November 03, 2022**
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Drawn	**JERVET**
Checked	**MATSNY**
Approved	**JERVET**

SHEET TITLE

BASEMENT DEMOLITION PLAN - ELECTRICAL

SCALE

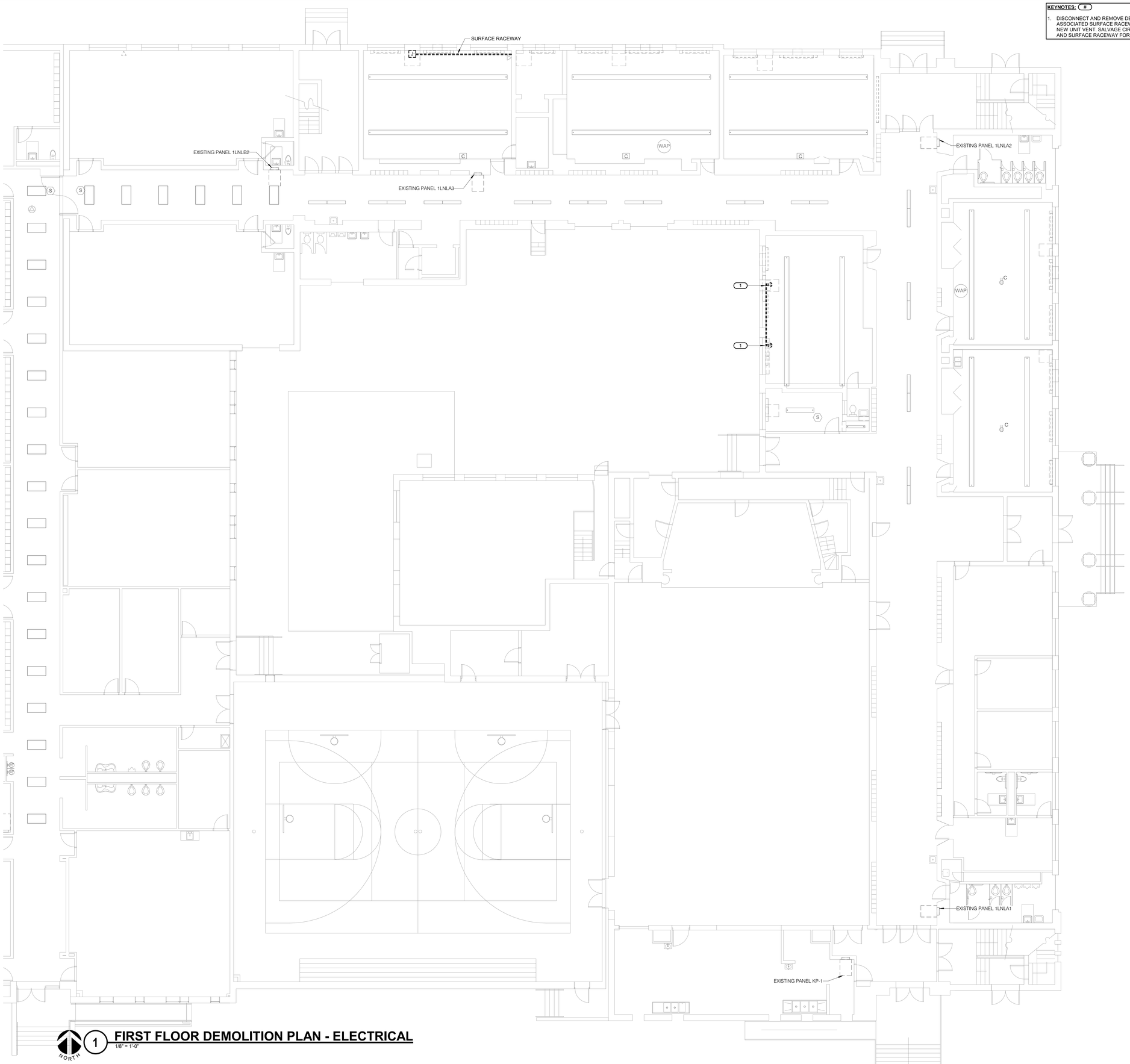
Scale: **1/8" = 1'-0"**

SHEET NUMBER

E100

KEYNOTES: #

1. DISCONNECT AND REMOVE DEVICES AND ASSOCIATED SURFACE RACEWAY IN WAY OF NEW UNIT VENT. SALVAGE CIRCUIT. DEVICES, AND SURFACE RACEWAY FOR REINSTALLTION.



1 **FIRST FLOOR DEMOLITION PLAN - ELECTRICAL**
1/8" = 1'-0"

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Approved	**JERVET**

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN - ELECTRICAL

SCALE

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

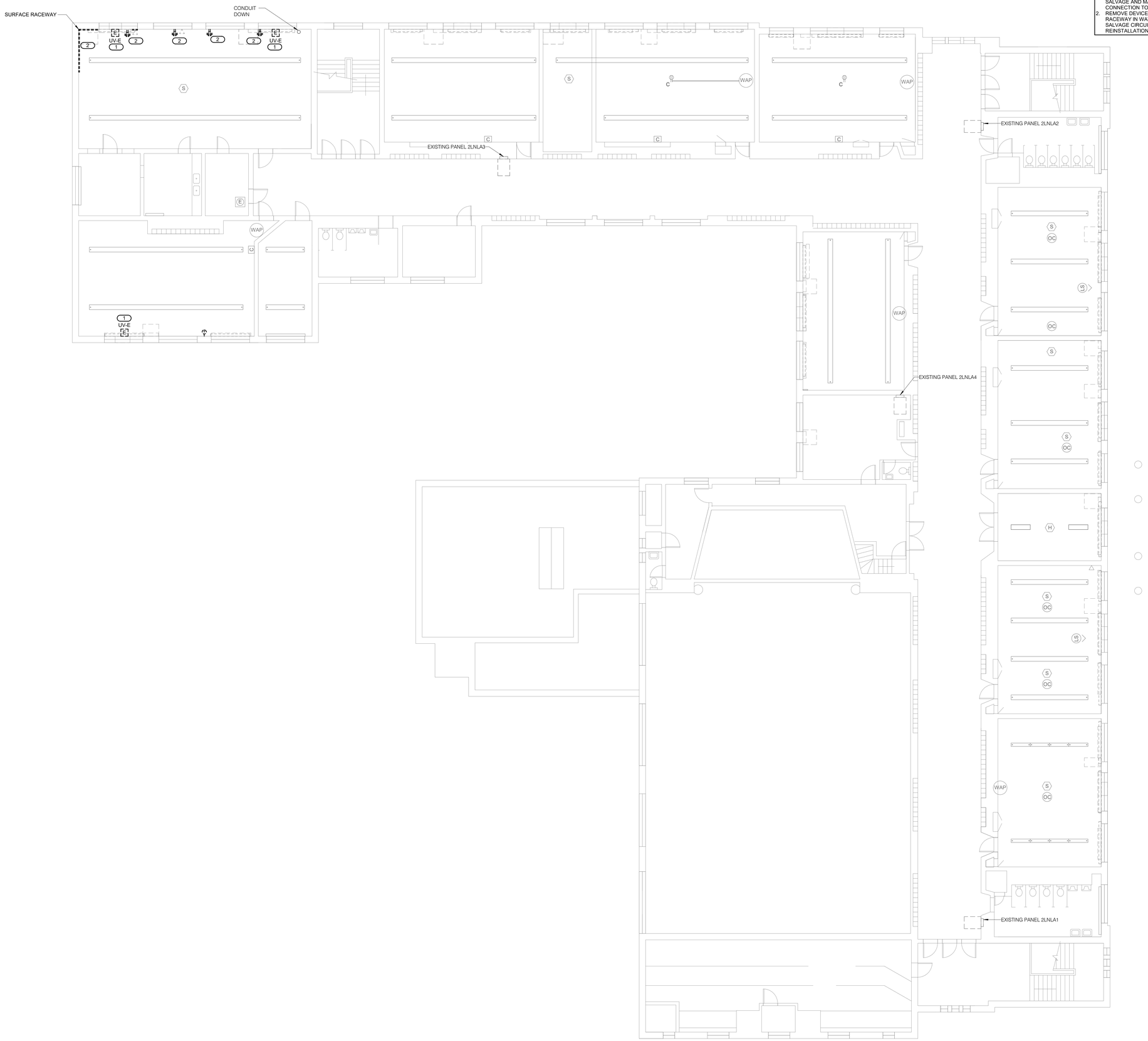
SHEET NUMBER

E101

21002885.08 11/15/2022 9:46:44 AM ESSER HVAC Improvements - Welsh Elementary School

KEYNOTES: #

1. DISCONNECT UNIT VENT TO BE REPLACED. SALVAGE AND MAINTAIN CIRCUIT FOR CONNECTION TO NEW UNIT VENT.
2. REMOVE DEVICES, CONDUIT AND SURFACE RACEWAY IN WAY OF NEW UNIT VENTS. SALVAGE CIRCUITS AND CABLING FOR REINSTALLATION.



1 SECOND FLOOR DEMOLITION PLAN - ELECTRICAL

1/8" = 1'-0"

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.08**
Drawn	**JERVET**
Checked	**MATSNY**
Approved	**JERVET**

SHEET TITLE

SECOND FLOOR DEMOLITION PLAN - ELECTRICAL

SCALE

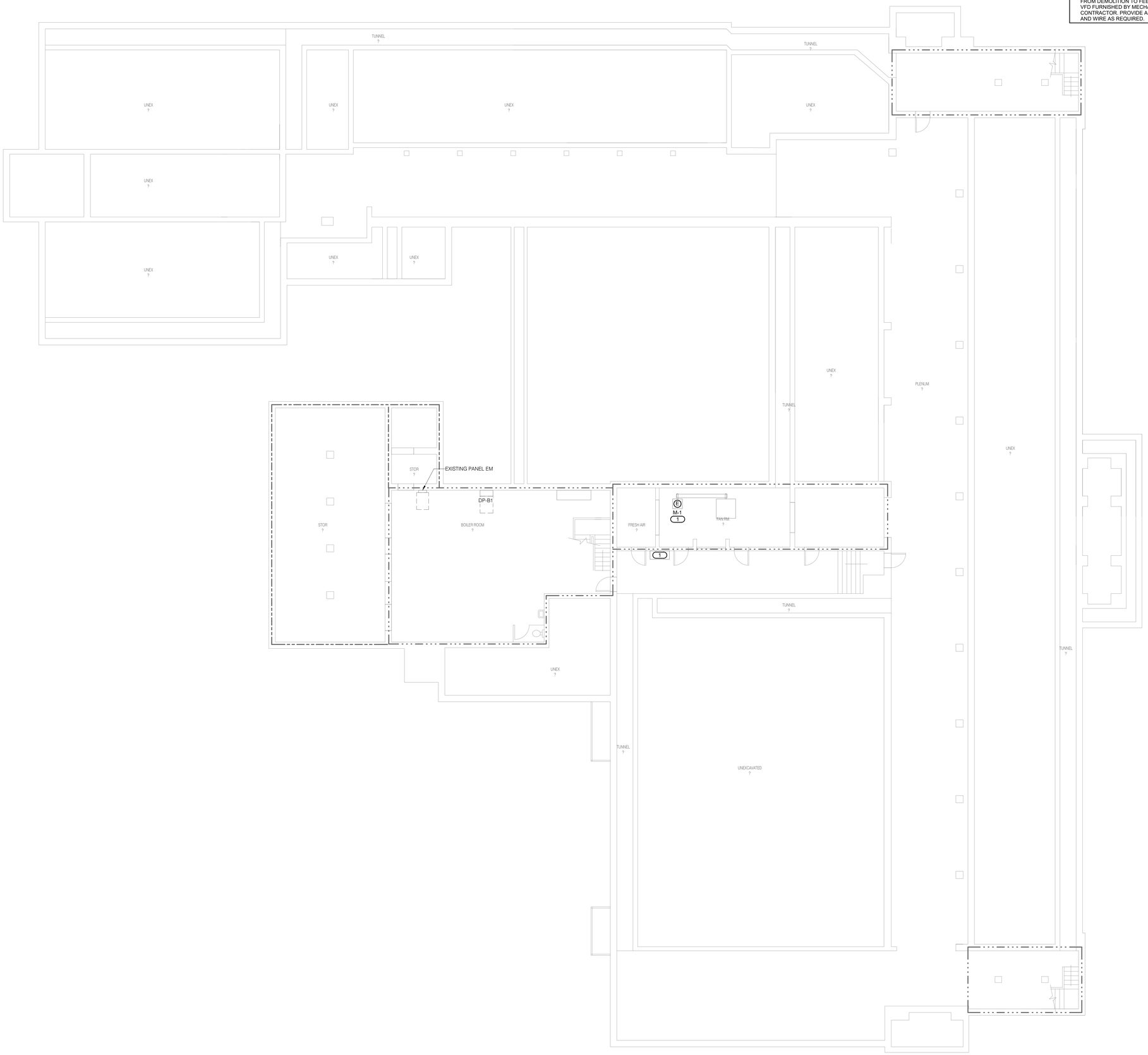
Scale: **1/8" = 1'-0"**

SHEET NUMBER

E102

KEYNOTES: #

1. UTILIZE 208V, 3-PHASE CIRCUIT SALVAGED FROM DEMOLITION TO FEED NEW MOTOR VIA VFD FURNISHED BY MECHANICAL CONTRACTOR. PROVIDE ADDITIONAL CONDUIT AND WIRE AS REQUIRED.



NORTH

1 **BASEMENT PLAN - ELECTRICAL**
1/8" = 1'-0"

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Approved	**JERVET**

SHEET TITLE

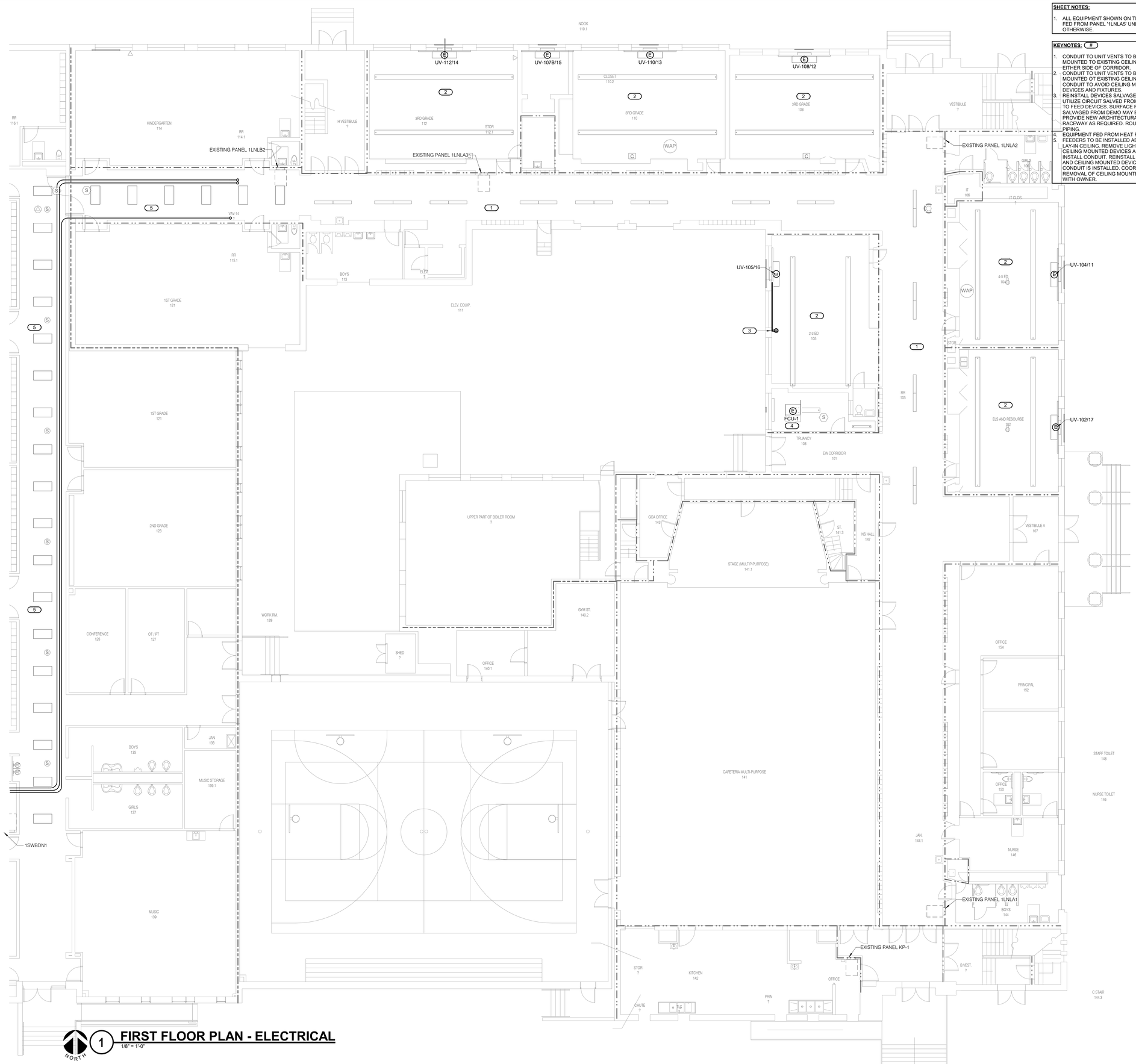
BASEMENT PLAN - ELECTRICAL

SCALE

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

SHEET NUMBER

E200



1 **FIRST FLOOR PLAN - ELECTRICAL**
1/8" = 1'-0"

SHEET NOTES:

1. ALL EQUIPMENT SHOWN ON THIS SHEET TO BE FED FROM PANEL '1LNLA5' UNLESS NOTED OTHERWISE.

KEYNOTES: (#)

1. CONDUIT TO UNIT VENTS TO BE SURFACE MOUNTED TO EXISTING CEILING. ROUTE TO EITHER SIDE OF CORRIDOR.
2. CONDUIT TO UNIT VENTS TO BE SURFACE MOUNTED OT EXISTING CEILING. ROUTE CONDUIT TO AVOID CEILING MOUNTED DEVICES AND FIXTURES.
3. REINSTALL DEVICES SALVAGED FROM DEMO. UTILIZE CIRCUIT SALVED FROM DEMOLITION TO FEED DEVICES. SURFACE RACEWAY SALVAGED FROM DEMO MAY BE REUSED. PROVIDE NEW ARCHITECTURAL SURFACE RACEWAY AS REQUIRED. ROUTE AROUND PIPING.
4. EQUIPMENT FED FROM HEAT PUMP ON ROOF.
5. FEEDERS TO BE INSTALLED ABOVE EXISTING LAY-IN CEILING. REMOVE LIGHT FIXTURES AND CEILING MOUNTED DEVICES AS REQUIRED TO INSTALL CONDUIT. REINSTALL LIGHT FIXTURES AND CEILING MOUNTED DEVICES ONCE CONDUIT IS INSTALLED. COORDINATE REMOVAL OF CEILING MOUNTED DEVICES WITH OWNER.

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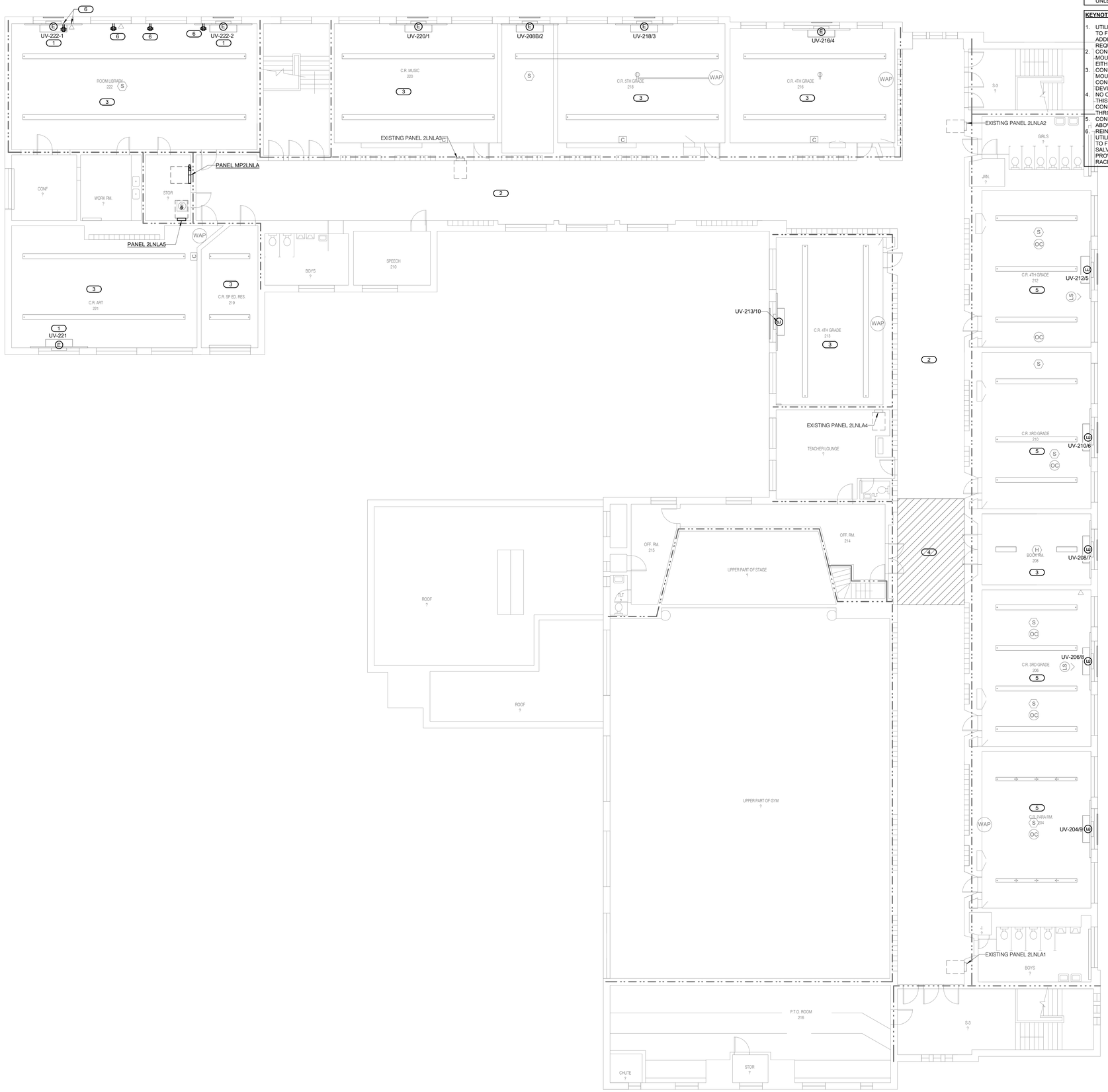
SHEET TITLE
FIRST FLOOR PLAN - ELECTRICAL

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

SHEET NUMBER
E201



1 SECOND FLOOR PLAN - ELECTRICAL

1/8" = 1'-0"

NORTH

SHEET NOTES:

1. ALL RECEPTACLE AND EQUIPMENT SHOWN ON THIS SHEET TO BE FED FROM PANEL '2LNLA5' UNLESS NOTED OTHERWISE.

KEYNOTES: #

1. UTILIZE CIRCUIT SALVAGED FROM DEMOLITION TO FEED NEW UNIT VENTS. PROVIDE ADDITIONAL CONDUIT AND WIRE AS REQUIRED.
2. CONDUIT TO UNIT VENTS TO BE SURFACE MOUNTED TO EXISTING CEILING. ROUTE TO EITHER SIDE OF CORRIDOR.
3. CONDUIT TO UNIT VENTS TO BE SURFACE MOUNTED OT EXISTING CEILING. ROUTE CONDUIT TO AVOID CEILING MOUNTED DEVICES AND FIXTURES.
4. NO CONDUITS ARE TO BE ROUTED THROUGH THIS ARE OF THE CORRIDOR. ROUTE CONDUITS FOR ROOMS PAST THIS AREA THROUGH THE CLASSROOMS.
5. CONDUIT TO UNIT VENTS TO BE INSTALLED ABOVE EXISTING LAY-IN CEILING.
6. REINSTALL DEVICES SALVAGED FROM DEMO. UTILIZE CIRCUIT SALVED FROM DEMOLITION TO FEED DEVICES. SURFACE RACEWAY SALVAGED FROM DEMO MAY BE REUSED. PROVIDE NEW ARCHITECTURAL SURFACE RACEWAY AS REQUIRED.

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SHEET TITLE

SECOND FLOOR PLAN - ELECTRICAL

SCALE

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

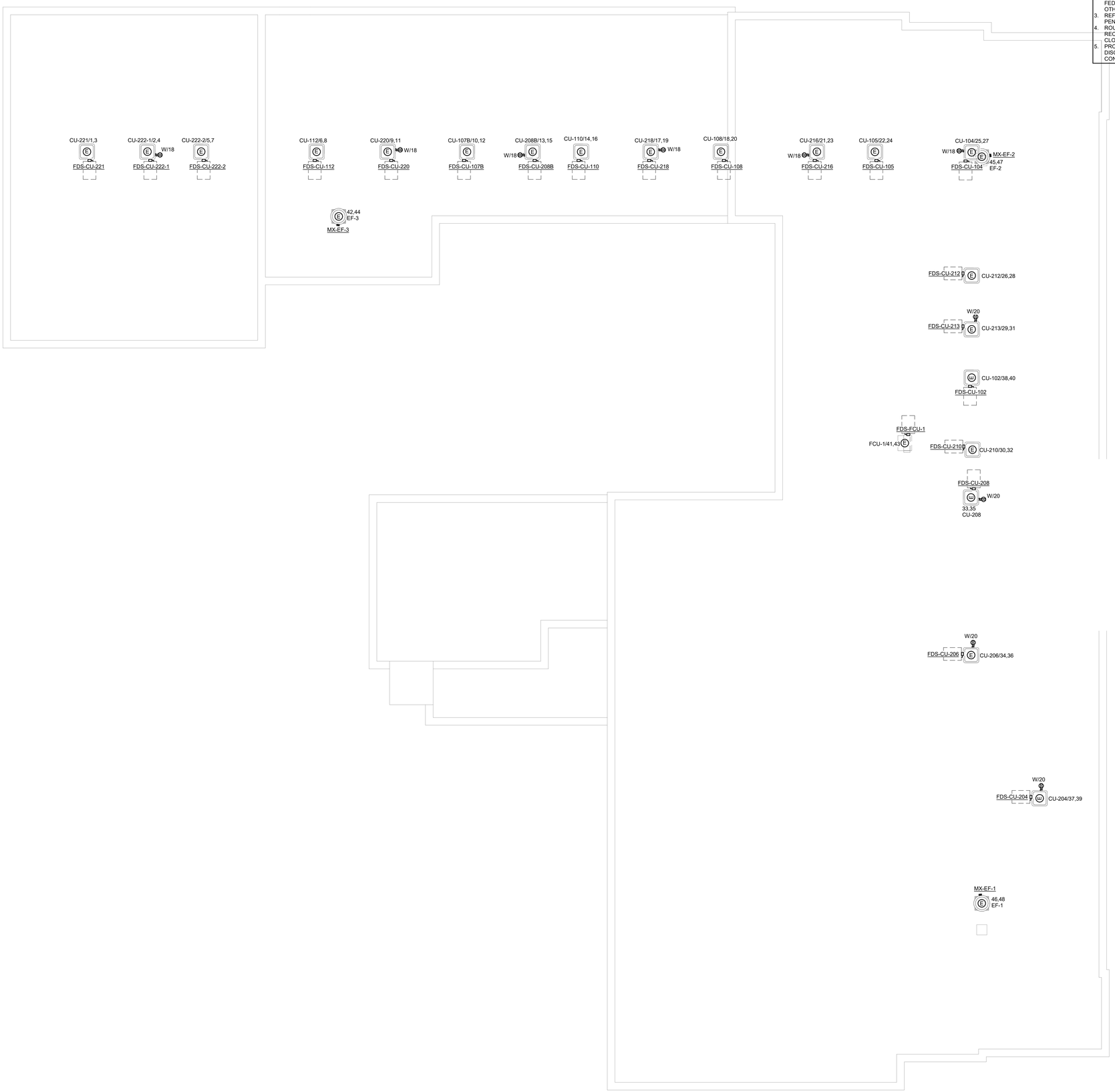
SHEET NUMBER

E202

21002885.08 11/15/2022 9:46:49 AM ESSER HVAC Improvements - Welsh Elementary School

SHEET NOTES:

1. ALL RECEPTACLES SHOWN ON THIS SHEET TO BE FED FROM PANEL '2LNLA5' UNLESS NOTED OTHERWISE.
2. ALL EQUIPMENT SHOWN ON THIS SHEET TO BE FED FROM PANEL 'MP2LNLA' UNLESS NOTED OTHERWISE.
3. REFER TO DETAIL 1/E000 FOR ROOF PENETRATIONS.
4. ROUTE CONDUIT FOR CONDESING UNITS AND RECEPTACLES ON TOP OF ROOF. ROUTE IN CLOSE RACK 3'-0" FROM CONDENSING UNITS.
5. PROVIDE UNITSTRUT AS REQUIRED TO MOUNT DISCONNECT AND RECEPTACLE AT THE CONDENSING UNIT.



NORTH

1 **ROOF PLAN - ELECTRICAL**
1/8" = 1'-0"

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SHEET TITLE

ROOF PLAN - ELECTRICAL

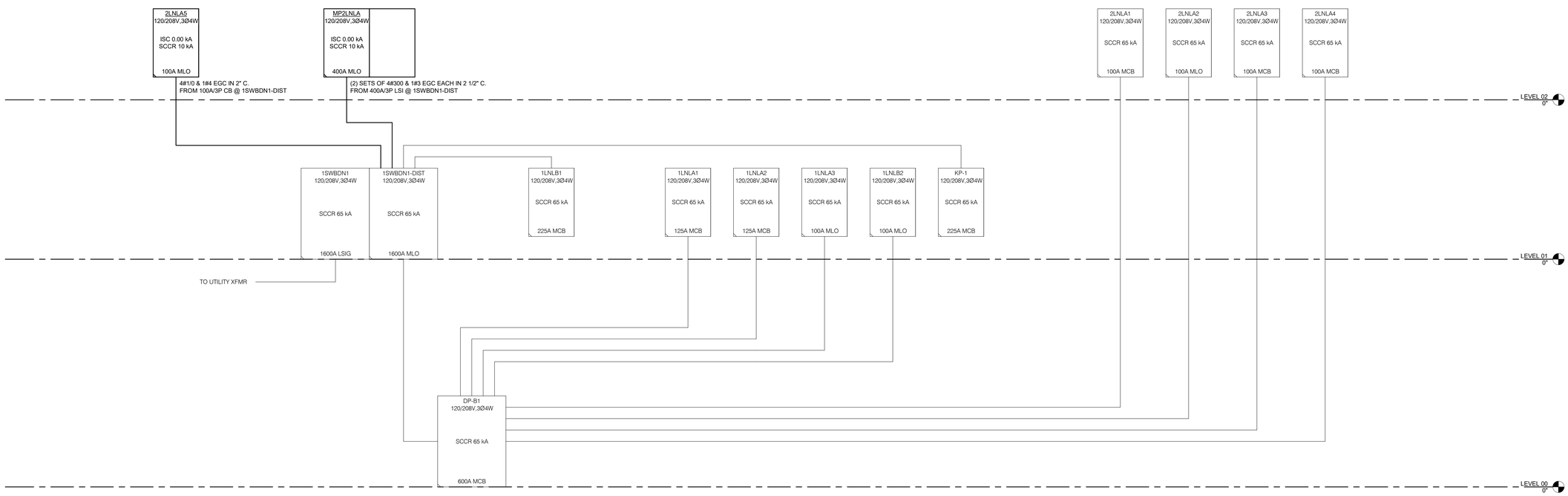
SCALE

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

SHEET NUMBER

E204

21002885.08 11/15/2022 9:46:50 AM ESSER HVAC Improvements - Welsh Elementary School



1 **RISER DIAGRAM**
NO SCALE

21002885.08 11/15/2022 9:46:50 AM ESSER HVAC Improvements - Welsh Elementary School

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SHEET TITLE
ELECTRICAL DIAGRAMS

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

SHEET NUMBER
E500

ELECTRICAL DISTRIBUTION SCHEDULE

ITEM	VOLTAGE	MAINS RATING / XFMR RATING	FEEDER: UPSTREAM OCPD OR TERMINATION	FEEDER: WIRE AND RACEWAY	CONNECTED LOAD	ESTIMATED DEMAND LOAD	CONNECTED CURRENT	ESTIMATED DEMAND CURRENT	ESTIMATED ISC	SCCR	VOLTAGE DROP – FEEDERS: FEEDER VOLTAGE DROP	VOLTAGE DROP – FEEDERS: UPSTREAM FEEDERS VOLTAGE DROP	VOLTAGE DROP – FEEDERS: TOTAL FEEDER VOLTAGE DROP	VOLTAGE DROP – BRANCH CIRCUITS: MAX BRANCH VOLTAGE DROP	VOLTAGE DROP – BRANCH CIRCUITS: TOTAL VOLTAGE DROP AT MAX BRANCH	LEVEL	LOCATION	COMMENTS
MP2LNLA	120/208V, 3Ø4W	400 A MLO	400 A LSI	(2) SETS OF 4#300 & 1#3 EGC EACH IN 2 1/2" C.	103.98 kVA	103.98 kVA	288.6 A	288.6 A		10 kA	1.81%	0.28%	2.09%	2.89%	4.98%	LEVEL 02		
2LNLA5	120/208V, 3Ø4W	100 A MLO	100 A CB	4#10 & 1#4 EGC IN 2" C.	12.33 kVA	12.33 kVA	34.2 A	34.2 A		10 kA	1.83%	0.28%	2.11%	2.94%	5.05%	LEVEL 02		

ELECTRICAL CONNECTION SCHEDULE

	ITEM	LOCATION	VOLTAGE	LOAD CLASS.	MOTORS: QTY @ HP	MOTORS: QTY @ HP	MOTORS: QTY @ HP	ELECTRIC HEATING ELEMENT (KW)	APPARENT LOAD	FLA	MCA	MOCP	OCPD	REQ EMER	CIRCUIT NUMBER	WIRE AND RACEWAY	ISC	SCCR	DISCONNECT: BY	DISCONNECT: TYPE	CONTROLLER / STARTER: BY	CONTROLLER / STARTER: TYPE	COMMENTS
	FCU-1		208 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	3.12 kVA	0 A	15 A	1.6 A	0 A	No			0 A	0 A					FED FROM HP-1
	M-1		208 V, 3Ø	HVAC	1 @ 15	0 - 0	0 - 0	0	16.64 kVA	46.2 A	57.8 A	90 A	0 A	No			0 A	0 A					FED FROM EXISTING CIRCUIT
	UV-221		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.76 kVA	0 A	6.3 A	15 A	0 A	No			0 A	0 A	NF	MFR	MFR		FED FROM EXISTING CIRCUIT
	UV-222-1		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.47 kVA	0 A	3.9 A	15 A	0 A	No			0 A	0 A	NF	MFR	MFR		FED FROM EXISTING CIRCUIT
	UV-222-2		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.47 kVA	0 A	3.9 A	15 A	0 A	No			0 A	0 A	NF	MFR	MFR		FED FROM EXISTING CIRCUIT
2LNLA5																							
	UV-102		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.76 kVA	0 A	6.3 A	15 A	20 A	No	17	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-104		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.76 kVA	0 A	6.3 A	15 A	20 A	No	11	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-105		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.76 kVA	0 A	6.3 A	15 A	20 A	No	16	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-107B		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.47 kVA	0 A	3.9 A	15 A	20 A	No	15	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-108		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.76 kVA	0 A	6.3 A	15 A	20 A	No	12	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-110		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.47 kVA	0 A	3.9 A	15 A	20 A	No	13	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-112		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.47 kVA	0 A	3.9 A	15 A	20 A	No	14	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-204		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.76 kVA	0 A	6.3 A	15 A	20 A	No	9	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-206		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.76 kVA	0 A	6.3 A	15 A	20 A	No	8	2#8 & 1#8 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-208		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.47 kVA	0 A	3.9 A	15 A	20 A	No	7	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-208B		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.47 kVA	0 A	3.9 A	15 A	20 A	No	2	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-210		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.76 kVA	0 A	6.3 A	15 A	20 A	No	6	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-212		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.76 kVA	0 A	6.3 A	15 A	20 A	No	5	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-213		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.76 kVA	0 A	6.3 A	15 A	20 A	No	10	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-216		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.47 kVA	0 A	3.9 A	15 A	20 A	No	4	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-218		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.47 kVA	0 A	3.9 A	15 A	20 A	No	3	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
	UV-220		120 V, 1Ø	HVAC	0 - 0	0 - 0	0 - 0	0	0.47 kVA	0 A	3.9 A	15 A	20 A	No	1	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A	NF	MFR	MFR		
MP2LNLA																							
	CU-102		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	5.89 kVA	0 A	28.3 A	45 A	45 A	No	38,40	2#4 & 1#4 EGC IN 1" C.	0 A	0 A	MFR	NF	MFR		
	CU-104		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	5.89 kVA	0 A	28.3 A	45 A	45 A	No	25,27	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-105		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	5.89 kVA	0 A	28.3 A	45 A	45 A	No	22,24	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-107B		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	4.10 kVA	0 A	19.7 A	30 A	30 A	No	10,12	2#10 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-108		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	4.10 kVA	0 A	19.7 A	30 A	30 A	No	18,20	2#8 & 1#4 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-110		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	4.10 kVA	0 A	19.7 A	30 A	30 A	No	14,16	2#10 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-112		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	4.10 kVA	0 A	19.7 A	30 A	30 A	No	6,8	2#12 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-204		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	5.89 kVA	0 A	28.3 A	45 A	45 A	No	37,39	2#4 & 1#4 EGC IN 1" C.	0 A	0 A	MFR	NF	MFR		
	CU-206		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	5.89 kVA	0 A	28.3 A	45 A	45 A	No	34,36	2#4 & 1#4 EGC IN 1" C.	0 A	0 A	MFR	NF	MFR		
	CU-208		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	4.10 kVA	0 A	19.7 A	30 A	30 A	No	33,35	2#6 & 1#4 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-208B		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	4.10 kVA	0 A	19.7 A	30 A	30 A	No	13,15	2#10 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-210		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	5.89 kVA	0 A	28.3 A	45 A	45 A	No	30,32	2#4 & 1#4 EGC IN 1" C.	0 A	0 A	MFR	NF	MFR		
	CU-212		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	5.89 kVA	0 A	28.3 A	45 A	45 A	No	26,28	2#6 & 1#6 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-213		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	5.89 kVA	0 A	28.3 A	45 A	45 A	No	29,31	2#4 & 1#4 EGC IN 1" C.	0 A	0 A	MFR	NF	MFR		
	CU-216		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	4.10 kVA	0 A	19.7 A	30 A	30 A	No	21,23	2#8 & 1#4 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-218		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	4.10 kVA	0 A	19.7 A	30 A	30 A	No	17,19	2#8 & 1#4 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-220		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	4.10 kVA	0 A	19.7 A	30 A	30 A	No	9,11	2#10 & 1#8 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-221		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	5.89 kVA	0 A	28.3 A	45 A	45 A	No	1,3	2#10 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-222-1		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	4.10 kVA	0 A	19.7 A	30 A	30 A	No	2,4	2#12 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	CU-222-2		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	4.10 kVA	0 A	19.7 A	30 A	30 A	No	5,7	2#12 & 1#10 EGC IN 3/4" C.	0 A	0 A	MFR	NF	MFR		
	EF-1		208 V, 1Ø	HVAC	1 @ 0.33	0 - 0	0 - 0	0	0.83 kVA	4 A	5 A	15 A	15 A	No	46,48	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A					
	EF-2		208 V, 1Ø	HVAC	1 @ 0.33	0 - 0	0 - 0	0	0.83 kVA	4 A	5 A	15 A	15 A	No	45,47	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A					
	EF-3		208 V, 1Ø	HVAC	1 @ 0.33	0 - 0	0 - 0	0	0.83 kVA	4 A	5 A	15 A	15 A	No	42,44	2#12 & 1#12 EGC IN 3/4" C.	0 A	0 A					
	FCU-1		208 V, 1Ø	HVAC Cooling Only	0 - 0	0 - 0	0 - 0	0	3.43 kVA	0 A	16.5 A	25 A	25 A	No	41,43	2#8 & 1#4 EGC IN 3/4" C.	0 A	0 A					

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	DISCONNECT TYPE & RATING: RATING	DISCONNECT TYPE & RATING: TRIP RATING	VOLTAGE	POLES	STARTER: NEMA SIZE	STARTER: TYPE	ENCLOSURE	REQUIRED ACCESSORIES & OPTIONS	COMMENTS
MX-EF-3		30 A		208 V	2	0	MX	NEMA 4		
MX-EF-2		30 A		208 V	2	0	MX	NEMA 4		
MX-EF-1		30 A		208 V	2	0	MX	NEMA 4		
FDS-CU-108	FU	30 A	25 A	208 V	2			NEMA 3R		
FDS-CU-110	FU	30 A	25 A	208 V	2			NEMA 3R		
FDS-CU-218	FU	30 A	25 A	208 V	2			NEMA 3R		
FDS-CU-107B	FU	30 A	25 A	208 V	2			NEMA 3R		
FDS-CU-112	FU	30 A	25 A	208 V	2			NEMA 3R		
FDS-CU-222-1	FU	30 A	25 A	208 V	2			NEMA 3R		
FDS-CU-222-2	FU	30 A	25 A	208 V	2			NEMA 3R		
FDS-CU-220	FU	30 A	25 A	208 V	2			NEMA 3R		
FDS-CU-208B	FU	30 A	25 A	208 V	2			NEMA 3R		
FDS-CU-216	FU	30 A	25 A	208 V	2			NEMA 3R		
FDS-CU-208	FU	30 A	25 A	208 V	2			NEMA 3R		
FDS-FCU-1	FU	30 A	20 A	208 V	2			NEMA 3R		
FDS-CU-104	FU	60 A	35 A	208 V	2			NEMA 3R		
FDS-CU-221	FU	60 A	35 A	208 V	2			NEMA 3R		
FDS-CU-105	FU	60 A	35 A	208 V	2			NEMA 3R		
FDS-CU-212	FU	60 A	35 A	208 V	2			NEMA 3R		
FDS-CU-213	FU	60 A	35 A	208 V	2			NEMA 3R		
FDS-CU-210	FU	60 A	35 A	208 V	2			NEMA 3R		
FDS-CU-206	FU	60 A	35 A	208 V	2			NEMA 3R		
FDS-CU-204	FU	60 A	35 A	208 V	2			NEMA 3R		
FDS-CU-102	FU	60 A	35 A	208 V	2			NEMA 3R		

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PROFESSIONAL SEAL

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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	21002885.08
Drawn	JERVET
Checked	MATSNY
Approved	JERVET

SHEET TITLE
ELECTRICAL SCHEDULES

SCALE
Scale:

SHEET NUMBER
E600

EXISTING SWITCHBOARD 1SWBDN1

ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @
LOCATION:

SOLID NEUTRAL
GROUND BUS

VOLTS: 120/208 Wye
PHASE: 3
WIRE 4
SCCR: 65 kA
ISC UNKNOWN 0 A

NOTES: ALL BREAKERS AND CIRCUITS ARE EXISTING UNLESS NOTED OTHERWISE.

MAIN OCPD

POLES	FRAME	TRIP	TYPE	ACCESSORIES
3	1,600 A	1,600 A	LSIG	

DISTRIBUTION SUMMARY	CONNECTED LOAD
1SWBDN1-DIST	116.31 kVA

LOAD SUMMARY (INCLUDES ALL SECTIONS OF THIS SWITCHBOARD)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	13.025 kVA	100.00%	13.025 kVA		
HVAC Cooling Only	101.483 kVA	100.00%	101.483 kVA	**TOTAL CONNECTED LOAD:**	116.31 kVA
Receptacles	1.8 kVA	100.00%	1.8 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	116.308 kVA
				TOTAL CONNECTED AMPS:	322.84 A
				TOTAL ESTIMATED DEMAND AMPS:	322.8 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. NEW BREAKER

1SWBDN1-DIST

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	OCPD TYPE	ACCESSORIES	WIRE AND RACEWAY	CIRCUIT KEY
1	MP2LNLA	103.98...	3	400 A	400 A	LSI		(2) SETS OF 4#300 & 1#3 EGC EACH IN 2 1/2" C.	1
2	SPACE	0 kVA	--	--	--	--	--	--	--
3	RTU-1	0 kVA	3	--	400 A	--	--	--	--
4	DP-B1	0 kVA	3	600 A	600 A				
5	SPACE	0 kVA	--	--	--	--	--	--	--
6	SPACE	0 kVA	--	--	--	--	--	--	--
7	SPARE	0 kVA	3	--	400 A	--	--	--	--
8	SPACE	0 kVA	--	--	--	--	--	--	--
9	SPACE	0 kVA	--	--	--	--	--	--	--
10	SPACE	0 kVA	--	--	--	--	--	--	--
11	SPACE	0 kVA	--	--	--	--	--	--	--
12	ELEV-1	0 kVA	3	--	100 A	--	--	--	--
13	SPARE	0 kVA	3	--	200 A	--	--	--	--
14	1LNLB1	0 kVA	3	250 A	225 A				
15	2LNLA5	12.33 kVA	3	150 A	100 A	CB		4#1/0 & 1#4 EGC IN 2" C.	1
16	SPACE	0 kVA	--	--	--	--	--	--	--
17	SPACE	0 kVA	--	--	--	--	--	--	--
18	SPACE	0 kVA	--	--	--	--	--	--	--
19	SPACE	0 kVA	--	--	--	--	--	--	--
20	SPACE	0 kVA	--	--	--	--	--	--	--
21	KP-1	0 kVA	3	250 A	225 A				
22	SPARE	0 kVA	3	--	200 A	--	--	--	--
23	RTU-2	0 kVA	3	--	150 A	--	--	--	--
24	SPD	0 kVA	3	--	60 A	--	--	--	--

PANEL MP2LNLA

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 400 A/3P LSI @ 1SWBDN1-DIST
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 400 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	HVAC Cooling Only; CU-221	45 A	2	10	--	10	2.34	2.94	2.05					2.3	10	--	12	2	30 A	HVAC Cooling Only; CU-222-1	2	
--	3	--	--	--	--	--	--	--			2.94	2.05			--	--	--	--	--	--	--	4	--
	5	HVAC Cooling Only; CU-222-2	30 A	2	12	--	10	2.07					2.05	2.05	2.85	10	--	12	2	30 A	HVAC Cooling Only; CU-112	6	
--	7	--	--	--	--	--	--	--	2.05	2.05					--	--	--	--	--	--	--	8	--
	9	HVAC Cooling Only; CU-220	30 A	2	10	--	8	2.03			2.05	2.05			2.34	8	--	10	2	30 A	HVAC Cooling Only; CU-107B	10	
--	11	--	--	--	--	--	--	--					2.05	2.05	--	--	--	--	--	--	--	12	--
	13	HVAC Cooling Only; CU-208B	30 A	2	10	--	8	2.61	2.05	2.05					2.81	8	--	10	2	30 A	HVAC Cooling Only; CU-110	14	
--	15	--	--	--	--	--	--	--			2.05	2.05			--	--	--	--	--	--	--	16	--
	17	HVAC Cooling Only; CU-218	30 A	2	8	--	4	2.04					2.05	2.05	2.23	4	--	8	2	30 A	HVAC Cooling Only; CU-108	18	
--	19	--	--	--	--	--	--	--	2.05	2.05					--	--	--	--	--	--	--	20	--
	21	HVAC Cooling Only; CU-216	30 A	2	8	--	4	2.49			2.05	2.94			2.43	6	--	6	2	45 A	HVAC Cooling Only; CU-105	22	
--	23	--	--	--	--	--	--	--					2.05	2.94	--	--	--	--	--	--	--	24	--
	25	HVAC Cooling Only; CU-104	45 A	2	6	--	6	2.67	2.94	2.94					2.89	6	--	6	2	45 A	HVAC Cooling Only; CU-212	26	
--	27	--	--	--	--	--	--	--			2.94	2.94			--	--	--	--	--	--	--	28	--
	29	HVAC Cooling Only; CU-213	45 A	2	4	--	4	1.97					2.94	2.94	2.16	4	--	4	2	45 A	HVAC Cooling Only; CU-210	30	
--	31	--	--	--	--	--	--	--	2.94	2.94					--	--	--	--	--	--	--	32	--
	33	HVAC Cooling Only; CU-208	30 A	2	6	--	4	2.4			2.05	2.94			2.5	4	--	4	2	45 A	HVAC Cooling Only; CU-206	34	
--	35	--	--	--	--	--	--	--					2.05	2.94	--	--	--	--	--	--	--	36	--
	37	HVAC Cooling Only; CU-204	45 A	2	4	--	4	2.76	2.94	2.94					2.05	4	--	4	2	45 A	HVAC Cooling Only; CU-102	38	
--	39	--	--	--	--	--	--	--			2.94	2.94			--	--	--	--	--	--	--	40	--
	41	HVAC Cooling Only; FCU-1	25 A	2	8	--	4	2.74					1.72	0.42	0.64	12	--	12	2	15 A	HVAC; EF-3	42	
--	43	--	--	--	--	--	--	--	1.72	0.42					--	--	--	--	--	--	--	44	--
	45	HVAC; EF-2	15 A	2	12	--	12	1.48			0.42	0.42			2.47	12	--	12	2	15 A	HVAC; EF-1	46	
--	47	--	--	--	--	--	--	--					0.42	0.42	--	--	--	--	--	--	--	48	--
--	49	SPACE	--	--	--	--	--	--	0	0					--	--	--	--	--	--	SPACE	50	--
--	51	SPACE	--	--	--	--	--	--			0	0			--	--	--	--	--	--	SPACE	52	--
--	53	SPACE	--	--	--	--	--	--					0	0	--	--	--	--	--	--	SPACE	54	--
								Total Load:	37.08 kVA		35.78 kVA		31.13 kVA										
								Total Amps:	314.93		304.09		259.39										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	2.496 kVA	100.00%	2.496 kVA		
HVAC Cooling Only	101.483 kVA	100.00%	101.483 kVA	**TOTAL CONNECTED LOAD:**	103.98 kVA
				TOTAL ESTIMATED DEMAND LOAD:	103.979 kVA
				TOTAL CONNECTED AMPS:	288.62 A
				TOTAL ESTIMATED DEMAND AMPS:	288.6 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:

PANEL 2LNLA5

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 100 A/3P CB @ 1SWBDN1-DIST
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	HVAC; UV-208	20 A	1	12	12	12	1.19	0.47	0.47					1.45	12	12	12	1	20 A	HVAC; UV-208B	2	
	3	HVAC; UV-207	20 A	1	12	12	12	1.72			0.47	0.47			2.12	12	12	12	1	20 A	HVAC; UV-206	4	
	5	HVAC; UV-205	20 A	1	10	10	10	2.37					0.76	0.76	2.76	10	10	10	1	20 A	HVAC; UV-204	6	
	7	HVAC; UV-203	20 A	1	10	10	10	1.86	0.47	0.76					2.16	8	8	8	1	20 A	HVAC; UV-202	8	
	9	HVAC; UV-201	20 A	1	8	8	8	2.41			0.76	0.76			1.78	10	10	10	1	20 A	HVAC; UV-213	10	
	11	HVAC; UV-104	20 A	1	10	10	10	2.31					0.76	0.76	2	10	10	10	1	20 A	HVAC; UV-105	12	
	13	HVAC; UV-106	20 A	1	12	12	12	1.65	0.47	0.47					1.12	12	12	12	1	20 A	HVAC; UV-107	14	
	15	HVAC; UV-107B	20 A	1	12	12	12	1.38			0.47	0.76			2.66	12	12	12	1	20 A	HVAC; UV-111	16	
	17	HVAC; UV-103	20 A	1	10	10	10	2.57					0.76	1.08	2.39	10	10	10	1	20 A	Receptacles; ROOF	18	
--	19	SPARE	20 A	1	--	--	--	--	0	0.72					2.94	10	10	10	1	20 A	Receptacles; ROOF	20	
--	21	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	22	--
--	23	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	24	--
--	25	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	26	--
--	27	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	28	--
--	29	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	30	--
								Total Load:	3.80 kVA		3.66 kVA		4.86 kVA										
								Total Amps:	31.88		30.54		40.68										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
HVAC	10.529 kVA	100.00%	10.529 kVA		
Receptacles	1.8 kVA	100.00%	1.8 kVA	**TOTAL CONNECTED LOAD:**	12.33 kVA
				TOTAL ESTIMATED DEMAND LOAD:	12.329 kVA
				TOTAL CONNECTED AMPS:	34.22 A
				TOTAL ESTIMATED DEMAND AMPS:	34.2 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:

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**Construction Documents**
Date	**November 03, 2022**
Job Number	**21002885.08**
Drawn	**JERVET**
Checked	**MATSNY**
Approved	**JERVET**

SHEET TITLE
PANEL SCHEDULES

SCALE
Scale:

SHEET NUMBER
E700