MODEL

EARLY CHILDOOD RENOVATION

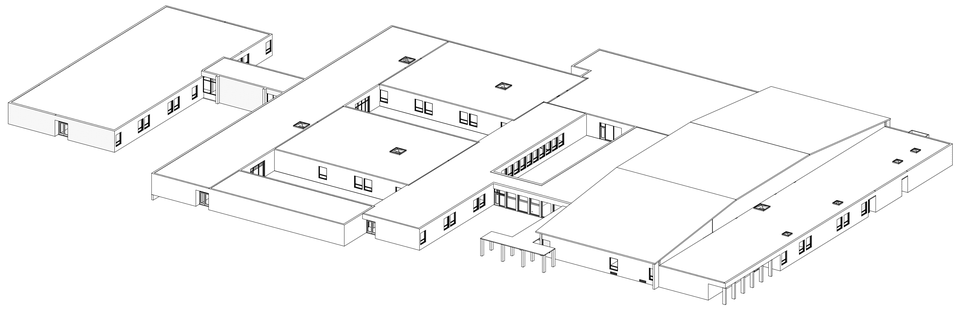
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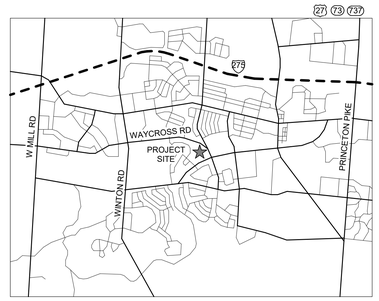
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GOP LIMITED - STRUCTURAL ENGINEER
644 Linn Street, Suite 936, Cincinnati, OH 45203-1738
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SHP - PME ENGINEER
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SHP





VICINITY MAP
NTS

SHEET INDEX

GENERAL - ESSER
G000.E TITLE SHEET
G001.E CODE DATA SHEETS

DEMO - ESSER
D101.E FIRST FLOOR DEMO PLAN - AREA A
D102.E FIRST FLOOR DEMO PLAN - AREA B
D103.E FIRST FLOOR DEMO PLAN - AREA C
D201.E DEMO EXTERIOR ELEVATIONS
D202.E DEMO EXTERIOR ELEVATIONS
D401.E FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA A
D402.E FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA B
D403.E FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA C

ARCHITECTURAL - ESSER
A010.E OPENING TYPES AND STOREFRONT
A011.E ACCESS CONTROL
A031.E E-FRAME DETAILS
A051.E OVERALL FIRST FLOOR PLAN
A101.E FIRST FLOOR PLAN - AREA A
A102.E FIRST FLOOR PLAN - AREA B
A103.E FIRST FLOOR PLAN - AREA C
A201.E EXTERIOR ELEVATIONS
A202.E EXTERIOR ELEVATIONS

MECHANICAL - ESSER
M000 MECHANICAL SCHEDULES AND LEGENDS
M001 MECHANICAL SCHEDULES
M002 MECHANICAL DETAILS
M003 MECHANICAL DETAILS
M004 VENTILATION SCHEDULES
M010 MECHANICAL DEMOLITION PLAN AREA A
M011 MECHANICAL DEMOLITION PLAN AREA B
M012 MECHANICAL DEMOLITION PLAN AREA C
M020 MECHANICAL ROOF DEMOLITION PLAN
M100 FIRST FLOOR DUCTWORK PLAN AREA A
M101 FIRST FLOOR DUCTWORK PLAN AREA B
M102 FIRST FLOOR DUCTWORK PLAN AREA C
M200 FIRST FLOOR PIPING PLAN AREA A
M201 FIRST FLOOR PIPING PLAN AREA B
M202 FIRST FLOOR PIPING PLAN AREA C
M300 MECHANICAL ROOF PLAN
M400 ENLARGED MECHANICAL PLANS
M600 CONTROL SCHEMATICS - HVAC
M601 CONTROL SCHEMATICS - HVAC
M700 CONTROL SCHEMATICS - PIPING

ELECTRICAL - ESSER
E000 ELECTRICAL LEGENDS
E001 ELECTRICAL LEGENDS
E010 FIRST FLOOR DEMO PLAN AREA A
E011 FIRST FLOOR DEMO PLAN AREA B
E012 FIRST FLOOR DEMO PLAN AREA C
E013 ROOF DEMOLITION PLAN
E200 FIRST FLOOR POWER PLAN AREA A
E201 FIRST FLOOR POWER PLAN AREA B
E202 FIRST FLOOR POWER PLAN AREA C
E203 ROOF POWER PLAN AREA A
E204 ROOF POWER PLAN AREA B
E205 ROOF POWER PLAN AREA C
E400 PANEL SCHEDULES
E401 PANEL SCHEDULES
E500 ELECTRICAL DETAILS
E600 ELECTRICAL SINGLE LINE DIAGRAM
E700 ELECTRICAL SITE PLAN

PLUMBING - ESSER
M000 ESSER PLUMBING PLANS

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2118434
REGISTERED ARCHITECT

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825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

ISSUANCES

03-31-22	BID / PERMIT

TITLE SHEET

COMM NO. 2021091.02

G000.E

0"
1" REFERENCE LINE

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Code Analysis - Rooms ESSER

Room Number	Room Name	GROSS Area	NET Area	Use Net Area	Gross or Net Used for Design Load	Area per Occupant	Use Override Design Load	Override Design Load	ACTUAL LOAD	DESIGN LOAD
101	BUSINESS EDUCATION	888 SF	888 SF	No	GROSS	20 SF	No			45
102	CLASSROOM	702 SF	702 SF	No	GROSS	20 SF	No			36
103	CLASSROOM	701 SF	701 SF	No	GROSS	20 SF	No			36
104	CLASSROOM	705 SF	705 SF	No	GROSS	20 SF	No			36
105	CLASSROOM	706 SF	706 SF	No	GROSS	20 SF	No			36
106	CLASSROOM	703 SF	703 SF	No	GROSS	20 SF	No			36
107	CLASSROOM	708 SF	708 SF	No	GROSS	20 SF	No			36
108	CLASSROOM	Not Placed								
108	CLASSROOM	708 SF	708 SF	No	GROSS	20 SF	No			36
109	GENERAL SCIENCE	874 SF	837 SF	No	GROSS	20 SF	No			44
110	GENERAL SCIENCE	633 SF	616 SF	No	GROSS	20 SF	No			32
111	CLASSROOM	701 SF	701 SF	No	GROSS	20 SF	No			36
112	BIOLOGY/GENERAL SCIENCE	1065 SF	1065 SF	No	GROSS	20 SF	No			54
113	CLOTHING LABRATORY	1172 SF	1172 SF	No	GROSS	20 SF	No			59
114	FOOD LABRATORY	1187 SF	1173 SF	No	GROSS	20 SF	No			60
115	CLASSROOM	701 SF	701 SF	No	GROSS	20 SF	No			36
116	CLASSROOM	709 SF	709 SF	No	GROSS	20 SF	No			36
117	CLASSROOM	701 SF	701 SF	No	GROSS	20 SF	No			36
118	CLASSROOM	709 SF	709 SF	No	GROSS	20 SF	No			36
119	CLASSROOM	707 SF	707 SF	No	GROSS	20 SF	No			36
120	ART ROOM	982 SF	982 SF	No	GROSS	20 SF	No			50
121	DRAWINGS & CRAFTS	707 SF	707 SF	No	GROSS	20 SF	No			36
122	RESOURCE	251 SF	251 SF	No	GROSS	20 SF	No			13
123	SHOP	910 SF	910 SF	No	GROSS	20 SF	No			46
124	CLASSROOM	424 SF	424 SF	No	GROSS	20 SF	No			22
124	MATERIAL STORAGE	186 SF	162 SF	No	GROSS	300 SF	No			1
126	LIBRARY	1753 SF	1753 SF	No	GROSS	20 SF	No			88
126A	CONFERENCE & VISUAL AIDS STOR.	331 SF	331 SF	No	GROSS	300 SF	No			2
127	OFFICE & WORK ROOM	156 SF	133 SF	No	GROSS	100 SF	No			2
128	MECHANICAL EQUIPMENT	810 SF	810 SF	No	GROSS	300 SF	No			3
129	CUSTODIAN	258 SF	258 SF	No	GROSS	100 SF	No			3
130	INCINERATOR	86 SF	86 SF	No	GROSS	100 SF	No			1
131	BOYS T.R.	170 SF	170 SF	No	GROSS	100 SF	No			2
132	TRASH & CAN WASH	152 SF	152 SF	No	GROSS	100 SF	No			2
133	GIRLS T.R.	199 SF	199 SF	No	GROSS	100 SF	No			2
135	CLINIC	361 SF	361 SF	No	GROSS	100 SF	No			4
136	BOOK ROOM	70 SF	70 SF	No	GROSS	300 SF	No			1
137	FILE STORAGE	60 SF	60 SF	No	GROSS	15 SF	No			4
137B	STOR.	63 SF	63 SF	No	GROSS	300 SF	No			1
138	WORK ROOM	174 SF	159 SF	No	GROSS	100 SF	No			2
138A	CLINIC	94 SF	94 SF	No	GROSS	100 SF	No			1
138B	PSYC OFFICE	92 SF	92 SF	No	GROSS	100 SF	No			1
138C	RR	26 SF	26 SF	No	GROSS	100 SF	No			1
139	VAULT	37 SF	37 SF	No	GROSS	300 SF	No			1
140	GENERAL OFFICE	428 SF	428 SF	No	GROSS	100 SF	No			5
141	GUIDANCE	123 SF	123 SF	No	GROSS	100 SF	No			2
142	GUIDANCE	124 SF	124 SF	No	GROSS	100 SF	No			2
143	PRINCIPAL	172 SF	172 SF	No	GROSS	100 SF	No			2
144	WAITING	127 SF	127 SF	No	GROSS	15 SF	No			9
145	FACULTY	202 SF	202 SF	No	GROSS	100 SF	No			3
147	WOMEN	80 SF	80 SF	No	GROSS	100 SF	No			1
148	MEN	44 SF	44 SF	No	GROSS	100 SF	No			1
149	PREP	121 SF	104 SF	No	GROSS	100 SF	No			2
150	STOR.	118 SF	118 SF	No	GROSS	300 SF	No			1
151	BOY'S	287 SF	287 SF	No	GROSS	100 SF	No			3
152	JAN.	105 SF	105 SF	No	GROSS	100 SF	No			2
153	GIRL'S	293 SF	293 SF	No	GROSS	100 SF	No			3
154	CLASSROOM	662 SF	662 SF	No	GROSS	20 SF	No			34
156	VOCAL REHEARSAL	1016 SF	1016 SF	No	GROSS	20 SF	No			51
157	PRACTICE	89 SF	89 SF	No	GROSS	20 SF	No			5
158	PRACTICE	90 SF	90 SF	No	GROSS	20 SF	No			5
159	MUSIC LIBRARY & OFFICE	210 SF	210 SF	No	GROSS	100 SF	No			3
160	INSTRUMENT REHEARSAL	1391 SF	1391 SF	No	GROSS	20 SF	No			70
161	INSTRUMENT STORAGE	450 SF	450 SF	No	GROSS	300 SF	No			2
162	MUSIC CLASSROOM	400 SF	400 SF	No	GROSS	20 SF	No			20
162A	CONFERENCE ROOM	268 SF	268 SF	No	GROSS	15 SF	No			18
163	STORAGE	144 SF	144 SF	No	GROSS	300 SF	No			1
164	SHOWER	9 SF	9 SF	No	GROSS	100 SF	No			1
165	OFFICE	59 SF	51 SF	No	GROSS	100 SF	No			1
166	BOYS LOCKER RM.	523 SF	523 SF	No	GROSS	100 SF	No			6
167	BASKET RM.	77 SF	77 SF	No	GROSS	20 SF	No			4
168	SHOWER RM.	189 SF	189 SF	No	GROSS	100 SF	No			2
171	DRYING	125 SF	125 SF	No	GROSS	100 SF	No			2
172	SHOWER RM.	276 SF	276 SF	No	GROSS	100 SF	No			3
173	GIRLS LOCKER RM.	605 SF	591 SF	No	GROSS	100 SF	No			7
174	BASKET ROOM	77 SF	77 SF	No	GROSS	100 SF	No			1
175	OFFICE	62 SF	62 SF	No	GROSS	100 SF	No			1
176	SHOWER	9 SF	9 SF	No	GROSS	100 SF	No			1
177	STORAGE	144 SF	144 SF	No	GROSS	300 SF	No			1
178	DRY STORAGE	388 SF	388 SF	No	GROSS	300 SF	No			2
179	GYM STORAGE	284 SF	284 SF	No	GROSS	300 SF	No			1
180	REF	106 SF	106 SF	No	GROSS	0 SF	No			0
181	FREEZER	83 SF	83 SF	No	GROSS	0 SF	No			0
182	DRYING	71 SF	71 SF	No	GROSS	100 SF	No			1
183	LOCKER	60 SF	60 SF	No	GROSS	100 SF	No	1		1
184	MECH.	80 SF	80 SF	No	GROSS	300 SF	No			1
185	DISHWASHING	165 SF	165 SF	No	GROSS	100 SF	No			2
186	LAUNDRY & STOR.	43 SF	43 SF	No	GROSS	300 SF	No			1
187	OFFICE	71 SF	71 SF	No	GROSS	100 SF	No			1
188	KITCHEN	1592 SF	1592 SF	No	GROSS	200 SF	No			8
188B	FREEZER	83 SF	83 SF	No	GROSS	0 SF	No			0
188C	STORAGE	114 SF	114 SF	No	GROSS	300 SF	No			1
188D	ELECTRICAL	208 SF	208 SF	No	GROSS	300 SF	No			1
189	JANITOR & STOR. RM.	102 SF	102 SF	No	GROSS	100 SF	No			2
191	STUDY HALL/CAFETERIA	2780 SF	2780 SF	No	GROSS	15 SF	No			186
192	MECHANICAL	233 SF	233 SF	No	GROSS	300 SF	No			1
193	STAGE	1237 SF	1237 SF	No	GROSS	15 SF	No			83
194	GYMNASIUM	6853 SF	6853 SF	No	GROSS	7 SF	No			980
198	LOBBY	587 SF	587 SF	No	GROSS	0 SF	No			0
209	GIRL'S TLT. ROOM	151 SF	151 SF	No	GROSS	100 SF	No			2
210	BOY'S TLT. ROOM	200 SF	200 SF	No	GROSS	100 SF	No			3
211	JANITOR	79 SF	79 SF	No	GROSS	100 SF	No			1
212	CLASSROOM	699 SF	699 SF	No	GROSS	20 SF	No			35
213	CLASSROOM	695 SF	695 SF	No	GROSS	20 SF	No			35
214	CLASSROOM	704 SF	704 SF	No	GROSS	20 SF	No			36
215	CLASSROOM	704 SF	704 SF	No	GROSS	20 SF	No			36
216	CLASSROOM	711 SF	711 SF	No	GROSS	20 SF	No			36
217	CLASSROOM	702 SF	702 SF	No	GROSS	20 SF	No			36
218	CLASSROOM	695 SF	695 SF	No	GROSS	20 SF	No			35
219	CLASSROOM	708 SF	708 SF	No	GROSS	20 SF	No			36
220	CLASSROOM	704 SF	704 SF	No	GROSS	20 SF	No			36
221	CLASSROOM	711 SF	711 SF	No	GROSS	20 SF	No			36
Grand total: 112		55036 SF	54867 SF						1	2961

EGRESS TRAVEL DISTANCE

PATH	DISTANCE
A	143'-10"
B	162'-3"
C	103'-3"
D	152'-4"
E	99'-8"
F	146'-10"
G	108'-0"

BUILDING CODE DATA

APPLICABLE CODES:

2017 OBC (WITH UPDATES)
2017 NEC
2017 OMC
2017 OPC
2015 INTERNATIONAL FUEL CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2016 NFPA 72
2009 ANSI/ICC 117.1 FOR ACCESSIBLE DESIGN

DESCRIPTION

PROJECT CONSISTS OF THE RENOVATION OF AN EXISTING BUILDING. OCCUPANCY MIX OF THE EXISTING BUILDING DOES NOT CHANGE AS A RESULT OF THIS RENOVATION. THERE IS NO CHANGE TO EXISTING BUILDING HEIGHT OR AREA.

BUILDING OCCUPANCY CLASSIFICATION: E - EDUCATION (CURRENT AND EXISTING)

EXISTING USES: E, A (A-1 AND A-4), B AND S (NON-SEPARATED MIXED-USE)
PROPOSED USES: E, A (A-1 AND A-4), B AND S (NON-SEPARATED MIXED-USE)

STORIES: 1 STORY

EXISTING CONSTRUCTION TYPE: IIB (REMAINS UNCHANGED)

TRAVEL DISTANCE: 200 FEET
MAXIMUM COMMON PATH OF TRAVEL DISTANCE: 75 FEET

CORRIDOR RATING:

CORRIDOR WALLS REQUIRED TO CARRY 1-HOUR FIRE RESISTANCE RATING PER OBC 1020.1. NEW PENETRATIONS IN EXISTING CORRIDOR WALLS WILL PROVIDE REQUIRED OPENING PROTECTIVES PER 716.5. OPENINGS IN CORRIDOR WALLS CAUSED BY DEMOLITION ASSOCIATED WITH THIS SCOPE OF WORK WILL BE PATCHED OR REPLACED WITH A 1-HOUR FIRE RESISTANCE RATED ASSEMBLY MATCHING REQUIREMENTS LISTED ABOVE.

MIN. CORRIDOR WIDTH: 44" [Business Areas]
72" [All Other Areas]

FIRE ALARM: EXISTING FIRE ALARM TO REMAIN

PLUMBING FIXTURE COUNT:

THE BUILDING REMAINS UNCHANGED RELATIVE TO OCCUPANCY MIX.

CODE DATA KEY

BUILDING CODE UTILIZED: **OBC 2017 w/ UPDATES**

000 / 000 — EXIT CAPACITY / ACTUAL LOAD THRU EXIT

101 / Name / XXXX / XXXX — DESIGN OCCUPANT LOAD PER OBC TABLE 1004.1.2. OR MAXIMUM ANTICIPATED OCCUPANT LOAD; ACTUAL OCCUPANT LOAD - BASED ON ACTUAL OCCUPANTS IN EACH ROOM OR SPACE, USED TO DETERMINE PLUMBING FIXTURE REQUIREMENTS AS PERMITTED IN 2902.1 AND HVAC LOADS AS PERMITTED IN ASHRAE 62.1, TABLE 6-1.

CODE DATA PLAN WALL AND DOOR TAG KEY

FIRE RESISTANCE RATING (HRS) OR SMOKE (S) — 2-W
W = WALL
B = FIRE OR SMOKE BARRIER
P = FIRE OR SMOKE PARTITION

DOOR FIRE RESISTANCE RATING (MIN) OR SMOKE (S) — 90

TRAVEL DISTANCE PATH

CEILING RATING EQUAL TO BOUNDING WALL RATING TO CREATE CONTINUOUS RATED ENCLOSURE - WHERE WALLS DO NOT EXTEND TO DECK.

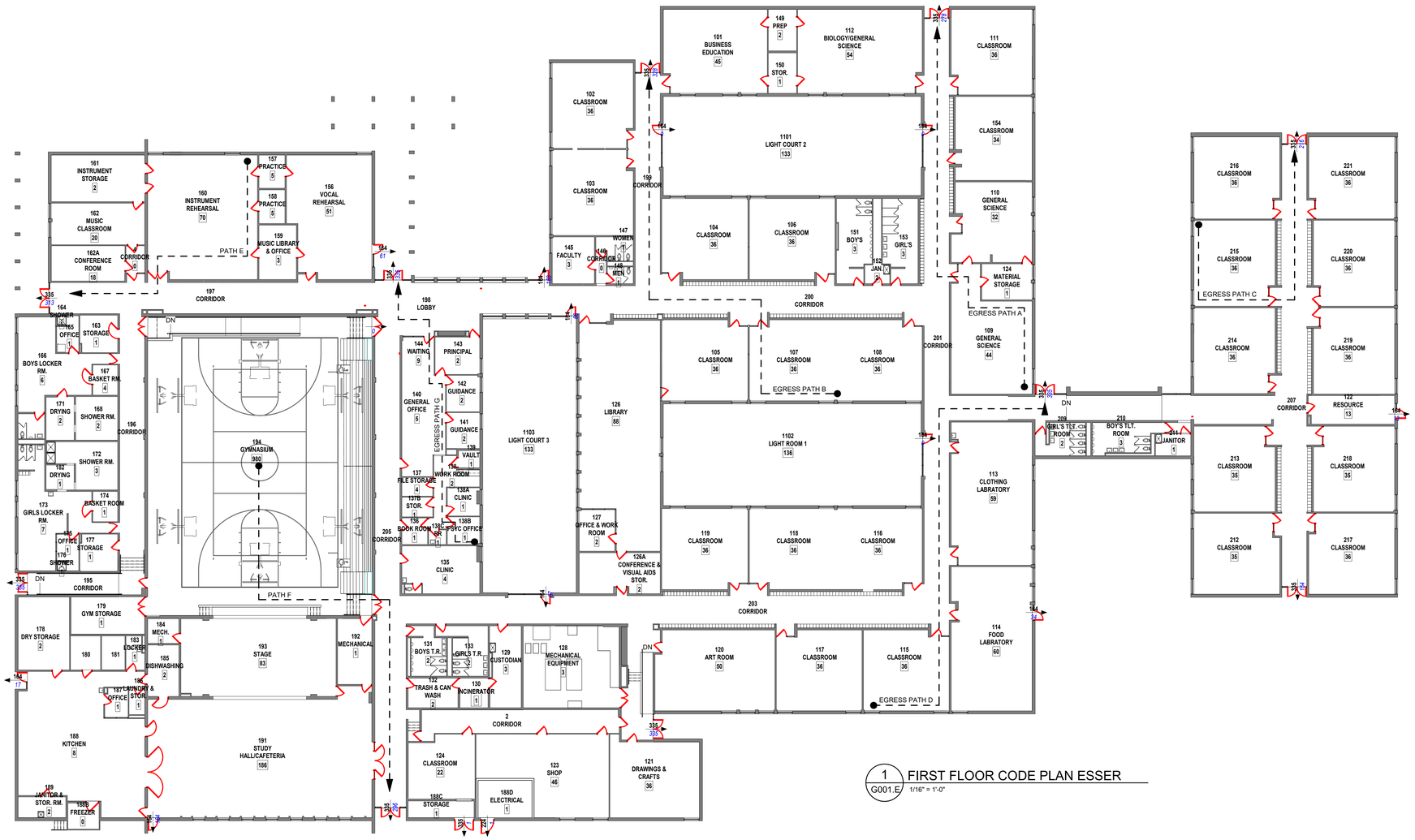
ENERGY CODE DATA [BUILDING ENVELOPE]

CODE: ASHRAE 90.1

THE PRESCRIPTIVE PATH HAS BEEN CHOSEN FOR BUILDING ENVELOPE COMPLIANCE. THE PROPOSED ALTERATIONS HAVE BEEN DESIGNED/SPECIFIED TO COMPLY WITH THE FOLLOWING PRESCRIPTIVE REQUIREMENTS.

GLAZING [METAL FRAMING]

REQUIRED: U-0.55, SGHC-0.40
SPECIFIED: U-0.35 MAXIMUM, SGHC-0.39 MAXIMUM



1 G001.E FIRST FLOOR CODE PLAN ESSER
1/16" = 1'-0"

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ISSUANCES

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CODE DATA SHEETS

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G001.E

"0.1" REFERENCE LINE"

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DEMOLITION PLAN LEGEND

- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- REMOVE EXISTING WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- REMOVE EXISTING DOOR (REMOVE EXISTING FRAME ONLY WHERE NOTED)

GENERAL NOTES - DEMOLITION PLAN - ESSER

A. REPAIR EXISTING SURFACES WHERE DEMOLITION HAS OCCURED FOR NEW CONSTRUCTION. CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR AND CEILING SURFACES AFFECTED BY DEMOLITION WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN MATERIAL, FINISH, TEXTURE, ETC. THIS WORK IS TO BE INCLUDED IN BASE BID AND IS NOT TO BE INCLUDED IN THE QUANTITY ALLOWANCE."

B. UNLESS DIRECTED BY OWNER, ALL MISCELLANEOUS ITEMS ATTACHED TO FLOORS, WALLS, OR CEILINGS ARE TO BE REMOVED THAT INTERFERE WITH INSTALLATION OR ALIGNMENT OF NEW WORK. THIS INCLUDES BUT NOT LIMITED TO: SHELVES, BRACKETS, POSTERS, PAINTINGS, ART OR OTHER DISPLAYS, PROJECTION SCREENS, AND VISUAL DISPLAY BOARDS.

C. OWNER WILL REMOVE ALL LOOSE FURNITURE/APPLIANCES IN ROOMS PRIOR TO THE COMMENCEMENT OF DEMOLITION.

D. AT ALL EXISTING SURFACES SCHEDULED TO RECEIVE A NEW PAINT FINISH REMOVE ANY EXISTING FASTENERS, BRACKETS, ETC. IN WALLS THAT ARE NOT BEING USED AND PATCH TO MATCH EXISTING ADJACENT SURFACES IN MATERIALS, FINISH, TEXTURE, ETC. PATCH CHIPPED PAINT SURFACES ON PLASTER WALLS TO MATCH ADJACENT SURFACE TEXTURE. SAND CHIPPED EDGES ON WOOD AND METAL SURFACES SMOOTH.

E. NOT ALL ROOM MATERIAL/FINISH DEMOLITION INDICATED. WHERE NEW MATERIAL/FINISH IS INDICATED IN ROOM FINISH SCHEDULE, REMOVE EXISTING MATERIALS/FINISH INCLUDING FLOOR AND BASE, ADHESIVES/MASTICS, FLOOR SEALERS AND CURING COMPOUNDS, AND FLOOR PAINT WHETHER OR NOT SHOWN TO BE REMOVED ON DEMOLITION FLOOR PLANS.

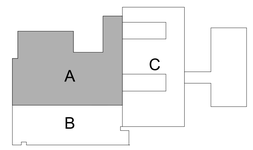
F. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED.

KEY NOTES - DEMOLITION PLANS

D3	REMOVE EXISTING STOREFRONT
D5	REMOVE EXISTING WINDOW
D6	REMOVE EXISTING UNIT VENTILATOR AND CASEWORK IN ROOM
D7	REMOVE EXISTING PLUMBING FIXTURES
D8	REMOVE ALL EXISTING TOILET ACCESSORIES, INCLUDING MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS, AND TOILET PAPER HOLDERS AND RETURN TO OWNER
D20	REMOVE EXISTING PORTION OF WALL TO ALLOW FOR NEW WINDOW. PROVIDE LINTEL AS NECESSARY FOR WINDOW.
D21	REMOVE PORTION OF WALL FOR NEW STOREFRONT
D24	REMOVE EXISTING CASEWORK IN ROOM



1 D101.E FIRST FLOOR DEMO PLAN - AREA A
1/8" = 1'-0"



KEY PLAN
NTS

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825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

ISSUANCES

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FIRST FLOOR DEMO PLAN - AREA A

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D101.E

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4/20/2022 12:30:49 PM

0"x1" REFERENCE LINE

DEMOLITION PLAN LEGEND

- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- REMOVE EXISTING WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- REMOVE EXISTING DOOR (REMOVE EXISTING FRAME ONLY WHERE NOTED)

GENERAL NOTES - DEMOLITION PLAN - ESSER

A. REPAIR EXISTING SURFACES WHERE DEMOLITION HAS OCCURED FOR NEW CONSTRUCTION. CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR AND CEILING SURFACES AFFECTED BY DEMOLITION WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN MATERIAL, FINISH, TEXTURE, ETC. THIS WORK IS TO BE INCLUDED IN BASE BID AND IS NOT TO BE INCLUDED IN THE QUANTITY ALLOWANCE."

B. UNLESS DIRECTED BY OWNER, ALL MISCELLANEOUS ITEMS ATTACHED TO FLOORS, WALLS, OR CEILINGS ARE TO BE REMOVED THAT INTERFERE WITH INSTALLATION OR ALIGNMENT OF NEW WORK. THIS INCLUDES BUT NOT LIMITED TO: SHELVES, BRACKETS, POSTERS, PAINTINGS, ART OR OTHER DISPLAYS, PROJECTION SCREENS, AND VISUAL DISPLAY BOARDS.

C. OWNER WILL REMOVE ALL LOOSE FURNITURE/APPLIANCES IN ROOMS PRIOR TO THE COMMENCEMENT OF DEMOLITION.

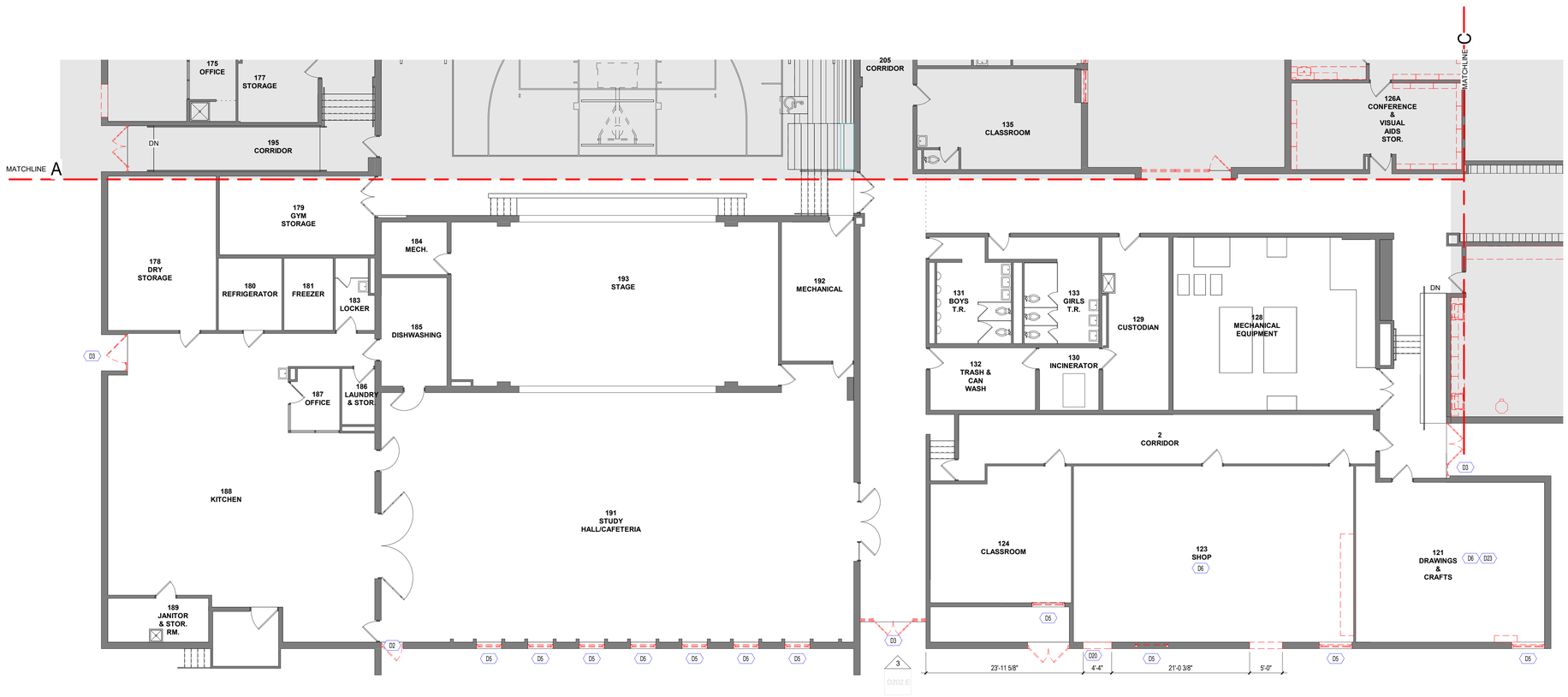
D. AT ALL EXISTING SURFACES SCHEDULED TO RECEIVE A NEW PAINT FINISH REMOVE ANY EXISTING FASTENERS, BRACKETS, ETC. IN WALLS THAT ARE NOT BEING USED AND PATCH TO MATCH EXISTING ADJACENT SURFACES IN MATERIALS, FINISH, TEXTURE, ETC. PATCH CHIPPED PAINT SURFACES ON PLASTER WALLS TO MATCH ADJACENT SURFACE TEXTURE. SAND CHIPPED EDGES ON WOOD AND METAL SURFACES SMOOTH.

E. NOT ALL ROOM MATERIAL/FINISH DEMOLITION INDICATED. WHERE NEW MATERIAL/FINISH IS INDICATED IN ROOM FINISH SCHEDULE, REMOVE EXISTING MATERIALS/FINISH INCLUDING FLOOR AND BASE, ADHESIVES/MASTICS, FLOOR SEALERS AND CURING COMPOUNDS, AND FLOOR PAINT WHETHER OR NOT SHOWN TO BE REMOVED ON DEMOLITION FLOOR PLANS.

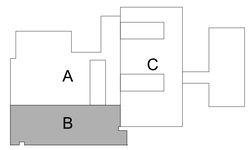
F. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED.

KEY NOTES - DEMOLITION PLANS

D2	REMOVE EXISTING DOOR, FRAME, AND ASSOCIATED HARDWARE. TYP.
D3	REMOVE EXISTING STOREFRONT
D5	REMOVE EXISTING WINDOW
D6	REMOVE EXISTING UNIT VENTILATOR AND CASEWORK IN ROOM
D20	REMOVE EXISTING PORTION OF WALL TO ALLOW FOR NEW WINDOW. PROVIDE LINTEL AS NECESSARY FOR WINDOW.
D23	REMOVE EXISTING WALL MOUNTED TELEVISION, ASSOCIATED HARDWARE, AND WIRING



1 D102.E FIRST FLOOR DEMO PLAN - AREA B
1/8" = 1'-0"



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ISSUANCES

03-31-22	BID / PERMIT

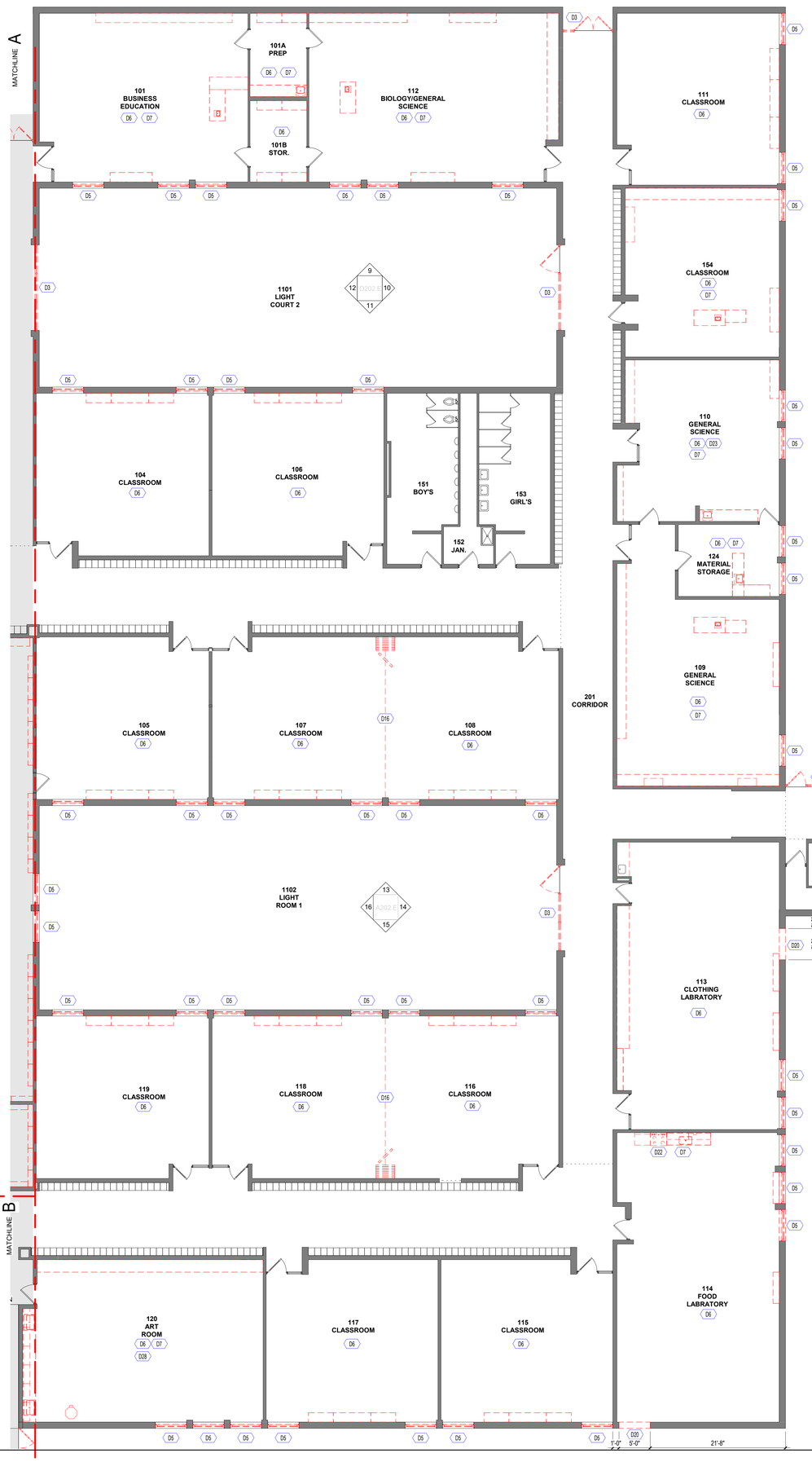
FIRST FLOOR DEMO PLAN - AREA B

COMM NO. 2021091.02

D102.E

"1" REFERENCE LINE

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DEMOLITION PLAN LEGEND

- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- REMOVE EXISTING WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- REMOVE EXISTING DOOR (REMOVE EXISTING FRAME ONLY WHERE NOTED)

GENERAL NOTES - DEMOLITION PLAN - ESSER

A. REPAIR EXISTING SURFACES WHERE DEMOLITION HAS OCCURED FOR NEW CONSTRUCTION. CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR AND CEILING SURFACES AFFECTED BY DEMOLITION WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN MATERIAL, FINISH, TEXTURE, ETC. THIS WORK IS TO BE INCLUDED IN BASE BID AND IS NOT TO BE INCLUDED IN THE QUANTITY ALLOWANCE.*

B. UNLESS DIRECTED BY OWNER, ALL MISCELLANEOUS ITEMS ATTACHED TO FLOORS, WALLS, OR CEILINGS ARE TO BE REMOVED THAT INTERFERE WITH INSTALLATION OR ALIGNMENT OF NEW WORK. THIS INCLUDES BUT NOT LIMITED TO: SHELVES, BRACKETS, POSTERS, PAINTINGS, ART OR OTHER DISPLAYS, PROJECTION SCREENS, AND VISUAL DISPLAY BOARDS.

C. OWNER WILL REMOVE ALL LOOSE FURNITURE/APPLIANCES IN ROOMS PRIOR TO THE COMMENCEMENT OF DEMOLITION.

D. AT ALL EXISTING SURFACES SCHEDULED TO RECEIVE A NEW PAINT FINISH REMOVE ANY EXISTING FASTENERS, BRACKETS, ETC. IN WALLS THAT ARE NOT BEING USED AND PATCH TO MATCH EXISTING ADJACENT SURFACES IN MATERIALS, FINISH, TEXTURE, ETC. PATCH CHIPPED PAINT SURFACES ON PLASTER WALLS TO MATCH ADJACENT SURFACE TEXTURE. SAND CHIPPED EDGES ON WOOD AND METAL SURFACES SMOOTH.

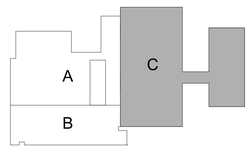
E. NOT ALL ROOM MATERIAL/FINISH DEMOLITION INDICATED. WHERE NEW MATERIAL/FINISH IS INDICATED IN ROOM FINISH SCHEDULE, REMOVE EXISTING MATERIALS/FINISH INCLUDING FLOOR AND BASE, ADHESIVES/MASTICS, FLOOR SEALERS AND CURING COMPOUNDS, AND FLOOR PAINT WHETHER OR NOT SHOWN TO BE REMOVED ON DEMOLITION FLOOR PLANS.

F. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED.

KEY NOTES - DEMOLITION PLANS

D3	REMOVE EXISTING STOREFRONT
D5	REMOVE EXISTING WINDOW
D6	REMOVE EXISTING UNIT VENTILATOR AND CASEWORK IN ROOM
D7	REMOVE EXISTING PLUMBING FIXTURES
D16	REMOVE EXISTING OPERABLE PARTITION
D20	REMOVE EXISTING PORTION OF WALL TO ALLOW FOR NEW WINDOW. PROVIDE LINTEL AS NECESSARY FOR WINDOW.
D22	REMOVE EXISTING OVEN
D23	REMOVE EXISTING WALL MOUNTED TELEVISION, ASSOCIATED HARDWARE, AND WIRING
D27	REMOVE EXISTING WINDOW AND PORTION OF WALL TO ALLOW FOR NEW DOOR. PROVIDE LINTEL AS REQUIRED FOR NEW DOOR.
D28	REMOVE EXISTING KILN

1 D103.E FIRST FLOOR DEMO PLAN - AREA C
1/8" = 1'-0"



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ISSUANCES

03-31-22	BID / PERMIT

FIRST FLOOR DEMO PLAN - AREA C

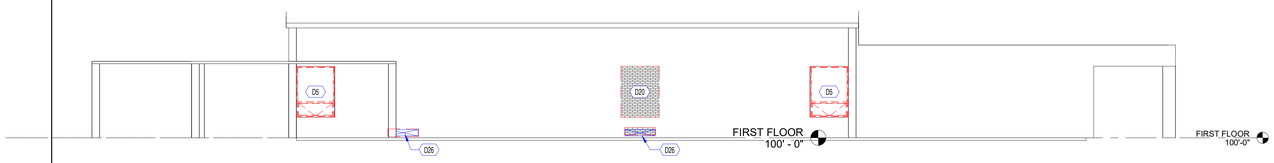
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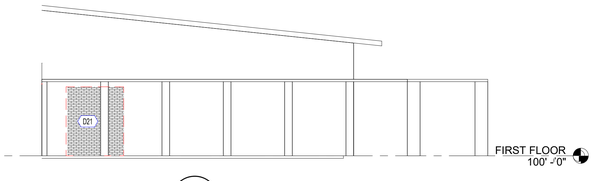
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KEY NOTES - DEMOLITION PLANS

D3	REMOVE EXISTING STOREFRONT
D5	REMOVE EXISTING WINDOW
D20	REMOVE EXISTING PORTION OF WALL TO ALLOW FOR NEW WINDOW. PROVIDE LINTEL AS NECESSARY FOR WINDOW.
D21	REMOVE PORTION OF WALL FOR NEW STOREFRONT
D26	REMOVE EXISTING PORTION OF WALL AS NECESSARY TO ALLOW FOR NEW UNIT VENTILATOR INTAKE. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
D27	REMOVE EXISTING WINDOW AND PORTION OF WALL TO ALLOW FOR NEW DOOR. PROVIDE LINTEL AS REQUIRED FOR NEW DOOR.
D29	EXISTING LOUVER TO REMAIN



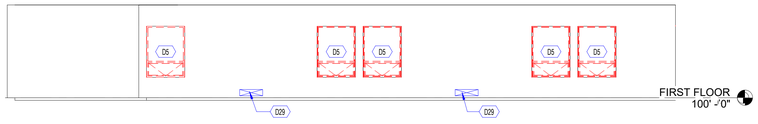
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1/8" = 1'-0"



2 D201.E EAST ELEVATION - ENTRY
1/8" = 1'-0"



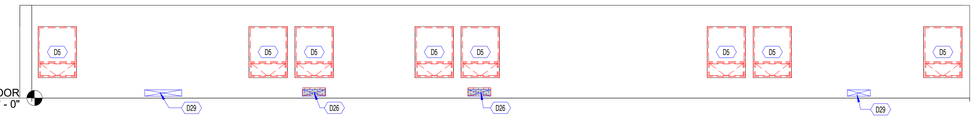
3 D201.E NORTH ELEVATION B
1/8" = 1'-0"



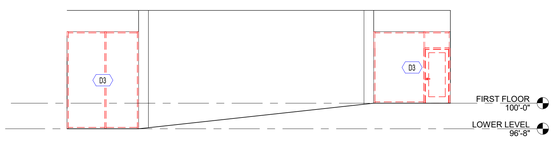
4 D201.E WEST ELEVATION - ENTRY
1/8" = 1'-0"



5 D201.E NORTH ELEVATION C
1/8" = 1'-0"



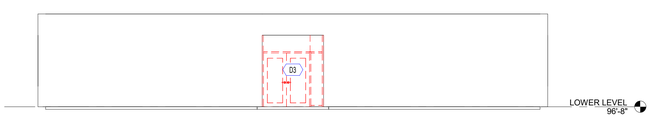
6 D201.E EAST ELEVATION A
1/8" = 1'-0"



7 D201.E NORTH ELEVATION D
1/8" = 1'-0"



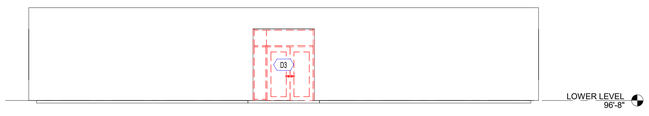
8 D201.E WEST ELEVATION A
1/8" = 1'-0"



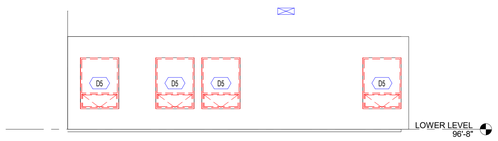
9 D201.E NORTH ELEVATION E
1/8" = 1'-0"



10 D201.E EAST ELEVATION B
1/8" = 1'-0"



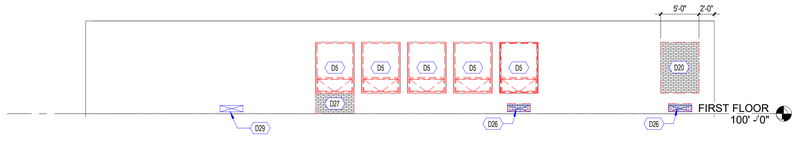
11 D201.E SOUTH ELEVATION A
1/8" = 1'-0"



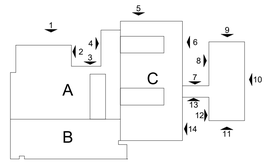
12 D201.E WEST ELEVATION B
1/8" = 1'-0"



13 D201.E SOUTH ELEVATION B
1/8" = 1'-0"



14 D201.E EAST ELEVATION C
1/8" = 1'-0"



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"1" REFERENCE LINE

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DEMO EXTERIOR ELEVATIONS

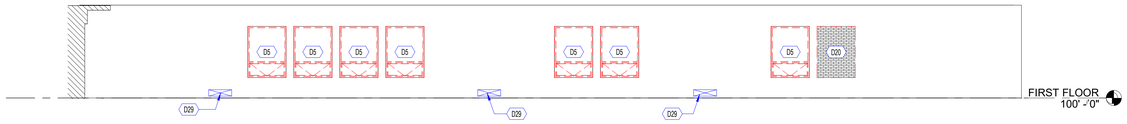
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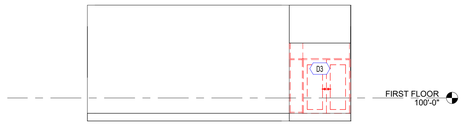
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KEY NOTES - DEMOLITION PLANS

D2	REMOVE EXISTING DOOR, FRAME, AND ASSOCIATED HARDWARE. TYP.
D3	REMOVE EXISTING STOREFRONT
D5	REMOVE EXISTING WINDOW
D20	REMOVE EXISTING PORTION OF WALL TO ALLOW FOR NEW WINDOW. PROVIDE LINTEL AS NECESSARY FOR WINDOW.
D26	REMOVE EXISTING PORTION OF WALL AS NECESSARY TO ALLOW FOR NEW UNIT VENTILATOR INTAKE. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
D27	REMOVE EXISTING WINDOW AND PORTION OF WALL TO ALLOW FOR NEW DOOR. PROVIDE LINTEL AS REQUIRED FOR NEW DOOR.
D29	EXISTING LOUVER TO REMAIN



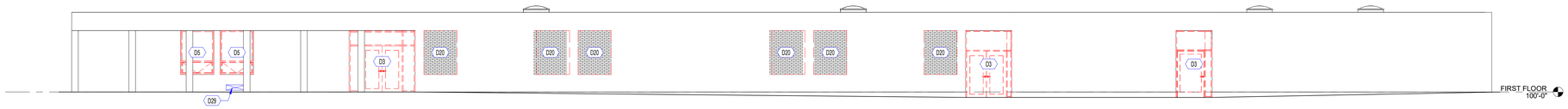
1 D202.E SOUTH ELEVATION C
1/8" = 1'-0"



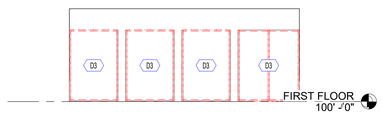
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1/8" = 1'-0"



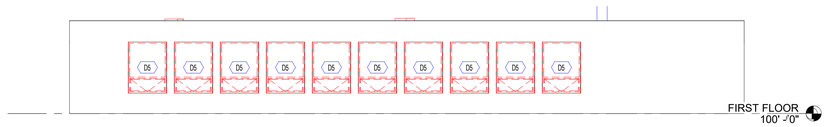
3 D202.E SOUTH ELEVATION D
1/8" = 1'-0"



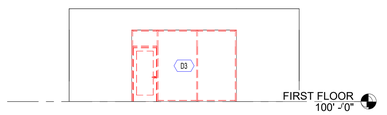
4 D202.E WEST ELEVATION C
1/8" = 1'-0"



5 D202.E SOUTH ELEVATION - LIGHT COURT 3
1/8" = 1'-0"



6 D202.E WEST ELEVATION - LIGHT COURT 3
1/8" = 1'-0"



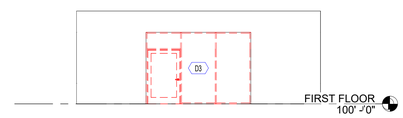
7 D202.E NORTH ELEVATION - LIGHT COURT 3
1/8" = 1'-0"



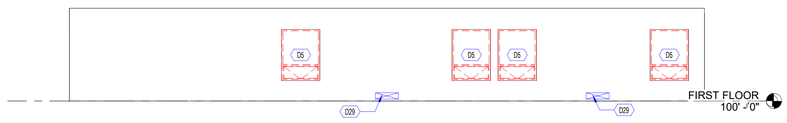
8 D202.E EAST ELEVATION - LIGHT COURT 3
1/8" = 1'-0"



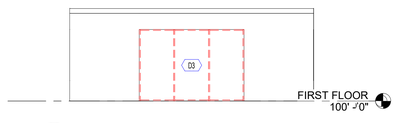
9 D202.E SOUTH ELEVATION - LIGHT COURT 2
1/8" = 1'-0"



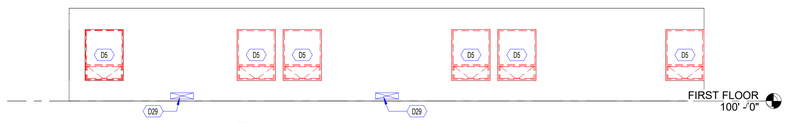
10 D202.E WEST ELEVATION - LIGHT COURT 2
1/8" = 1'-0"



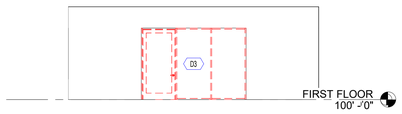
11 D202.E NORTH ELEVATION - LIGHT COURT 2
1/8" = 1'-0"



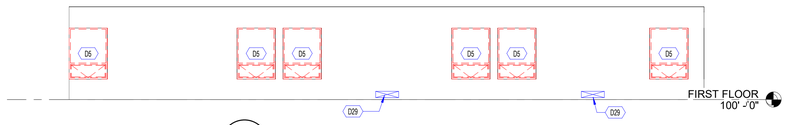
12 D202.E EAST ELEVATION - LIGHT COURT 2
1/8" = 1'-0"



13 D202.E SOUTH ELEVATION - LIGHT COURT 1
1/8" = 1'-0"



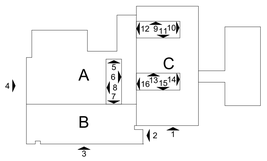
14 D202.E WEST ELEVATION - LIGHT COURT 1
1/8" = 1'-0"



15 D202.E NORTH ELEVATION - LIGHT COURT 1
1/8" = 1'-0"



16 D202.E EAST ELEVATION - LIGHT COURT 1
1/8" = 1'-0"



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"0'-1" REFERENCE LINE"

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DEMOLITION PLAN LEGEND

- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- REMOVE EXISTING WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- REMOVE EXISTING DOOR (REMOVE EXISTING FRAME ONLY WHERE NOTED)

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C. OWNER WILL REMOVE ALL LOOSE FURNITURE/APPLIANCES IN ROOMS PRIOR TO THE COMMENCEMENT OF DEMOLITION.

D. AT ALL EXISTING SURFACES SCHEDULED TO RECEIVE A NEW PAINT FINISH REMOVE ANY EXISTING FASTENERS, BRACKETS, ETC. IN WALLS THAT ARE NOT BEING USED AND PATCH TO MATCH EXISTING ADJACENT SURFACES IN MATERIALS, FINISH, TEXTURE, ETC. PATCH CHIPPED PAINT SURFACES ON PLASTER WALLS TO MATCH ADJACENT SURFACE TEXTURE. SAND CHIPPED EDGES ON WOOD AND METAL SURFACES SMOOTH.

E. NOT ALL ROOM MATERIAL/FINISH DEMOLITION INDICATED. WHERE NEW MATERIAL/FINISH IS INDICATED IN ROOM FINISH SCHEDULE, REMOVE EXISTING MATERIALS/FINISH INCLUDING FLOOR AND BASE, ADHESIVES/MASTICS, FLOOR SEALERS AND CURING COMPOUNDS, AND FLOOR PAINT WHETHER OR NOT SHOWN TO BE REMOVED ON DEMOLITION FLOOR PLANS.

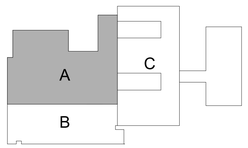
F. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED.

KEY NOTES - DEMOLITION PLANS

D13	REMOVE EXISTING CEILING SYSTEM
D14	REMOVE EXISTING LIGHT FIXTURES
D17	REMOVE EXISTING CEILING MOUNTED PROJECTOR AND ASSOCIATED HARDWARE AND RETURN TO OWNER
D18	REMOVE EXISTING CEILING MOUNTED FAN(S)



1 D401.E FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"



KEY PLAN
NTS

0'-1" REFERENCE LINE

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513.381.2112

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EARLY CHILDOOD RENOVATION
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

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ISSUANCES

03-31-22	BID / PERMIT

FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA A

COMM NO. 2021091.02

D401.E

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DEMOLITION PLAN LEGEND

- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- REMOVE EXISTING WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- REMOVE EXISTING DOOR (REMOVE EXISTING FRAME ONLY WHERE NOTED)

GENERAL NOTES - DEMOLITION PLAN - ESSER

A. REPAIR EXISTING SURFACES WHERE DEMOLITION HAS OCCURED FOR NEW CONSTRUCTION. CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR AND CEILING SURFACES AFFECTED BY DEMOLITION WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN MATERIAL, FINISH, TEXTURE, ETC. THIS WORK IS TO BE INCLUDED IN BASE BID AND IS NOT TO BE INCLUDED IN THE QUANTITY ALLOWANCE."

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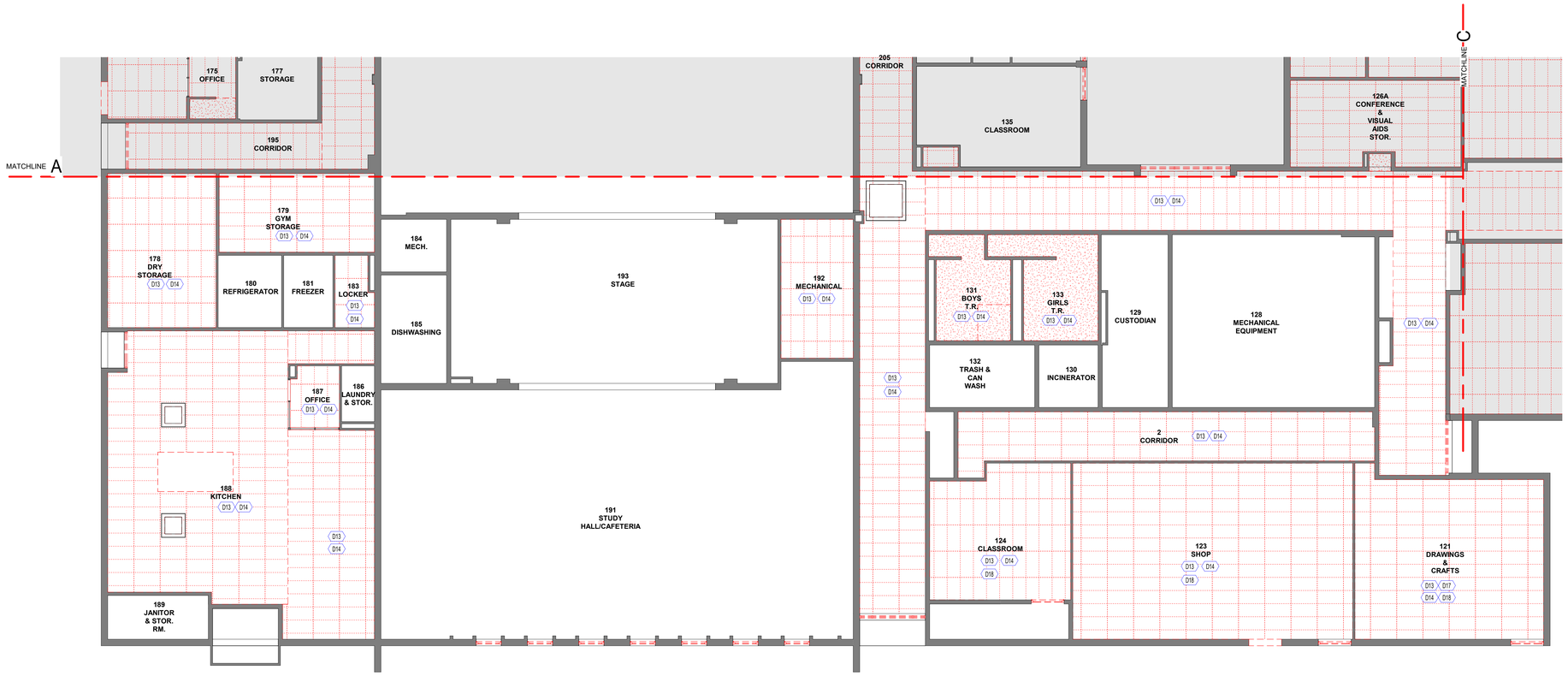
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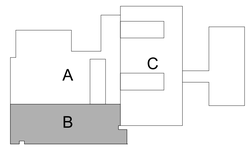
F. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED.

KEY NOTES - DEMOLITION PLANS

D13 REMOVE EXISTING CEILING SYSTEM
D14 REMOVE EXISTING LIGHT FIXTURES
D17 REMOVE EXISTING CEILING MOUNTED PROJECTOR AND ASSOCIATED HARDWARE AND RETURN TO OWNER
D18 REMOVE EXISTING CEILING MOUNTED FAN(S)



1 D402.E FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA B
1/8" = 1'-0"



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ISSUANCES

03-31-22	BID / PERMIT

FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA B

COMM NO. 2021091.02

D402.E

0"-1" REFERENCE LINE

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1 D403.E FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA C
1/8" = 1'-0"

DEMOLITION PLAN LEGEND

- NO WORK THIS AREA
- EXISTING WALL/PARTITION TO REMAIN
- REMOVE EXISTING WALL/PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- REMOVE EXISTING DOOR (REMOVE EXISTING FRAME ONLY WHERE NOTED)

GENERAL NOTES - DEMOLITION PLAN - ESSER

A. REPAIR EXISTING SURFACES WHERE DEMOLITION HAS OCCURED FOR NEW CONSTRUCTION. CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR AND CEILING SURFACES AFFECTED BY DEMOLITION WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN MATERIAL, FINISH, TEXTURE, ETC. THIS WORK IS TO BE INCLUDED IN BASE BID AND IS NOT TO BE INCLUDED IN THE QUANTITY ALLOWANCE.*

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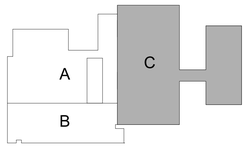
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KEY NOTES - DEMOLITION PLANS

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D18 REMOVE EXISTING CEILING MOUNTED FAN(S)



KEY PLAN
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ISSUANCES

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FIRST FLOOR DEMO REFLECTED CEILING PLAN - AREA C

COMM NO. 2021091.02

D403.E

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0'-1" REFERENCE LINE

DOOR AND FRAME SCHEDULE ESSER

#	DOOR # OF LEAFS	DOOR WIDTH	DOOR HEIGHT	DOOR THK	DOOR TYPE	DOOR MATL	DOOR FINISH	DOOR GLASS	FRAME DEPTH	FRAME TYPE	FRAME E-FRAME	FRAME MATL	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME SILL	SIDELITE WIDTH	RATING (MINUTES)	ACCESS CONTROL	HDWR SET	NOTES	DOOR #
156	1	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S18	-	AL	PF	-	-	-			-	04		156
188	1	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S9	-	AL	PF	-	-	-			●	02		188
188C	2	3'-0"	7'-0"	1 3/4"	F	HM	PT	-	5 3/4"	3	-	HM	PT-1	-	-	-			-	05		188C
188D	1	4'-0"	7'-0"	1 3/4"	F	HM	PT	-	5 3/4"	2	-	HM	PT-1	H-4	J-4	-			-	06		188D
191	1	3'-0"	7'-0"	1 3/4"	F	HM	PT	-	5 3/4"	2	-	HM	PT-1	-	-	-			-	06		191
195	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S10	-	AL	PF	-	-	-			●	01		195
197	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S24	-	AL	PF	-	-	-			●	01		197
198A	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S11	-	AL	PF	-	-	-			●	01		198A
199A	1	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S23	-	AL	PF	-	-	-			-	04		199A
199B	1	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S14	-	AL	PF	-	-	-			-	04		199B
199C	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S17	-	AL	PF	H-2	J-2	S-2			-	03		199C
199D	1	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S7	-	AL	PF	-	-	-			-	04		199D
201A	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S2	-	AL	PF	-	-	-			-	03		201A
201B	1	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S6	-	AL	PF	-	-	-			-	04		201B
201D	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S3	-	AL	PF	-	-	-			-	03		201D
201E	1	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S8	-	AL	PF	-	-	-			-	04		201E
203A	1	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S15	-	AL	PF	-	-	-			-	04		203A
203B	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S16	-	AL	PF	-	-	-			-	03		203B
203C	1	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S19	-	AL	PF	-	-	-			-	04		203C
205	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S22	-	AL	PF	-	-	-			-	03		205
207A	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S4	-	AL	PF	-	-	-			●	01		207A
207B	1	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S20	-	AL	PF	-	-	-			●	02		207B
207C	2	3'-0"	7'-0"	1 3/4"	FG	ALUM	PF	IG-1	4 1/2"	S5	-	AL	PF	-	-	-			●	01		207C

GENERAL NOTES - LINTELS

SEE LINTEL SCHEDULE SHEET FOR LINTEL SHAPE CONFIGURATIONS

HOT-DIP GALVANIZE ALL EXTERIOR WALL LINTELS AFTER FABRICATION (ALL BRICK ANGLES AND BEAMS WITH PLATES)

GROUT SOLID UNDER ALL LINTEL BEARINGS. GROUT TO EXTEND FULL LENGTH OF BEARING & A MINIMUM OF (3) COURSES (24") VERTICALLY BELOW EACH BEARING POINT.

FIELD PAINT ALL EXPOSED LINTELS. COLOR AS SELECTED BY ARCHITECT

PROVIDE CONTINUOUS PAINTABLE SEALANT BEAD BETWEEN EDGE OF STEEL AND SUPPORTED MASONRY

L-1 2L'S 5 X 3 1/2 X 3/8 AND L5 X 3 1/2 X 3/8 8" BRG

L-2 2L'S 4 X 3 1/2 X 5/16 AND L4 X 3 1/2" X 5/16 6" BRG

REVIEWED BY:
DOUG CRAWFORD
GOP LIMITED
APRIL 14, 2022

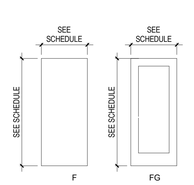
OPENING SCHEDULE ABBREVIATIONS

AL	ALUMINUM
HM	HOLLOW METAL
PF	PREFINISHED
PT	PAINT
SS	STAINLESS STEEL
STL	STEEL
WD	WOOD

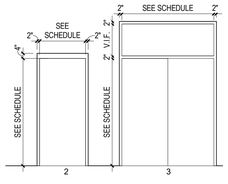
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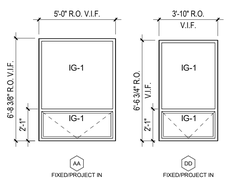
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DOOR TYPES



FRAME TYPES



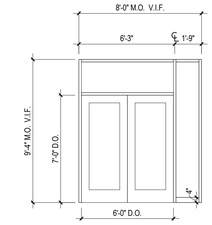
WINDOW TYPES

LOUVER SCHEDULE

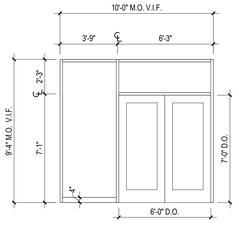
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L14	3'-0"	1'-0"	



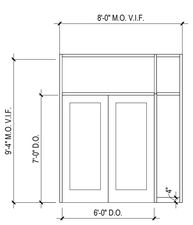
LOUVER TYPES



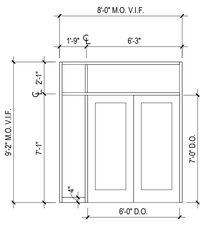
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GLAZING TYPE UNO: IG-1



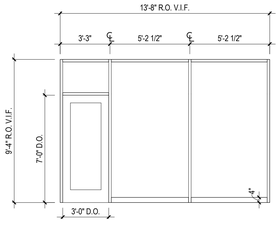
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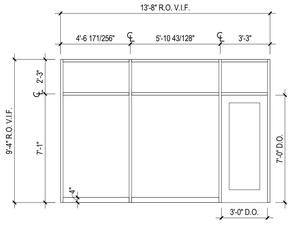
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GLAZING TYPE UNO: IG-1



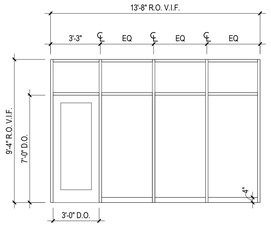
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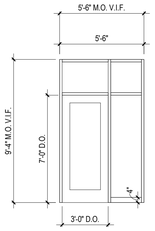
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FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



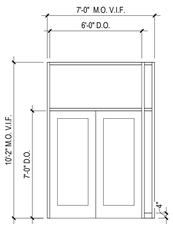
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FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



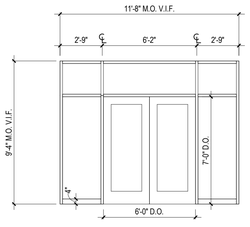
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FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



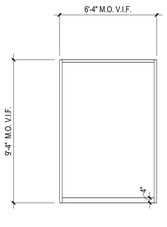
S8
FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



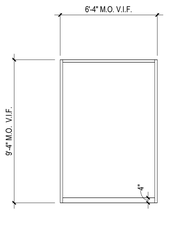
S9
FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



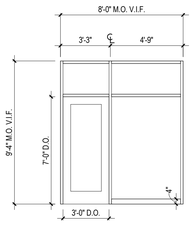
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FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



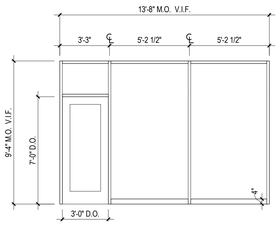
S11
FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



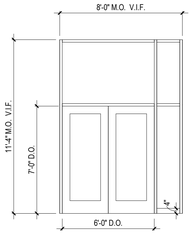
S12
FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



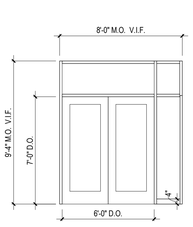
S13
FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



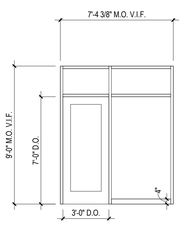
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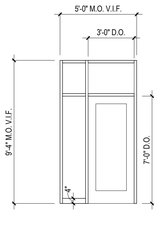
S15
FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



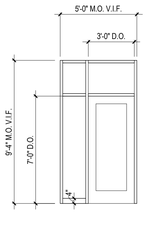
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FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



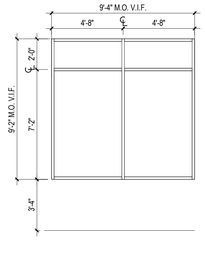
S17
FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



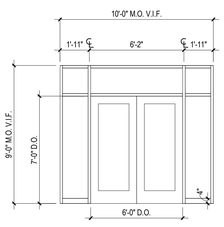
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FRAMING MEMBERS: 2" x 4 1/2"
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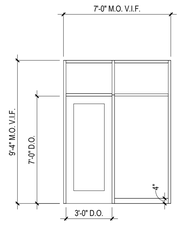
S19
FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



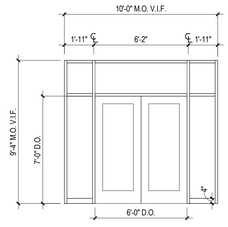
S20
FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



S21
FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



S22
FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1



S23
FRAMING MEMBERS: 2" x 4 1/2"
GLAZING TYPE UNO: IG-1

STOREFRONT TYPES

WINTON WOODS CITY SCHOOLS
EARLY CHILDHOOD RENOVATION
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

WINTON WOODS CITY SCHOOLS
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OH 45240

ISSUANCES

03-31-22	BID / PERMIT

OPENING TYPES AND STOREFRONT

COMM NO. 2021091.02

A010.E

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"1" REFERENCE LINE

GENERAL NOTES - ACCESS CONTROL

A. INFORMATION SHOWN ON ACCESS CONTROL PLANS INTENDED TO DESCRIBE AND COORDINATE OPERATION OF BUILDING ACCESS - REFER TO HARDWARE SCHEDULE FOR COMPLETE HARDWARE SET CONTENTS (INCLUDING QUANTITIES) AT EACH OPENING.

B. COORDINATE FINAL KNOX BOX QUANTITY AND LOCATION WITH LOCAL JURISDICTION PRIOR TO INSTALLATION.

C. ALL KNOX BOXES TO BE RECESSED IN EXTERIOR WALL AT COORDINATED LOCATIONS. KNOX BOX TO BE INSTALLED AT 40" ABOVE FINISHED PAVEMENT.

ACCESS CONTROL LEGEND

AO	AUTO OPERATOR
AOA	AUTOMATIC OPERATOR ACTUATOR
CR	CREDENTIAL READER
DPS	DOOR POSITION SWITCH
EFR	E-FRAME
EL	ELECTRIC LOCK/UNLOCK
ELR	ELECTRIC LATCH RETRACTION
EPT	ELECTRIC POWER TRANSFER
ES	ELECTRIC STRIKE
FHO	FIRE ALARM HOLD OPEN
ICPR	INTERCOM STATION W/ PROXIMITY CARD READER
KB	KNOX BOX
KP	KEYPAD
LBM	LATCH BOLT MONITOR
MHO	MAGNETIC HOLD OPEN
PK	DUAL KEYPAD & PROXIMITY CARD READER
PS	POWER SUPPLY
RX	REQUEST TO EXIT



1 A011.E FIRST FLOOR ACCESS CONTROL - ESSER
1/16" = 1'-0"

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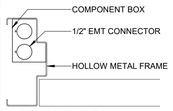
ACCESS CONTROL

COMM NO. 2021091.02

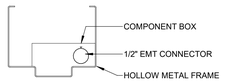
A011.E

0'-1" REFERENCE LINE

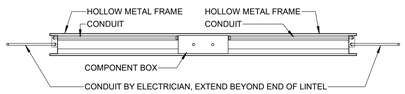
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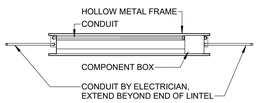
COMPONENT BOX SECTION @ JAMB



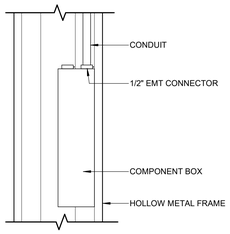
COMPONENT BOX SECTION @ HEAD



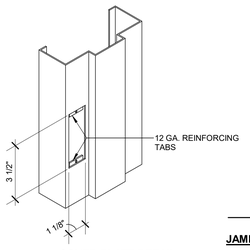
DOUBLE DOOR PLAN



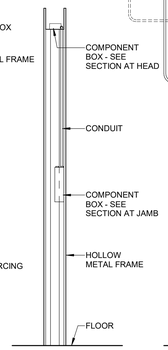
SINGLE DOOR PLAN



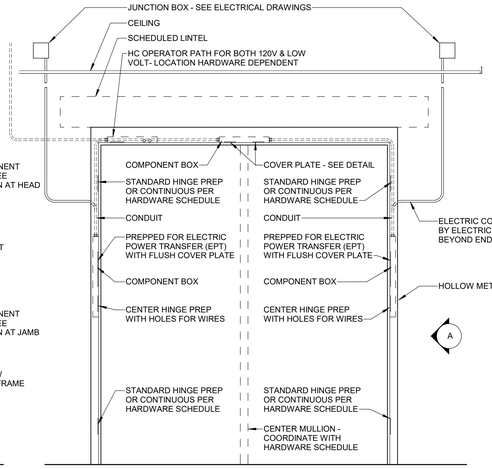
COMPONENT BOX ELEVATION



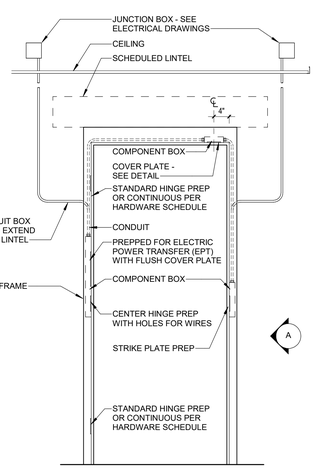
COVER PLATE DETAIL



JAMB ELEVATION A



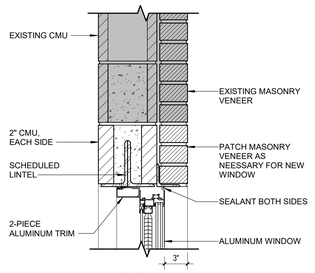
DOUBLE DOOR ELEVATION



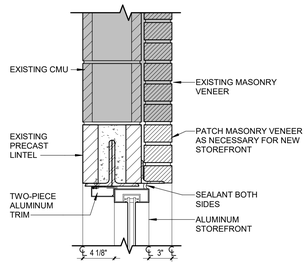
SINGLE DOOR ELEVATION

E-FRAME DETAILS

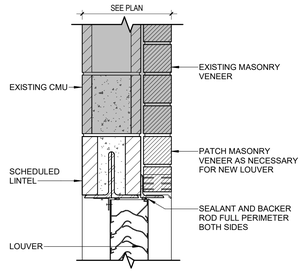
NTS



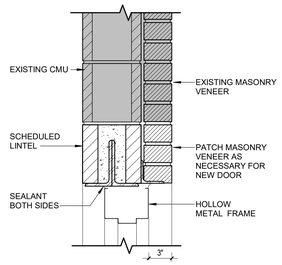
H-1



H-2

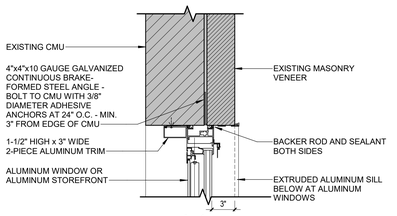


H-3

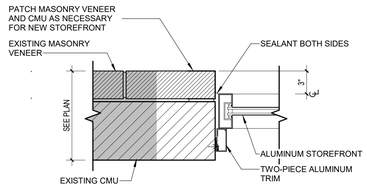


H-4

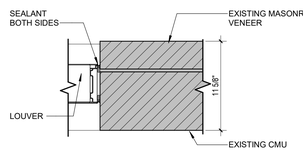
HEAD DETAILS



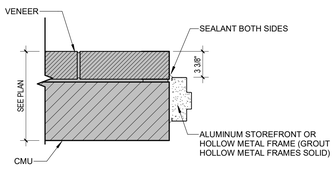
J-1



J-2

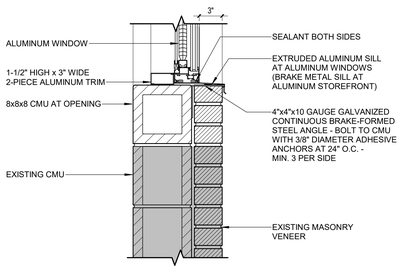


J-3

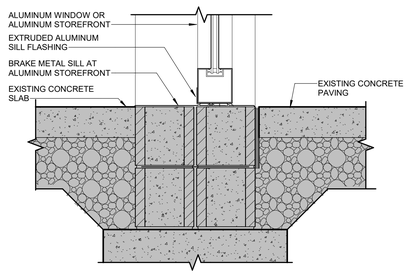


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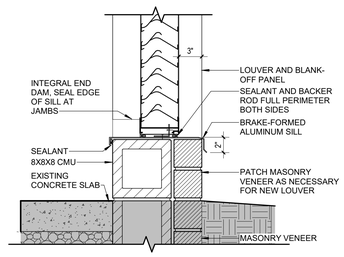
JAMB DETAILS



S-1



S-2



S-3

SILL DETAILS

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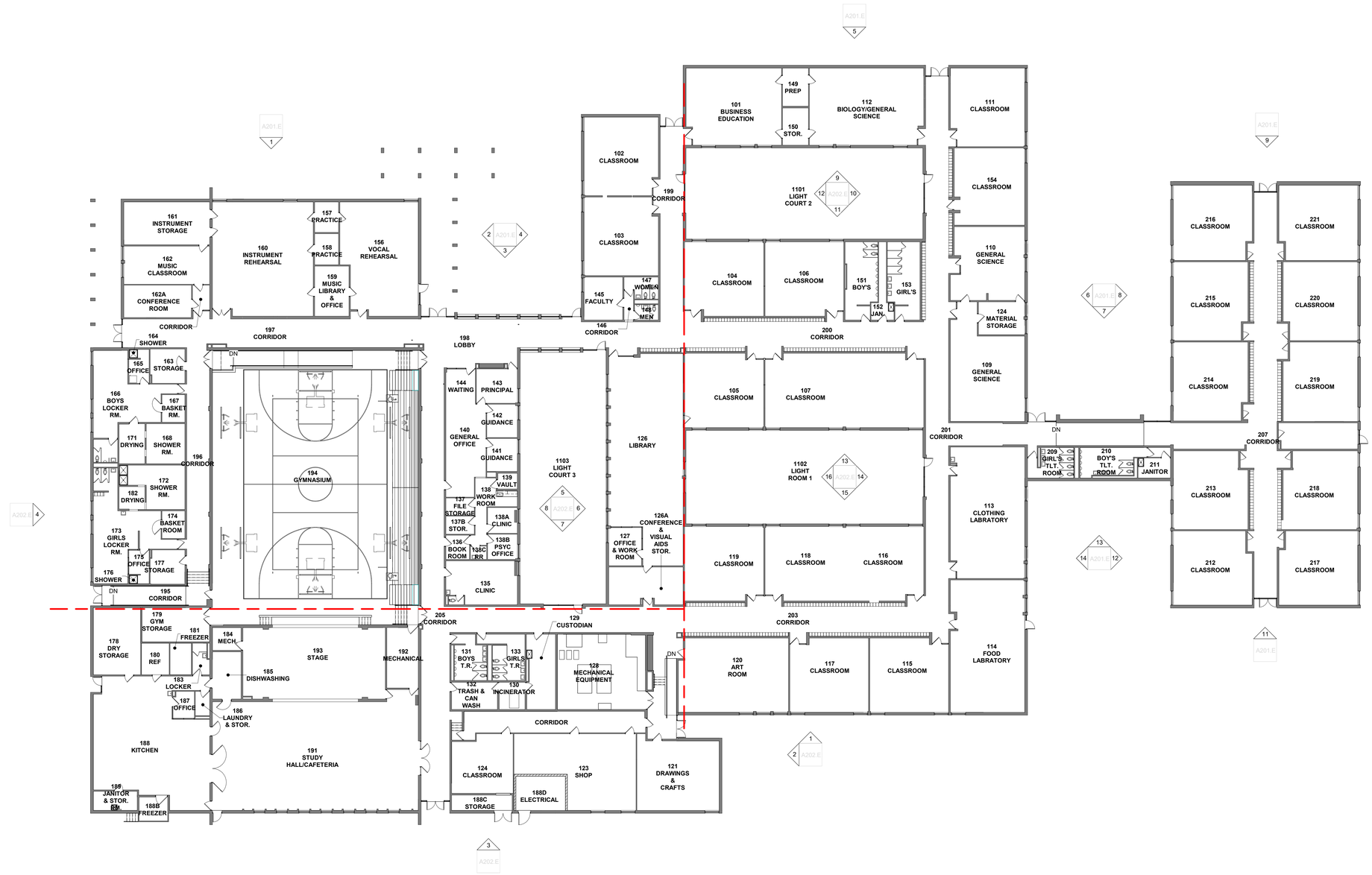
E-FRAME DETAILS, HEAD, JAMB, AND SILL DETAILS

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A031.E

0'-1" REFERENCE LINE

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1 FIRST FLOOR OVERALL FLOOR PLAN
A051.E 1/16" = 1'-0"

0'-1" REFERENCE LINE

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OVERALL FIRST FLOOR PLAN

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GENERAL NOTES - FLOOR PLAN

A. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.

B. ALL PARTITIONS TYPE M1 UNLESS NOTED OTHERWISE.

KEY NOTES - FLOOR PLANS

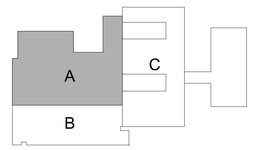
A1 LINTEL L-1. 2L'S 5 X 3 1/2 X 3/8 AND L5 X 3 1/2 X 3/8 WITH 8" BRG. SEE SHEET A010.E AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

A2 LINTEL L-2. 2L'S 4 X 3 1/2 X 5/16 AND L4 X 3 1/2" X 5/16 WITH 6" BRG. SEE SHEET A010.E AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

A3 UNIT VENTILATOR. SEE MECHANICAL DRAWINGS FOR FURTHER DETAILS



1 A101.E FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"



KEY PLAN
NTS

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FIRST FLOOR PLAN - AREA A

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0'-1" REFERENCE LINE

GENERAL NOTES - FLOOR PLAN

A. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.

B. ALL PARTITIONS TYPE M1 UNLESS NOTED OTHERWISE.

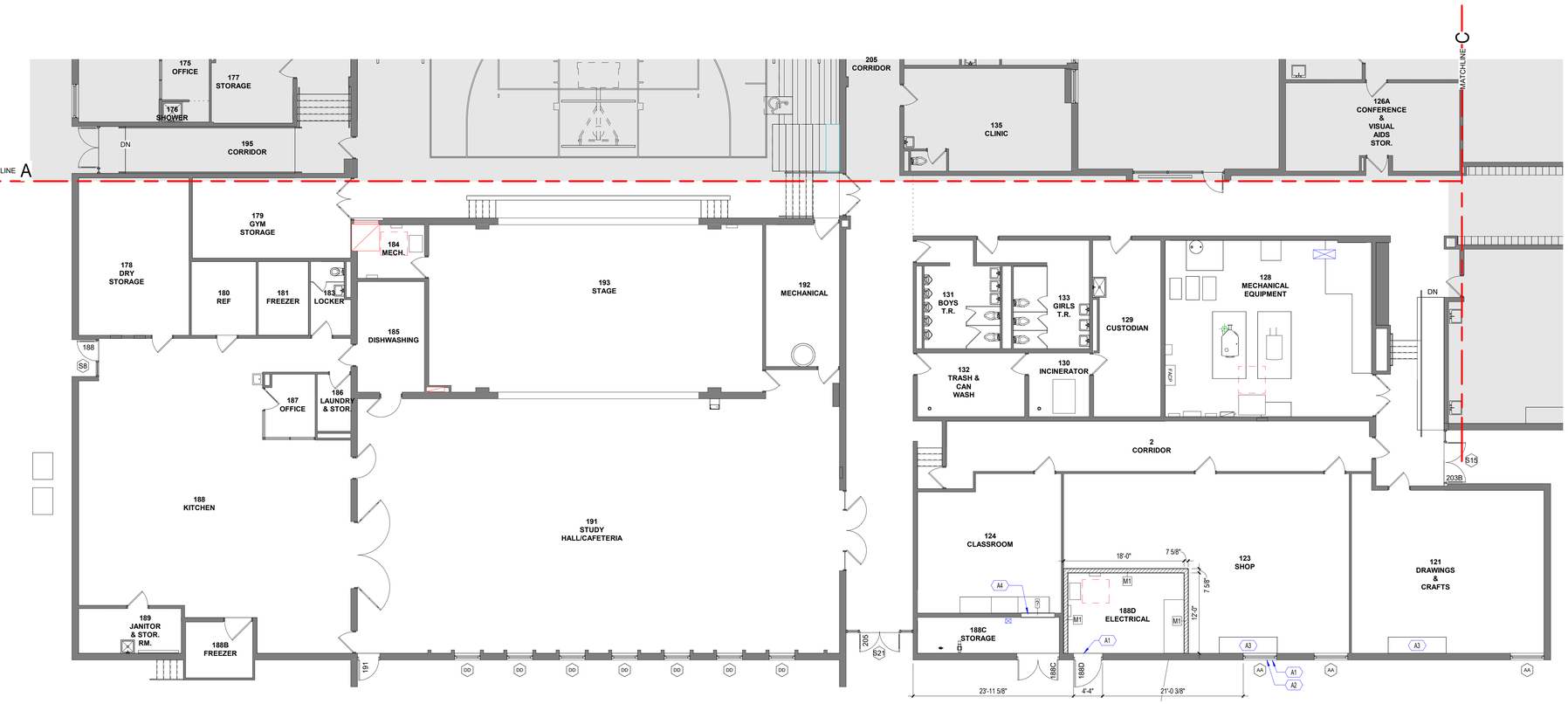
KEY NOTES - FLOOR PLANS

A1 LINTEL L-1. 2L'S 5 X 3 1/2 X 3/8 AND L5 X 3 1/2 X 3/8 WITH 8" BRG. SEE SHEET A0110.E AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

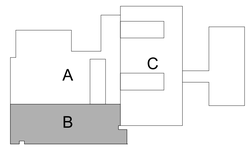
A2 LINTEL L-2. 2L'S 4 X 3 1/2 X 5/16 AND L4 X 3 1/2" X 5/16 WITH 6" BRG. SEE SHEET A0110.E AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

A3 UNIT VENTILATOR. SEE MECHANICAL DRAWINGS FOR FURTHER DETAILS

A4 INFILL BORROWED LIGHT. INFILL MATERIALS TO MATCH EXISTING ADJACENT IN THICKNESS, COLOR, AND TEXTURE



1 A102.E FIRST FLOOR PLAN - AREA B
1/8" = 1'-0"



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ISSUANCES

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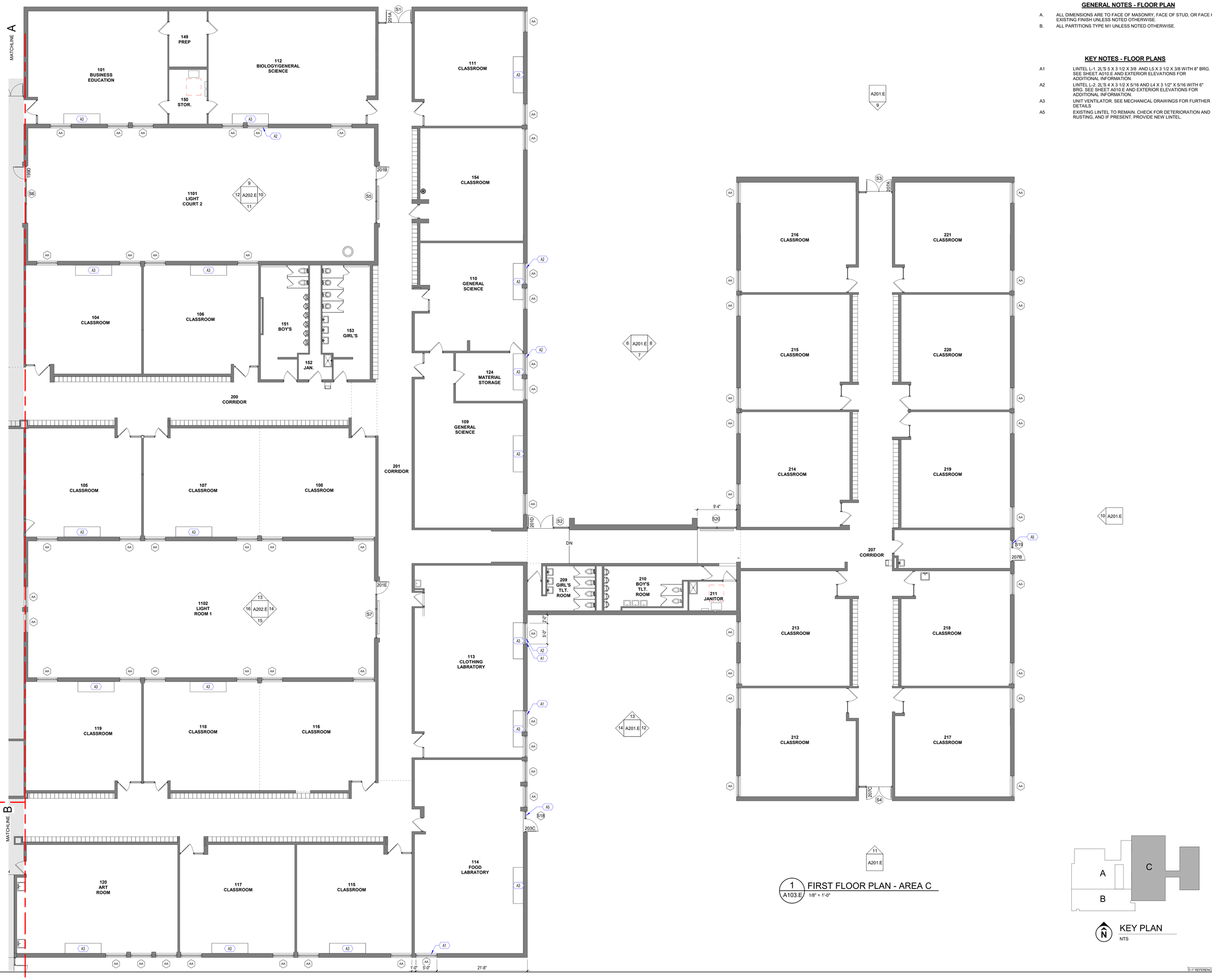
FIRST FLOOR PLAN - AREA B

COMM NO. 2021091.02

A102.E

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0'-1" REFERENCE LINE



GENERAL NOTES - FLOOR PLAN

A. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.

B. ALL PARTITIONS TYPE M1 UNLESS NOTED OTHERWISE.

KEY NOTES - FLOOR PLANS

A1 LINTEL L-1, 2L'S 5 X 3 1/2 X 3/8 AND L5 X 3 1/2 X 3/8 WITH 8" BRG. SEE SHEET A010.E AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

A2 LINTEL L-2, 2L'S 4 X 3 1/2 X 5/16 AND L4 X 3 1/2" X 5/16 WITH 6" BRG. SEE SHEET A010.E AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.

A3 UNIT VENTILATOR. SEE MECHANICAL DRAWINGS FOR FURTHER DETAILS

A5 EXISTING LINTEL TO REMAIN. CHECK FOR DETERIORATION AND RUSTING, AND IF PRESENT, PROVIDE NEW LINTEL.

1 A103.E FIRST FLOOR PLAN - AREA C
1/8" = 1'-0"

KEY PLAN
NTS

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FIRST FLOOR PLAN - AREA C

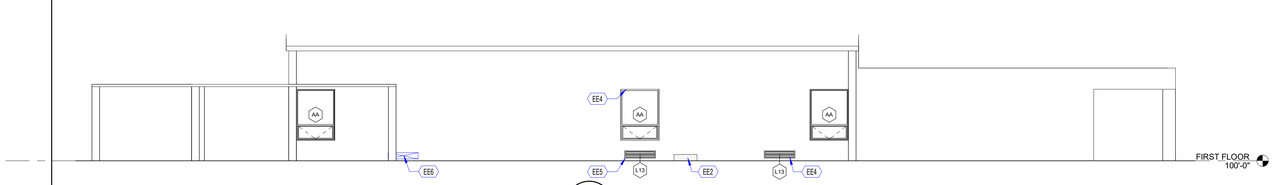
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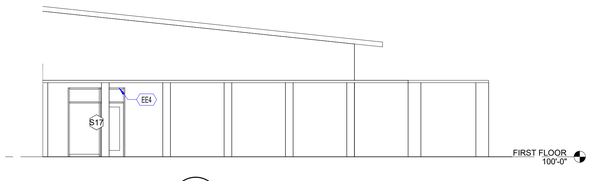
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KEY NOTES - EXTERIOR ELEVATIONS

EE2	INFILL OPENING IN WALL TO MATCH EXISTING ADJACENT MATERIALS
EE4	NEW OPENING. LINTEL TYPE L-1. 2L'S 5 X 3 1/2 X 3/8 AND L5 X 3 1/2 X 3/8. PROVIDE 8" BRG. REFER TO SHEET A010.E FOR ADDITIONAL LINTEL INFORMATION.
EE5	NEW OPENING. LINTEL TYPE L-2. 2L'S 4 X 3 1/2 X 5/16 AND L4 X 3 1/2" X 5/16. PROVIDE 6" BRG. REFER TO SHEET A010.E FOR ADDITIONAL LINTEL INFORMATION.
EE6	EXISTING LOUVER TO REMAIN
EE7	EXISTING LINTEL TO REMAIN. CHECK FOR DETERIORATION AND RUSTING, AND IF PRESENT, PROVIDE NEW LINTEL.



1 A201.E NORTH ELEVATION
1/8" = 1'-0"



2 A201.E EAST ELEVATION - ENTRY
1/8" = 1'-0"



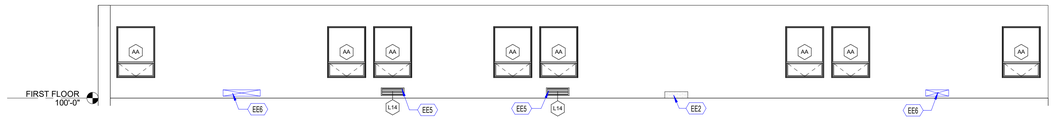
3 A201.E NORTH ELEVATION B
1/8" = 1'-0"



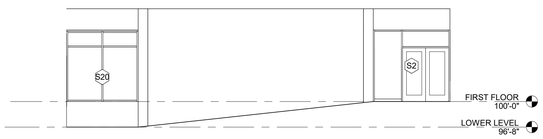
4 A201.E WEST ELEVATION - ENTRY
1/8" = 1'-0"



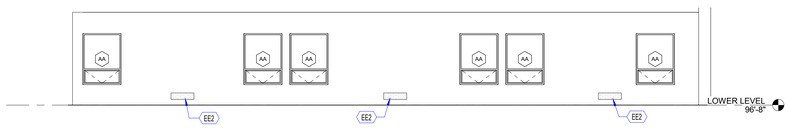
5 A201.E NORTH ELEVATION C
1/8" = 1'-0"



6 A201.E EAST ELEVATION A
1/8" = 1'-0"



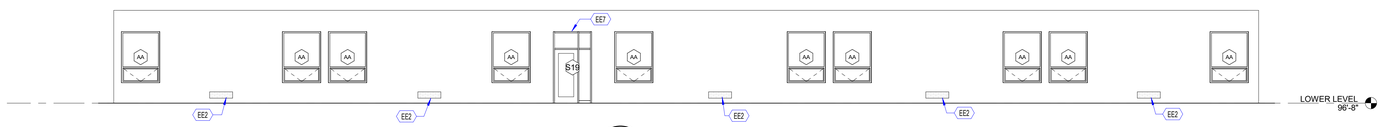
7 A201.E NORTH ELEVATION D
1/8" = 1'-0"



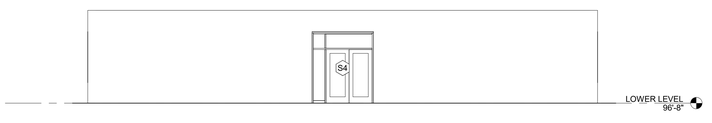
8 A201.E WEST ELEVATION A
1/8" = 1'-0"



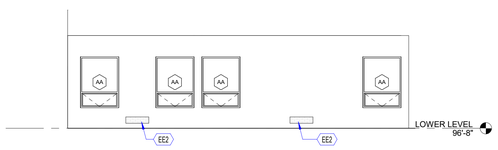
9 A201.E NORTH ELEVATION E
1/8" = 1'-0"



10 A201.E EAST ELEVATION B
1/8" = 1'-0"



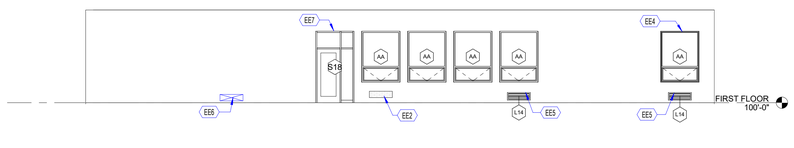
11 A201.E SOUTH ELEVATION A
1/8" = 1'-0"



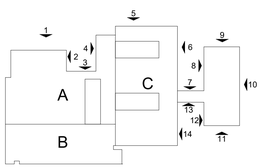
12 A201.E WEST ELEVATION B
1/8" = 1'-0"



13 A201.E SOUTH ELEVATION B
1/8" = 1'-0"



14 A201.E EAST ELEVATION C
1/8" = 1'-0"



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EXTERIOR ELEVATIONS

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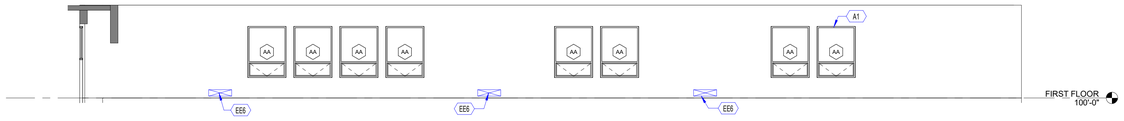
A201.E

"0-1" REFERENCE LINE"

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KEY NOTES - EXTERIOR ELEVATIONS

EE2	INFILL OPENING IN WALL TO MATCH EXISTING ADJACENT MATERIALS
EE3	NEW HOLLOW METAL DOOR
EE6	EXISTING LOUVER TO REMAIN



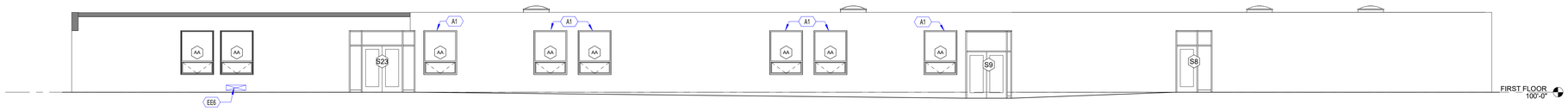
1 A202.E SOUTH ELEVATION C - ESSER
1/8" = 1'-0"



2 A202.E EAST ELEVATION D - ESSER
1/8" = 1'-0"



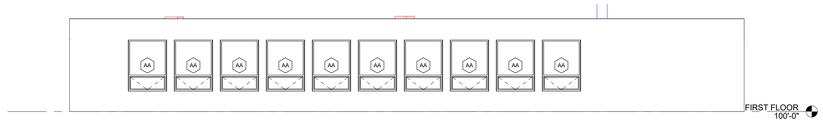
3 A202.E SOUTH ELEVATION D - ESSER
1/8" = 1'-0"



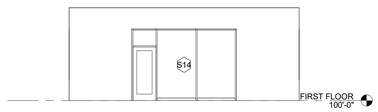
4 A202.E WEST ELEVATION C - ESSER
1/8" = 1'-0"



5 A202.E SOUTH ELEVATION - LIGHT COURT 3
1/8" = 1'-0"



6 A202.E WEST ELEVATION - LIGHT COURT 3
1/8" = 1'-0"



7 A202.E NORTH ELEVATION - LIGHT COURT 3
1/8" = 1'-0"



8 A202.E EAST ELEVATION - LIGHT COURT 3
1/8" = 1'-0"



9 A202.E SOUTH ELEVATION - LIGHT COURT 2
1/8" = 1'-0"



10 A202.E WEST ELEVATION - LIGHT COURT 2
1/8" = 1'-0"



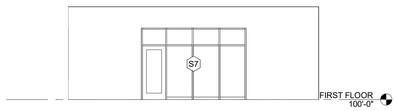
11 A202.E NORTH ELEVATION - LIGHT COURT 2
1/8" = 1'-0"



12 A202.E EAST ELEVATION - LIGHT COURT 2
1/8" = 1'-0"



13 A202.E SOUTH ELEVATION - LIGHT COURT 1
1/8" = 1'-0"



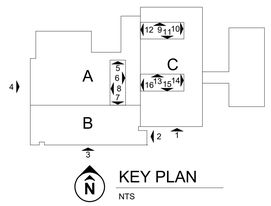
14 A202.E WEST ELEVATION - LIGHT COURT 1
1/8" = 1'-0"



15 A202.E NORTH ELEVATION - LIGHT COURT 1
1/8" = 1'-0"



16 A202.E EAST ELEVATION - LIGHT COURT 1
1/8" = 1'-0"



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"0-1" REFERENCE LINE"

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23-AIR HANDLING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SUPPLY FAN: FAN QUANTITY	AIRFLOW	FAN TYPE	TOTAL STATIC PRESSURE	EXTERNAL STATIC PRESSURE	RPM	ELECTRICAL CHARACTERISTICS: FAN TOTAL BHP	MCA	MOCP	VOLTAGE	Ø	FILTER: TYPE	FILTER DEPTH	NOTES
AHU-1A	CARRIER	39MN 08W	2	3500 CFM	ECM DIRECT DRIVE PLENUM	2.33 in-wg	1.0 in-wg	1856	1.9	10.8 A	15.0 A	480 V	3	MERV 13	0' - 2"	1
AHU-1B	CARRIER	39MN 08W	2	3500 CFM	ECM DIRECT DRIVE PLENUM	2.33 in-wg	1.0 in-wg	1856	1.9	10.8 A	15.0 A	480 V	3	MERV 13	0' - 2"	1
AHU-1C	CARRIER	39MN 08W	2	3500 CFM	ECM DIRECT DRIVE PLENUM	2.33 in-wg	1.0 in-wg	1856	1.9	10.8 A	15.0 A	480 V	3	MERV 13	0' - 2"	1
AHU-1D	CARRIER	39MN 08W	2	3500 CFM	ECM DIRECT DRIVE PLENUM	2.33 in-wg	1.0 in-wg	1856	1.9	10.8 A	15.0 A	480 V	3	MERV 13	0' - 2"	1
AHU-2A	CARRIER	39MN 03W	2	1500 CFM	ECM DIRECT DRIVE PLENUM	2.78 in-wg	1.0 in-wg	2264	1.7	4.8 A	15.0 A	480 V	3	MERV 13	0' - 2"	1
AHU-2B	CARRIER	39MN 03W	2	1500 CFM	ECM DIRECT DRIVE PLENUM	2.78 in-wg	1.0 in-wg	2264	1.7	4.8 A	15.0 A	480 V	3	MERV 13	0' - 2"	1

NOTES:
1. DISCHARGE DUCT(S) MUST BE GASKETED AND SCREWED DIRECTLY TO THE DISCHARGE PANEL OF THE UNIT.

23-AIR HANDLING UNIT COOLING COIL / HEATING COIL CHARACTERISTICS

MARK	DX COIL: COOLING CAPACITY (MBH) TOTAL	SENSIBLE	DRY BULB TEMPERATURE ENTERING AIR	LEAVING AIR	WET BULB TEMPERATURE ENTERING AIR	LEAVING AIR	FACE AREA	AIR PRESSURE DROP (IN W.G.)	HEATING COIL: TOTAL HEATING CAPACITY	DRY BULB TEMPERATURE ENTERING AIR	LEAVING AIR	FLUID TEMPERATURE ENTERING	LEAVING	FACE AREA	FLUID TYPE	FLOW RATE	AIR PRESSURE DROP (IN W.G.)	FLUID PRESSURE DROP(FT)	NOTES
AHU-1A	114	86	80 °F	57 °F	67 °F	57 °F	8 SF	0.77	147,370 Btu/h	55 °F	93 °F	140 °F	120 °F	8 SF	WATER	15 GPM	0.21	2.30	1
AHU-1B	114	86	80 °F	57 °F	67 °F	57 °F	8 SF	0.77	147,370 Btu/h	55 °F	93 °F	140 °F	120 °F	8 SF	WATER	15 GPM	0.21	2.30	1
AHU-1C	114	86	80 °F	57 °F	67 °F	57 °F	8 SF	0.77	147,370 Btu/h	55 °F	93 °F	140 °F	120 °F	8 SF	WATER	15 GPM	0.21	2.30	1
AHU-1D	114	86	80 °F	57 °F	67 °F	57 °F	8 SF	0.77	147,370 Btu/h	55 °F	93 °F	140 °F	120 °F	8 SF	WATER	15 GPM	0.21	2.30	1
AHU-2A	71	52	80 °F	56 °F	67 °F	55 °F	6 SF	0.68	92,190 Btu/h	55 °F	95 °F	140 °F	120 °F	6 SF	WATER	9 GPM	0.12	1.00	1
AHU-2B	71	52	80 °F	56 °F	67 °F	55 °F	6 SF	0.68	92,190 Btu/h	55 °F	95 °F	140 °F	120 °F	6 SF	WATER	9 GPM	0.12	1.00	1

23-VARIABLE REFRIGERANT HEAT RECOVERY UNITS

MARK	MANUFACTURER	MODEL	MODULES	ELECTRICAL CHARACTERISTICS: MCA	MOCP	Ø	VOLTAGE	TOTAL COOLING CAPACITY	COOLING DESIGN AMBIENT TEMPERATURE	TOTAL HEATING CAPACITY	HEATING DESIGN AMBIENT TEMPERATURE	UNIT WEIGHT	NOTES
HRCU-1	CARRIER	MMY-AP312S6ST6P-UL	168 + 144	29.7 + 23.4	35 +30	3	460	312,000.0 Btu/h	95 °F	351,000.0 Btu/h	0 °F	1,676 lb	
HRCU-2	CARRIER	MMY-AP264F6P-UL	144 + 120	52.1 + 45.4	60 + 50	3	460	264,000.0 Btu/h	95 °F	297,000.0 Btu/h	0 °F	1,522 lb	
HRCU-3	CARRIER	MMY-AP288F6P-UL	144 + 144	52.1 + 45.4	60 + 60	3	460	288,000.0 Btu/h	95 °F	324,000.0 Btu/h	0 °F	1,676 lb	
HRCU-4	CARRIER	MMY-A4086F6P-UL	144 + 144 + 120	52.1 + 52.1 + 45.4	60 + 60 + 50	3	460	408,000.0 Btu/h	95 °F	459,000.0 Btu/h	0 °F	2,360 lb	
HRCU-5	CARRIER	MMY-MAP0726FT6P-UL	72	11.8	15	3	460	72,000.0 Btu/h	95 °F	81,000.0 Btu/h	0 °F	574 lb	
HRCU-6	CARRIER	MMY-MAP1446FT9P-UL	144	52.1	60	3	460	144,000.0 Btu/h	95 °F	162,000.0 Btu/h	0 °F	838 lb	
HRCU-7	CARRIER	MMY-AP312S6FT9P-UL	168 + 144	66.2 + 52.1	70 + 60	3	460	312,000.0 Btu/h	95 °F	351,000.0 Btu/h	0 °F	1,676 lb	
HRCU-8	CARRIER	MMY-AP2166FT9P-UL	120 + 96	45.4 + 34.2	50 + 40	3	460	216,000.0 Btu/h	95 °F	243,000.0 Btu/h	0 °F	1,368 lb	

23-VARIABLE REFRIGERANT UNIT VENT SCHEDULE

MARK	SYSTEM NAME	MANUFACTURER	MODEL	UNIT TYPE	NOMINAL COOLING CAPACITY (BTU/HR)	NOMINAL HEATING CAPACITY (BTU/HR)	SUPPLY FAN AIRFLOW	ELECTRICAL CHARACTERISTICS: MCA	MOCP	Ø	VOLTAGE	NOTES
FC-1A	HRCU-1	CARRIER	MMU-AP0121YHPUL	1-WAY CASSETTE	12,000	13,500	318 CFM	0.4 A	15 A	1	208	
FC-1B	HRCU-1	CARRIER	MMU-AP0121YHPUL	1-WAY CASSETTE	12,000	13,500	318 CFM	0.4 A	15 A	1	208	
FC-1C	HRCU-1	CARRIER	MMU-AP0121YHPUL	1-WAY CASSETTE	12,000	13,500	318 CFM	0.4 A	15 A	1	208	
FC-212	HRCU-1	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-212A	HRCU-1	CARRIER	MMU-AP0181MH2UL	COMPACT 4-WAY CASSETTE	18,000	20,000	450 CFM	0.7 A	15 A	1	208	
FC-213	HRCU-1	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-213A	HRCU-1	CARRIER	MMU-AP0091MH2UL	COMPACT 4-WAY CASSETTE	9,500	10,500	330 CFM	0.5 A	15 A	1	208	
FC-214	HRCU-1	CARRIER	MMD-AP0304H2UL	4-WAY CASSETTE	30,000	34,000	730 CFM	1.1 A	15 A	1	208	
FC-215	HRCU-1	CARRIER	MMD-AP0304H2UL	4-WAY CASSETTE	30,000	34,000	730 CFM	1.1 A	15 A	1	208	
FC-216	HRCU-1	CARRIER	MMD-AP0304H2UL	4-WAY CASSETTE	30,000	34,000	730 CFM	1.1 A	15 A	1	208	
FC-217	HRCU-1	CARRIER	MMU-AP0121MH2UL	COMPACT 4-WAY CASSETTE	12,000	13,500	318 CFM	0.5 A	15 A	1	208	
FC-217A	HRCU-1	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-217B	HRCU-1	CARRIER	MMU-AP0091MH2UL	COMPACT 4-WAY CASSETTE	9,500	10,500	330 CFM	0.5 A	15 A	1	208	
FC-218	HRCU-1	CARRIER	MMD-AP0304H2UL	4-WAY CASSETTE	30,000	34,000	730 CFM	1.1 A	15 A	1	208	
FC-218B	HRCU-1	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.7 A	15 A	1	208	
FC-219B	HRCU-1	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-220	HRCU-1	CARRIER	MMU-AP0181MH2UL	COMPACT 4-WAY CASSETTE	18,000	20,000	450 CFM	0.7 A	15 A	1	208	
FC-222	HRCU-1	CARRIER	MMU-AP0091MH2UL	COMPACT 4-WAY CASSETTE	9,500	10,500	330 CFM	0.7 A	15 A	1	208	
FC-1221-1	HRCU-1	CARRIER	MMU-AP0181MH2UL	COMPACT 4-WAY CASSETTE	18,000	20,000	450 CFM	0.5 A	15 A	1	208	
FC-1221-2	HRCU-1	CARRIER	MMU-AP0181MH2UL	COMPACT 4-WAY CASSETTE	18,000	20,000	450 CFM	0.5 A	15 A	1	208	
FC-1221A	HRCU-1	CARRIER	MMU-AP0181MH2UL	COMPACT 4-WAY CASSETTE	18,000	20,000	450 CFM	0.5 A	15 A	1	208	
FC-151	HRCU-2	CARRIER	MMU-AP0091MH2UL	COMPACT 4-WAY CASSETTE	9,500	10,500	330 CFM	0.5 A	15 A	1	208	
FC-153	HRCU-2	CARRIER	MMU-AP0091MH2UL	COMPACT 4-WAY CASSETTE	9,500	10,500	330 CFM	0.5 A	15 A	1	208	
FC-1264	HRCU-2	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-1265	HRCU-2	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-1268	HRCU-2	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1269	HRCU-2	CARRIER	MMD-AP0546BHPUL	HORIZONTAL DUCTED	54,000	60,000	1177 CFM	3.6 A	15 A	1	208	
FC-1271	HRCU-2	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1272	HRCU-2	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1273	HRCU-2	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-1274	HRCU-2	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-1275	HRCU-2	CARRIER	MMD-AP0366BHPUL	HORIZONTAL DUCTED	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	
FC-1296	HRCU-2	CARRIER	MMD-AP0216BHPUL	FLOOR STANDING	21,000	24,000	706 CFM	2.2 A	15 A	1	208	1, 2
FC-1113	HRCU-3	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1118	HRCU-3	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1262	HRCU-3	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1263	HRCU-3	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1266	HRCU-3	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1267	HRCU-3	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1284	HRCU-3	CARRIER	MMD-AP0366BHPUL	HORIZONTAL DUCTED	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	
FC-1285	HRCU-3	CARRIER	MMD-AP0366BHPUL	HORIZONTAL DUCTED	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	
FC-1289	HRCU-3	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1290	HRCU-3	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1294	HRCU-3	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-1124	HRCU-4	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1125	HRCU-4	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1237	HRCU-4	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1238	HRCU-4	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1239	HRCU-4	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1253	HRCU-4	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1254	HRCU-4	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1255	HRCU-4	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1260	HRCU-4	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-1261	HRCU-4	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-1281	HRCU-4	CARRIER	MMD-AP0426BHPUL	HORIZONTAL DUCTED	42,000	47,500	1130 CFM	3.4 A	15 A	1	208	
FC-1282	HRCU-4	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-1286	HRCU-4	CARRIER	MMD-AP0366BHPUL	HORIZONTAL DUCTED	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	
FC-1287	HRCU-4	CARRIER	MMD-AP0426BHPUL	HORIZONTAL DUCTED	42,000	47,500	1130 CFM	3.4 A	15 A	1	208	
FC-145	HRCU-5	CARRIER	MMU-AP0091MH2UL	COMPACT 4-WAY CASSETTE	9,500	10,500	330 CFM	0.5 A	15 A	1	208	3
FC-205	HRCU-5	CARRIER	MMU-AP0121MH2UL	COMPACT 4-WAY CASSETTE	12,500	13,500	330 CFM	0.5 A	15 A	1	208	
FC-128	HRCU-6	CARRIER	MMU-AP0121MH2UL	COMPACT 4-WAY CASSETTE	12,000	13,500	330 CFM	0.5 A	15 A	1	208	
FC-133	HRCU-6	CARRIER	MMD-AP0426BHPUL	HORIZONTAL DUCTED	42,000	47,500	1130 CFM	3.4 A	15 A	1	208	
FC-1251	HRCU-6	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1256	HRCU-6	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1257	HRCU-6	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1258	HRCU-6	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-197	HRCU-7	CARRIER	MMU-AP0121YHPUL	1-WAY CASSETTE	12,000	13,500	330 CFM	0.4 A	15 A	1	208	
FC-1240	HRCU-7	CARRIER	MMD-AP0426BHPUL	HORIZONTAL DUCTED	42,000	47,500	1130 CFM	3.4 A	15 A	1	208	
FC-1241	HRCU-7	CARRIER	MMD-AP0366BHPUL	HORIZONTAL DUCTED	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	
FC-1242	HRCU-7	CARRIER	MMD-AP0426BHPUL	HORIZONTAL DUCTED	42,000	47,500	1130 CFM	3.4 A	15 A	1	208	
FC-1243	HRCU-7	CARRIER	MMD-AP0366BHPUL	HORIZONTAL DUCTED	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	
FC-1245	HRCU-7	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1246	HRCU-7	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1247	HRCU-7	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-1248	HRCU-7	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-1250	HRCU-7	CARRIER	MMD-AP0366BHPUL	FLOOR STANDING	36,000	40,000	1130 CFM	3.4 A	15 A	1	208	1, 2
FC-178	HRCU-8	CARRIER	MMU-AP0181MH2UL	COMPACT 4-WAY CASSETTE	18,000	20,000	450 CFM	0.5 A	15 A	1	208	
FC-187	HRCU-8	CARRIER	MMU-AP0071MH2UL	COMPACT 4-WAY CASSETTE	7,500	8,500	320 CFM	0.5 A	15 A	1	208	
FC-188A	HRCU-8	CARRIER	MMU-AP0244HPUL	4-WAY CASSETTE	24,000	27,500	670 CFM	1.1 A	15 A	1	208	
FC-188B	HRCU-8	CARRIER	MMU-AP0244HPUL	4-WAY CASSETTE	24,000	27,500	670 CFM	1.1 A	15 A	1	208	
FC-188C	HRCU-8	CARRIER	MMU-AP0244HPUL	4-WAY CASSETTE	24,000	27,500	670 CFM	1.1 A	15 A	1	208	
FC-188D	HRCU-8	CARRIER	MMU-AP0244HPUL	4-WAY CASSETTE	24,000	27,500	670 CFM	1.1 A	15 A	1	208	
FC-193	HRCU-8	CARRIER	MMD-AP0426BHPUL	HORIZONTAL DUCTED	42,000	47,500	1130 CFM	3.4 A	15 A	1	208	

83

NOTES:

1. ALL FLOOR MOUNTED UNITS SHALL BE REVOLUTIONAIRE UNIT VENTILATORS MODEL H104 D25 CO CARRIER 21-54K BTU, WITH THE LISTED CARRIER VRF UNITS, THE ASSOCIATED ERV, CABINET, HOT WATER COIL, AND CONTROLS AS REQUIRED BY REVOLUTIONAIRE, OR AN APPROVED EQUAL AS ACCEPTED BY THE ENGINEER. THE OUTDOOR AIR CONNECTION ON THE REAR OF THE UNIT SHALL BE PROVIDED TO FIT THROUGH THE EXISTING WALL OPENING, APPROXIMATELY 47" X 11", WITHOUT MODIFICATION TO THE WALL.
2. DRAIN UNIT VENTILATOR CONDENSATE THROUGH WALL TO FRENCH DRAIN.
3. PURCHASE AND TURNOVER TO OWNER.

23-CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SIZE	TOTAL COOLING CAPACITY (MBH)	COMPRESSOR TYPE	EER	REFRIGERANT TYPE	ELECTRICAL CHARACTERISTICS: MCA	MOCP	Ø	VOLTAGE	NOTES
CU-1A	CARRIER	38AUD	10 TONS	111.8	SCROLL	12.4	PURON	19 A	25 A	3	460 V	
CU-1B	CARRIER	38AUD	10 TONS	111.8	SCROLL	12.4	PURON	19 A	25 A	3	460 V	
CU-1C	CARRIER	38AUD	10 TONS	111.8	SCROLL	12.4	PURON	19 A	25 A	3	460 V	
CU-1D	CARRIER	38AUD	10 TONS	111.8	SCROLL	12.4	PURON	19 A	25 A	3	460 V	
CU-2A	CARRIER	38AUD	6 TONS	72.0	SCROLL	13.4	PURON	13 A	20 A	3	460 V	
CU-2B	CARRIER	38AUD	6 TONS	72.0	SCROLL	13.4	PURON	13 A	20 A	3	460 V	

23-VARIABLE REFRIGERANT BRANCH SELECTOR SCHEDULE

MARK	MANUFACTURER	MODEL	NUMBER OF PORTS	ELECTRICAL CHARACTERISTICS: AMPS	MOCP	Ø	VOLTAGE	CONDENSATE CONNECTION SIZE	NOTES
BS-1A	CARRIER	RBM-Y0611F6PUL	6	1.0	15.0	1	208		
BS-1B	CARRIER	RBM-Y0611F6PUL	6	1.0	15.0	1	208		
BS-1C	CARRIER	RBM-Y0611F6PUL	6	1.0	15.0	1	208		
BS-1D	CARRIER	RBM-Y0611F6PUL	6	1.0	15.0	1	208		
BS-2A	CARRIER	RBM-Y0611F4PUL	4	1.0	15.0	1	208		
BS-2B	CARRIER	RBM-Y0611F6PUL	6	1.0	15.0	1	208		
BS-3A	CARRIER	RBM-Y0611F4PUL	4	1.0	15.0	1	208		
BS-3B	CARRIER	RBM-Y0611F4PUL	4	1.0	15.0	1	208		
BS-4A	CARRIER	RBM-Y0611F4PUL	4	1.0	15.0	1	208		
BS-4B	CARRIER	RBM-Y0611F4PUL	4	1.0	15.0	1	208		
BS-4C	CARRIER	RBM-Y0611F6PUL	6	1.0	15.0	1	208		
BS-5A	CARRIER	RBM-Y0611F4PUL	4	1.0	15.0	1	208		
BS-5B	CARRIER	RBM-Y0611F4PUL	4	1.0	15.0	1	208		
BS-6	CARRIER	RBM-Y0611F6PUL	6	1.0	15.0	1	208		
BS-7A	CARRIER	RBM-Y0611F6PUL	6	1.0	15.0	1	208		
BS-7B	CARRIER	RBM-Y0611F6PUL	6	1.0	15.0	1	208		
BS-8A	CARRIER	RBM-Y0611F6PUL	6	1.0	15.0	1	208		
BS-8B	CARRIER	RBM-Y0964FUL	1	1.0	15.0	1	208		

23-EXPANSION TANK SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	TANK TYPE	FLUID TYPE	PRECHARGE PRESSURE	RELIEF VALVE PRESSURE(FT)	REQUIRED TANK VOLUME	REQUIRED ACCEPTANCE VOLUME	NOTES
ET-1	BELL&GOSSETT	B300	HOT WATER	BLADDER	WATER	12.0 psi	65	78.00 gal	28.5 gal	

23-AIR AND DIRT SEPARATOR SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	FLOW RATE (GPM)	PRESSURE DROP@DESIGN	CONNECTION SIZE	NOTES
ADS-1	BELL&GOSSETT	SRS 5F	HOT WATER	310 GPM	0.65 Feet	5"	

23-HVAC GRAVITY VENTILATOR SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	HOOD TYPE	THROAT AREA	MAXIMUM AIRFLOW	MAXIMUM FREE AREA VELOCITY	ROOF CURB HEIGHT	NOTES
GV-1	GREENHECK	GRSI	INTAKE	SPUN ALUMINUM	2.25 SF	2650 CFM	600	1' - 0"	
GV-2	GREENHECK	GRSR	RELIEF	SPUN ALUMINUM	2.25 SF	2650 CFM	600	1' - 0"	
GV-3	GREENHECK	GRSI	INTAKE	SPUN ALUMINUM	0.37 SF	780 CFM	600	1' - 0"	

23-MECHANICAL SHEET LIST

SHEET NUMBER	SHEET NAME
M000	MECHANICAL SCHEDULES AND LEGENDS
M001	MECHANICAL SCHEDULES
M002	MECHANICAL DETAILS
M003	MECHANICAL DETAILS
M004	VENTILATION SCHEDULES
M010	MECHANICAL DEMOLITION PLAN AREA A
M011	MECHANICAL DEMOLITION PLAN AREA B
M012	MECHANICAL DEMOLITION PLAN AREA C
M020	MECHANICAL ROOF DEMOLITION PLAN
M100	FIRST FLOOR DUCTWORK PLAN AREA A
M101	FIRST FLOOR DUCTWORK PLAN AREA B
M102	FIRST FLOOR DUCTWORK PLAN AREA C
M200	FIRST FLOOR PIPING PLAN AREA A
M201	FIRST FLOOR PIPING PLAN AREA B
M202	FIRST FLOOR PIPING PLAN AREA C
M300	MECHANICAL ROOF PLAN
M400	ENLARGED MECHANICAL PLANS
M600	CONTROL SCHEMATICS - HVAC
M601	CONTROL SCHEMATICS - HVAC
M700	CONTROL SCHEMATICS - PIPING

GENERAL NOTES

A. DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW DESIGN INTENT. IF CHANGES ARE MADE DUE TO DIFFERING FIELD CONDITIONS, SUGGESTED CHANGES ARE TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO CHANGES BEING MADE.
B. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE-RATED WALLS.
C. REPAIR ANY WORK DAMAGED AS A RESULT OF WORK BY THIS CONTRACT.
D. CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AND PAY FOR FOR ALL MATERIALS, LABOR, LICENSES, PERMITS, INSPECTIONS, FEES, FINAL CLEANUP, AND QUALITY OF WORKMANSHIP AND MATERIALS REQUIRED TO PERFORM WORK DESCRIBED IN CONTRACT.
E. CONTRACTOR SHALL VERIFY AND SATISFY THAT ALL EQUIPMENT FURNISHED WILL PROPERLY FIT IN THE SPACE PROVIDED, THAT IT WILL FUNCTION PROPERLY, AND THAT ALL PARTS OF EQUIPMENT REQUIRING SERVICE ARE READILY ACCESSIBLE IN COMPLIANCE WITH THE MECHANICAL CODE.
F. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CUTTING AND PATCHING OF WALLS, FLOORS, AND ROOFS REQUIRED FOR INSTALLATION OF THE WORK. ALL OPENINGS IN WALLS, FLOORS OR CEILINGS SHALL BE PROPERLY SEALED
G. LOCATE WALL OPENINGS FOR DUCTS, GRILLES, AIR TRANSFER OPENINGS, PIPING, ETC. CENTERED BETWEEN FRAMING MEMBERS WHEN POSSIBLE.
H. FOR ALL ROOF-MOUNTED MECHANICAL EQUIPMENT, THE CONTRACTOR SHALL PROVIDE THE CURB, CUT THE ROOF OPENING, AND PROVIDE ROOFING AND ROOF FLASHING AROUND CURB SO THAT ROOF WARRANTY IS MAINTAINED. ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH ALL TRADES. TOPS OF ROOF CURBS SHALL BE 12" ABOVE TOP LAYER OF ROOF INSULATION OR MEMBRANE AND SUPPORTED ON STRUCTURE UNLESS NOTED OTHERWISE.
I. ALL TRANSFER AIR DUCTS SHALL HAVE INTERIOR DUCT LINING. REFER TO THE SPECIFICATIONS FOR DUCT LINING REQUIREMENTS.
J. ALL DUCT FITTINGS SHALL BE LO-LOSS FITTINGS. ROUND TAPS INTO SQUARE DUCT SHALL BE CONICAL OR BELLMOUTH. SQUARE ELBOWS AND SQUARE OR RECTANGULAR SPLITTERS SHALL USE TURNING VANES. NON-SQUARE ELBOWS SHALL HAVE A MINIMUM RADIUS OF 1.5 TIMES THE RADIUS OF THE DUCT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIRMENTS.
K. WHEN PENETRATING A NON-FIR

23-CABINET HEATER / UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	AIRFLOW	HEATING COIL			ELECTRICAL CHARACTERISTICS				NOTES
					TOTAL HEATING CAPACITY	FLUID TYPE	DESIGN FLOW RATE	MCA	MOCP	VOLTAGE	Ø	
CUH-1	DAIKIN	FHHHC202	HORIZONTAL CONCEALED	250 CFM	16,994.0 Btu/h	WATER	1.7 GPM	1.2 A	15.0 A	120	1	1, 2
CUH-2	DAIKIN	FHHHC202	HORIZONTAL CONCEALED	250 CFM	16,994.0 Btu/h	WATER	1.7 GPM	1.2 A	15.0 A	120	1	1, 2
CUH-3	DAIKIN	FHHHC202	HORIZONTAL CONCEALED	250 CFM	16,994.0 Btu/h	WATER	1.7 GPM	1.2 A	15.0 A	120	1	1, 2
CUH-4	DAIKIN	FHHHC202	HORIZONTAL CONCEALED	250 CFM	16,994.0 Btu/h	WATER	1.7 GPM	1.2 A	15.0 A	120	1	1, 2
CUH-5	DAIKIN	FHHHC202	HORIZONTAL CONCEALED	250 CFM	16,994.0 Btu/h	WATER	1.7 GPM	1.2 A	15.0 A	120	1	1, 2
CUH-6	DAIKIN	FHHHC202	HORIZONTAL CONCEALED	250 CFM	16,994.0 Btu/h	WATER	1.7 GPM	1.2 A	15.0 A	120	1	1, 2
CUH-7	DAIKIN	FHHHC202	HORIZONTAL CONCEALED	250 CFM	16,994.0 Btu/h	WATER	1.7 GPM	1.2 A	15.0 A	120	1	1, 2
CUH-8	DAIKIN	FHHHC202	HORIZONTAL CONCEALED	250 CFM	16,994.0 Btu/h	WATER	1.7 GPM	1.2 A	15.0 A	120	1	1, 2
CUH-9	DAIKIN	FHHHC202	HORIZONTAL CONCEALED	250 CFM	16,994.0 Btu/h	WATER	1.7 GPM	1.2 A	15.0 A	120	1	1, 2
CUH-10	DAIKIN	FHHHC202	HORIZONTAL CONCEALED	250 CFM	16,994.0 Btu/h	WATER	1.7 GPM	1.2 A	15.0 A	120	1	1, 2

NOTES:

1. BOTTOM INLET, BOTTOM RETURN
2. MANUFACTURER TO PROVIDE INTEGRAL UNIT THERMOSTAT

23-AIR DEVICE SCHEDULE

MARK	BASIS OF DESIGN		DIFFUSER TYPE	MAXIMUM AIRFLOW	MAXIMUM PRESSURE DROP	MAXIMUM SOUND	BLADE SPACING	CONNECTION SIZE	FACE SIZE	NOTES
	MANUFACTURER	MODEL								
ECG-1	PRICE	80	EGG CRATE CRILLE	720 CFM	0.085 in-wg	20	1/2" X 1/2"	12" X 12"	12" X 12"	1
ECG-3	PRICE	80	EGG CRATE GRILLE	2880 CFM	0.085 in-wg	26	1/2" X 1/2"	24" X 24"	24" X 24"	1
SD-3	PRICE	SPD	SQUARE PLAQUE DIFFUSER	490 CFM	0.146 in-wg	26	N/A	10" Ø	24" X 24"	1

NOTES:

1. CONFIRM COLOR WITH ARCHITECT.
2. MANUFACTURER TO PROVIDE INTEGRAL BALANCING DAMPER WITH GRILLE.

23-EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	EXHAUST FAN			ELECTRICAL CHARACTERISTICS			NOTES
			AIRFLOW	EXTERNAL STATIC PRESSURE	RPM	HP	Ø	VOLTAGE	
EF-2	GREENHECK	G-090-VG	600 CFM	0.300 in-wg	1590	0.1	1	115 V	2, 5, 6
EF-3	GREENHECK	G-095-VG	200 CFM	0.300 in-wg	687	0.167	1	115 V	2, 5, 6
EF-4	GREENHECK	G-140-VG	1,600 CFM	0.300 in-wg	972	0.5	1	115 V	2, 5, 6
EF-8	GREENHECK	G-120-VG	850 CFM	0.300 in-wg	1009	0.25	1	115 V	2, 5, 6
EF-9	GREENHECK	G-099-VG	320 CFM	0.300 in-wg	701	0.25	1	115 V	2, 5, 6
EF-10	GREENHECK	G-099-VG	380 CFM	0.300 in-wg	762	0.25	1	115 V	4, 5, 6
EF-13	GREENHECK	G-140-VG	1,340 CFM	0.300 in-wg	847	0.25	1	115 V	2, 5, 6
EF-16	GREENHECK	CUE-160-VG	2,000 CFM	0.300 in-wg	866	0.5	1	115 V	2, 5, 6
EF-18	GREENHECK	G-095-VG	200 CFM	0.300 in-wg	687	0.167	1	115 V	3, 5, 6

GENERAL NOTES:
1. EF-1,5,6,7,11,12,14,15,17 EXISTING FANS TO REMAIN TO BE CONNECTED TO NEW BAS AND CONTROLLED PER PROJECT SEQUENCES.

NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE WALL TOGGLE SWITCH FOR FAN CONTROL.
2. FAN IS CONTROLLED BY BAS. SEE CONTROL SCHEMATICS AND SEQUENCES. (GENERAL ROOM EXHAUST)
3. ELECTRICAL CONTRACTOR TO INTEGRATE WITH OCCUPANCY SENSOR FOR FAN CONTROL. (SINGLE PERSON RESTROOMS)
4. MANUFACTURER TO PROVIDE LINE VOLTAGE THERMOSTAT. CYCLE FAN TO MAINTAIN 80 DEG F. (MECH/ELEC ROOMS)
5. ALL EXHAUST FANS AND ASSOCIATED DUCTWORK, WIRING AND SUPPORTS NOT LISTED TO REMAIN OR BE REPLACED TO BE DEMOLISHED. REMOVE WIRING BACK TO ELECTRICAL PANEL.
6. MANUFACTURER TO PROVIDE BACKDRAFT DAMPER.

23-ENERGY RECOVERY UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SUPPLY FAN			EXHAUST FAN			SUMMER AIR TEMPERATURES					WINTER AIR TEMPERATURES					HHW FLOW RATE(GPM)	HEATING COIL CAPACITY	FLUID TYPE	ENTERING FLUID TEMP	LEAVING FLUID TEMP	ELECTRICAL CHARACTERISTICS				NOTES
									SUPPLY AIR		EXHAUST AIR			SUPPLY AIR		EXHAUST AIR												
			AIRFLOW	EXTERNAL STATIC PRESSURE	SUPPLY FAN HP	AIRFLOW	HP	EXTERNAL STATIC PRESSURE	DRY BULB ENTERING	WET BULB ENTERING	DRY BULB ENTERING	WET BULB ENTERING	SUMMER ENERGY RECOVERY EFFECTIVENESS	DRY BULB ENTERING	WET BULB ENTERING	DRY BULB ENTERING	WET BULB ENTERING	WINTER ENERGY RECOVERY EFFECTIVENESS						MCA	MOCP	Ø	VOLTAGE	
ERV-1	RENEWAIRE	DN-2-JRTAV135-H-EN4-L	1500 CFM	1.00 in-wg	2.7	1500 CFM	2.7	1.00 in-wg	93 °F	75 °F	75 °F	63 °F	42.3	8 °F	6 °F	70 °F	51 °F	73.9	5.45	54.34	YES	140 °F	120	19.4 A	25.0 A	3	208 V	2,3,4,5
ERV-2	RENEWAIRE	EV450IN	330 CFM	0.50 in-wg	0.4	336 CFM	0	0.50 in-wg	93 °F	75 °F	75 °F	63 °F	58.5	8 °F	6 °F	70 °F	51 °F	73.9	1.2	12.00	NO	140 °F	120	6.0 A	15.0 A	1	208 V	1,2,3,4
ERV-3	RENEWAIRE	DN-2-JRTAV135-H-EN4-L	1500 CFM	1.00 in-wg	2.7	1500 CFM	2.7	1.00 in-wg	93 °F	75 °F	75 °F	63 °F	42.3	8 °F	6 °F	70 °F	51 °F	73.9	5.45	54.34	YES	140 °F	120	19.4 A	25.0 A	3	208 V	2,3,4,5
ERV-4	RENEWAIRE	DN-2-JRTAV135-H-EN4-L	1500 CFM	1.00 in-wg	2.7	1500 CFM	2.7	1.00 in-wg	93 °F	75 °F	75 °F	63 °F	42.3	8 °F	6 °F	70 °F	51 °F	73.9	5.45	54.34	YES	140 °F	120	19.4 A	25.0 A	3	208 V	2,3,4,5
ERV-5	RENEWAIRE	EV450IN	330 CFM	0.50 in-wg	0.4	336 CFM	0	0.50 in-wg	93 °F	75 °F	75 °F	63 °F	58.5	8 °F	6 °F	70 °F	51 °F	73.9	1.2	12.00	NO	140 °F	120	6.0 A	15.0 A	1	208 V	2,3,4
ERV-6	RENEWAIRE	EV450IN	330 CFM	0.50 in-wg	0.4	336 CFM	0	0.50 in-wg	93 °F	75 °F	75 °F	63 °F	58.5	8 °F	6 °F	70 °F	51 °F	73.9	1.2	12.00	NO	140 °F	120	6.0 A	15.0 A	1	208 V	2,3,4

NOTES:

1. PURCHASE AND TURNOVER TO OWNER FOR FUTURE INSTALLATION.
2. PROVIDE WITH INTEGRAL HOT WATER COIL IF AVAILABLE, OTHERWISE PROVIDE EQUIVILANT DUCT MOUNTED HOT WATER COIL IN SUPPLY DUCT WITHIN 4 FEET OF THE SUPPLY AIR OUTLET FROM THE ERV PER SPECIFICATIONS.
3. AIRFLOWS NOTED ARE NOMINAL. BALANCE UNIT TO ACTUAL SYSTEM AIRFLOWS NOTED ON DRAWINGS.
4. PROVIDE WITH 2" MERV 8 AIR FILTERS.
5. CONTRACTOR TO PROVIDE ROOF CURB PER DETAIL, AND ANY REQUIRED STRUCTURAL REINFORCING NEEDEED TO SPPORT UNIT.

23-HYDRONIC PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	DESIGN FLOW RATE	TOTAL DYNAMIC HEAD	ELECTRICAL CHARACTERISTICS			NOTES
						MOTOR HP	Ø	VOLTAGE	
P-1	GRUNDFOS	NBS 025-070-4P	HOT WATER	200 GPM	45	5	3	460 V	
P-2	GRUNDFOS	NBS 025-070-4P	HOT WATER	200 GPM	45	5	3	460 V	

23-FIN TUBE RADIATION

Mark	MANUFACTURER	MODEL SERIES	HEATING COIL TYPE	FACE SIZE	PASSES	GPM	BTU/LINER FOOT PANEL	HEATING COIL EWT	HEATING COIL LAT	NOTES
FTR-1	MODINE	FT SERIES	FIN TUBE	4-1/4"X 4-1/4"X6'	1	0.4	600	140	120	1
FTR-2	MODINE	FT SERIES	FIN TUBE	4-1/4"X4-1/4"X8'	1	0.5	600	140	120	1

NOTES:

1. MOUNT WITH BOTTOM OF ENCLOSER SAME AS THE EXISTING BEING REPLACED.

23-CONDENSING BOILER

MARK	MANUFACTURER	MODEL	MBH CAPACITY		FLUID TYPE	DESIGN FLUID PRESSURE	RELIEF VALVE SETTING	FLUID TEMPERATURE		FLOW RATE		MAXIMUM PRESSURE DROP	ALLOWABLE GAS PRESSURE		MINIMUM THERMAL EFFICIENCY	ELECTRICAL CHARACTERISTICS					NOTES
			INPUT	OUTPUT				ENTERING	LEAVING	DESIGN	MINIMUM		MINIMUM	MAXIMUM		AMPS	MOCP	Ø	VOLTAGE	WATTS	
HWB-1	Lochinvar	FBN750	1,999	1,923	WATER											13.0 A		3			1
HWB-2	AERCO	BMK 2000	2,000		WATER																2

NOTES:

1. EXISTING BOILER TO REPLACE HWB-1.
2. EXISTING TO REMAIN.

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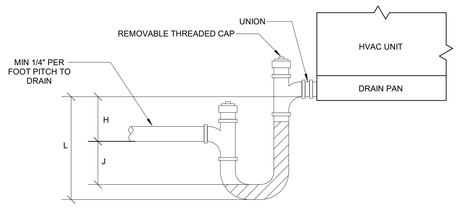
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NOTES:

1. PROVIDE CONDENSATE TRAP FOR ALL COOLING COILS.
2. CONDENSATE PIPE SIZE SHOULD MATCH UNIT CONDENSATE CONNECTION SIZE.

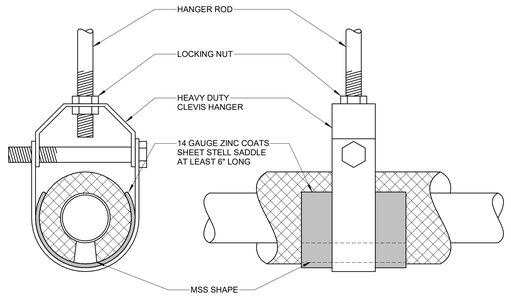
DRAIN PAN TRAPPING FOR SECTION UNDER NEGATIVE PRESSURE

L = H + J + PIPE DIAMETER WHERE:
H = 1 INCH FOR EACH INCH OF NEGATIVE PRESSURE PLUS 1 INCH
J = 1/2 H

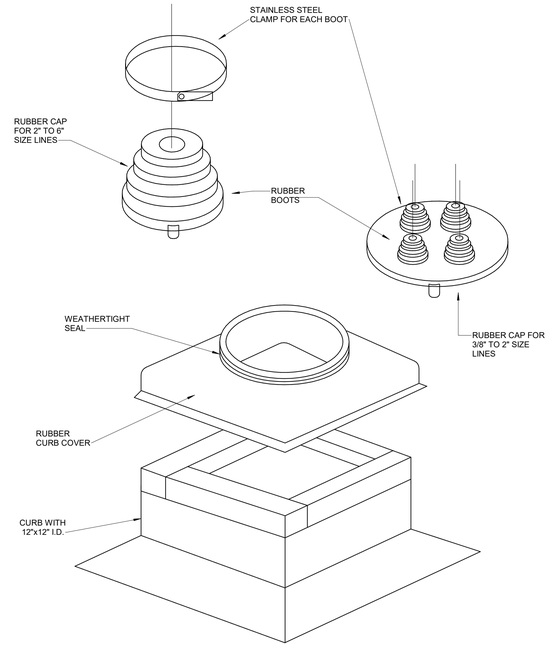
DRAIN PAN TRAPPING FOR SECTION UNDER POSITIVE PRESSURE

L = H + J + PIPE DIAMETER WHERE:
H = 1/2 INCH (MINIMUM)
J = 1/2 INCH PLUS THE UNIT POSITIVE STATIC PRESSURE AT COIL DISCHARGE (LOADED FILTERS)

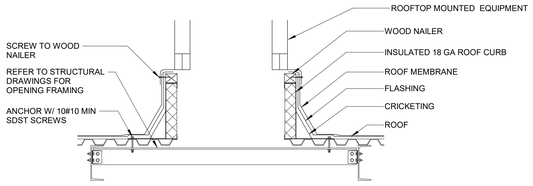
1 M002 CONDENSATE TRAP PIPING



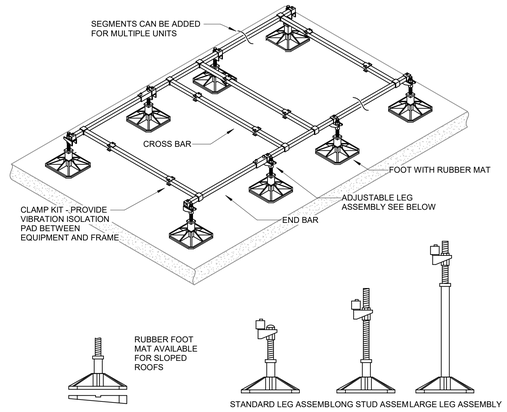
2 M002 PIPE HANGER (6" AND SMALLER)



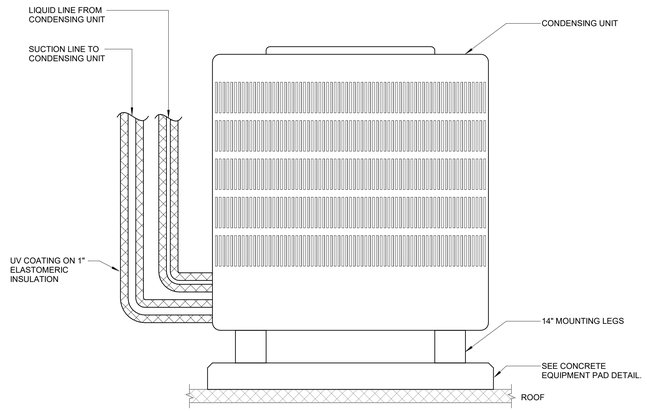
3 M002 REFRIGERANT PIPING PIPE ROOF PENETRATION DETAIL



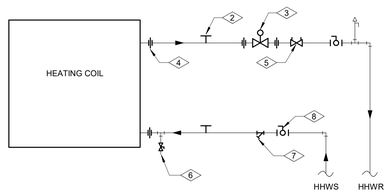
4 M002 ROOF MOUNTED EQUIPMENT DETAIL



5 M002 VRF/VRV CONDENSING UNIT MOUNTING DETAIL

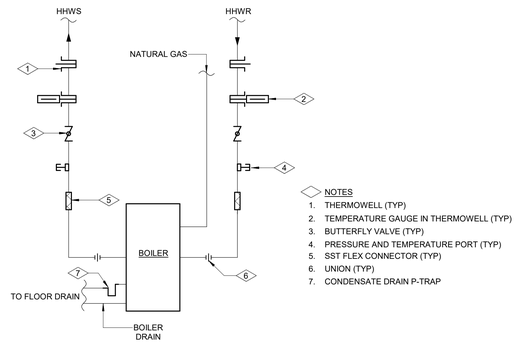


6 M002 CONDENSING UNIT MOUNTING DETAIL



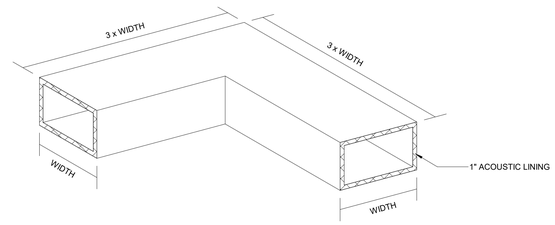
NOTES
1. MANUAL AIR VENT (TYP)
2. P/T PORT (TYP)
3. TWO WAY MODULATING CONTROL VALVE
4. UNION (TYP)
5. CALIBRATED BALANCE VALVE (TYP)
6. DRAIN VALVE W/ HOSE CONNECTION
7. STRAINER W/ 2 P/T PORTS
8. SHUT-OFF VALVE (TYP)

7 M002 HEATING COIL PIPING DETAIL - TERMINAL UNIT



NOTES
1. THERMOWELL (TYP)
2. TEMPERATURE GAUGE IN THERMOWELL (TYP)
3. BUTTERFLY VALVE (TYP)
4. PRESSURE AND TEMPERATURE PORT (TYP)
5. SST FLEX CONNECTOR (TYP)
6. UNION (TYP)
7. CONDENSATE DRAIN P-TRAP

8 M002 TYPICAL BOILER PIPING SCHEMATIC



REFER TO FLOOR PLANS FOR DUCT WIDTH

9 M002 ACOUSTIC LINED TRANSFER DUCT ELBOW

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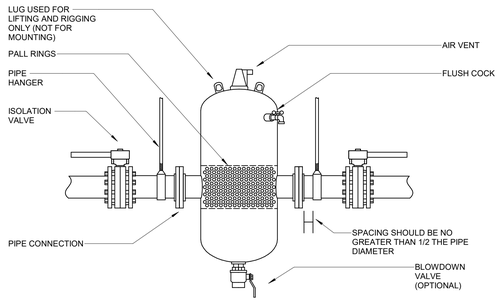
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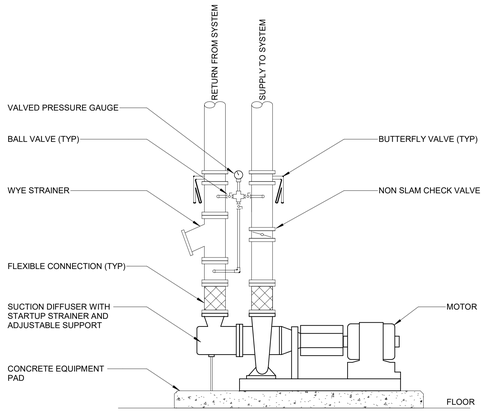
M002

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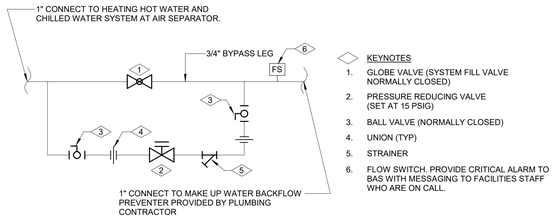
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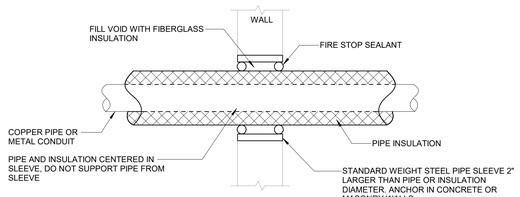
1 M003 AIR/DIRT SEPARATOR DETAIL



2 M003 BASE MOUNTED END SUCTION PUMP VARIABLE VOLUME DETAIL

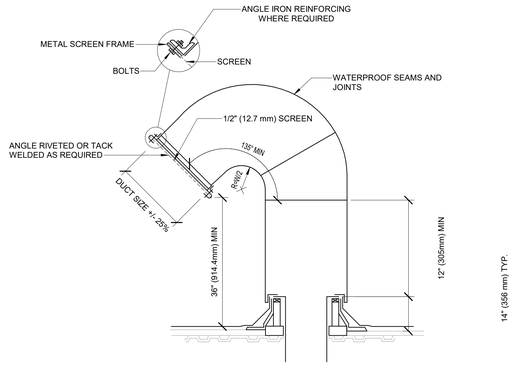


3 M003 MAKEUP WATER CONNECTION DETAIL



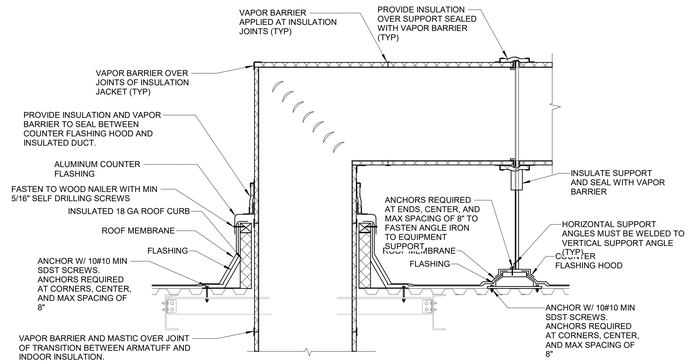
NOTE: REFER TO SPECIFICATION SECTION 232113 FOR HDPE PIPE PENETRATION REQUIREMENTS THROUGH FIRE RATED WALLS

4 M003 PIPE PENETRATION THROUGH FIRE RATED WALL



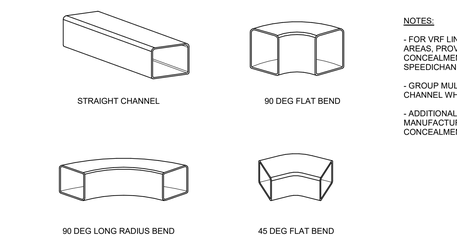
SEE ADDITIONAL FLASHING ALTERNATIVES IN THE SMACNA ARCHITECTURAL SHEET METAL MANUAL. CURBS ARE PREFERABLE FOR ALL DUCT PENETRATIONS OF ROOFS.

5 M003 RECTANGULAR GOOSENECK DETAIL



NOTES:
1. FOLLOW SMACNA GUIDELINES FOR DUCT SUPPORT AND INSULATION.
2. INSULATION SHALL BE 2" THICK ELASTOMERIC MEMBRANE INSULATION WITH 12 MIL PUNCTURE-RESISTANT MEMBRANE COMPARABLE TO ARMATUFF.
3. VAPOR BARRIER TAPE SHALL BE PROVIDED WITH PRESSURE SENSITIVE ADHESIVE.
4. DUCT SUPPORT SHALL BE AT 8' INTERVALS AND WITHIN 1' OF PENETRATION FROM ROOF.
5. SUPPORT ANGLES SHALL BE 2" X 2" X 1/8" GALVANIZED ANGLES. WELDS SHALL BE PAINTED WITH GALVANIZE PAINT.

6 M003 ROOF MOUNTED DUCT DETAIL



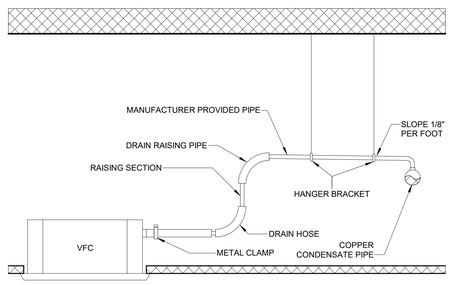
NOTES:

- FOR VRF LINESET PIPING IN EXPOSED AREAS, PROVIDE REFRIFERANT LINE CONCEALMENT EQUAL TO DIVERSITECH SPEEDICHANNEL.

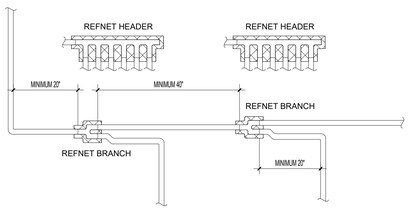
- GROUP MULTIPLE LINESETS TOGETHER IN 6" CHANNEL WHENEVER POSSIBLE.

- ADDITIONAL FITTINGS ARE AVAILABLE FROM MANUFACTURER FOR COMPLETE CONCEALMENT OF ALL EXPOSED PIPING.

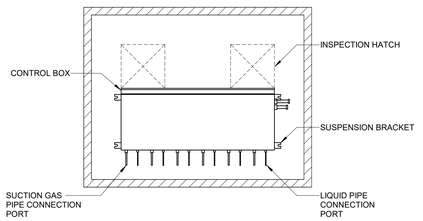
7 M003 VRF REFRIGERANT PIPING CHANNEL FOR EXPOSED AREAS

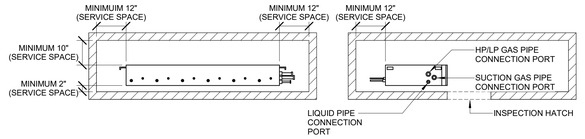


8 M003 VRF/VFV CONDENSATE LINE SCHEMATIC



10 M003 VRV REFNET AND HEADER GUIDE





9 M003 VRV BRANCH SELECTOR BOX DETAIL

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23-ASHRAE 62.1 - 2016 - OUTDOOR AIR SCHEDULE - ERV-1

ROOM NUMBER	ROOM NAME	(Az) FLOOR AREA	(Pz) ACTUAL NUMBER OF PEOPLE	(Rp) ASHRAE REQUIRED OA PER PERSON	(Ra) ASHRAE REQUIRED CFM PER SQFT	(Rp) (Pz)	(Ra) (Az)	(Vbz) BREATHING ZONE OUTDOOR AIRFLOW	(Ez) ZONE AIR DISTRIBUTION EFFECTIVENESS	(Voz) ZONE OUTDOOR AIRFLOW	COMMENTS
207	CORRIDOR	1797 SF	0	0 CFM	0.06 CFM	0 CFM	108 CFM	108 CFM	1	108 CFM	
213	ASSISTANT	484 SF	3	5 CFM	0.06 CFM	15 CFM	29 CFM	44 CFM	1	44 CFM	
213A	HR DIRECTOR OFFICE	200 SF	2	5 CFM	0.06 CFM	10 CFM	12 CFM	22 CFM	1	22 CFM	
214	CONFERENCE	710 SF	36	5 CFM	0.06 CFM	180 CFM	43 CFM	223 CFM	1	223 CFM	
215	CONFERENCE	716 SF	36	5 CFM	0.06 CFM	180 CFM	43 CFM	223 CFM	1	223 CFM	
216	CONFERENCE	717 SF	36	5 CFM	0.06 CFM	180 CFM	43 CFM	223 CFM	1	223 CFM	
217	T&L ASSISTANTS	287 SF	2	5 CFM	0.06 CFM	10 CFM	17 CFM	27 CFM	1	27 CFM	
217A	DIRECTOR OFFICE	199 SF	1	5 CFM	0.06 CFM	5 CFM	12 CFM	17 CFM	1	17 CFM	
217B	DIRECTOR OFFICE	199 SF	1	5 CFM	0.06 CFM	5 CFM	12 CFM	17 CFM	1	17 CFM	
218	CONFERENCE	514 SF	23	5 CFM	0.06 CFM	115 CFM	31 CFM	146 CFM	1	146 CFM	
218B	STORAGE	170 SF	0	5 CFM	0.06 CFM	0 CFM	10 CFM	10 CFM	1	10 CFM	
219	ASSISTANT	128 SF	1	5 CFM	0.06 CFM	5 CFM	8 CFM	13 CFM	1	13 CFM	
219B	EXECUTIVE BUSINESS DIRECTOR OFFICE	200 SF	1	5 CFM	0.06 CFM	5 CFM	12 CFM	17 CFM	1	17 CFM	
220	BREAK ROOM	389 SF	19	5 CFM	0.12 CFM	95 CFM	47 CFM	142 CFM	1	142 CFM	
221	TREASURER OPEN OFFICE	713 SF	5	5 CFM	0.06 CFM	25 CFM	43 CFM	68 CFM	1	68 CFM	
221B	TREASURER OFFICE	206 SF	1	5 CFM	0.06 CFM	5 CFM	12 CFM	17 CFM	1	17 CFM	
222	RECEPTION	193 SF	2	5 CFM	0.06 CFM	10 CFM	12 CFM	22 CFM	1	22 CFM	
223	WAITING	251 SF	0	5 CFM	0.06 CFM	0 CFM	15 CFM	15 CFM	1	15 CFM	
										1353 CFM	

23-ASHRAE 62.1 - 2016 - OUTDOOR AIR SCHEDULE - ERV-2

ROOM NUMBER	ROOM NAME	(Az) FLOOR AREA	(Pz) ACTUAL NUMBER OF PEOPLE	(Rp) ASHRAE REQUIRED OA PER PERSON	(Ra) ASHRAE REQUIRED CFM PER SQFT	(Rp) (Pz)	(Ra) (Az)	(Vbz) BREATHING ZONE OUTDOOR AIRFLOW	(Ez) ZONE AIR DISTRIBUTION EFFECTIVENESS	(Voz) ZONE OUTDOOR AIRFLOW	COMMENTS
135	OT/PT	361 SF	5	5 CFM	0.06 CFM	25 CFM	22 CFM	47 CFM	1	47 CFM	
136	BOOK ROOM	70 SF	0	5 CFM	0.06 CFM	0 CFM	4 CFM	4 CFM	1	4 CFM	
137	FILES	60 SF	0	5 CFM	0.06 CFM	0 CFM	4 CFM	4 CFM	1	4 CFM	
137B	STOR.	63 SF	0	5 CFM	0.06 CFM	0 CFM	4 CFM	4 CFM	1	4 CFM	
138	WORK ROOM	174 SF	1	5 CFM	0.06 CFM	5 CFM	10 CFM	15 CFM	1	15 CFM	
138A	CLINIC	94 SF	3	5 CFM	0.06 CFM	15 CFM	6 CFM	21 CFM	1	21 CFM	
138B	PSYC OFFICE	92 SF	1	5 CFM	0.06 CFM	5 CFM	6 CFM	11 CFM	1	11 CFM	
138C	RR	26 SF	0	5 CFM	0.06 CFM	0 CFM	2 CFM	2 CFM	1	2 CFM	
139	VAULT	37 SF	0	5 CFM	0.06 CFM	0 CFM	2 CFM	2 CFM	1	2 CFM	
140	GENERAL OFFICE	428 SF	3	5 CFM	0.06 CFM	15 CFM	26 CFM	41 CFM	1	41 CFM	
141	CONFERENCE ROOM	123 SF	7	5 CFM	0.06 CFM	35 CFM	7 CFM	42 CFM	1	42 CFM	
142	NURSE OFFICE	124 SF	1	5 CFM	0.06 CFM	5 CFM	7 CFM	12 CFM	1	12 CFM	
143	PRINCIPAL	172 SF	1	5 CFM	0.06 CFM	5 CFM	10 CFM	15 CFM	1	15 CFM	
144	WAITING	127 SF	1	5 CFM	0.06 CFM	5 CFM	8 CFM	13 CFM	1	13 CFM	
205	CORRIDOR	1294 SF	0	5 CFM	0.06 CFM	0 CFM	78 CFM	78 CFM	1	78 CFM	
										310 CFM	

23-ASHRAE 62.1 - 2016 - OUTDOOR AIR SCHEDULE - ERV-3

ROOM NUMBER	ROOM NAME	(Az) FLOOR AREA	(Pz) ACTUAL NUMBER OF PEOPLE	(Rp) ASHRAE REQUIRED OA PER PERSON	(Ra) ASHRAE REQUIRED CFM PER SQFT	(Rp) (Pz)	(Ra) (Az)	(Vbz) BREATHING ZONE OUTDOOR AIRFLOW	(Ez) ZONE AIR DISTRIBUTION EFFECTIVENESS	(Voz) ZONE OUTDOOR AIRFLOW	COMMENTS
170B	RESOURCE	99 SF	17	10.0 CFM	0.12 CFM	170 CFM	12 CFM	182 CFM	1	182 CFM	
171	KINDERGARTEN CLASSROOM	730 SF	19	10.0 CFM	0.12 CFM	190 CFM	88 CFM	278 CFM	1	278 CFM	
172	KINDERGARTEN CLASSROOM	730 SF	19	10.0 CFM	0.12 CFM	190 CFM	88 CFM	278 CFM	1	278 CFM	
173	KINDERGARTEN CLASSROOM	730 SF	19	10.0 CFM	0.12 CFM	190 CFM	88 CFM	278 CFM	1	278 CFM	
188	KITCHEN	1592 SF	15	7.5 CFM	0.12 CFM	113 CFM	191 CFM	303 CFM	1	303 CFM	
										1318 CFM	

23-ASHRAE 62.1 - 2016 - OUTDOOR AIR SCHEDULE - ERV-4

ROOM NUMBER	ROOM NAME	(Az) FLOOR AREA	(Pz) ACTUAL NUMBER OF PEOPLE	(Rp) ASHRAE REQUIRED OA PER PERSON	(Ra) ASHRAE REQUIRED CFM PER SQFT	(Rp) (Pz)	(Ra) (Az)	(Vbz) BREATHING ZONE OUTDOOR AIRFLOW	(Ez) ZONE AIR DISTRIBUTION EFFECTIVENESS	(Voz) ZONE OUTDOOR AIRFLOW	COMMENTS
125	FAMILY /ELA	655 SF	17	10 CFM	0.12 CFM	170 CFM	79 CFM	249 CFM	1	249 CFM	
127	KINDERGARTEN CLASSROOM	739 SF	19	10 CFM	0.12 CFM	190 CFM	89 CFM	279 CFM	1	279 CFM	
150	FAMILY / ELA	490 SF	16	10 CFM	0.12 CFM	160 CFM	59 CFM	219 CFM	1	219 CFM	
										746 CFM	

23-ASHRAE 62.1 - 2016- OUTDOOR AIR SCHEDULE - ERV-5

ROOM NUMBER	ROOM NAME	(Az) FLOOR AREA	(Pz) ACTUAL NUMBER OF PEOPLE	(Rp) ASHRAE REQUIRED OA PER PERSON	(Ra) ASHRAE REQUIRED CFM PER SQFT	(Rp) (Pz)	(Ra) (Az)	(Vbz) BREATHING ZONE OUTDOOR AIRFLOW	(Ez) ZONE AIR DISTRIBUTION EFFECTIVENESS	(Voz) ZONE OUTDOOR AIRFLOW	COMMENTS
108	FAMILY / ELA	865 SF	20	10 CFM	0.12 CFM	200 CFM	104 CFM	304 CFM	1	304 CFM	
108A	RESOURCE	101 SF	0	5 CFM	0.06 CFM	0 CFM	6 CFM	6 CFM	1	6 CFM	
108B	RESOURCE	102 SF	0	5 CFM	0.06 CFM	0 CFM	6 CFM	6 CFM	1	6 CFM	
										316 CFM	

23-ASHRAE 62.1 - 2016 - OUTDOOR AIR SCHEDULE - ERV-6

ROOM NUMBER	ROOM NAME	(Az) FLOOR AREA	(Pz) ACTUAL NUMBER OF PEOPLE	(Rp) ASHRAE REQUIRED OA PER PERSON	(Ra) ASHRAE REQUIRED CFM PER SQFT	(Rp) (Pz)	(Ra) (Az)	(Vbz) BREATHING ZONE OUTDOOR AIRFLOW	(Ez) ZONE AIR DISTRIBUTION EFFECTIVENESS	(Voz) ZONE OUTDOOR AIRFLOW	COMMENTS
116	FAMILY / ELA	1072 SF	24	10 CFM	0.12 CFM	240 CFM	129 CFM	369 CFM	1	369 CFM	
116A	RESOURCE	105 SF	0	5 CFM	0.06 CFM	0 CFM	6 CFM	6 CFM	1	6 CFM	
116B	RESOURCE	105 SF	0	5 CFM	0.06 CFM	0 CFM	6 CFM	6 CFM	1	6 CFM	
201	CORRIDOR	806 SF	0	0 CFM	0.06 CFM	0 CFM	48 CFM	48 CFM	1	48 CFM	
										430 CFM	

23-ASHRAE 62.1 - 2016 - OUTDOOR AIR SCHEDULE - UNIT VENTS

ROOM NUMBER	ROOM NAME	(Az) FLOOR AREA	(Pz) ACTUAL NUMBER OF PEOPLE	(Rp) ASHRAE REQUIRED OA PER PERSON	(Ra) ASHRAE REQUIRED CFM PER SQFT	(Rp) (Pz)	(Ra) (Az)	(Vbz) BREATHING ZONE OUTDOOR AIRFLOW	(Ez) ZONE AIR DISTRIBUTION EFFECTIVENESS	(Voz) ZONE OUTDOOR AIRFLOW	COMMENTS
101	PRESCHOOL CLASSROOM	888 SF	20	10 CFM	0.12 CFM	200 CFM	107 CFM	307 CFM	1	307 CFM	
102	PRESCHOOL CLASSROOM	669 SF	16	10 CFM	0.12 CFM	160 CFM	80 CFM	240 CFM	1	240 CFM	
104	PRESCHOOL CLASSROOM	673 SF	16	10 CFM	0.12 CFM	160 CFM	81 CFM	241 CFM	1	241 CFM	
105	PRESCHOOL CLASSROOM	706 SF	18	10 CFM	0.12 CFM	180 CFM	85 CFM	265 CFM	1	265 CFM	
106	PRESCHOOL CLASSROOM	670 SF	17	10 CFM	0.12 CFM	170 CFM	80 CFM	250 CFM	1	250 CFM	
107	PRESCHOOL CLASSROOM	699 SF	17	10 CFM	0.12 CFM	170 CFM	84 CFM	254 CFM	1	254 CFM	
109	PRESCHOOL CLASSROOM	708 SF	17	10 CFM	0.12 CFM	170 CFM	85 CFM	255 CFM	1	255 CFM	
110A	TEACHER WORKROOM	412 SF	21	10 CFM	0.12 CFM	210 CFM	49 CFM	259 CFM	1	259 CFM	
110B	PRESCHOOL CLASSROOM	707 SF	18	10 CFM	0.12 CFM	180 CFM	85 CFM	265 CFM	1	265 CFM	
111	PRESCHOOL CLASSROOM	649 SF	16	10 CFM	0.12 CFM	160 CFM	78 CFM	238 CFM	1	238 CFM	
112	PRESCHOOL CLASSROOM	845 SF	18	10 CFM	0.12 CFM	180 CFM	101 CFM	281 CFM	1	281 CFM	
113	ART CLASSROOM	674 SF	18	10 CFM	0.18 CFM	180 CFM	121 CFM	301 CFM	1	301 CFM	
114	KINDERGARTEN CLASSROOM	779 SF	18	10 CFM	0.12 CFM	180 CFM	93 CFM	273 CFM	1	273 CFM	
114B	KINDERGARTEN CLASSROOM	690 SF	18	10 CFM	0.12 CFM	180 CFM	83 CFM	263 CFM	1	263 CFM	
115	KINDERGARTEN CLASSROOM	701 SF	18	10 CFM	0.12 CFM	180 CFM	84 CFM	264 CFM	1	264 CFM	
117	KINDERGARTEN CLASSROOM	701 SF	18	10 CFM	0.12 CFM	180 CFM	84 CFM	264 CFM	1	264 CFM	
118	KINDERGARTEN CLASSROOM	701 SF	18	10 CFM	0.12 CFM	180 CFM	84 CFM	264 CFM	1	264 CFM	
119	KINDERGARTEN CLASSROOM	707 SF	18	10 CFM	0.12 CFM	180 CFM	85 CFM	265 CFM	1	265 CFM	
120	KINDERGARTEN CLASSROOM	740 SF	19	10 CFM	0.12 CFM	190 CFM	89 CFM	279 CFM	1	279 CFM	
121	KINDERGARTEN CLASSROOM	721 SF	21	10 CFM	0.12 CFM	210 CFM	87 CFM	297 CFM	1	297 CFM	
123	KINDERGARTEN CLASSROOM	718 SF	22	10 CFM	0.12 CFM	220 CFM	86 CFM	306 CFM	1	306 CFM	
124	MUSIC	1022 SF	17	10 CFM	0.06 CFM	170 CFM	61 CFM	231 CFM	1	231 CFM	
156	CLC	1016 SF	20	10 CFM	0.12 CFM	200 CFM	122 CFM	322 CFM	1	322 CFM	
158	SPECIAL ED CLASSROOM	722 SF	21	10 CFM	0.12 CFM	210 CFM	87 CFM	297 CFM	1	297 CFM	
160	SPECIAL ED CLASSROOM	742 SF	21	10 CFM	0.12 CFM	210 CFM	89 CFM	299 CFM	1	299 CFM	
161	SPECIAL ED CLASSROOM	865 SF	22	10 CFM	0.12 CFM	220 CFM	104 CFM	324 CFM	1	324 CFM	

23-ASHRAE 62.1 - 2016- OUTDOOR AIR SCHEDULE - AHUs

ROOM NUMBER	ROOM NAME	(Az) FLOOR AREA	(Pz) ACTUAL NUMBER OF PEOPLE	(Rp) ASHRAE REQUIRED OA PER PERSON	(Ra) ASHRAE REQUIRED CFM PER SQFT	(Rp) (Pz)	(Ra) (Az)	(Vbz) BREATHING ZONE OUTDOOR AIRFLOW	(Ez) ZONE AIR DISTRIBUTION EFFECTIVENESS	(Voz) ZONE OUTDOOR AIRFLOW	COMMENTS
191	STUDY HALL/CAFETERIA	2780 SF	30	20 CFM	0.06 CFM	600 CFM	167 CFM	767 CFM	1	767 CFM	
193	STAGE	1237 SF	0	5 CFM	0.06 CFM	0 CFM	74 CFM	74 CFM	1	74 CFM	
194	GYMNASIUM	6853 SF	30	20 CFM	0.06 CFM	600 CFM	411 CFM	1011 CFM	1	1011 CFM	
										1852 CFM	

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EARLY CHILDHOOD ESSER RENOVATIONS
825 WAYCROSS ROAD, CINCINNATI, OHIO 45240

WINTON WOODS CITY SCHOOLS
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OHIO 45240

ISSUANCES

03-31-22	BID / PERMIT

VENTILATION SCHEDULES

DATE 03-31-22

COMM NO. 2021091.01

M004

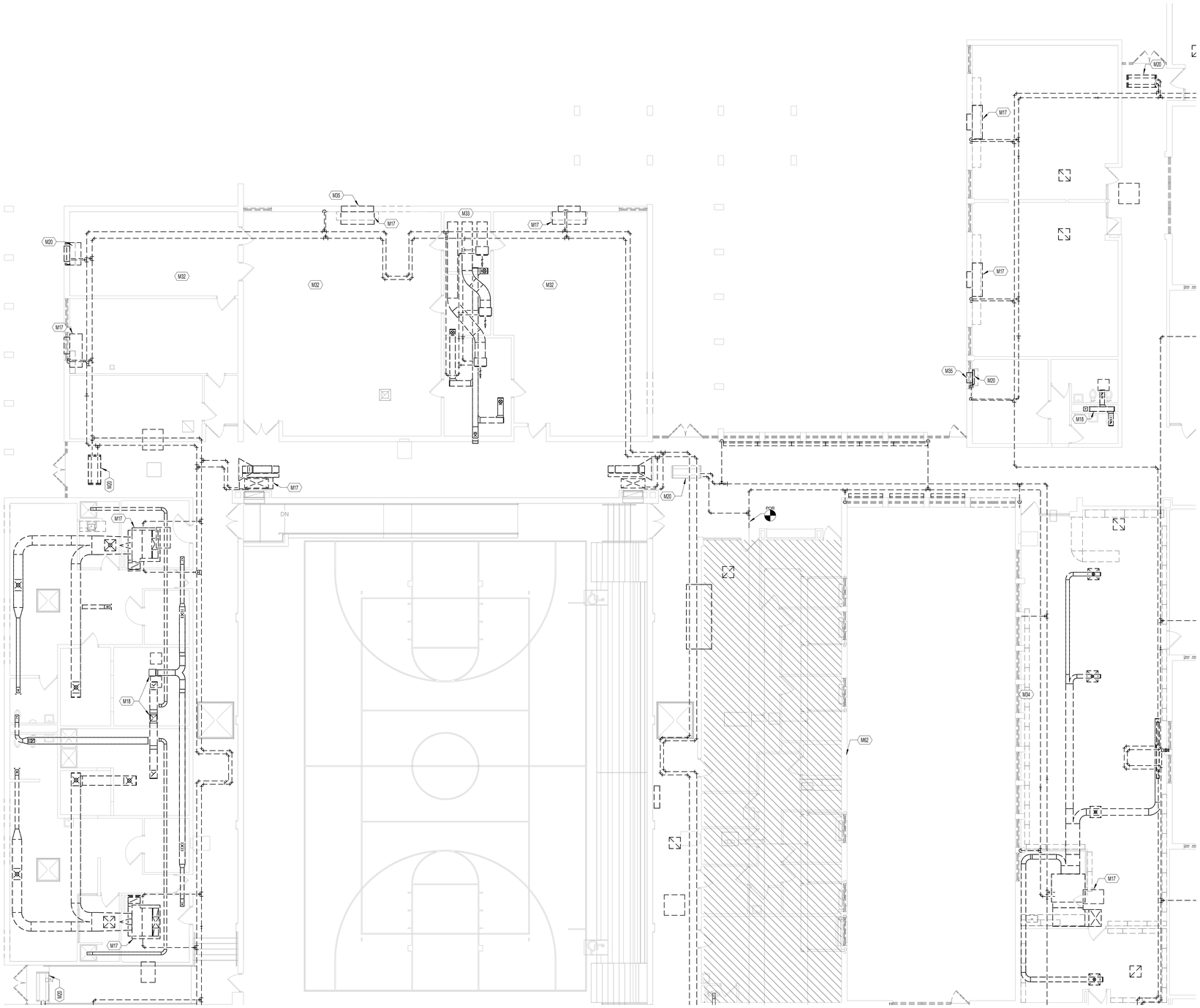
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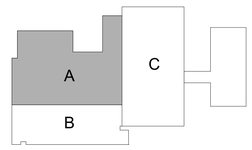
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KEYNOTES

M17	REMOVE EXISTING UNIT VENT.
M18	REMOVE EXISTING DUCTWORK, GRILLES AND ASSOCIATED SUPPORTS.
M20	REMOVE EXISTING CABINET UNIT HEATER.
M32	REMOVE EXISTING DUCTWORK, DIFFUSERS AND SUPPORTS IN THIS AREA.
M33	EXISTING IT CLOSET AIR CONDITIONING SYSTEM IN THIS AREA. PROTECT DURING CONSTRUCTION.
M34	REMOVE EXISTING FIN TUBE HEATER AND ASSOCIATED ITEMS.
M35	SEAL EXISTING OPENING.
M62	EXISTING HVAC TO REMAIN. PROTECT DURING CONSTRUCTION.



1 / M010 FIRST FLOOR DEMOLITION PLAN - AREA A
1/8" = 1'-0"



KEY PLAN
NTS

0'-1" REFERENCE LINE

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825 WAYCROSS ROAD, SUITE A, CINCINNATI, OHIO 45240

ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

MECHANICAL DEMOLITION PLAN AREA A

DATE 03-31-22

COMM NO. 2021091.01

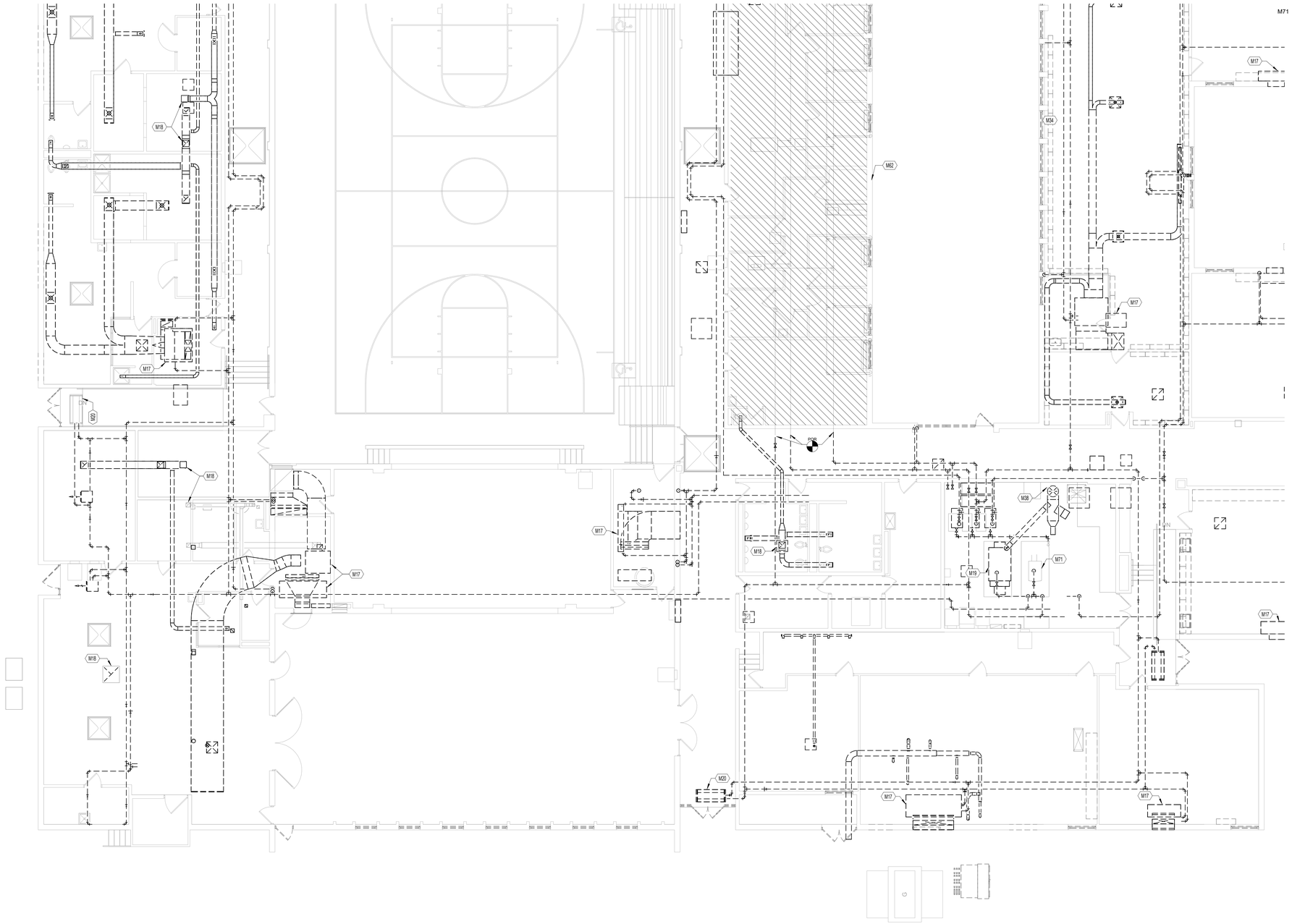
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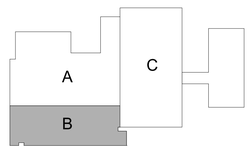
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KEYNOTES

M17	REMOVE EXISTING UNIT VENT.
M18	REMOVE EXISTING DUCTWORK, GRILLES AND ASSOCIATED SUPPORTS.
M19	REMOVE EXISTING BOILER.
M20	REMOVE EXISTING CABINET UNIT HEATER.
M34	REMOVE EXISTING FIN TUBE HEATER AND ASSOCIATED ITEMS.
M38	DEMOLISH BOILER BREECHING. PATCH ROOF IN ACCORDANCE WITH MANITAINING WARRANTY
M62	EXISTING HVAC TO REMAIN. PROTECT DURING CONSTRUCTION.
M71	EXISTING BOILER FLUE TO REMAIN. PROTECT DURING CONSTRUCTION. VERIFY COMBUSTION AIR INTAKE IN FIELD.



1 / M011 FIRST FLOOR DEMOLITION PLAN AREA B
1/8" = 1'-0"



KEY PLAN
NTS

0'-1" REFERENCE LINE

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ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

MECHANICAL DEMOLITION PLAN AREA B

DATE 03-31-22

COMM NO. 2021091.01

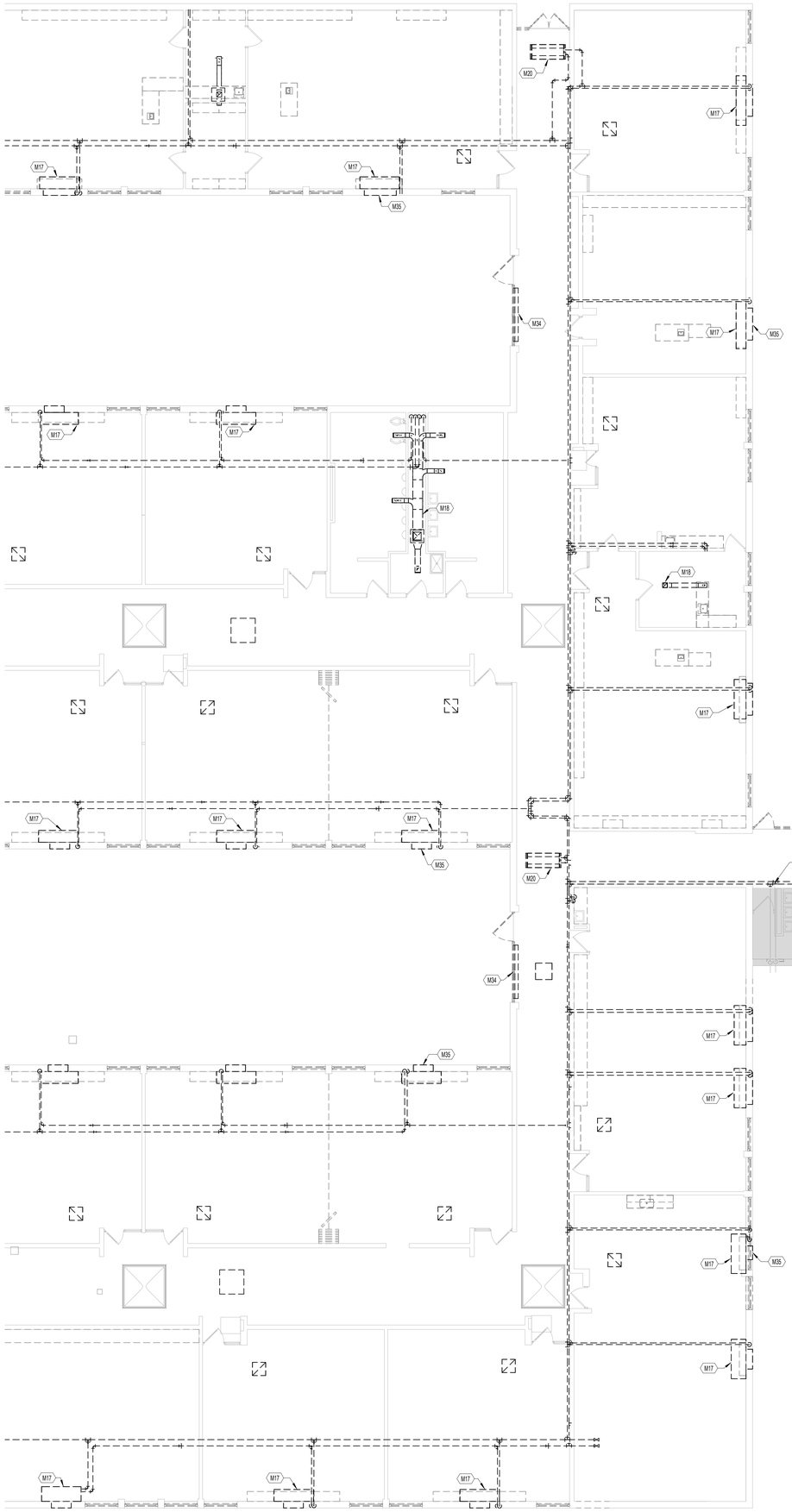
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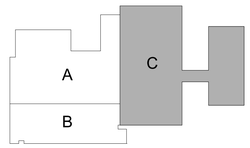
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KEYNOTES

M17	REMOVE EXISTING UNIT VENT.
M18	REMOVE EXISTING DUCTWORK, GRILLES AND ASSOCIATED SUPPORTS.
M20	REMOVE EXISTING CABINET UNIT HEATER.
M34	REMOVE EXISTING FIN TUBE HEATER AND ASSOCIATED ITEMS.
M35	SEAL EXISTING OPENING.
M42	EXISTING HYDRONIC HEATING AND EXHAUST SYSTEM TO REMAIN. PROTECT DUCTWORK AND GRILLES DURING CONSTRUCTION. PROTECT HYDRONIC LINES FOR RECONNECTION TO NEW HOT WATER PIPING.



1 M012 FIRST FLOOR DEMOLITION PLAN AREA C
1/8" = 1'-0"



KEY PLAN
NTS

0'-1" REFERENCE LINE

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ISSUANCES	
11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

MECHANICAL DEMOLITION PLAN AREA C

DATE 03-31-22

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M012

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KEYNOTES

M22 SKYLIGHT TO REMAIN. PROTECT DURING CONSTRUCTION.

M23 EXHAUST FAN TO BE DEMOLISHED. CAP EXISTING CURB.

M24 ATMOSPHERIC ROOF VENT TO BE DEMOLISHED. PROTECT EXISTING CURB FOR REUSE.

M25 EXHAUST FAN TO BE DEMOLISHED. PROTECT EXISTING CURB FOR REUSE.

M27 SUPPLY VENT TO BE DEMOLISHED. PROTECT EXISTING CURB FOR REUSE.

M31 ROOFTOP UNIT TO BE DEMOLISHED. CAP EXISTING CURB. REMOVE WIRING BACK TO ASSOCIATED ELECTRICAL PANEL AND CAP.

M37 COMBUSTION AIR VENT TO BE DEMOLISHED. PROTECT EXISTING CURB REUSE.

M38 DEMOLISH BOILER BREECHING. PATCH ROOF IN ACCORDANCE WITH MANITAINING WARRANTY

M39 EXISTING ROOF AIR INLET TO REMAIN. PROTECT DURING CONSTRUCTION.



1 / M020 MECHANICAL ROOF DEMOLITION PLAN
1/16" = 1'-0"

0'-1" REFERENCE LINE

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ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

MECHANICAL ROOF DEMOLITION PLAN

DATE 03-31-22

COMM NO. 2021091.01

M020

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KEYNOTES

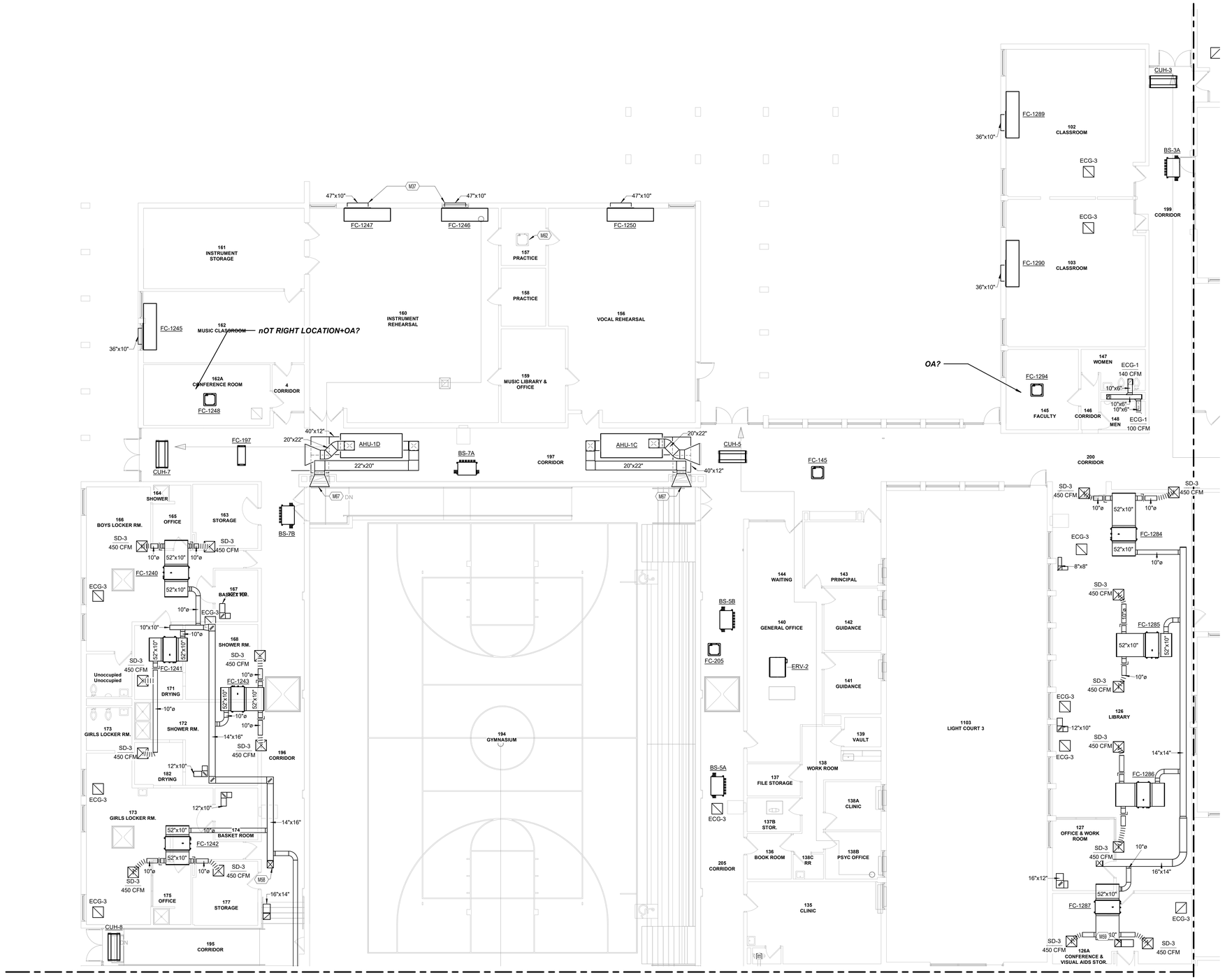
M37 COMBUSTION AIR VENT TO BE DEMOLISHED. PROTECT EXISTING CURB REUSE.

M58 SUPPLY /RETURN DUCT TO ERV-3. COORDINATE SUPPLY DUCT LOCATION WITH EXISTING FRAMED OPENING IN STRUCTURE.

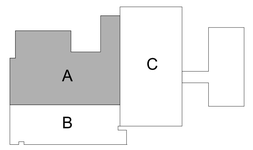
M59 SUPPLY /RETURN DUCT TO ERV-4. COORDINATE RETURN DUCT LOCATION WITH EXISTING FRAMED OPENING IN STRUCTURE.

M62 EXISTING HVAC TO REMAIN. PROTECT DURING CONSTRUCTION.

M67 RE-USE EXISTING SUPPLY GRILLE, BALANCE TO 3500 CFM.



1 M100 FIRST FLOOR DUCTWORK PLAN AREA A
1/8" = 1'-0"



KEY PLAN
NTS

0'-1" REFERENCE LINE

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WINTON WOODS CITY SCHOOLS
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OHIO 45240

ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

FIRST FLOOR DUCTWORK PLAN AREA A

DATE 03-31-22

COMM NO. 2021091.01

M100

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KEYNOTES

M9 UP TO EF-9.

M36 DESIGN OF KITCHEN DOES NOT REQUIRE KITCHEN EXHAUST SYSTEM PER OMC 507.3. EXISTING TYPE 1 HOOD AND EXHAUST SYSTEM TO REMAIN IN PLACE.

M37 COMBUSTION AIR VENT TO BE DEMOLISHED. PROTECT EXISTING CURB REUSE.

M58 SUPPLY /RETURN DUCT TO ERV-3. COORDINATE SUPPLY DUCT LOCATION WITH EXISTING FRAMED OPENING IN STRUCTURE.

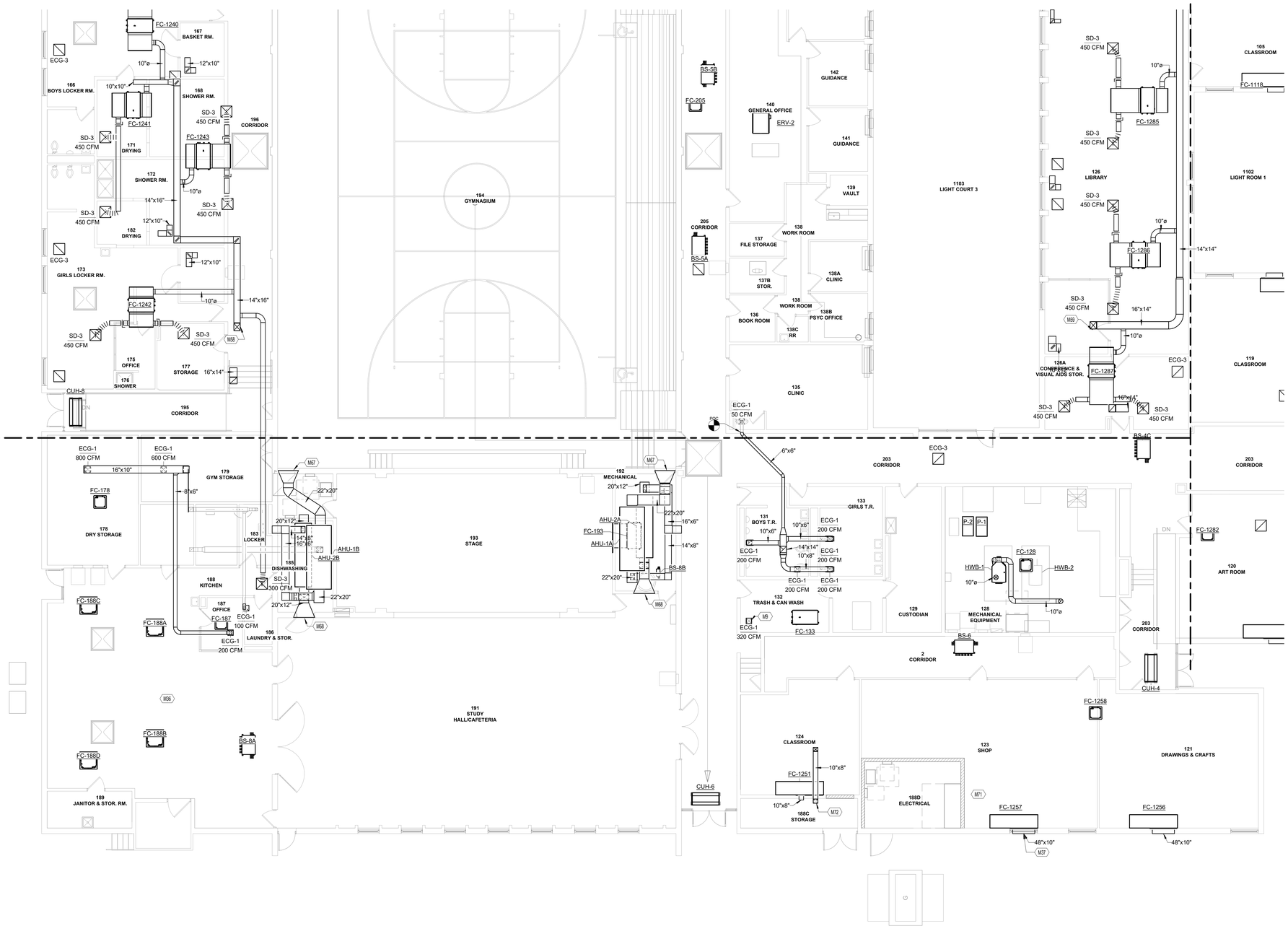
M59 SUPPLY /RETURN DUCT TO ERV-4. COORDINATE RETURN DUCT LOCATION WITH EXISTING FRAMED OPENING IN STRUCTURE.

M67 RE-USE EXISTING SUPPLY GRILLE, BALANCE TO 3500 CFM.

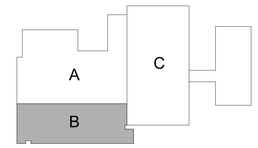
M68 RE-USE EXISTING SUPPLY GRILLE, BALANCE TO 1500 CFM.

M71 EXISTING BOILER FLUE TO REMAIN. PROTECT DURING CONSTRUCTION. VERIFY COMBUSTION AIR INTAKE IN FIELD.

M72 FOR ALL EXISTING CURBS BEING REUSED FOR AIR INLETS AND OUTLETS, PROVIDE A NEW GRAVITY VENT OR INTAKE HOOD PER THE SPECIFICATIONS. BASIS OF DESIGN TO BE GREENHECK GRSI/GRSR SIZE 20, SIZED TO FIT ON EXISTING ROOF CURB OF APPROXIMATELY 30X30". PROVIDE WITH GRAVITY DAMPERS.



1 M101 FIRST FLOOR DUCTWORK PLAN AREA B
1/8" = 1'-0"



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ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

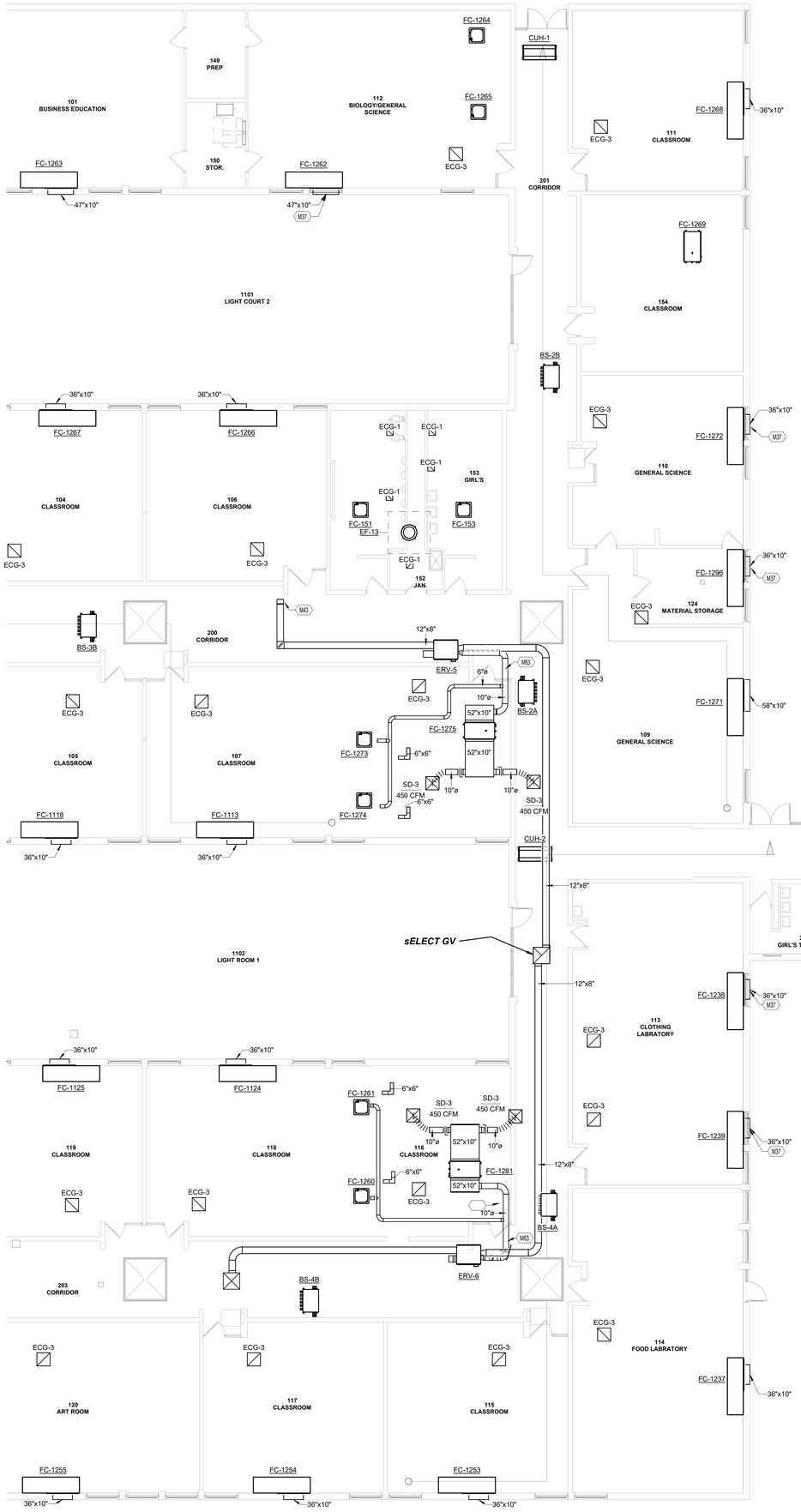
FIRST FLOOR DUCTWORK PLAN AREA B

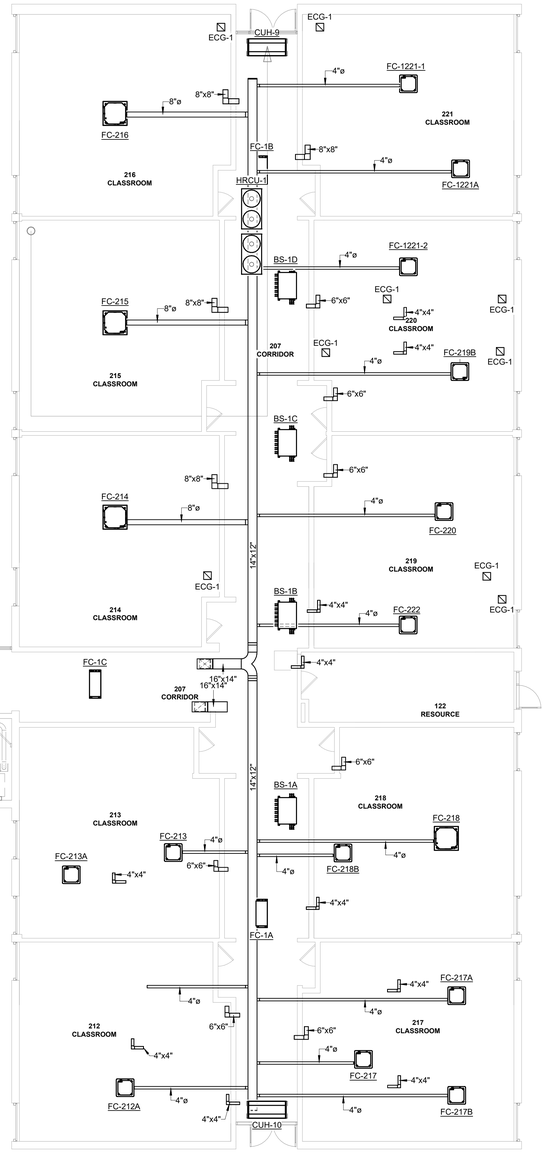
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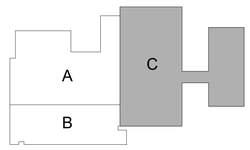
KEYNOTES

M37 COMBUSTION AIR VENT TO BE DEMOLISHED. PROTECT EXISTING CURB REUSE.

M43 SUPPLY DUCT AND RETURN DUCT THROUGH EXISTING FRAMED OPENING IN STRUCTURE.

M63 DUCT HEATING COIL FOR ERV. REFER ERV SCHEDULE FOR MORE DETAIL.

1 M102 FIRST FLOOR DUCTWORK PLAN AREA C
1/8" = 1'-0"



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ISSUANCES

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GENERAL NOTES:

A. VAV BOX CONTROLLER ACCESS IS SHOWN AS A HASHED BOX.
B. SUPPLY AND RETURN PIPING IS 3/4" UNLESS NOTED OTHERWISE.
C. DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.
D. CONDENSATE PIPING IS 1" UNLESS NOTED OTHERWISE.

KEYNOTES

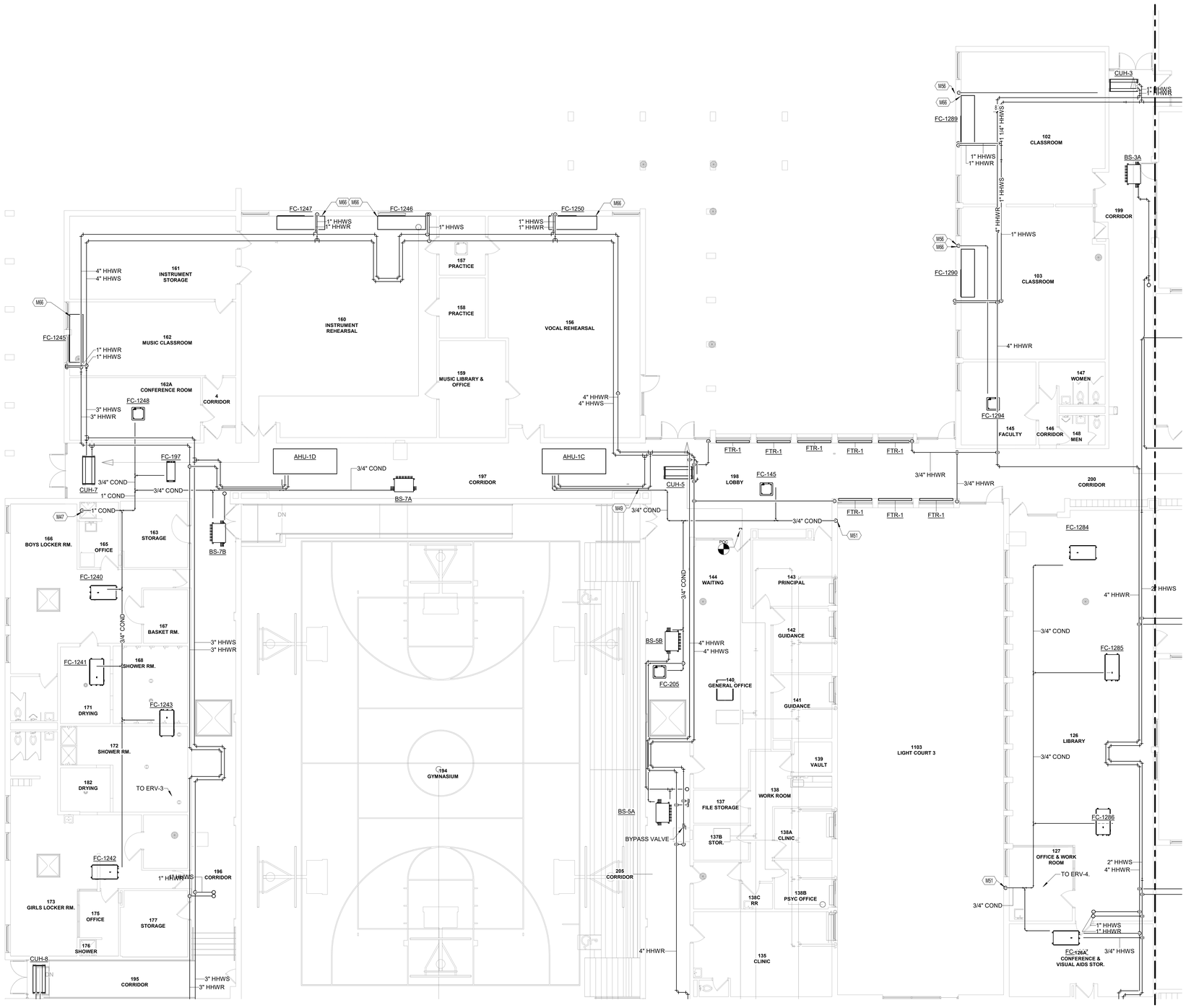
M47 1" CONDENSATE DRAIN DOWN TO SHOWER DRAIN.

M49 1-1/2" HHWS/HHWR TO AHU.

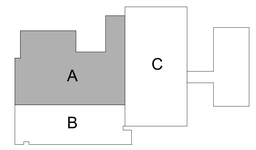
M51 ROUTE THE CONDENSATION PIPE TO DISCHARGE THROUGH EXTERIOR WITH FRENCH DRAIN.

M56 CONNECT CONDENSATE DRAIN TO CONDENSATE DRAIN OF FAN COIL AND ROUTE THE CONDENSATION PIPE TO DISCHARGE THROUGH EXTERIOR WITH FRENCH DRAIN.

M66 PROVIDE FRENCH DRAIN FOR AIR CONDITIONIG CONDENSATE PER DETAIL.



1 M200 FIRST FLOOR MECHANICAL PIPING PLAN AREA A
1/8" = 1'-0"



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FIRST FLOOR PIPING PLAN AREA A

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M200

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GENERAL NOTES:

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B. SUPPLY AND RETURN PIPING IS 3/4" UNLESS NOTED OTHERWISE.
C. DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.
D. CONDENSATE PIPING IS 1" UNLESS NOTED OTHERWISE.

KEYNOTES

M46 SIZE EXPANSION TANKS AND AIR SEPARATOR BASED ON FINAL SYSTEM VOLUME.

M48 1" CONDENSATE DRAIN DOWN TO MOP SINK.

M49 1-1/2" HHWS/HHWR TO AHU.

M50 2" HHWS/HHWR TO AHU.

M51 ROUTE THE CONDENSATION PIPE TO DISCHARGE THROUGH EXTERIOR WITH FRENCH DRAIN.

M52 1-1/2" HHWS/HHWR TO AHU-1A.

M53 2" HHWS/HHWR TO AHU-2A

M54 1" CONDENSATE DRAIN FROM AHU-1A &2A.

M55 1-1/4" CONDENSATE DRAIN DOWN TO MOP SINK.

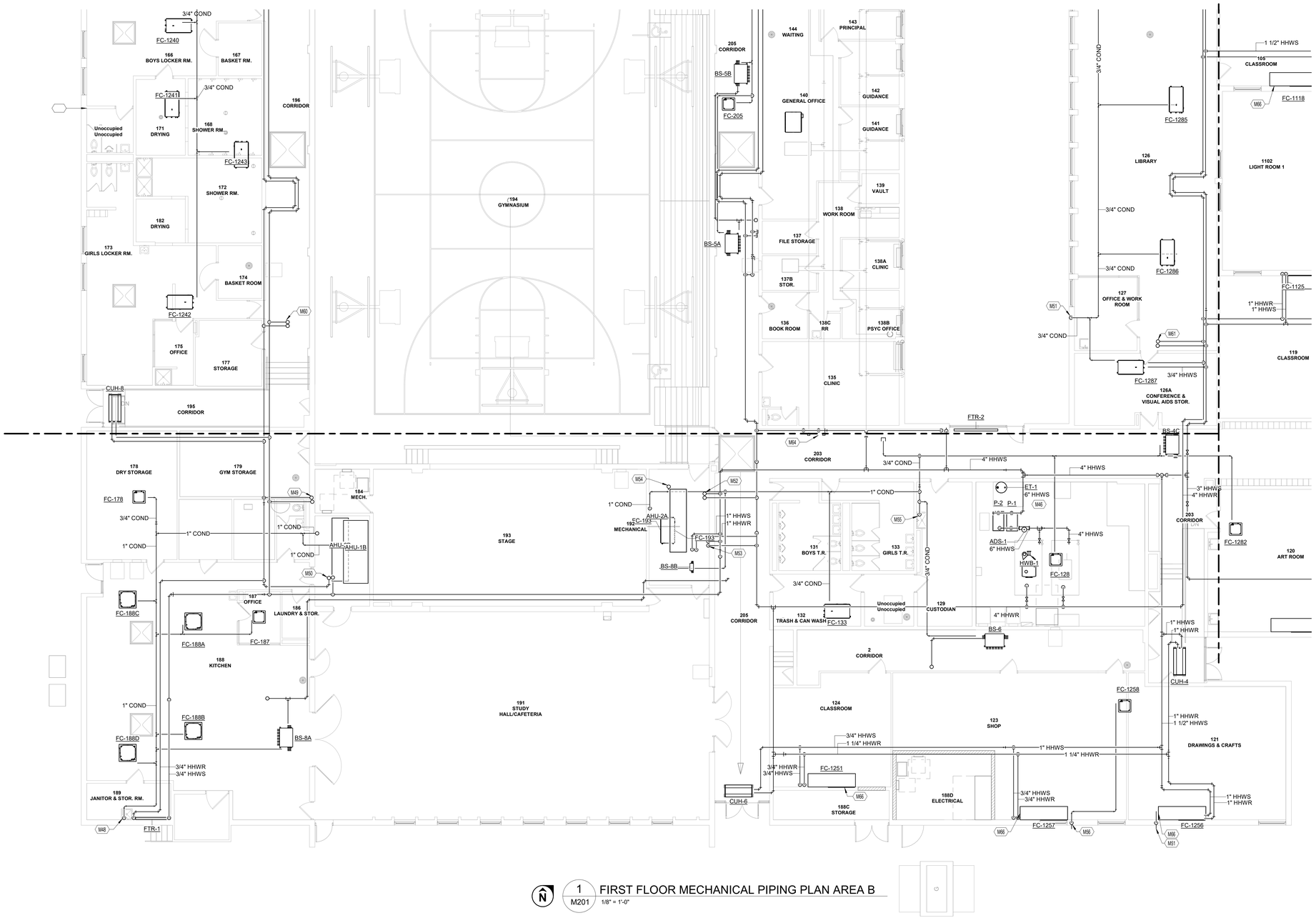
M56 CONNECT CONDENSATE DRAIN TO CONDENSATE DRAIN OF FAN COIL AND ROUTE THE CONDENSATION PIPE TO DISCHARGE THROUGH EXTERIOR WITH FRENCH DRAIN.

M60 1" HHWS/HHWR TO ERV-3.

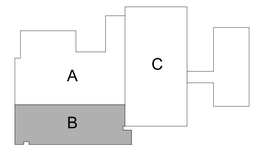
M61 1" HHWS/HHWR TO ERV-4.

M64 EXTEND EXISTING HWR&S TO NEW HEADERS.

M66 PROVIDE FRENCH DRAIN FOR AIR CONDITIONIG CONDENSATE PER DETAIL.



1 / M201 FIRST FLOOR MECHANICAL PIPING PLAN AREA B
1/8" = 1'-0"



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GENERAL NOTES:

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B. SUPPLY AND RETURN PIPING IS 3/4" UNLESS NOTED OTHERWISE.
C. DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.
D. CONDENSATE PIPING IS 1" UNLESS NOTED OTHERWISE.

KEYNOTES

M45 EXISTING EXHAUST DUCT AND HYDRONIC HEATERS IN THIS AREA TO REMAIN. CONNECT HOT WATER SUPPLY AND RETURN LINES TO NEW PIPING IN CORRIDOR. REPLACE EXHAUST FAN ON ROOF PER SCHEDULE.

M48 1" CONDENSATE DRAIN DOWN TO MOP SINK.

M51 ROUTE THE CONDENSATION PIPE TO DISCHARGE THROUGH EXTERIOR WITH FRENCH DRAIN.

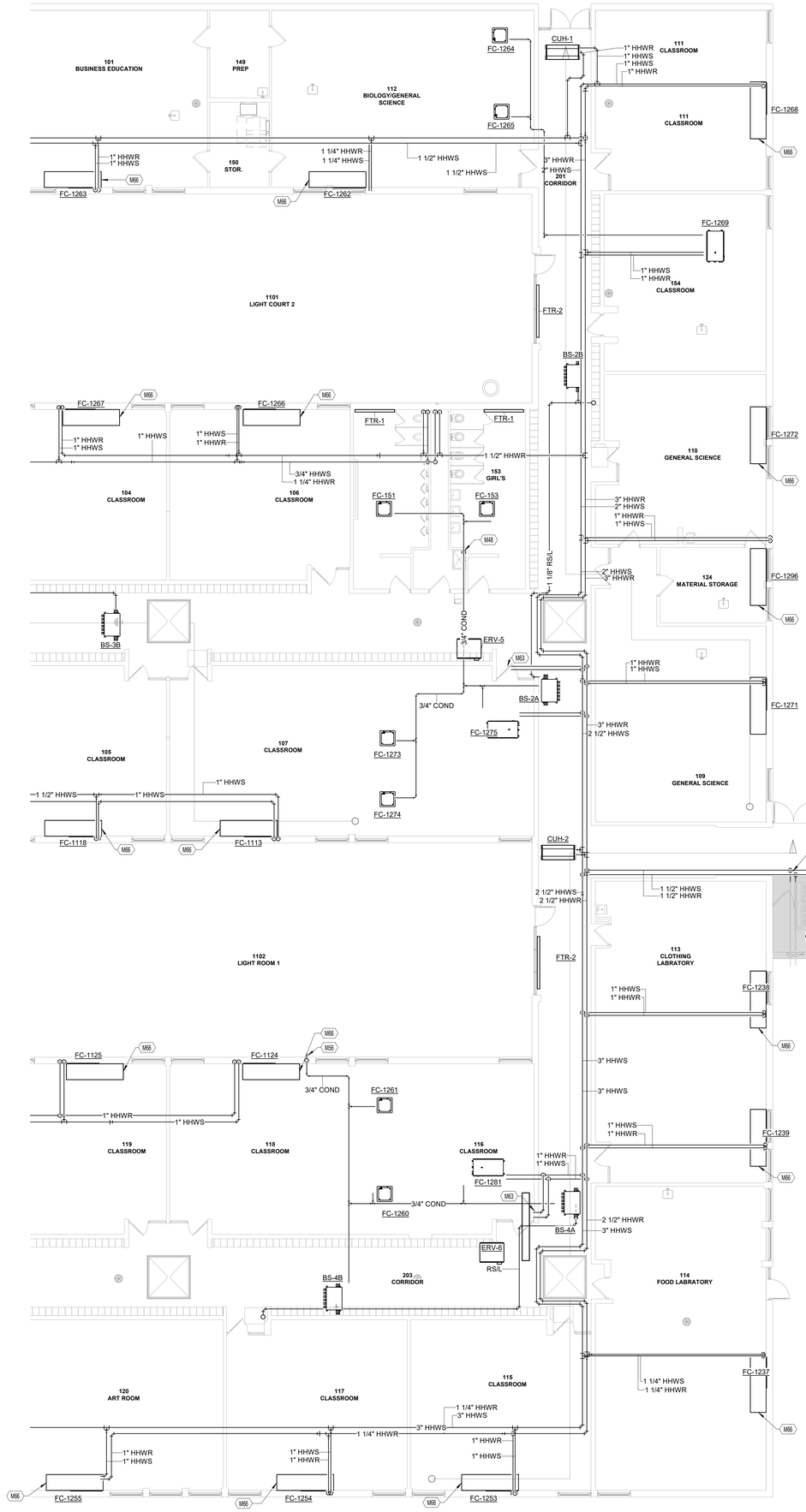
M56 CONNECT CONDENSATE DRAIN TO CONDENSATE DRAIN OF FAN COIL AND ROUTE THE CONDENSATION PIPE TO DISCHARGE THROUGH EXTERIOR WITH FRENCH DRAIN.

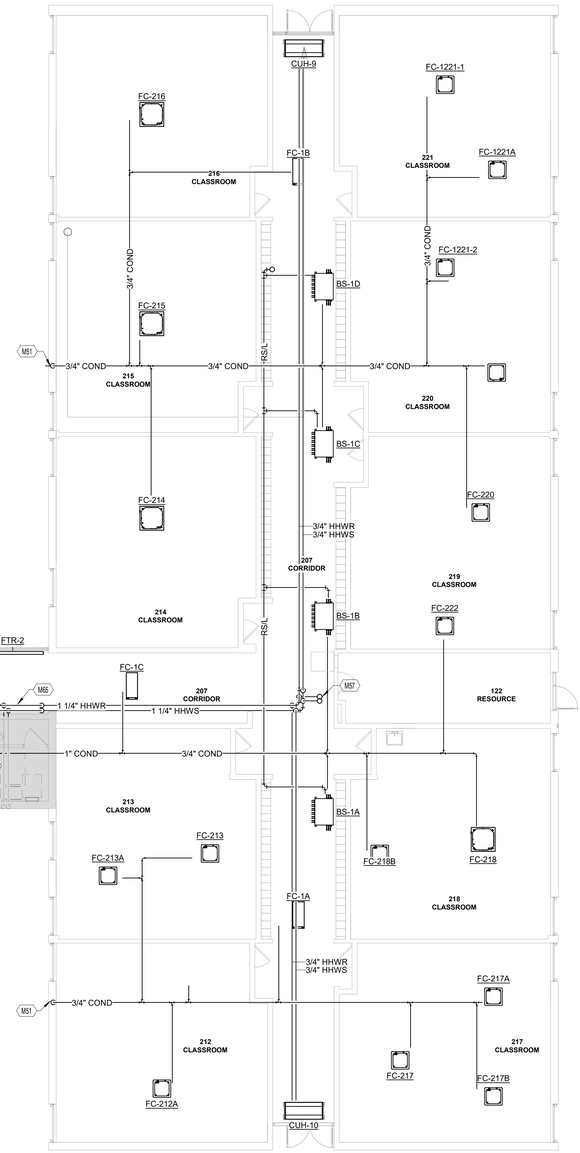
M57 1" HHWS/HHWR TO ERV-1.

M63 DUCT HEATING COIL FOR ERV. REFER ERV SCHEDULE FOR MORE DETAIL.

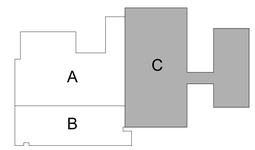
M65 DIFFERENTIAL PRESSURE SENSOR FOR HOT WATER SYSTEM.

M66 PROVIDE FRENCH DRAIN FOR AIR CONDITIONIG CONDENSATE PER DETAIL.





1 M202 FIRST FLOOR MECHANICAL PIPING PLAN AREA C
1/8" = 1'-0"



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KEYNOTES

M1 EF-1 EXISTING TO REMAIN.

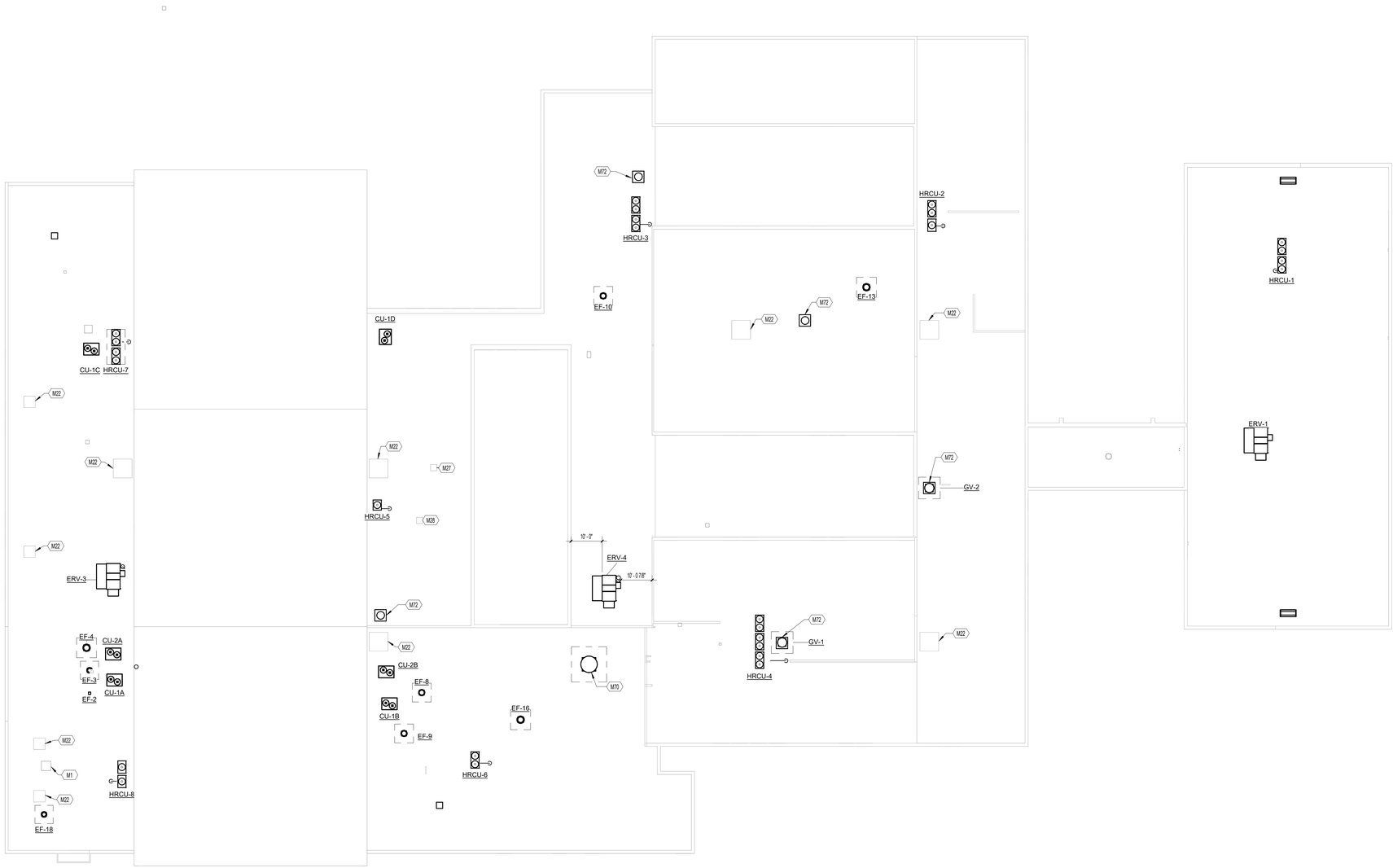
M22 SKYLIGHT TO REMAIN. PROTECT DURING CONSTRUCTION.

M27 SUPPLY VENT TO BE DEMOLISHED. PROTECT EXISTING CURB FOR REUSE.

M28 SUPPLY VENT TO BE DEMOLISHED. CAP EXISTING CURB.

M70 FOR BOILER ROOM AIR INTAKE CURB BEING REUSED, PROVIDE A NEW GRAVITY VENT OR INTAKE HOOD PER THE SPECIFICATIONS. BASIS OF DESIGN TO BE GREENHECK GRSI/GRSR SIZE 20, SIZED TO FIT ON EXISTING ROOF CURB OF APPROXIMATELY 40"X40". 2000 CFM. PROVIDE WITH GRAVITY DAMPERS.

M72 FOR ALL EXISTING CURBS BEING REUSED FOR AIR INLETS AND OUTLETS, PROVIDE A NEW GRAVITY VENT OR INTAKE HOOD PER THE SPECIFICATIONS. BASIS OF DESIGN TO BE GREENHECK GRSI/GRSR SIZE 20, SIZED TO FIT ON EXISTING ROOF CURB OF APPROXIMATELY 30X30". PROVIDE WITH GRAVITY DAMPERS.



1 M300 MECHANICAL ROOF PLAN
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MECHANICAL ROOF PLAN

DATE 03-31-22

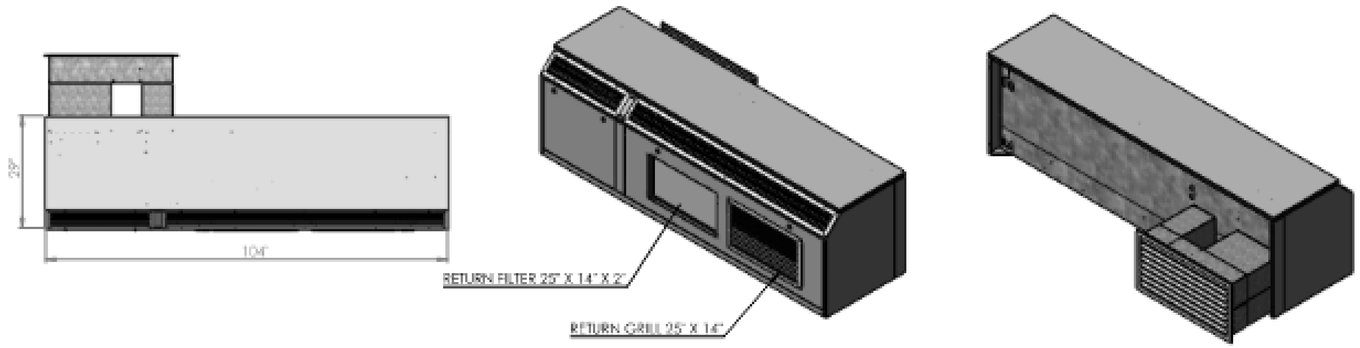
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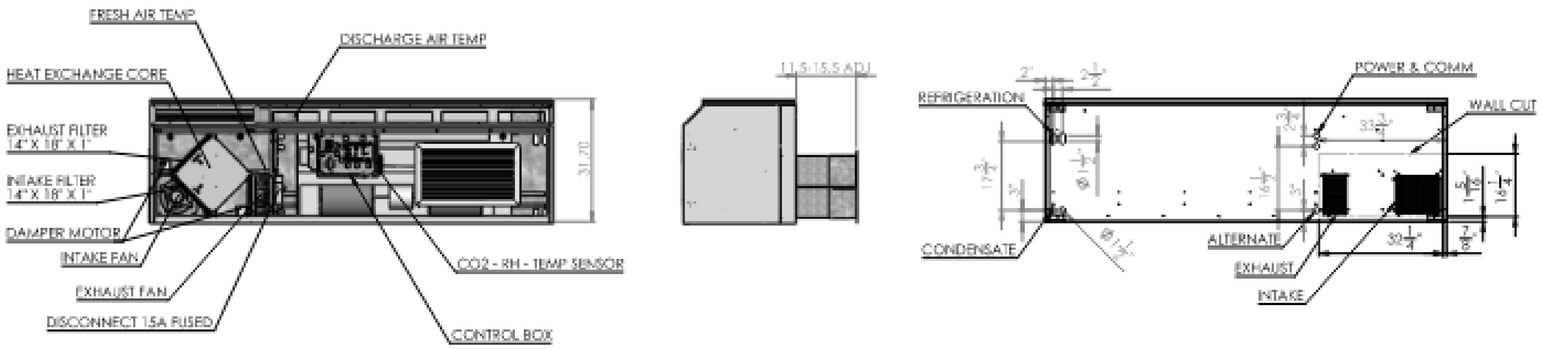
M300

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KEYNOTES





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SIZE: C | DWG. NO. | REV

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CONTROL SCHEMATIC LEGEND

SYMBOL	DEFINITION
	MOTORIZED 3-WAY VALVE
	MOTORIZED 2-WAY VALVE
T	PIPE TEMPERATURE SENSOR
H PS L	DIFFERENTIAL PRESSURE SENSOR
T	AVERAGING TEMPERATURE SENSOR
T	POINT TEMPERATURE SENSOR
VFD	VARIABLE FREQUENCY DRIVE (VFD)
T	ZONE TEMPERATURE SENSOR
V	ZONE VOC SENSOR
C	ZONE CO2 SENSOR
H	ZONE HUMIDITY SENSOR
AFMS	DUCT-MOUNTED AIRFLOW MONITORING STATION
AFMS RF	FAN-MOUNTED AIRFLOW MONITORING STATION
HC	COIL (HEATING/COOLING)
	DUCT CONTINUATION
SMOKE	DUCT MOUNTED SMOKE DETECTOR
RF	FAN - SUPPLY / RETURN / EXHAUST
H DP	FILTER WITH DIFFERENTIAL PRESSURE SENSOR
FZ	FREEZESTAT
H	HUMIDITY SENSOR
M	MOTORIZED DAMPER - PARALLEL BLADES
M	MOTORIZED DAMPER - OPPOSED BLADES
PS	PLENUM SENSOR

SINGLE ZONE AHU CONTROL SEQUENCE

FOR GYM AND MUSCLE ROOM (DINING) UNITS

CONTROL SEQUENCES ARE FOR EACH UNIT. ALL FOUR UNITS SERVING THE GYM, AND BOTH UNITS SERVING THE MUSCLE ROOM, SHALL BE CONTROLLED BY A COMMON THERMOSTAT AND CARBON DIOXIDE SENSOR IN EACH ROOM.

A. RUN CONDITIONS: THE SUPPLY FAN SHALL RUN ANYTIME THE SPACE IS IN OCCUPIED MODE AS DETERMINED BY THE ADJUSTABLE TIME SCHEDULE, OPTIMAL START, PUSHBUTTON OVERRIDE, OR DURING UNOCCUPIED HEATING/COOLING.

B. ZONE OPTIMAL START: THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

C. MORNING WARM-UP: IF THE SPACE IS IN HEATING MODE DURING OPTIMAL START PERIOD, THE UNIT SHALL GO INTO MORNING WARM-UP AS DIRECTED BY THE ZONE OPTIMAL START. THE OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED AND THE RETURN AIR DAMPER SHALL REMAIN OPEN DURING THIS OPERATION. THE SUPPLY AIR TEMPERATURE SHALL BE SET TO 85 DEG F (ADJ.). THE SUPPLY FAN SHALL RUN AT MAX CFM. ONCE THE ASSOCIATED SPACE TEMPERATURES ARE SATISFIED THE UNIT SHALL GO INTO NORMAL OCCUPIED MODE.

D. MORNING COOL-DOWN: IF THE SPACE IS IN COOLING MODE DURING OPTIMAL START PERIOD, THE UNIT SHALL GO INTO MORNING COOL-DOWN AS DIRECTED BY THE ZONE OPTIMAL START. THE OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED DURING THIS OPERATION AND THE RETURN AIR DAMPER SHALL REMAIN OPEN UNLESS ECONOMIZER IS ENABLED. THE SUPPLY AIR DRY BULB TEMPERATURE SHALL BE SET TO 53 DEG F (ADJ.). THE SUPPLY FAN SHALL RUN AT MAX CFM. ONCE THE ASSOCIATED SPACE TEMPERATURES ARE SATISFIED THE UNIT SHALL GO INTO NORMAL OCCUPIED MODE.

E. FREEZE PROTECTION: THE FANS SHALL SHUT DOWN AND THE CONTROLLER SHALL GENERATE A FREEZESTAT ALARM UPON DETECTING TEMPERATURE LESS THAN 40 DEG F DIRECTLY UPSTREAM OF THE COOLING COIL. THE HEATING COIL VALVES SHALL OPEN TO 100% (ADJ.), THE OUTDOOR AIR DAMPERS SHALL CLOSE, AND THE RETURN AIR DAMPER SHALL OPEN.

F. SUPPLY FAN: THE SUPPLY FAN SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINTS ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN TO SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A 10 MINUTE (ADJ.) MINIMUM RUNTIME. ALARMS SHALL BE PROVIDED AS FOLLOWS:
1. SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
2. SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
3. SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

G. PRESSURE RELIEF: WHENEVER THE SUPPLY FAN IS RUNNING, THE GRAVITY RELIEF DAMPER SHALL MODULATE TO MAINTAIN POSITIVE BUILDING PRESSURE AT 0.05" W.G. ALARMS SHALL BE PROVIDED AS FOLLOWS.

H. SUPPLY TEMPERATURE CONTROL: THE SUPPLY AIR TEMPERATURE SHALL BE RESET AND CONTROLLED AS INDICATED BELOW.
1. SUPPLY AIR DRY BULB TEMPERATURE SHALL BE 55.0 DEG F (ADJ) IN COOLING MODE.
2. SUPPLY AIR DRY BULB TEMPERATURE SHALL BE 70.0 DEG F (ADJ) IF SPACE TEMPERATURE IS IN DEADBAND AND UNIT IS COMING OUT OF COOLING MODE.
3. SUPPLY AIR DRY BULB TEMPERATURE SHALL BE 75.0 DEG F (ADJ) IF SPACE TEMPERATURE IS IN DEADBAND AND UNIT IS COMING OUT OF HEATING MODE.
4. SUPPLY AIR DRY BULB TEMPERATURE SHALL BE 85.0 DEG F (ADJ) IN HEATING MODE.

I. HEATING/COOLING COIL VALVES: THE COIL VALVES SHALL MODULATE TO MAINTAIN SUPPLY AIR TEMPERATURE DRY BULB SETPOINT BASED ON BELOW:
1. THE COOLING SHALL BE ENABLED WHENEVER:
   a. SUPPLY AIR TEMPERATURE IS ABOVE THE SUPPLY AIR DRY BULB TEMPERATURE SETPOINT.
   b. AND THE SUPPLY FAN STATUS IS ON.
2. THE HEATING SHALL BE ENABLED WHENEVER:
   a. SUPPLY AIR TEMPERATURE IS BELOW THE SUPPLY AIR DRY BULB TEMPERATURE SETPOINT.
   b. AND THE SUPPLY FAN STATUS IS ON.

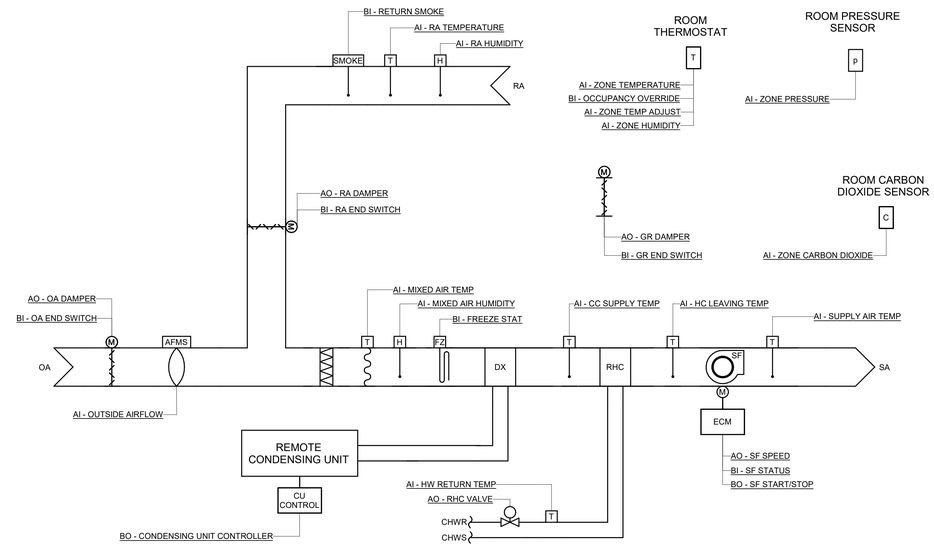
J. DEHUMIDIFICATION MODE CONTROL / COOLING COIL: IF SPACE RELATIVE HUMIDITY REACHES 60%, THE UNIT SHALL GO INTO DEHUMIDIFICATION MODE. THE COOLING COIL DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE RESET TO 52°F (ADJ.) DURING DEHUMIDIFICATION. IF AFTER TEN MINUTES RELATIVE HUMIDITY SETPOINT IS STILL NOT SATISFIED, INCREASE AIR HANDLER SUPPLY FANSPEED 4 HZ EVERY TEN MINUTES UNTIL HUMIDITY SETPOINT IS ACHIEVED. MODULATE HEATING COIL TO MAINTAIN SPACE DRY BULB SETPOINT. IF AIR HANDLER SUPPLY AIRFLOW IS RESET TO CONTROL HUMIDITY, HEATING COIL SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

K. OUTDOOR AND RETURN AIR DAMPERS: THE OUTDOOR AND RETURN AIR DAMPERS SHALL OPEN WHEN AIR HANDLING UNIT IS IN OCCUPIED MODE. THE OUTDOOR AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN SPACE CO2 LEVEL BELOW 1000 PPM. GRAVITY RELIEF DAMPER SHALL MODULATE TO MAINTAIN POSITIVE BUILDING PRESSURE AT 0.025" W.G.

L. ECONOMIZER MODE (OCCUPIED OR UNOCCUPIED)
1. IF OUTSIDE AIR TEMPERATURE IS BETWEEN 69 DEG F AND 55 DEG F AND SPACE TEMPERATURE IS ABOVE COOLING SETPOINT, UNIT SHALL BE 100% OUTSIDE AIR.
2. IF OUTSIDE AIR TEMPERATURE IS LESS THAN 55 DEG F AND SPACE TEMPERATURE IS ABOVE COOLING SETPOINT, UNIT SHALL MODULATE OUTDOOR AND RETURN AIR DAMPERS TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT. OUTDOOR AIR PERCENTAGE SHALL NOT EXCEED 40% OF TOTAL AIR HANDLER AIRFLOW. WHEN UNIT MODULATES OUTDOOR AIR PERCENTAGE TO MINIMUM, UNIT SHALL COME OUT OF ECONOMIZER MODE.

M. UNOCCUPIED MODE: UNIT SHALL REMAIN OFF IF SPACE IS WITHIN UNOCCUPIED TEMPERATURE SETPOINTS. WHEN SPACE TEMPERATURE FALLS OUTSIDE UNOCCUPIED SPACE TEMPERATURE SETPOINTS.
   a. OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND RETURN DAMPER SHALL BE FULLY OPENED, UNLESS ECONOMIZER MODE IS POSSIBLE.
   b. SUPPLY FAN SHALL START, AND SUPPLY FAN AND PRESSURE RELIEF DAMPER SHALL MODULATE PER SEQUENCE POINTS F AND G.
   c. THE COIL VALVES SHALL MODULATE PER SEQUENCE POINTS H AND I.

N. RETURN AIR SMOKE DETECTOR: THE CONTROLLER SHALL SHUT DOWN THE AIR HANDLING UNIT UPON DETECTION OF SMOKE IN THE RETURN DUCT.



2 M600 AHU W/ HEAT WHEEL CONTROL SCHEMATIC

23-AHU CONTROL POINT SCHEDULE

POINT VALUE AND NAME	SOFTWARE POINTS		
	TREND	ALARM	SHOW ON GRAPHIC
AI - CC SUPPLY TEMP	No	No	No
AI - DISCHARGE AIR TEMP	Yes	No	Yes
AI - ENTERING DX COIL TEMPERATURE	Yes	No	Yes
AI - HC LEAVING TEMP	No	No	No
AI - HW RETURN TEMP	No	No	No
AI - LEAVING DX COIL TEMPERATURE	Yes	No	Yes
AI - MIXED AIR HUMIDITY	No	No	No
AI - MIXED AIR TEMP	No	No	No
AI - OUTSIDE AIRFLOW	No	No	No
AI - RA HUMIDITY	No	No	No
AI - RA TEMPERATURE	No	No	No
AI - SUPPLY AIR TEMP	No	No	No
AI - ZONE CARBON DIOXIDE	No	No	No
AI - ZONE HUMIDITY	No	No	No
AI - ZONE PRESSURE	No	No	No
AI - ZONE TEMP ADJUST	No	No	No
AI - ZONE TEMPERATURE	No	No	No
AO - CONDENSING UNIT CONTROLLER	Yes	No	Yes
AO - OA DAMPER	No	No	Yes
AO - RA DAMPER	No	No	<varies>
AO - RHC VALVE	<varies>	No	<varies>
AO - SF SPEED	No	No	No
BI - FREEZE STAT	No	No	No
BI - OA END SWITCH	No	No	Yes
BI - OCCUPANCY OVERRIDE	No	No	No
BI - RA END SWITCH	No	No	No
BI - RETURN SMOKE	No	No	No
BI - SF STATUS	No	No	No
BO - CONDENSING UNIT CONTROLLER	No	No	No
BO - SF START/STOP	No	No	No

SPACE SETPOINTS

SPACE TYPE	OCCUPIED		UNOCCUPIED		RELATIVE HUMIDITY MAXIMUM		
	HEATING	COOLING	HEATING	COOLING	OCCUPIED	UNOCCUPIED	SUMMER UNOCCUPIED
TECHNOLOGY ROOM	N/A	70	N/A	70	50%	60%	65%
BOILER ROOM	N/A	80	N/A	80	50%	60%	65%
GYMNASIUM	70	75	65	80	50%	60%	65%
ALL OTHER	70	75	65	80	50%	60%	65%

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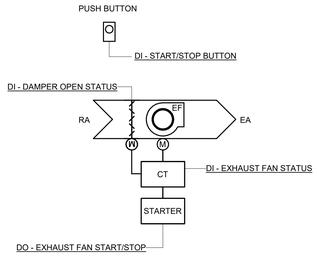
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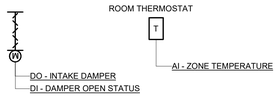
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1 M601 EXHAUST FAN CONTROL SCHEMATIC

GENERAL EXHAUST FAN CONTROL SEQUENCE

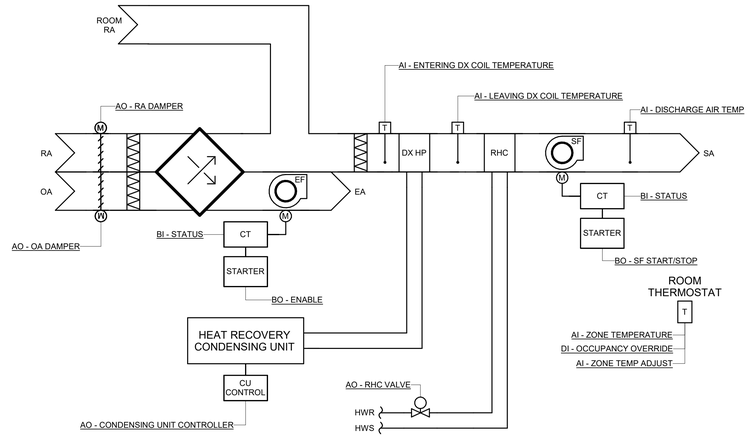
FAN SHALL RUN WHEN ASSOCIATED FAN COIL UNITS ARE RUNNING IN OCCUPIED MODE.

BOILER ROOM EXHAUST FAN CONTROL SEQUENCE

EXHAUST FAN SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE OF 80 DEG F. INTAKE DAMPER SHALL OPEN WHEN FAN IS ENERGIZED.

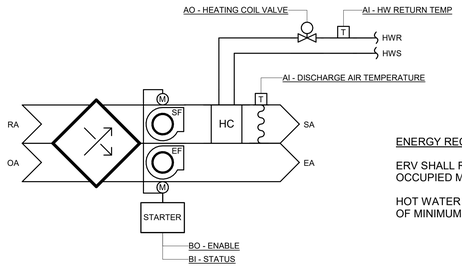
UNIT VENTILATOR CONTROL SEQUENCE

1. OCCUPIED MODE
   1. OA DAMPER SHALL OPEN. EXHAUST FAN SHALL RUN.
   2. NORMAL: SUPPLY FAN SHALL RUN AT MINIMUM SPEED WHEN UNIT IS IN OCCUPIED MODE AND SPACE TEMPERATURE IS WITHIN DEADBAND. HEATING AND COOLING VALVES SHALL BE CLOSED.
   3. COOLING: SUPPLY FAN SPEED AND COOLING VALVE SHALL MODULATE TO SATISFY LOAD WHEN SPACE TEMPERATURE RISES ABOVE DEADBAND.
   4. DEHUMIDIFICATION SEQUENCE:
   5. HEATING: SUPPLY FAN SPEED AND HEATING VALVE SHALL MODULATE TO SATISFY LOAD WHEN SPACE TEMPERATURE FALLS BELOW DEADBAND.
   6. DEHUMIDIFICATION MODE: WHEN RETURN RELATIVE HUMIDITY RISES ABOVE 50%, UNIT SHALL RUN IN DRY MODE.
2. UNOCCUPIED MODE:
   1. OA DAMPER SHALL CLOSE. EXHAUST FAN SHALL NOT RUN.
   2. NORMAL: SUPPLY FAN SHALL BE OFF WHEN UNIT IS IN UNOCCUPIED MODE AND SPACE TEMPERATURE IS WITHIN DEADBAND. HEATING AND COOLING VALVES SHALL BE CLOSED.
   3. COOLING: WHEN SPACE TEMPERATURE RISES ABOVE DEADBAND, SUPPLY FAN SPEED AND COOLING VALVE SHALL GO TO MAXIMUM UNTIL SPACE TEMPERATURE FALLS BY 10 DEG F.
   4. HEATING: WHEN SPACE TEMPERATURE FALLS BELOW DEADBAND, SUPPLY FAN SPEED AND HEATING VALVE SHALL GO TO MAXIMUM UNTIL SPACE TEMPERATURE INCREASES BY 10 DEG F.
3. DEHUMIDIFICATION MODE CONTROL / COOLING COIL:
   1. IF SPACE RELATIVE HUMIDITY REACHES 60%, THE UNIT SHALL GO INTO DEHUMIDIFICATION MODE. THE COOLING COIL DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE RESET TO 52°F (ADJ.) DURING DEHUMIDIFICATION. IF AFTER TEN MINUTES RELATIVE HUMIDITY SETPOINT IS STILL NOT SATISFIED, INCREASE AIR HANDLER SUPPLY FANSPEED 4 HZ EVERY TEN MINUTES UNTIL HUMIDITY SETPOINT IS ACHIEVED. MODULATE HEATING COIL TO MAINTAIN SPACE DRY BULB SETPOINT. IF AIR HANDLER SUPPLY AIRFLOW IS RESET TO CONTROL HUMIDITY, HEATING COIL SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
4. MORNING WARM-UP/COOL-DOWN MODE:
   1. OA DAMPER SHALL CLOSE. EXHAUST FAN SHALL NOT RUN.
   2. IF SPACE TEMPERATURE IS OUTSIDE ITS OCCUPIED SET POINT THE FAN COIL UNIT SHALL SUPPLY MAXIMUM AIRFLOW.
   3. IF SPACE TEMPERATURE IS BELOW ITS OCCUPIED HEATING SET POINT OPEN THE HEATING VALVE TO 100% OPEN.
   4. IF SPACE TEMPERATURE IS ABOVE ITS OCCUPIED COOLING SET POINT OPERATE THE COOLING AT MAXIMUM.



4 M601 UNIT VENTILATOR SCHEMATIC

A. TRENDING AND ALARM NOT REQUIRED.
B. SHOW THE FOLLOWING POINTS ON GRAPHIC:
   1. BI - OCCUPANCY OVERRIDE
   2. BO -ENABLE
   3. BI - STATUS
   4. AI - LEAVING DX COIL TEMPERATURE

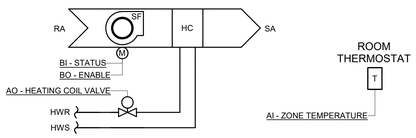


ENERGY RECOVERY VENTILATOR CONTROL SEQUENCE

ERV SHALL RUN WHEN ASSOCIATED FAN COIL UNITS ARE RUNNING IN OCCUPIED MODE.

HOT WATER VALVE SHALL MODULATE TO MAINTAIN DISCHARGE AIR OF MINIMUM 50°F.

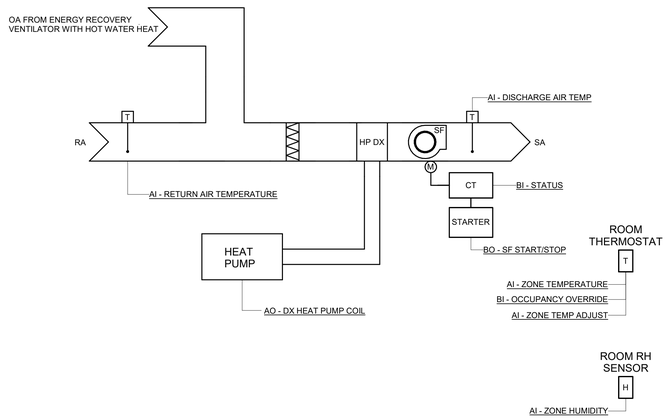
2 M601 ENERGY RECOVERY VENTILATOR SCHEMATIC
WITH EITHER UNIT- OR DUCT-MOUNTED HEATING COIL



CABINET UNIT HEATER CONTROL SEQUENCE

A. HEATING COIL SHALL MODULATE TO MAINTAIN ZONE TEMPERATURE.
B. FAN SHALL CYCLE WITH HEATING COIL.
C. OCCUPIED SETPOINT = 70°UNOCCUPIED SETPOINT = 62°
D. OCC/UNOCC MODE TO BE CONTROLLED BY BAS

3 M601 CABINET UNIT HEATER CONTROL SCHEMATIC



5 M601 FAN COIL UNIT SCHEMATIC

FAN COIL UNIT CONTROL SEQUENCE

A. OCCUPIED MODE
   1. NORMAL: SUPPLY FAN SHALL RUN AT MINIMUM SPEED WHEN UNIT IS IN OCCUPIED MODE AND SPACE TEMPERATURE IS WITHIN DEADBAND. COOLING SHALL BE DISABLED.
   2. COOLING: SUPPLY FAN SPEED AND COOLING SHALL MODULATE TO SATISFY LOAD WHEN SPACE TEMPERATURE RISES ABOVE DEADBAND.
   3. HEATING: SUPPLY FAN SPEED AND HEATING SHALL MODULATE TO SATISFY LOAD WHEN SPACE TEMPERATURE FALLS BELOW DEADBAND.
   4. DEHUMIDIFICATION MODE: WHEN ZONE RELATIVE HUMIDITY RISES ABOVE 50% (ADJ), UNIT SHALL RUN IN DRY MODE.
B. UNOCCUPIED MODE:
   1. NORMAL: SUPPLY FAN SHALL BE OFF WHEN UNIT IS IN UNOCCUPIED MODE AND SPACE TEMPERATURE IS WITHIN DEADBAND. COOLING SHALL BE OFF.
   2. COOLING: WHEN SPACE TEMPERATURE RISES ABOVE DEADBAND, SUPPLY FAN SPEED AND COOLING VALVE SHALL GO TO MAXIMUM UNTIL SPACE TEMPERATURE FALLS BY 10 DEG F.
   3. HEATING: WHEN SPACE TEMPERATURE FALLS BELOW DEADBAND, SUPPLY FAN SPEED AND HEATING SHALL GO TO MAXIMUM UNTIL SPACE TEMPERATURE INCREASES BY 10 DEG F.
C. MORNING WARM-UP/COOL-DOWN MODE:
   1. OA DAMPER SHALL CLOSE.
   2. IF SPACE TEMPERATURE IS OUTSIDE ITS OCCUPIED SET POINT THE FAN COIL UNIT SHALL SUPPLY MAXIMUM AIRFLOW.
   3. IF SPACE TEMPERATURE IS BELOW ITS OCCUPIED HEATING SET POINT OPERATE THE HEATING AT MAXIMUM.
   4. IF SPACE TEMPERATURE IS ABOVE ITS OCCUPIED COOLING SET POINT OPERATE THE COOLING AT MAXIMUM.

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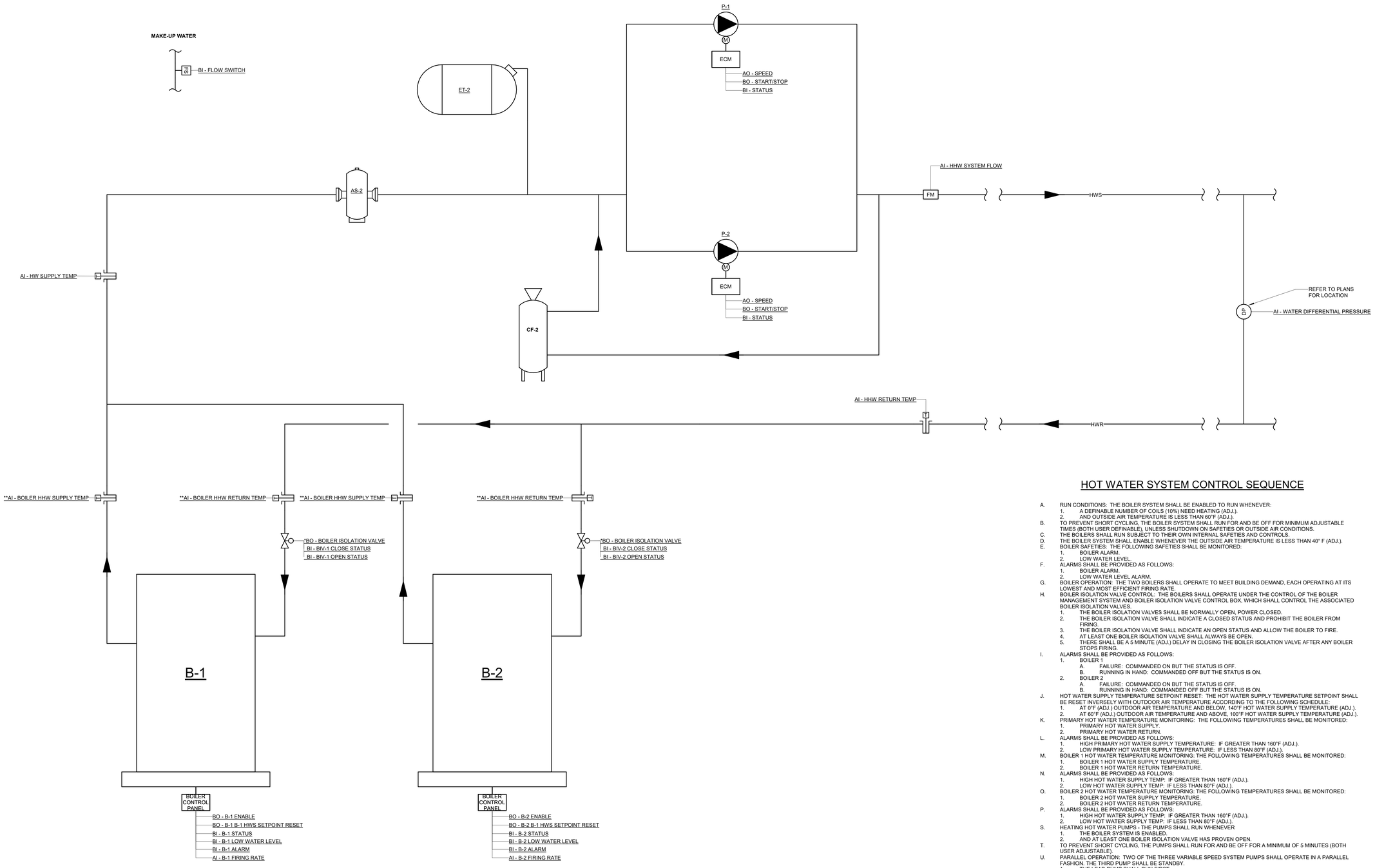
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HOT WATER SYSTEM CONTROL SEQUENCE

A. RUN CONDITIONS: THE BOILER SYSTEM SHALL BE ENABLED TO RUN WHENEVER:
   1. A DEFINABLE NUMBER OF COILS (10%) NEED HEATING (ADJ.).
   2. AND OUTSIDE AIR TEMPERATURE IS LESS THAN 60°F (ADJ.).
B. TO PREVENT SHORT CYCLING, THE BOILER SYSTEM SHALL RUN FOR AND BE OFF FOR MINIMUM ADJUSTABLE TIMES (BOTH USER DEFINABLE), UNLESS SHUTDOWN ON SAFETIES OR OUTSIDE AIR CONDITIONS.
C. THE BOILERS SHALL RUN SUBJECT TO THEIR OWN INTERNAL SAFETIES AND CONTROLS.
D. THE BOILER SYSTEM SHALL ENABLE WHENEVER THE OUTSIDE AIR TEMPERATURE IS LESS THAN 40° F (ADJ.).
E. BOILER SAFETIES: THE FOLLOWING SAFETIES SHALL BE MONITORED:
   1. BOILER ALARM.
   2. LOW WATER LEVEL.
F. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   1. BOILER ALARM.
   2. LOW WATER LEVEL ALARM.
G. BOILER OPERATION: THE TWO BOILERS SHALL OPERATE TO MEET BUILDING DEMAND, EACH OPERATING AT ITS LOWEST AND MOST EFFICIENT FIRING RATE.
H. BOILER ISOLATION VALVE CONTROL: THE BOILERS SHALL OPERATE UNDER THE CONTROL OF THE BOILER MANAGEMENT SYSTEM AND BOILER ISOLATION VALVE CONTROL BOX, WHICH SHALL CONTROL THE ASSOCIATED BOILER ISOLATION VALVES.
   1. THE BOILER ISOLATION VALVES SHALL BE NORMALLY OPEN, POWER CLOSED.
   2. THE BOILER ISOLATION VALVE SHALL INDICATE A CLOSED STATUS AND PROHIBIT THE BOILER FROM FIRING.
   3. THE BOILER ISOLATION VALVE SHALL INDICATE AN OPEN STATUS AND ALLOW THE BOILER TO FIRE.
   4. AT LEAST ONE BOILER ISOLATION VALVE SHALL ALWAYS BE OPEN.
   5. THERE SHALL BE A 5 MINUTE (ADJ.) DELAY IN CLOSING THE BOILER ISOLATION VALVE AFTER ANY BOILER STOPS FIRING.
I. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   1. BOILER 1
      A. FAILURE: COMMANDED ON BUT THE STATUS IS OFF.
      B. RUNNING IN HAND: COMMANDED OFF BUT THE STATUS IS ON.
   2. BOILER 2
      A. FAILURE: COMMANDED ON BUT THE STATUS IS OFF.
      B. RUNNING IN HAND: COMMANDED OFF BUT THE STATUS IS ON.
J. HOT WATER SUPPLY TEMPERATURE SETPOINT RESET: THE HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL BE RESET INVERSELY WITH OUTDOOR AIR TEMPERATURE ACCORDING TO THE FOLLOWING SCHEDULE:
   1. AT 0°F (ADJ.) OUTDOOR AIR TEMPERATURE AND BELOW, 140°F HOT WATER SUPPLY TEMPERATURE (ADJ.).
   2. AT 60°F (ADJ.) OUTDOOR AIR TEMPERATURE AND ABOVE, 100°F HOT WATER SUPPLY TEMPERATURE (ADJ.).
K. PRIMARY HOT WATER TEMPERATURE MONITORING: THE FOLLOWING TEMPERATURES SHALL BE MONITORED:
   1. PRIMARY HOT WATER SUPPLY.
   2. PRIMARY HOT WATER RETURN.
L. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   1. HIGH PRIMARY HOT WATER SUPPLY TEMPERATURE: IF GREATER THAN 160°F (ADJ.).
   2. LOW PRIMARY HOT WATER SUPPLY TEMPERATURE: IF LESS THAN 80°F (ADJ.).
M. BOILER 1 HOT WATER TEMPERATURE MONITORING: THE FOLLOWING TEMPERATURES SHALL BE MONITORED:
   1. BOILER 1 HOT WATER SUPPLY TEMPERATURE.
   2. BOILER 1 HOT WATER RETURN TEMPERATURE.
N. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   1. HIGH HOT WATER SUPPLY TEMP: IF GREATER THAN 160°F (ADJ.).
   2. LOW HOT WATER SUPPLY TEMP: IF LESS THAN 80°F (ADJ.).
O. BOILER 2 HOT WATER TEMPERATURE MONITORING: THE FOLLOWING TEMPERATURES SHALL BE MONITORED:
   1. BOILER 2 HOT WATER SUPPLY TEMPERATURE.
   2. BOILER 2 HOT WATER RETURN TEMPERATURE.
P. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   1. HIGH HOT WATER SUPPLY TEMP: IF GREATER THAN 160°F (ADJ.).
   2. LOW HOT WATER SUPPLY TEMP: IF LESS THAN 80°F (ADJ.).
S. HEATING HOT WATER PUMPS - THE PUMPS SHALL RUN WHENEVER
   1. THE BOILER SYSTEM IS ENABLED.
   2. AND AT LEAST ONE BOILER ISOLATION VALVE HAS PROVEN OPEN.
T. TO PREVENT SHORT CYCLING, THE PUMPS SHALL RUN FOR AND BE OFF FOR A MINIMUM OF 5 MINUTES (BOTH USER ADJUSTABLE).
U. PARALLEL OPERATION: TWO OF THE THREE VARIABLE SPEED SYSTEM PUMPS SHALL OPERATE IN A PARALLEL FASHION. THE THIRD PUMP SHALL BE STANDBY.
   1. THE LEAD PUMP SHALL RUN FIRST.
   2. ON FAILURE OF THE LEAD PUMP, THE LAG PUMP SHALL RUN AND THE LEAD PUMP SHALL TURN OFF.
   3. WHEN THE LEAD PUMP REACHES 95% OF MAXIMUM SPEED THE LAG PUMP SHALL BE STARTED AND OPERATE TOGETHER WITH THE LEAD PUMP. WHEN THE LAG PUMP STARTS IT SHALL SLOWLY RAMP UP AS THE LEAD PUMP GRADUALLY SLOWS DOWN UNTIL BOTH PUMPS ARE RUNNING AT THE SAME SPEED. WHEN THE LOAD DROPS TO A POINT WHERE BOTH PUMPS ARE OPERATING AT 45% OF MAXIMUM (ADJ.) THE LAG PUMP SHALL STOP AND THE LOAD WILL BE CARRIED BY A SINGLE PUMP. NO PUMP SHALL BE OPERATED BELOW 12HZ. LEAD AND LAG AND STANDBY PUMPS SHALL ALTERNATE EVERY 14 DAYS ON A WEEKDAY BETWEEN 9AM AND 4PM.
   4. ALARMS SHALL BE PROVIDED AS FOLLOWS:
      a. FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
      b. RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
      c. RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
V. DIFFERENTIAL PRESSURE CONTROL: THE CONTROLLER SHALL MONITOR DIFFERENTIAL PRESSURES AT THE POINTS INDICATED ON DRAWINGS AND VARY THE PUMP SPEEDS TO MAINTAIN A DIFFERENTIAL PRESSURE SETPOINT OF 10 PSI (ADJ). THIS IS A RECOMMENDED VALUE. ALL SETPOINTS SHALL BE FIELD ADJUSTED DURING THE BALANCING PERIOD TO MEET THE REQUIREMENTS OF ACTUAL FIELD CONDITIONS.
   1. DIFFERENTIAL PRESSURE ALARMS SHALL BE PROVIDED AS FOLLOWS:
      a. HIGH WATER DIFFERENTIAL PRESSURE: IF THE WATER DIFFERENTIAL PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
      b. LOW WATER DIFFERENTIAL PRESSURE: IF THE WATER DIFFERENTIAL PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.
W. CRITICAL ALARM SHALL BE CREATED IN THE EVENT OF LOW SYSTEM PRESSURE READING (10 PSIG ADJ.) OR FLOW SWITCH TRIP (1 GPM ADJ) AT MAKEUP WATER CONNECTION. ENTIRE SYSTEM INCLUDING PUMPS SHALL BE SHUT DOWN.

NOTES

1. REFER TO PLANS FOR PIPE SIZES
2. PIPE ACCESSORIES SUCH AS VALVES AND AIR VENTS ARE SHOWN FOR REFERENCE ONLY. REFER TO DETAIL DRAWINGS FOR COMPLETE INSTALLATION INSTRUCTIONS.
3. PROVIDE BACNET COMPATIBLE BOILER PLANT INTERFACE.
4. MAKE ALL BOILER PLANT CONTROL POINTS DISCOVERABLE TO BAS.
5. SHOW ALL BOILER PLANT CONTROL POINTS ON BAS BOILER PLANT INTERFACE.

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LIGHTING FIXTURE LEGEND

LIGHTING FIXTURE TAGS

- CAPITAL LETTER WITH NUMBER DENOTES FIXTURE TYPE - REFER TO LIGHT FIXTURE SCHEDULE BELOW.
- SMALL LETTER DENOTES SWITCH LEG/RELAY NUMBER - REFER TO E100 SERIES DRAWINGS FOR TYPICAL ROOM LAYOUTS.

STANDARD LIGHTING FIXTURE SYMBOLS

- A10 r — 2'x4' RECESSED TROFFER
- A20 r — 2'x2' RECESSED TROFFER
- A20 r — 1'x4' RECESSED TROFFER
- C10 r — LINEAR PENDANT
- D10 r — RECESSED DOWNLIGHT
- G10 r — CYLINDRICAL PENDANT

EMERGENCY LIGHTING FIXTURES

- GRAY FILLED IN AREA DENOTES EMERGENCY FIXTURE.
- CONNECT TO EMERGENCY POWER CIRCUIT AHEAD OF SWITCHING.
- NL DENOTES NIGHT LIGHT.

- E10 — DUAL HEAD EMERGENCY FIXTURE
- X10 — EXIT SIGN
  - SHADED AREA DENOTES FACE
  - ARROW DENOTES ARROW DIRECTION
- A10 NL — 2'x4' RECESSED TROFFER - NIGHT LIGHT

GENERAL NOTES - LIGHTING FIXTURES

A. ALL FIXTURES MARKED 'ED' ARE EXISTING TO BE DEMOLISHED. VERIFY SERVING PANEL AND CIRCUIT NUMBER PRIOR TO DISCONNECTION. REMOVE LIGHTING BRANCH CIRCUITING ABOVE FINISHED CEILING. MAINTAIN HOME RUN CONDUIT FOR CONNECTION TO NEW FIXTURES.

B. REFER TO LIGHTING CONTROL SCHEMATICS AND LIGHTING CIRCUIT SCHEDULES ON E500 SERIES DRAWINGS.

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	FIXTURE BASIS OF DESIGN	ALTERNATE MANUFACTURERS	FIXTURE DESCRIPTION	LAMP	LIGHT DISTRIBUTION	MINIMUM LUMEN OUTPUT	COLOR TEMPERATURE	DRIVER	VOLTAGE	MAXIMUM WATTAGE	MOUNTING METHOD	TYPE COMMENTS
E10	DUAL-LITE LZ2	BARRON LED-60, LSI EAS, LITHONIA ELM2, SURE-LITES SEL25	EMERGENCY LIGHT, DUAL HEAD, THERMOPLASTIC, WHITE FINISH, INTEGRAL BATTERY PACK	LED	N/A			N/A	277 V	6 VA	CEILING / WALL MOUNTED	
F10	LITHONIA WL4	COLUMBIA MPS4, LSI SDL, METALUX 4SNLED, PHILIPS FSSEZ	INDUSTRIAL LINEAR STRIP, STEEL HOUSING, 4' LONG	LED	STANDARD	4000 lm	4000 K	LED DRIVER	277 V	40 VA	CHAIN MOUNTED	MOUNT AT 7'-6" AFF

DRAFTING SYMBOL LEGEND

SYMBOL	DESCRIPTION
X	DRAWING KEY NOTE ONLY NOTES THAT APPLY APPEAR ON EACH SHEET. KEY NOTE NUMBERS ARE CONSISTENT FROM SHEET TO SHEET, AND THEREFORE MAY NOT APPEAR IN NUMERICAL ORDER.
2 / E501	DETAIL CALLOUT REFER TO DETAIL 2 ON SHEET E501

WIRING DEVICE LEGEND

MOUNTING HEIGHT OF BACKBOX, RELATIVE TO BOTTOM OF BOX. IF OMITTED, DEFAULT MOUNTING HEIGHT IS 16"

XX INDICATES SPECIAL NOTE (IF USED)

XX/44" — *DUPLEX*

DOUBLE-DUPLEX

J INDICATES DEVICE DESIGNATION (IF USED)

J — *JUNCTION BOX*

GFI — *GROUND FAULT PROTECTED*

GFI — *GROUND FAULT PROTECTED, ABOVE COUNTER*

LIGHTING CONTROL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT

XX INDICATES SWITCH TYPE. IF OMITTED, SWITCH IS SINGLE POLE.

SWITCH TYPES

XX S — *LIGHTING SWITCH*

 # OF "S" INDICATES NUMBER OF SWITCHES

26-ELECTRICAL SHEET LIST

SHEET NUMBER	SHEET NAME
E000	ELECTRICAL LEGENDS
E001	ELECTRICAL LEGENDS
E010	FIRST FLOOR DEMO PLAN AREA A
E011	FIRST FLOOR DEMO PLAN AREA B
E012	FIRST FLOOR DEMO PLAN AREA C
E013	ROOF DEMOLITION PLAN
E200	FIRST FLOOR POWER PLAN AREA A
E201	FIRST FLOOR POWER PLAN AREA B
E202	FIRST FLOOR POWER PLAN AREA C
E203	ROOF POWER PLAN AREA A
E204	ROOF POWER PLAN AREA B
E205	ROOF POWER PLAN AREA C
E400	PANEL SCHEDULES
E401	PANEL SCHEDULES
E500	ELECTRICAL DETAILS
E600	ELECTRICAL SINGLE LINE DIAGRAM
E700	ELECTRICAL SITE PLAN

GENERAL NOTES: - APPLIES TO ALL ELECTRICAL DRAWINGS

A. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. REFER TO THE MECHANICAL DRAWINGS FOR LOCATIONS OF THESE DEVICES.

B. EC MAY COMBINE MULTIPLE CIRCUITS INTO HOME RUNS. NO MORE THAN 3 CIRCUITS SHALL BE IN EACH HOME RUN CONDUIT, AND THE WIRE MUST BE DERATED IN ACCORDANCE WITH NEC. THESE CIRCUITS SHALL BE REQUIRED TO BE ON SEPARATE PHASES (A,B,C).

C. EC SHALL DERATE WIRE IN LONG RUNS ACCORDING TO THE WIRE SIZING TABLE SHOWN BELOW:

WIRE SIZING CHART

RUN LENGTH		CIRCUIT BREAKER		
120V	277V	20A	30A	40A
000-100'	000-200'	12	10	8
101-150'	201-300'	10	8	6
151-200'	301-450'	8	6	4

D. WHERE ELECTRICAL LOAD ON A CIRCUIT IS OVER 20 AMPERES, EACH CIRCUIT SHALL BE RUN IN A SEPARATE CONDUIT TO THE PANELBOARD.

E. ALL VAV BOXES, EXHAUST FANS, MOTORS, MISC. HVAC EQUIPMENT, APPLIANCES, ETC. INDICATED ON THESE DRAWINGS SHALL HAVE A MOTOR RATED SWITCH LOCATED NEAR THE MOTOR FOR SERVICING. PROVIDE DISCONNECTING MEANS AS REQUIRED BY THE NEC.

F. ALL PANELBOARDS SHALL BE INSTALLED 72" AFF TO THE TOP OF THE PANEL. PROVIDE 10% SPARE CONDUITS (MINIMUM OF 4) TO ABOVE THE CEILING FOR FUTURE.

G. HEIGHT DIMENSIONS SHOWN ON THIS PLAN ARE MEASURED FROM THE BOTTOM OF THE DEVICE. HORIZONTAL DIMENSIONS ARE MEASURED TO THE CENTER OF THE DEVICE OR GROUP OF DEVICES WHICH THE DIMENSION PERTAINS TO.

H. FOR LIGHT FIXTURE MOUNTING DETAILS, SEE LUMINAIRE SCHEDULE, ON SHEET E000.

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ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

ELECTRICAL LEGENDS

DATE 03-31-22

COMM NO. 2021091.01

E000

0'-1" REFERENCE LINE

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MECHANICAL EQUIPMENT

GENERAL NOTES - MECHANICAL EQUIPMENT:

A. COORDINATE ALL ELECTRICAL REQUIREMENTS, INCLUDING ROUGH-IN LOCATION, CONNECTION TYPE, AND POWER REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

B. WIRING TERMINATIONS TO EQUIPMENT SHALL BE DONE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

C. LOCATIONS OF DEVICES SHOWN ON DRAWINGS ARE SCHEMATIC IN NATURE. COODINATE LOCATIONS WITH EQUIPMENT INSTALLER.

26-EQUIPMENT SCHEDULE - MECHANICAL

EQUIPMENT NAME	SPECIFICATION SECTION	STARTER TYPE	STARTER PROVIDED BY	STARTER INSTALLED BY	STARTER LOCATION	DISCONNECT TYPE	DISCONNECT PROVIDED BY	DISCONNECT INSTALLED BY	DISCONNECT LOCATION	Panel	Circuit Number	Notes
AHU-1A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP184	31,33,35	
AHU-1B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP184	26,28,30	
AHU-1C	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP188D	33,35,37	
AHU-1D	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP188D	39,41,43	
AHU-2A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP184	20,22,24	
AHU-2B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP184	32,34,36	
BS-1A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
BS-1B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	
BS-1C	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	
BS-1D	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	
BS-2A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	1,3	
BS-2B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	1,3	
BS-3A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	21,23	
BS-3B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	18,20	
BS-4A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	8,10	
BS-4B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	3,5	
BS-4C	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	14,16	
BS-5A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	13,15	
BS-5B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	13,15	
BS-6	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	29,31	
BS-7A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	1,3	
BS-7B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	1,3	
BS-8A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	25,27	
BS-8B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	25,27	
CU-1A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP184	2,4,6	
CU-1B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP184	8,10,12	
CU-1C	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP184	7,9,11	
CU-1D	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP184	13,15,17	
CU-2A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP188D	13,15,17	
CU-2B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP184	14,16,18	
CUH-1	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT			REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMO
CUH-2	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT			REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMO
CUH-3	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT			REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMO
CUH-4	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT			REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMO
CUH-5	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT			REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMO
CUH-6	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT			REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMO
CUH-7	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT			REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMO
CUH-8	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT			REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMO
CUH-9	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT			REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMO
CUH-10	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT			REUSE EXISTING CIRCUIT MADE AVAILABLE IN DEMO
EF-2	23	N/A	N/A	N/A	N/A	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	LP184	12	
EF-3	23	N/A	N/A	N/A	N/A	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	LP184	12	
EF-4	23	N/A	N/A	N/A	N/A	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	LP150	2	
EF-8	23	N/A	N/A	N/A	N/A	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	LP188D	11	
EF-9	23	N/A	N/A	N/A	N/A	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	LP188D	1	
EF-10	23	N/A	N/A	N/A	N/A	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	LP150	4	
EF-13	23	N/A	N/A	N/A	N/A	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	LP150	6	
EF-16	23	N/A	N/A	N/A	N/A	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	LP188D	12	
EF-18	23	N/A	N/A	N/A	N/A	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	LP184	26	WIRE THROUGH LOCAL LIGHTING CONTROL SENSOR
ERV-1	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	LP211	11,13,15	
ERV-2	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	13,15	
ERV-3	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	LP184	6,8,10	
ERV-4	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	LP188D	2,4,6	
ERV-5	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	8,10	
ERV-6	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	2,4	
FC-1A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
FC-1B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	
FC-1C	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
FC-128	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	29,31	
FC-133	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	29,31	
FC-145	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	13,15	
FC-151	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	1,3	
FC-153	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	1,3	
FC-178	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	25,27	
FC-187	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	25,27	
FC-188A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	25,27	
FC-188B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	25,27	
FC-188C	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	25,27	
FC-188D	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	25,27	
FC-193	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	25,27	
FC-197	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	1,3	
FC-205	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	13,15	
FC-209	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
FC-212	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
FC-212A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
FC-213	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
FC-213A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
FC-214	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	
FC-215	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	

26-EQUIPMENT SCHEDULE - MECHANICAL

EQUIPMENT NAME	SPECIFICATION SECTION	STARTER TYPE	STARTER PROVIDED BY	STARTER INSTALLED BY	STARTER LOCATION	DISCONNECT TYPE	DISCONNECT PROVIDED BY	DISCONNECT INSTALLED BY	DISCONNECT LOCATION	Panel	Circuit Number	Notes
FC-216	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	
FC-217	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
FC-217A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
FC-217B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
FC-218	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
FC-218B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	1,3	
FC-219B	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	
FC-220	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	
FC-222	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	
FC-1113	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	18,20	
FC-1118	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	18,20	
FC-1124	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	7,9	
FC-1125	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	7,9	
FC-1221-1	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	
FC-1221-2	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	
FC-1221A	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP211	7,9	
FC-1237	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	8,10	
FC-1238	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	8,10	
FC-1239	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	8,10	
FC-1240	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	1,3	
FC-1241	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	9,11	
FC-1242	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	9,11	
FC-1243	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	9,11	
FC-1245	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	1,3	
FC-1246	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	5,7	
FC-1247	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	5,7	
FC-1248	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	1,3	
FC-1250	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	5,7	
FC-1251	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	22,24	
FC-1253	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	3,5	
FC-1254	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	3,5	
FC-1255	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	3,5	
FC-1256	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	22,24	
FC-1257	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	22,24	
FC-1258	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	29,31	
FC-1260	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	7,9	
FC-1261	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	7,9	
FC-1262	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	13,15	
FC-1263	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	13,15	
FC-1264	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	9,11	
FC-1265	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	9,11	
FC-1266	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	17,19	
FC-1267	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	17,19	
FC-1268	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	17,19	
FC-1269	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	17,19	
FC-1271	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	5,7	
FC-1272	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	5,7	
FC-1273	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	1,3	
FC-1274	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	1,3	
FC-1275	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	1,3	
FC-1281	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	7,9	
FC-1282	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP188D	3,5	
FC-1284	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	17,19	
FC-1285	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	18,20	
FC-1286	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	14,16	
FC-1287	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	14,16	
FC-1289	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	21,23	
FC-1290	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	21,23	
FC-1294	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP184	17,19	
FC-1296	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	LP150	5,7	
HRCU-1	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP211	13,15,17	
HRCU-1	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP211	7,9,11	
HRCU-2	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP150	7,9,11	
HRCU-2	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP150	13,15,17	
HRCU-3	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP150	2,4,6	
HRCU-3	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP150	8,10,12	
HRCU-4	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP188D	14,16,18	
HRCU-4	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP188D	25,27,29	
HRCU-4	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP188D	2,4,6	
HRCU-5	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP188D	32,34,36	
HRCU-6	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP188D	26,28,30	
HRCU-7	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP184	19,21,23	
HRCU-7	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP184	25,27,29	
HRCU-8	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP188D	1,3,5	
HRCU-8	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP188D	7,9,11	
HWB-1	23	CONTROL PANEL	DIV. 23	DIV. 23	INTEGRAL TO UNIT	MRTS	DIV. 26	DIV. 26	NEAR UNIT	S	5	
P-1	23	VFD	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP188D	19,21,23	
P-2	23	VFD	DIV. 23	DIV. 23	INTEGRAL TO UNIT	DISCONNECT SWITCH	DIV. 26	DIV. 26	NEAR UNIT	PP188D	8,10,12	

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DEMOLITION DRAWING NOTES

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B. FIXTURES, DEVICES, AND EQUIPMENT DENOTED BY BOLD, DASHED LINE TYPE OR LABELLED BY ED GENERALLY INDICATES EQUIPMENT TO BE DEMOLISHED. REFER TO DRAWING NOTES AND KEYNOTES FOR FULL EXTENT OF ASSOCIATED DEMOLITION WORK AND ITEMS TO REMAIN. UNLESS OTHERWISE NOTED, REMOVE WIRING BACK TO ABOVE FINISHED CEILING. MAINTAIN CIRCUITS FOR CONNECTION TO NEW DEVICES. REFER TO E200 SERIES DRAWINGS.

C. PROVIDE BLANK COVERS FOR RECESSED BACKBOXES MADE AVAILABLE THROUGH DEMOLITION, UNLESS NOTED FOR REUSE. REFER TO E200 SERIES DRAWINGS.

D. REFER TO SPECIFICATION SECTION 017419 FOR CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL REQUIREMENTS.

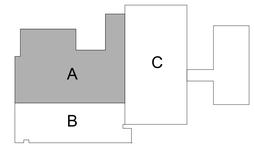
KEYNOTES

ED3 DISCONNECT EXISTING HVAC EQUIPMENT. REMOVE WIRING BACK TO SERVING PANEL OR LAST ACTIVE DEVICE. IF EQUIPMENT IS ON DEDICATED CIRCUIT - MARK CIRCUIT AS SPARE.

ED4 DISCONNECT AND REMOVE EXISTING DOOR HARDWARE. MAINTAIN CONNECTION AND WIRING FOR NEW DOOR HARDWARE. REFER TO E200 SERIES.



1 E010 FIRST FLOOR DEMO PLAN AREA A
1/8" = 1'-0"



KEY PLAN
NTS

"0-1" REFERENCE LINE"

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ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

FIRST FLOOR DEMO PLAN AREA A

DATE 03-31-22

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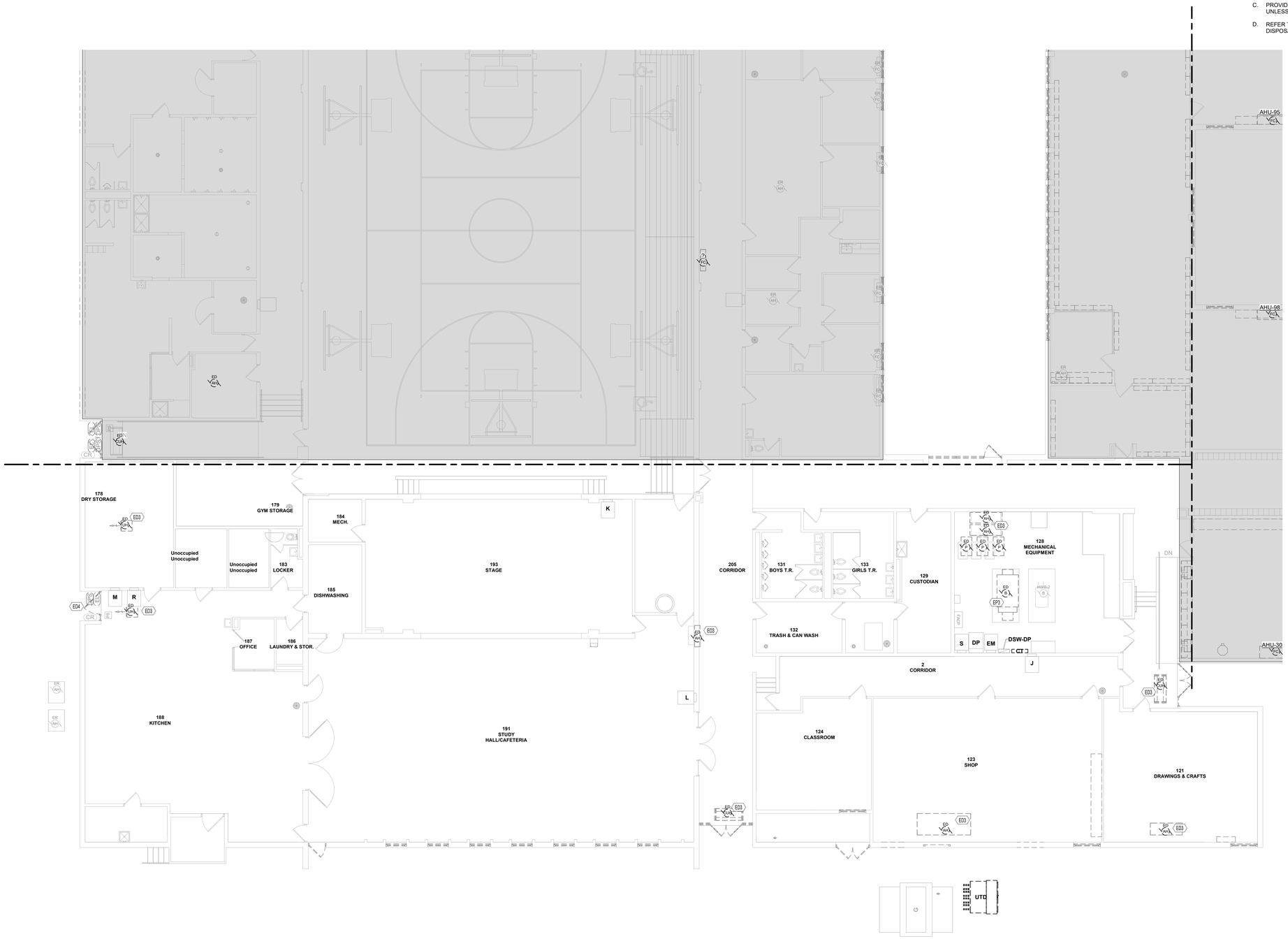
D. REFER TO SPECIFICATION SECTION 017419 FOR CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL REQUIREMENTS.

KEYNOTES

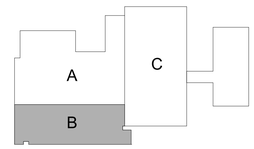
ED3 DISCONNECT EXISTING HVAC EQUIPMENT. REMOVE WIRING BACK TO SERVING PANEL OR LAST ACTIVE DEVICE. IF EQUIPMENT IS ON DEDICATED CIRCUIT - MARK CIRCUIT AS SPARE.

ED4 DISCONNECT AND REMOVE EXISTING DOOR HARDWARE. MAINTAIN CONNECTION AND WIRING FOR NEW DOOR HARDWARE. REFER TO E200 SERIES.

EP3 WIRE TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION.



1 / E011 FIRST FLOOR DEMO PLAN AREA B
1/8" = 1'-0"



KEY PLAN
NTS

0.1" REFERENCE LINE

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ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

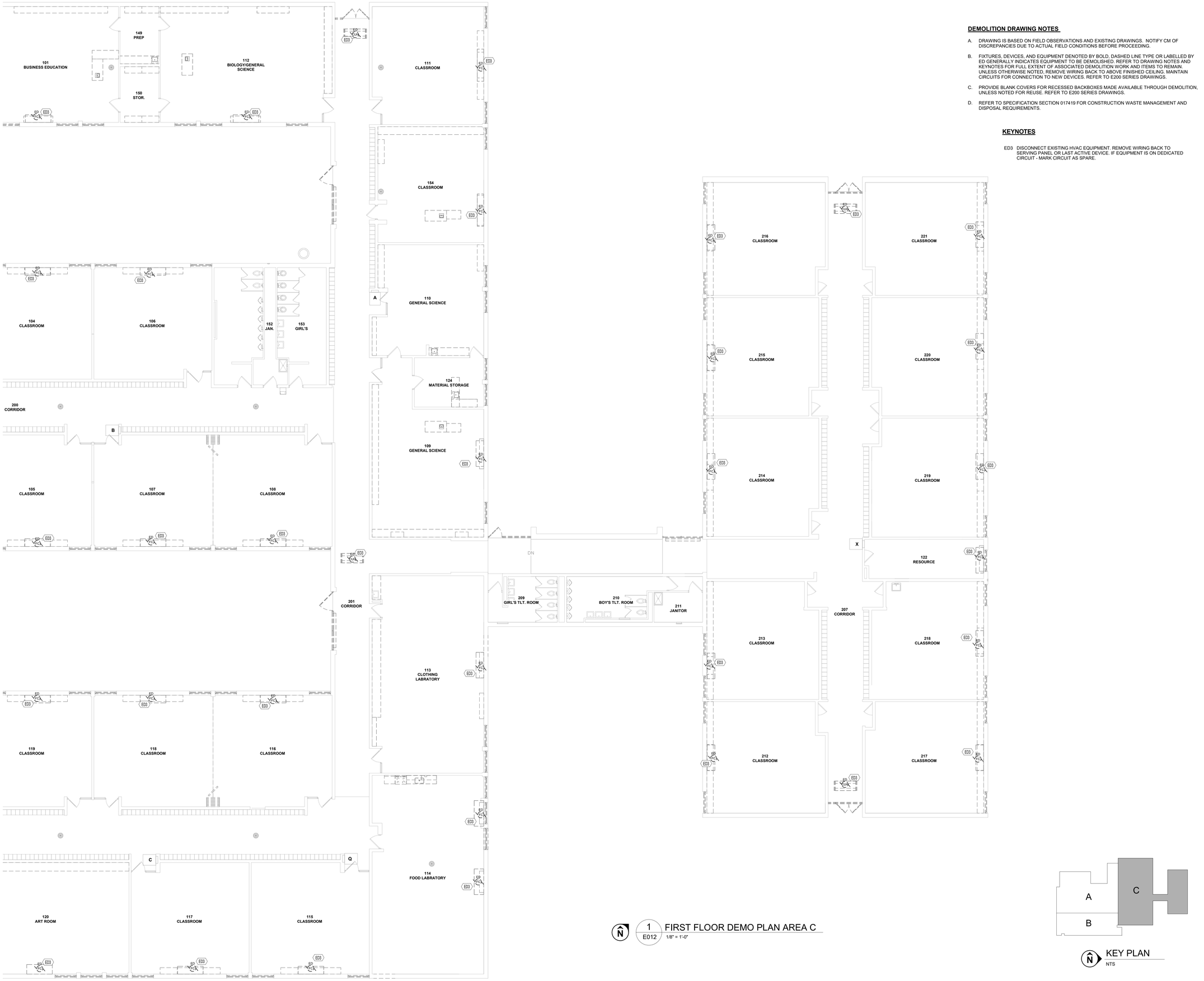
FIRST FLOOR DEMO PLAN AREA B

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1 E012 FIRST FLOOR DEMO PLAN AREA C
1/8" = 1'-0"

KEY PLAN
NTS

"0-1" REFERENCE LINE"

DEMOLITION DRAWING NOTES

A. DRAWING IS BASED ON FIELD OBSERVATIONS AND EXISTING DRAWINGS. NOTIFY CM OF DISCREPANCIES DUE TO ACTUAL FIELD CONDITIONS BEFORE PROCEEDING.

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C. PROVIDE BLANK COVERS FOR RECESSED BACKBOXES MADE AVAILABLE THROUGH DEMOLITION, UNLESS NOTED FOR REUSE. REFER TO E200 SERIES DRAWINGS.

D. REFER TO SPECIFICATION SECTION 017419 FOR CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL REQUIREMENTS.

KEYNOTES

ED3 DISCONNECT EXISTING HVAC EQUIPMENT. REMOVE WIRING BACK TO SERVING PANEL OR LAST ACTIVE DEVICE. IF EQUIPMENT IS ON DEDICATED CIRCUIT - MARK CIRCUIT AS SPARE.

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FIRST FLOOR
DEMO PLAN
AREA C

DATE 03-31-22

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C. PROVIDE BLANK COVERS FOR RECESSED BACKBOXES MADE AVAILABLE THROUGH DEMOLITION, UNLESS NOTED FOR REUSE. REFER TO E200 SERIES DRAWINGS.

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KEYNOTES

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1 ROOF DEMOLITION PLAN
E013 1/16" = 1'-0"

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0'-1" REFERENCE LINE

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GENERAL POWER NOTES:

A. REFER TO E600 SERIES SHEETS FOR PANEL AND CIRCUIT NUMBERS FOR MECHANICAL AND PLUMBING EQUIPMENT.

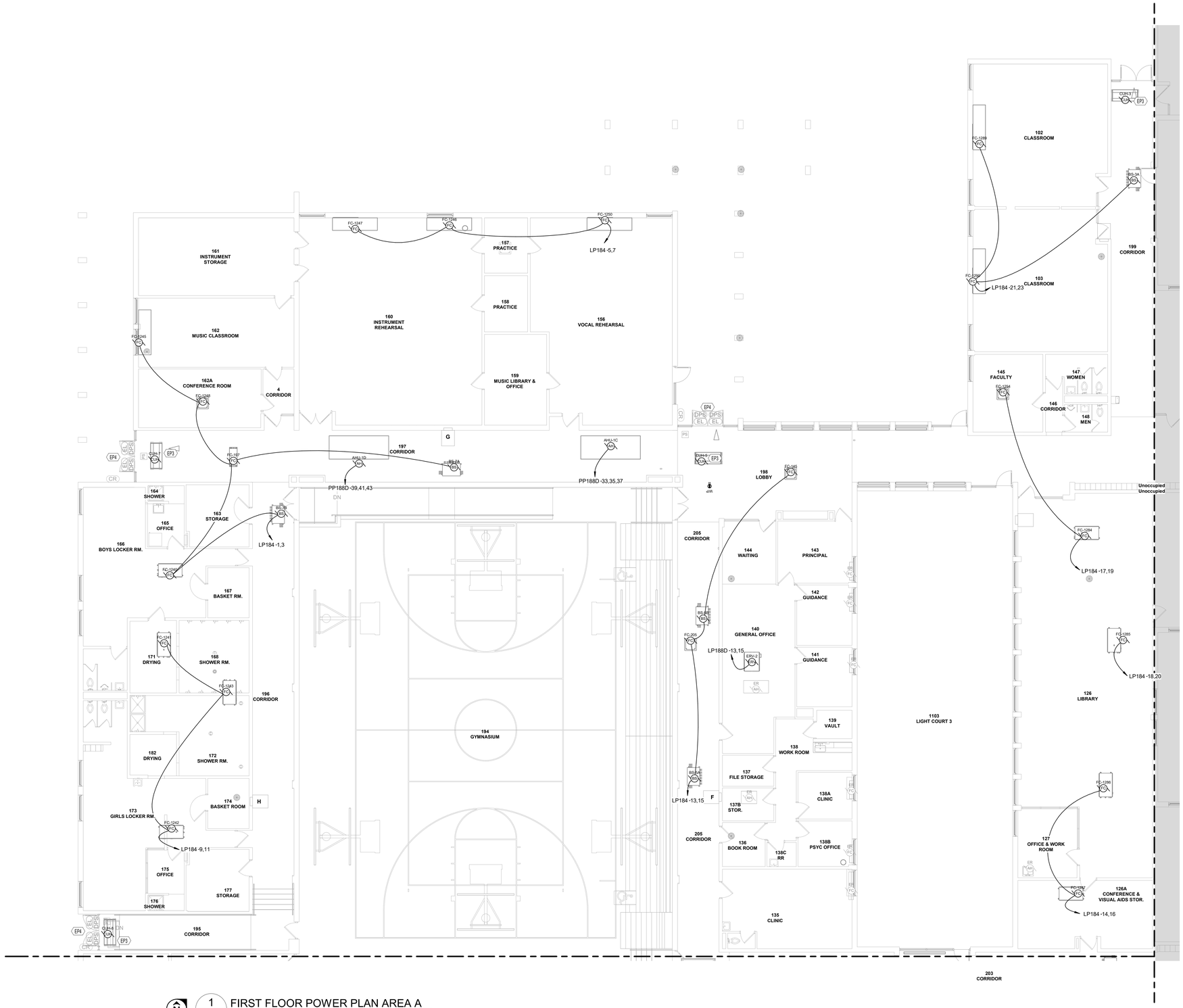
B. REFER TO E600 SERIES SHEETS FOR STARTER AND DISCONNECT REQUIREMENTS FOR MECHANICAL AND PLUMBING EQUIPMENT.

C. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE ACCESSIBLE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE M SERIES DRAWINGS FOR THERMOSTAT LOCATIONS.

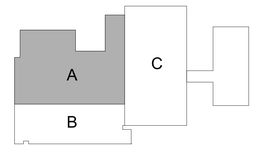
KEYNOTES

EP3 WIRE TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION.

EP4 CONNECT NEW DOOR HARDWARE TO EXISTING CARD READER AND POWER SUPPLY.



1 E200 FIRST FLOOR POWER PLAN AREA A
1/8" = 1'-0"



KEY PLAN
NTS

0'-1" REFERENCE LINE

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FIRST FLOOR POWER PLAN AREA A

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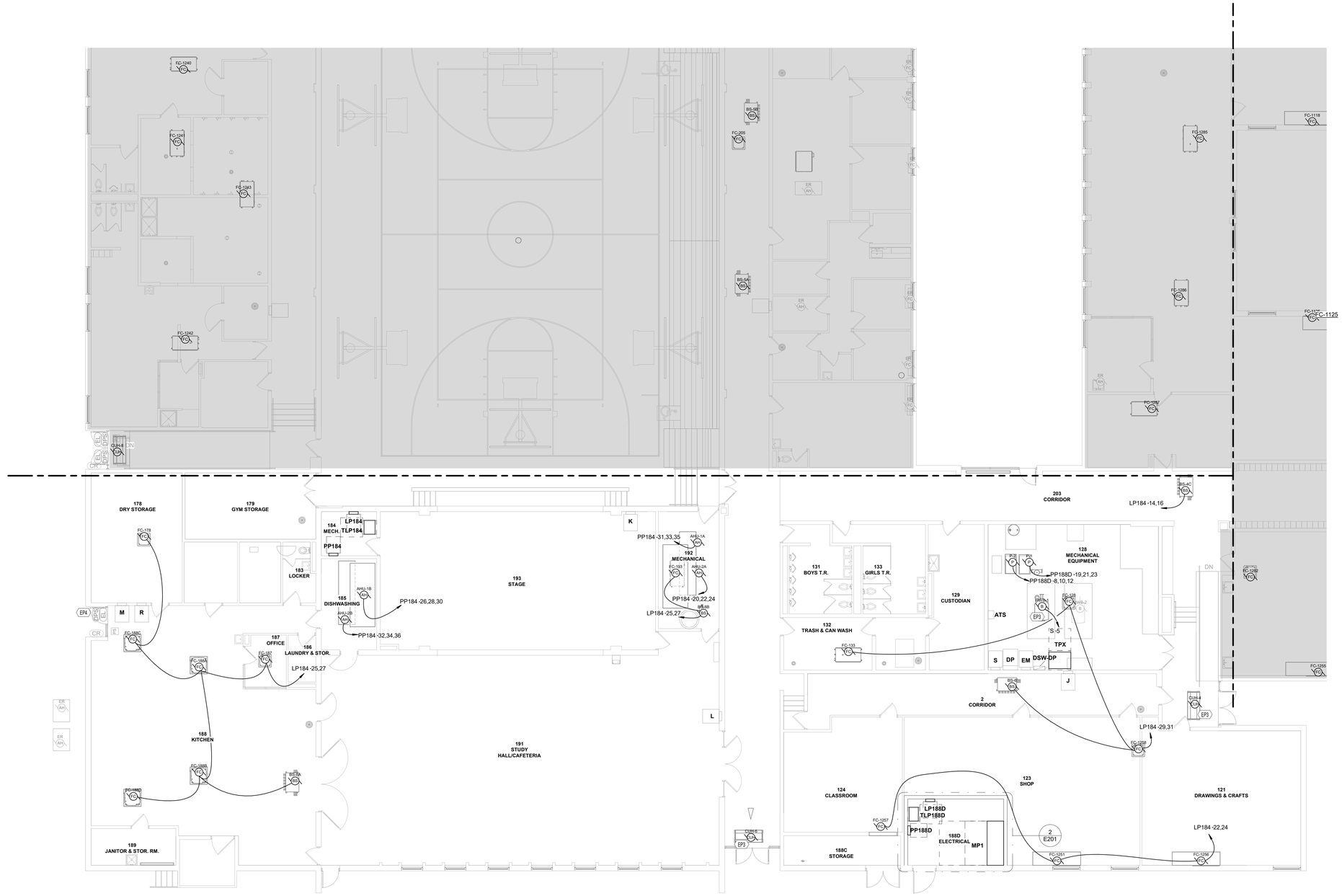
B. REFER TO E600 SERIES SHEETS FOR STARTER AND DISCONNECT REQUIREMENTS FOR MECHANICAL AND PLUMBING EQUIPMENT.

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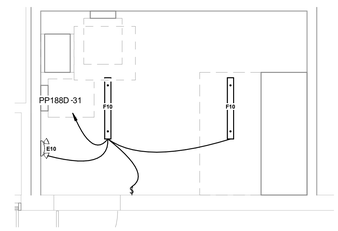
KEYNOTES

EP3 WIRE TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION.

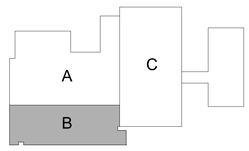
EP4 CONNECT NEW DOOR HARDWARE TO EXISTING CARD READER AND POWER SUPPLY.



1 E201 FIRST FLOOR POWER PLAN AREA B
1/8" = 1'-0"



2 E201 ELECTRICAL ROOM LIGHTING PLAN
1/4" = 1'-0"



KEY PLAN
NTS

WINTON WOODS CITY SCHOOLS
EARLY CHILDHOOD ESSER RENOVATIONS
825 WAYCROSS ROAD, CINCINNATI, OHIO 45240

WINTON WOODS CITY SCHOOLS
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OHIO 45240

ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

FIRST FLOOR POWER PLAN AREA B

DATE 03-31-22

COMM NO. 2021091.01

E201

"0.1" REFERENCE LINE"

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GENERAL POWER NOTES:

A. REFER TO E600 SERIES SHEETS FOR PANEL AND CIRCUIT NUMBERS FOR MECHANICAL AND PLUMBING EQUIPMENT.

B. REFER TO E600 SERIES SHEETS FOR STARTER AND DISCONNECT REQUIREMENTS FOR MECHANICAL AND PLUMBING EQUIPMENT.

C. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE ACCESSIBLE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE M SERIES DRAWINGS FOR THERMOSTAT LOCATIONS.

KEYNOTES

EP3 WIRE TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION.

1 E202 FIRST FLOOR POWER PLAN AREA C
1/8" = 1'-0"

KEY PLAN
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JAMES B. MESSNER
E-74397
REGISTERED PROFESSIONAL ENGINEER

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312 Plum Street, Ste 700
Cincinnati, Ohio 45202
513.381.2112

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EARLY CHILDHOOD ESSER RENOVATIONS
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825 WAYCROSS ROAD, SUITE A, CINCINNATI, OHIO 45240

ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

FIRST FLOOR POWER PLAN AREA C

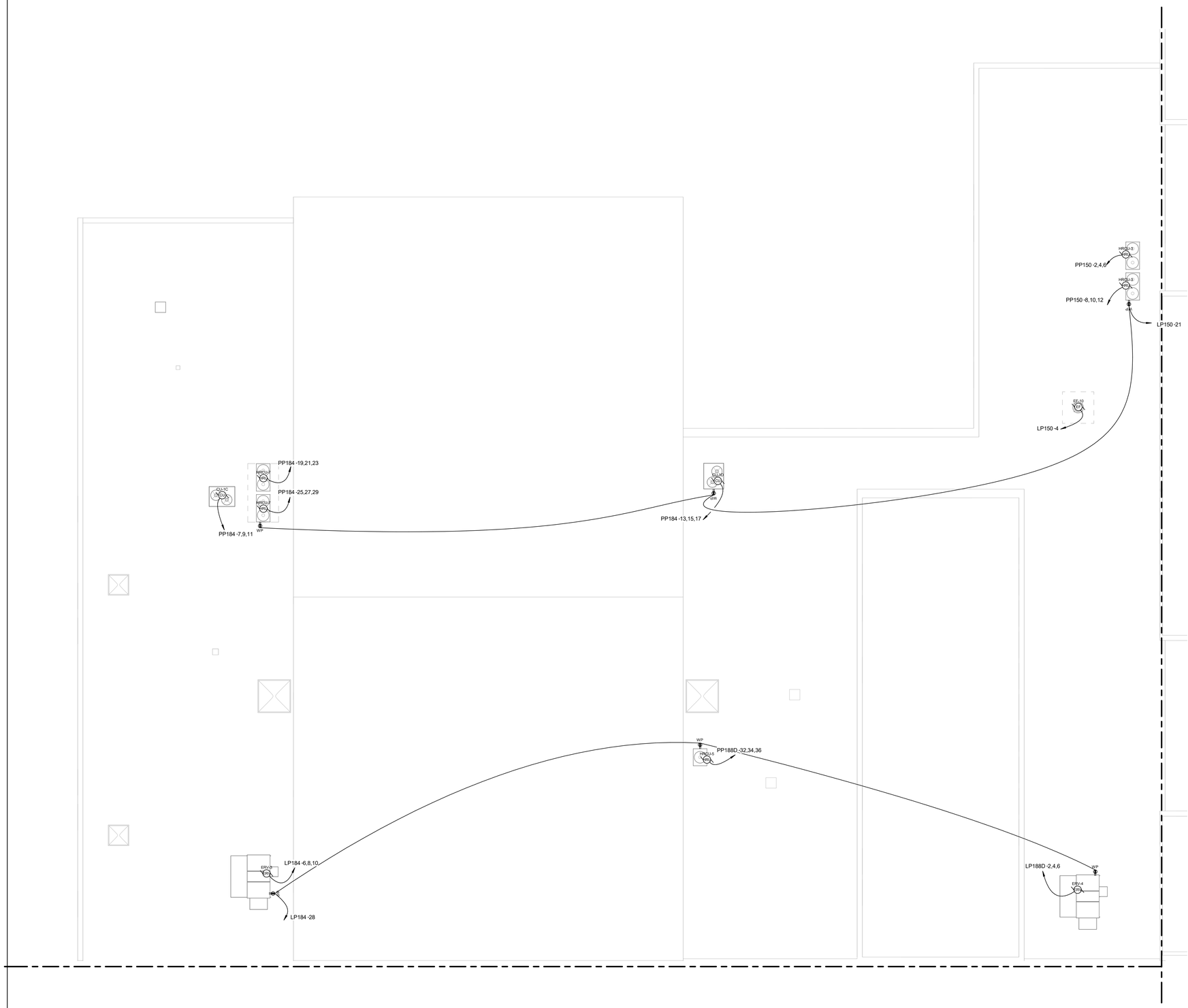
DATE 03-31-22

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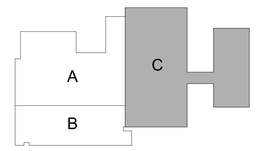
E202

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"0-1" REFERENCE LINE



1 E203 ROOF POWER PLAN AREA A
1/8" = 1'-0"



KEY PLAN
NTS

"0'-1" REFERENCE LINE"

GENERAL POWER NOTES:

A. REFER TO E600 SERIES SHEETS FOR PANEL AND CIRCUIT NUMBERS FOR MECHANICAL AND PLUMBING EQUIPMENT.

B. REFER TO E600 SERIES SHEETS FOR STARTER AND DISCONNECT REQUIREMENTS FOR MECHANICAL AND PLUMBING EQUIPMENT.

C. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE ACCESSIBLE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE M SERIES DRAWINGS FOR THERMOSTAT LOCATIONS.

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ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

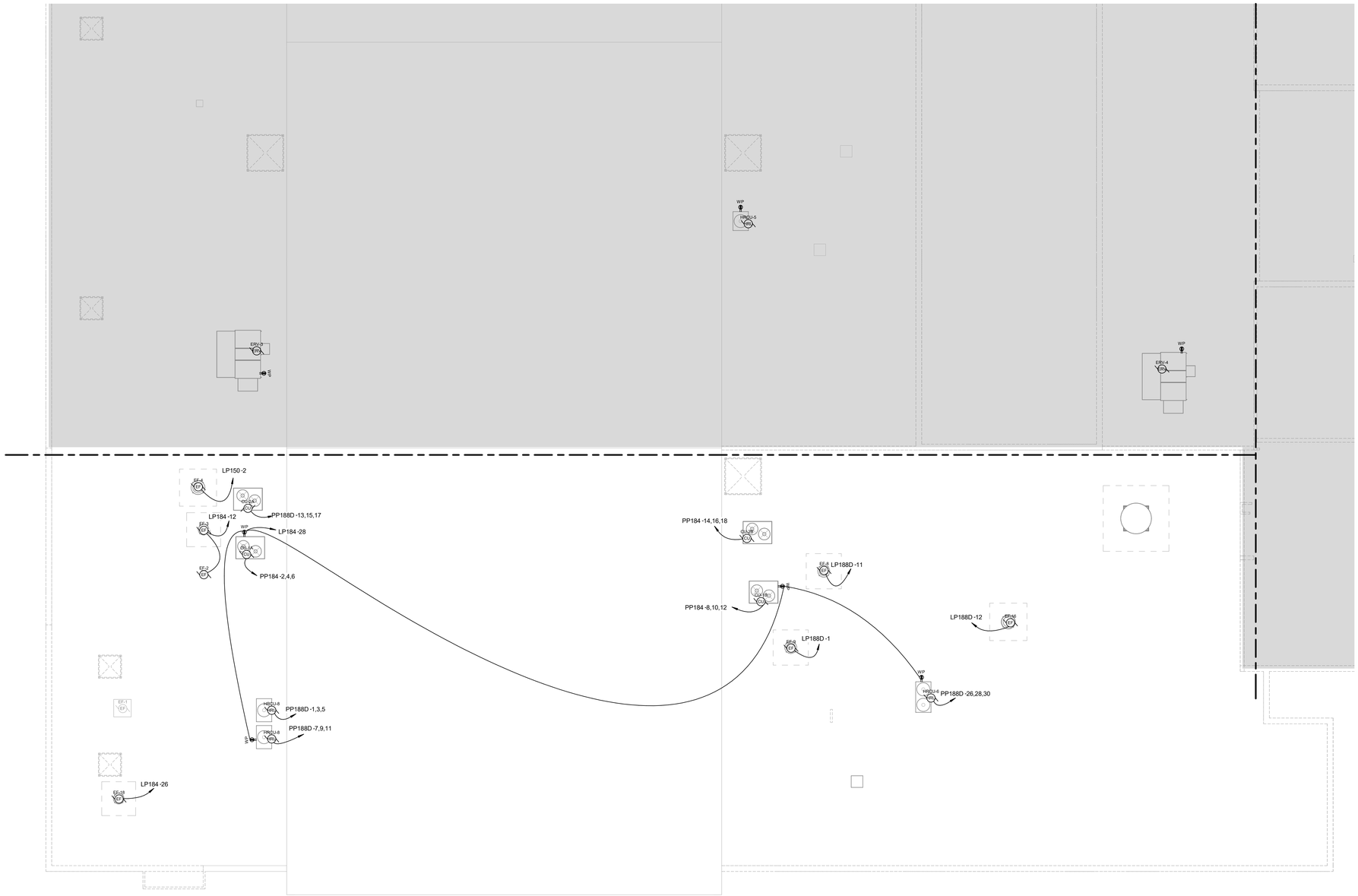
ROOF POWER PLAN AREA A

DATE 03-31-22

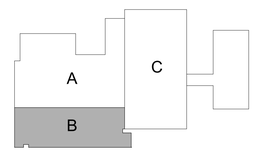
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E203

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1 E204 ROOF POWER PLAN AREA B
1/8" = 1'-0"



KEY PLAN
NTS

GENERAL POWER NOTES:

A. REFER TO E600 SERIES SHEETS FOR PANEL AND CIRCUIT NUMBERS FOR MECHANICAL AND PLUMBING EQUIPMENT.

B. REFER TO E600 SERIES SHEETS FOR STARTER AND DISCONNECT REQUIREMENTS FOR MECHANICAL AND PLUMBING EQUIPMENT.

C. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE ACCESSIBLE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE M SERIES DRAWINGS FOR THERMOSTAT LOCATIONS.

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WINTON WOODS CITY SCHOOLS
825 WAYCROSS ROAD, SUITE A, CINCINNATI, OHIO 45240

ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

ROOF POWER PLAN AREA B

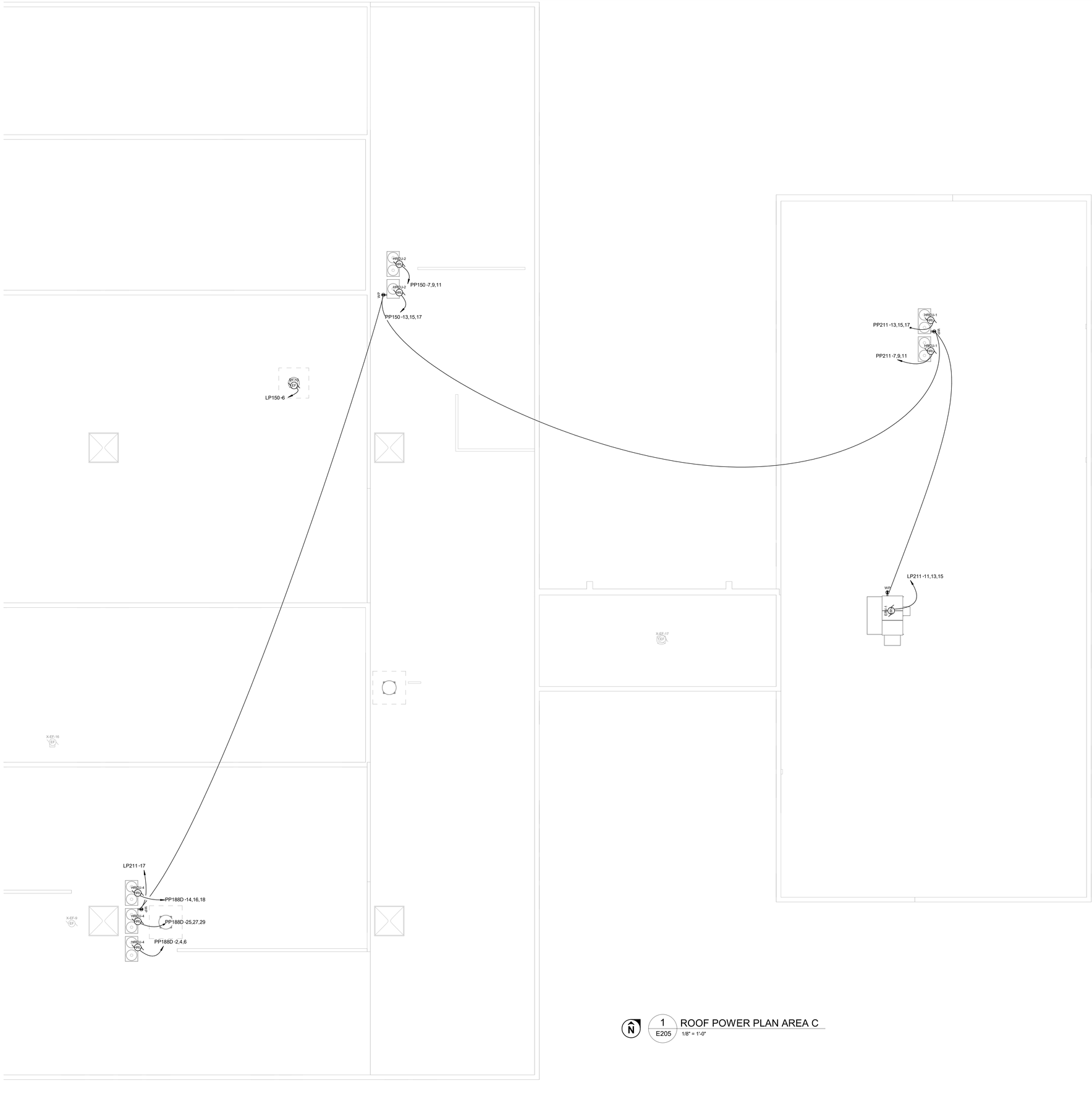
DATE 03-31-22

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E204

"0.1" REFERENCE LINE"

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1 E205 ROOF POWER PLAN AREA C
1/8" = 1'-0"

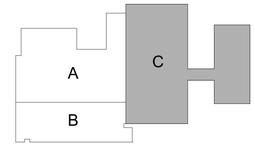
GENERAL POWER NOTES:

A. REFER TO E600 SERIES SHEETS FOR PANEL AND CIRCUIT NUMBERS FOR MECHANICAL AND PLUMBING EQUIPMENT.

B. REFER TO E600 SERIES SHEETS FOR STARTER AND DISCONNECT REQUIREMENTS FOR MECHANICAL AND PLUMBING EQUIPMENT.

C. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE ACCESSIBLE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE M SERIES DRAWINGS FOR THERMOSTAT LOCATIONS.

KEYNOTES



KEY PLAN
NTS

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WINTON WOODS CITY SCHOOLS
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ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

ROOF POWER PLAN AREA C

DATE 03-31-22

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E205

0.1" REFERENCE LINE

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Switchboard: MP1

Location: Space 155 | **Volts:** 480Y/277 V | **A.I.C. Rating:** 65,000 A
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: | **Wires:** 4 | **Mains Rating:** 1600.0 A
Enclosure: | **MCB Rating:** 1600.0 A

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PP184	3	400.0 A	400.0 A	291196 VA	
2	PP128	3	600.0 A	600.0 A	220885 VA	
3	TPX	3	600.0 A	450.0 A	180999 VA	
4	PP150	3	400.0 A	400.0 A	166156 VA	
5	PP211	3	400.0 A	400.0 A	54554 VA	
6	Spare	3	400.0 A	400.0 A	0 VA	
7	Spare	3	400.0 A	400.0 A	0 VA	
8	Spare	3	400.0 A	400.0 A	0 VA	
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	913790 VA	
				Total Amps:	1099.1 A	

Legend:

Panel Totals	
Total Conn. Load:	913790 VA
Total Est. Demand:	913790 VA
Total Conn. Current:	1099.1 A
Total Est. Demand Current:	1099.1 A

Notes:
TVSS
OWNER METER

Panelboard: LP188D

Location: Space 155 | **Volts:** 208Y/120 V | **A.I.C. Rating:** 10,000 A
Supply From: TLP188D | **Phases:** 3 | **Mains Type:** MCB
Mounting: Wall Mounted | **Wires:** 4 | **Panel & MCB Rating** 150.0 A
Enclosure:

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		C		Poles	Trip	Device Notes	Circuit Description	CKT
1	M - EF-9		15	1	667	2327					3	25		M - ERV-4	2
3	M - HRCU-4 FCs		15	2			1217	2327			--	--	--	--	4
5	--	--	--	--					1217	2327	--	--	--	--	6
7	M - HRCU-4 FCs		15	2	1165	1165					2	15		M - HRCU-4 FCs	8
9	--	--	--	--			1165	1165			--	--	--	--	10
11	M - EF-8		15	1					667	1176	1	20		M - EF-16	12
13	M - ERV-2		15	2	593										14
15	--	--	--	--			593								16
17															18
19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37	Spare		20	1	0	0					1	20		Spare	38
39	Spare		20	1			0	0			1	20		Spare	40
41	Spare		20	1					0	0	1	20		Spare	42
				Total Load:	5916 VA		6466 VA		5387 VA						
				Total Amps:	50.0 A		54.6 A		44.9 A						

L = LIGHTS	Panel Totals	
R = RECEPTACLES		
M = MECHANICAL EQUIPMENT	**Total Conn. Load:**	17769 VA
P = PLUMBING EQUIPMENT	**Total Est. Demand:**	17769 VA
	Total Conn. Current:	49.3 A
	Total Est. Demand Current:	49.3 A

Notes:

Panelboard: LP150

Location: Space 15 | **Volts:** 208Y/120 V | **A.I.C. Rating:** 10,000 A
Supply From: TLP150 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Wall Mounted | **Wires:** 4 | **Panel & MCB Rating** 150.0 A
Enclosure:

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		C		Poles	Trip	Device Notes	Circuit Description	CKT
1	M - HRCU-2 FCs		15	2	894	1176					1	20		M - EF-4	2
3	--	--	--	--			894	667			1	15		M - EF-10	4
5	M - HRCU-2 FCs		15	2					884	667	1	15		M - EF-13	6
7	--	--	--	--	884	593					2	15		M - ERV-5	8
9	M - HRCU-2 FCs		15	2			104	593			--	--	--	--	10
11	--	--	--	--					104						12
13	M - HRCU-3 FCs		15	2	707										14
15	--	--	--	--			707								16
17	M - HRCU-2 FCs		15	2					780						18
19	--	--	--	--	780										20
21	R - ROOFTOP RECEP		20	1			540								22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37	Spare		20	1	0	0					1	20		Spare	38
39	Spare		20	1			0	0			1	20		Spare	40
41	Spare		20	1					0	0	1	20		Spare	42
				Total Load:	5034 VA		3505 VA		2435 VA						
				Total Amps:	43.3 A		30.6 A		20.3 A						

L = LIGHTS	Panel Totals	
R = RECEPTACLES		
M = MECHANICAL EQUIPMENT	**Total Conn. Load:**	10975 VA
P = PLUMBING EQUIPMENT	**Total Est. Demand:**	10975 VA
	Total Conn. Current:	30.5 A
	Total Est. Demand Current:	30.5 A

Notes:

Panelboard: PP184

Location: Space 143 | **Volts:** 480Y/277 V | **A.I.C. Rating:** 18,000 A
Supply From: MP1 | **Phases:** 3 | **Mains Type:** MLO
Mounting: Wall Mounted | **Wires:** 4 | **Panel Rating** 400.0 A
Enclosure:

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		C		Poles	Trip	Device Notes	Circuit Description	CKT
1	TLP184		125	3	10499	5040					3	25		M - CU-1A	2
3	--	--	--	--			10368	5040			--	--	--	--	4
5	--	--	--	--					9659	5040	--	--	--	--	6
7	M - CU-1C		25	3	5040	5040					3	25		M - CU-1B	8
9	--	--	--	--			5040	5040			--	--	--	--	10
11	--	--	--	--					5040	5040	--	--	--	--	12
13	M - CU-1D		50	3	5040	3598					3	20		M - CU-2B	14
15	--	--	--	--			5040	3598			--	--	--	--	16
17	--	--	--	--					5040	3598	--	--	--	--	18
19	M - HRCU-7		70	3	17581	1273					3	15		M - AHU-2A	20
21	--	--	--	--			17581	1273			--	--	--	--	22
23	--	--	--	--					17581	1273	--	--	--	--	24
25	M - HRCU-7		60	3	13837	2865					3	15		M - AHU-1B	26
27	--	--	--	--			13837	2865			--	--	--	--	28
29	--	--	--	--					13837	2865	--	--	--	--	30
31	M - AHU-1A		15	3	2865	1273					3	15		M - AHU-2B	32
33	--	--	--	--			2865	1273			--	--	--	--	34
35	--	--	--	--					2865	1273	--	--	--	--	36
37	Spare		20	3	0	0					3	20		Spare	38
39	--	--	--	--			0	0			--	--	--	--	40
41	--	--	--	--					0	0	--	--	--	--	42
				Total Load:	73953 VA		73821 VA		73112 VA						
				Total Amps:	267.4 A		266.9 A		263.9 A						

L = LIGHTS	Panel Totals	
R = RECEPTACLES		
M = MECHANICAL EQUIPMENT	**Total Conn. Load:**	220885 VA
P = PLUMBING EQUIPMENT	**Total Est. Demand:**	220885 VA
	Total Conn. Current:	265.7 A
	Total Est. Demand Current:	265.7 A

Notes:

Panelboard: LP184

Location: Space 143 | **Volts:** 208Y/120 V | **A.I.C. Rating:** 10,000 A
Supply From: TLP184 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Wall Mounted | **Wires:** 4 | **Panel & MCB Rating** 225.0 A
Enclosure:

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		C		Poles	Trip	Device Notes	Circuit Description	CKT
1	M - HRCU-7 FCs		15	2	1009	593					2	15		M - ERV-6	2
3	--	--	--	--			1009	593			--	--	--	--	4
5	M - HRCU-7 FCs		15	2					1061	2327	3	25		M - ERV-3	6
7	--	--	--	--	1061	2327					--	--	--	--	8
9	M - HRCU-7 FCs		15	2			1061	2327			--	--	--	--	10
11	--	--	--	--					1061	197	1	15		M - EF-2, EF-3	12
13	M - HRCU-5 FCs		15	2	312	811					2	15		M - HRCU-4 FCs	14
15	--	--	--	--			312	811			--	--	--	--	16
17	M - HRCU-3 FCs		15	2					1113	1165	2	15		M - HRCU-3 FCs	18
19	--	--	--	--	1113	1165					--	--	--	--	20
21	M - HRCU-3 FCs		15	2			811	1061			2	15		M - HRCU-6 FCs	22
23	--	--	--	--					811	1061	--	--	--	--	24
25	M - HRCU-8 FCs		15	2	1123	123					1	15		M - EF-18	26
27	--	--	--	--			1123	1260			1	20		R - ROOFTOP RECEP	28
29	M - HRCU-6 FCs		15	2					863						30
31	--	--	--	--	863										32
33															34
35															36
37	Spare		20	1	0	0					1	20		Spare	38
39	Spare		20	1			0	0			1	20		Spare	40
41	Spare		20	1					0	0	1	20		Spare	42
				Total Load:	10499 VA		10368 VA		9659 VA						
				Total Amps:	88.4 A		87.3 A		80.5 A						

L = LIGHTS	Panel Totals	
R = RECEPTACLES		
M = MECHANICAL EQUIPMENT	**Total Conn. Load:**	30526 VA
P = PLUMBING EQUIPMENT	**Total Est. Demand:**	30526 VA
	Total Conn. Current:	84.7 A
	Total Est. Demand Current:	84.7 A

Notes:

Panelboard: S

Location: Space 31 | **Volts:** 208Y/120 V | **A.I.C. Rating:** EXISTING
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Wall Mounted | **Wires:** 4 | **Panel Rating** 100.0 A
Enclosure:

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		C		Poles	Trip	Device Notes	Circuit Description	CKT
1	E - LIGHTS MECH ROOM		20	1	1200	900					1	20		E - EF-16	2
3	E - LIGHTS MECH ROOM		20	1			600	1000			1	20		E - HW CIRC PUMPS	4
5	M - HWB-1		25	1					1920	1920	1	25		E - HWB-2	6
7															8
9															10
11															12
13															14
15															16
17															18
19						--					3	--		Space	20
21	E - RECEPTACLES		20	1			1000	--			--	--	--	--	22
23	Space		--	1					--	--	--	--	--	--	24
				Total Load:	2100 VA		2600 VA		3840 VA						
				Total Amps:	17.5 A		22.3 A		32.6 A						

L = LIGHTS	Panel Totals	
R = RECEPTACLES		
M = MECHANICAL EQUIPMENT	**Total Conn. Load:**	8540 VA
P = PLUMBING EQUIPMENT	**Total Est. Demand:**	8540 VA
	Total Conn. Current:	23.7 A
	Total Est. Demand Current:	23.7 A

Notes:
EXISTING PANEL

Panelboard: PP188D

Location: Space 155 | **Volts:** 480Y/277 V | **A.I.C. Rating:** 18,000 A
Supply From: MP1 | **Phases:** 3 | **Mains Type:** MLO
Mounting: Wall Mounted | **Wires:** 4 | **Panel Rating** 600.0 A
Enclosure:

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		C		Poles	Trip	Device Notes	Circuit Description	CKT
1	M - HRCU-8		50	3	12043	12043					3	50		M - HRCU-4	2
3	--	--	--	--			12043	12043			--	--	--	--	4
5	--	--	--	--					12043	12043	--	--	--	--	6
7	M - HRCU-8		40	3	9072	2016					3	15		M - P-2	8
9	--	--	--	--			9072	2016			--	--	--	--	10
11	--	--	--	--					9072	2016	--	--	--	--	12
13	M - CU-2A		20	3	3598	13820					3	60		M - HRCU-4	14
15	--	--	--	--			3598	13820			--	--	--	--	16
17	--	--	--	--					3598	13820	--	--	--	--	18
19	M - P-1		15	3	2016	5916					3	70		TLP188D	20
21	--	--	--	--			2016	6466			--	--	--	--	22
23	--	--	--	--					2016	5387	--	--	--	--	24
25	M - HRCU-4		60	3	13820	13820					3	60		M - HRCU-6	26
27	--	--	--	--			13820	13820			--	--	--	--	28
29	--	--	--	--					13820	13820	--	--	--	--	30
31	L - ELECTRICAL ROOM		20	1	86	3134					3	15		M - HRCU-5	32
33	M - AHU-1C		15	3			2865	3134			--	--	--	--	34
35	--	--	--	--					2865	3134	--	--	--	--	36
37	--	--	--	--	2865										38
39	M - AHU-1D		15	3			2865								40
41	--	--	--	--					2865						42
43	--	--	--	--	2865										44
45															46
47															48
49															50
51															52
53															54
55	Spare		20	1	0	0					1	20		Spare	56
57	Spare		20	1			0	0			1	20		Spare	58
59	Spare		20	1					0	0	1	20		Spare	60
				Total Load:	97116 VA		97580 VA		96500 VA						
				Total Amps:	350.9 A		352.6 A		348.4 A						

L = LIGHTS	Panel Totals	
R = RECEPTACLES		
M = MECHANICAL EQUIPMENT	**Total Conn. Load:**	291196 VA
P = PLUMBING EQUIPMENT	**Total Est. Demand:**	291196 VA
	Total Conn. Current:	350.3 A
	Total Est. Demand Current:	350.3 A

Notes:

Panelboard: PP150

Location: Space 15 | **Volts:** 480Y/277 V | **A.I.C. Rating:** 18,000 A
Supply From: MP1 | **Phases:** 3 | **Mains Type:** MLO
Mounting: Wall Mounted | **Wires:** 4 | **Panel Rating** 400.0 A
Enclosure:

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		C		Poles	Trip	Device Notes	Circuit Description	CKT
1	TLP150		70	3	5034	13820					3	60		M - HRCU-3	2
3	--	--	--	--			3505	13820			--	--	--	--	4
5	--	--	--	--					2435	13820	--	--	--	--	6
7	M - HRCU-2		60	3	13820	12043					3	60		M - HRCU-3	8
9	--	--	--	--			13820	12043			--	--	--	--	10
11	--	--	--	--					13820	12043	--	--	--	--	12
13	M - HRCU-2		50	3	12043										14
15	--	--	--	--			12043								16
17	--	--	--	--					12043						18
19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37	Spare		20	1	0	0					1	20		Spare	38
39	Spare		20	1			0	0			1	20		Spare	40
41	Spare		20	1					0	0	1	20		Spare	42
				Total Load:	56761 VA		55232 VA		54162 VA						
				Total Amps:	265.5 A		200.0 A		195.5 A						

L = LIGHTS	Panel Totals	
R = RECEPTACLES		
M = MECHANICAL EQUIPMENT	**Total Conn. Load:**	166156 VA
P = PLUMBING EQUIPMENT	**Total Est. Demand:**	166156 VA
	Total Conn. Current:	199.9 A
	Total Est. Demand Current:	199.9 A

Notes:

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ISSUANCES

03-31-22	BID / PERMIT

PANEL SCHEDULES

DATE 03-31-22

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Panelboard: LP211

Location: Space 71
Supply From: TLP211
Mounting: Wall Mounted
Enclosure:

Volts: 208Y/120 V
Phases: 3
Wires: 4

A.I.C. Rating: 10,000 A
Mains Type: MCB
Panel & MCB Rating 150.0 A

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		C		Poles	Trip	Device Notes	Circuit Description	CKT
1	M - HRCU-1 FCs		15	2	957										2
3	--	--	--	--			957								4
5	DOOR POWER SUPPLIES		20	1					540						6
7	M - HRCU-1 FCs		15	2	1071										8
9	--	--	--	--			1071								10
11	M - ERV-1		25	3					2327						12
13	--	--	--	--	2327										14
15	--	--	--	--			2327								16
17	R - ROOFTOP RECEP		20	1					720						18
19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37	Spare		20	1	0	0					1	20		Spare	38
39	Spare		20	1			0	0			1	20		Spare	40
41	Spare		20	1					0	0	1	20		Spare	42
				Total Load:	4355 VA		4355 VA		3587 VA						
				Total Amps:	37.3 A		37.3 A		29.9 A						

L = LIGHTS					**Panel Totals**	
R = RECEPTACLES						
M = MECHANICAL EQUIPMENT					**Total Conn. Load:**	12297 VA
P = PLUMBING EQUIPMENT					**Total Est. Demand:**	12297 VA
					Total Conn. Current:	34.1 A
					Total Est. Demand Current:	34.1 A

Notes:

Panelboard: PP211

Location: Space 71
Supply From: MP1
Mounting: Wall Mounted
Enclosure:

Volts: 480Y/277 V
Phases: 3
Wires: 4

A.I.C. Rating: 18,000 A
Mains Type: MLO
Panel Rating 225.0 A

CKT	Circuit Description	Device Notes	Trip	Poles	A		B		C		Poles	Trip	Device Notes	Circuit Description	CKT
1	TLP211		70	3	4355										2
3	--	--	--	4			4355								4
5	--	--	--	--					3587						6
7	M - HRCU-1		30	3	6207										8
9	--	--	--	--			6207								10
11	--	--	--	--					6207						12
13	M - HRCU-1		35	3	7878										14
15	--	--	--	--			7878								16
17	--	--	--	--					7878						18
19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37	Spare		20	1	0	0					1	20		Spare	38
39	Spare		20	1			0	0			1	20		Spare	40
41	Spare		20	1					0	0	1	20		Spare	42
				Total Load:	18441 VA		18441 VA		17673 VA						
				Total Amps:	67.0 A		67.0 A		63.8 A						

L = LIGHTS					**Panel Totals**	
R = RECEPTACLES						
M = MECHANICAL EQUIPMENT					**Total Conn. Load:**	54554 VA
P = PLUMBING EQUIPMENT					**Total Est. Demand:**	54554 VA
					Total Conn. Current:	65.6 A
					Total Est. Demand Current:	65.6 A

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ISSUANCES

03-31-22	BID / PERMIT

PANEL SCHEDULES

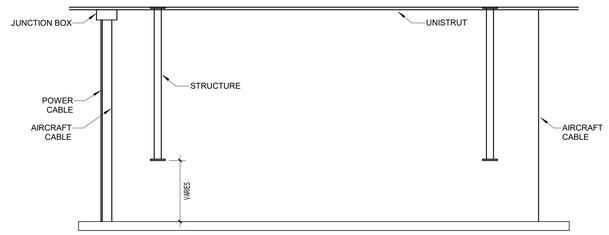
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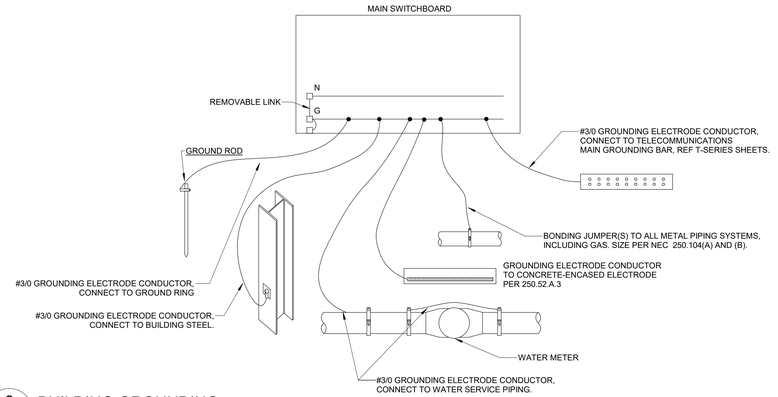
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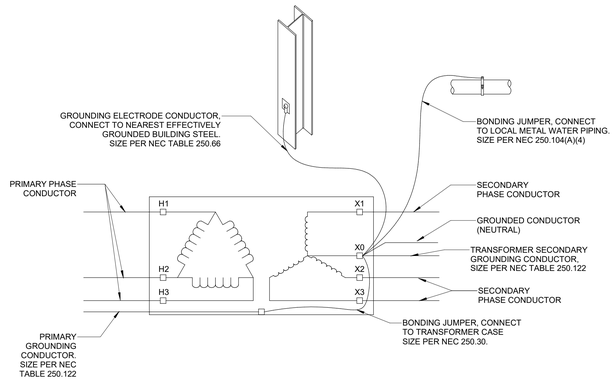
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1 E500 MOUNTING DETAIL - LINEAR PENDANT



2 E500 BUILDING GROUNDING



3 E500 TRANSFORMER GROUNDING DETAIL

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ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

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DATE 03-31-22

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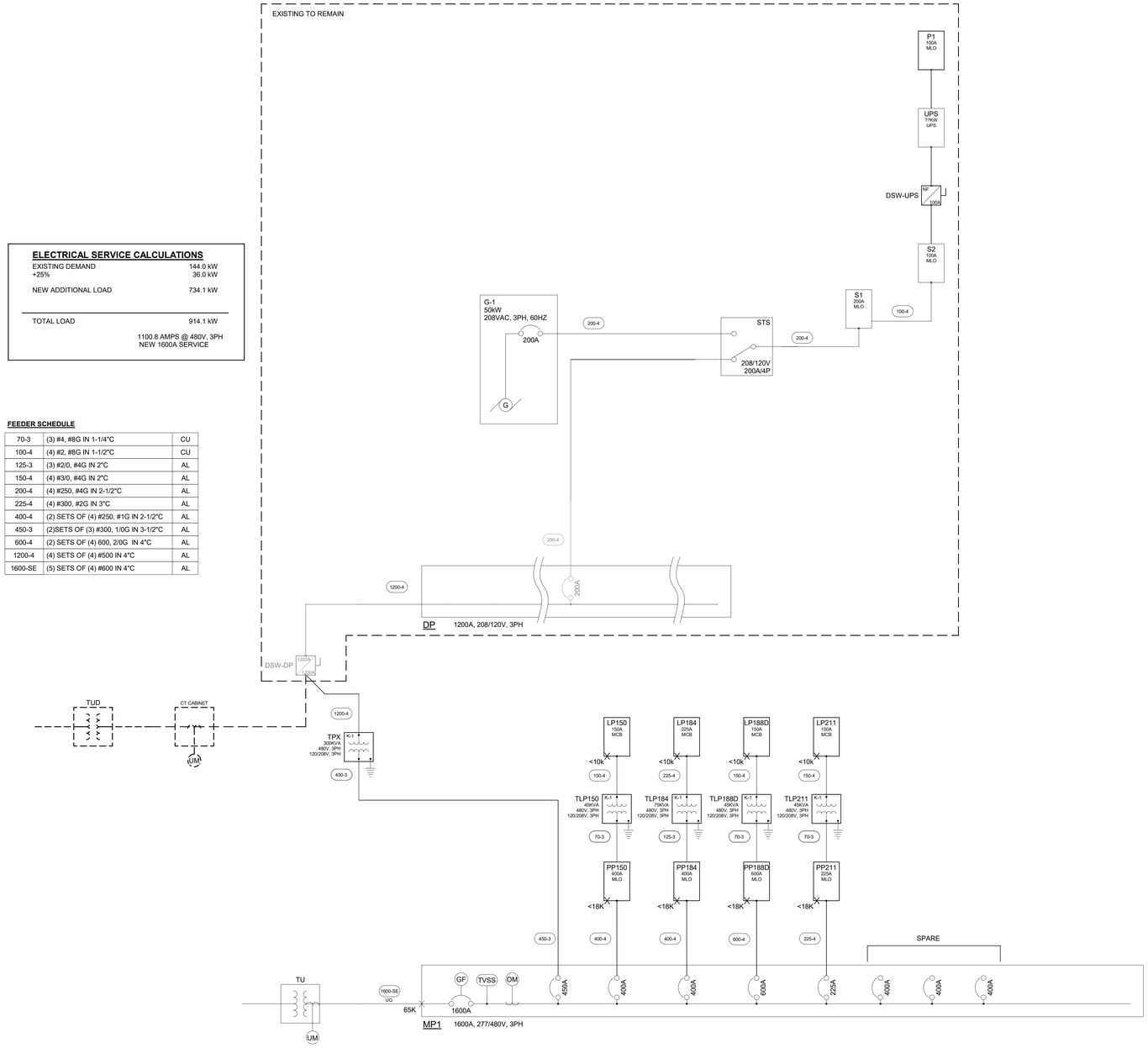
ELECTRICAL SERVICE CALCULATIONS

EXISTING DEMAND	144.0 kW
+25%	36.0 kW
NEW ADDITIONAL LOAD	734.1 kW
TOTAL LOAD	914.1 kW

1100.8 AMPS @ 480V, 3PH
NEW 1600A SERVICE

FEEDER SCHEDULE

70-3	(3) #4, #8G IN 1-1/4"C	CU
100-4	(4) #2, #8G IN 1-1/2"C	CU
125-3	(3) #2/0, #4G IN 2"C	AL
150-4	(4) #3/0, #4G IN 2"C	AL
200-4	(4) #250, #4G IN 2-1/2"C	AL
225-4	(4) #300, #2G IN 3"C	AL
400-4	(2) SETS OF (4) #250, #1G IN 2-1/2"C	AL
450-3	(2)SETS OF (3) #300, 1/0G IN 3-1/2"C	AL
600-4	(2) SETS OF (4) 600, 2/0G IN 4"C	AL
1200-4	(4) SETS OF (4) #500 IN 4"C	AL
1600-SE	(5) SETS OF (4) #600 IN 4"C	AL



1 E600 SINGLE LINE DIAGRAM
NOT TO SCALE

ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

ELECTRICAL SINGLE LINE DIAGRAM

DATE 03-31-22

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E600

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GENERAL NOTES - SITE PLAN

A. PRIMARY INSTALLATION FURNISHED AND INSTALLED BY LOCAL UTILITY POWER COMPANY.

B. COORDINATE TRANSFORMER PAD AND SERVICE INSTALLATION REQUIREMENTS WITH LOCAL UTILITY POWER COMPANY.

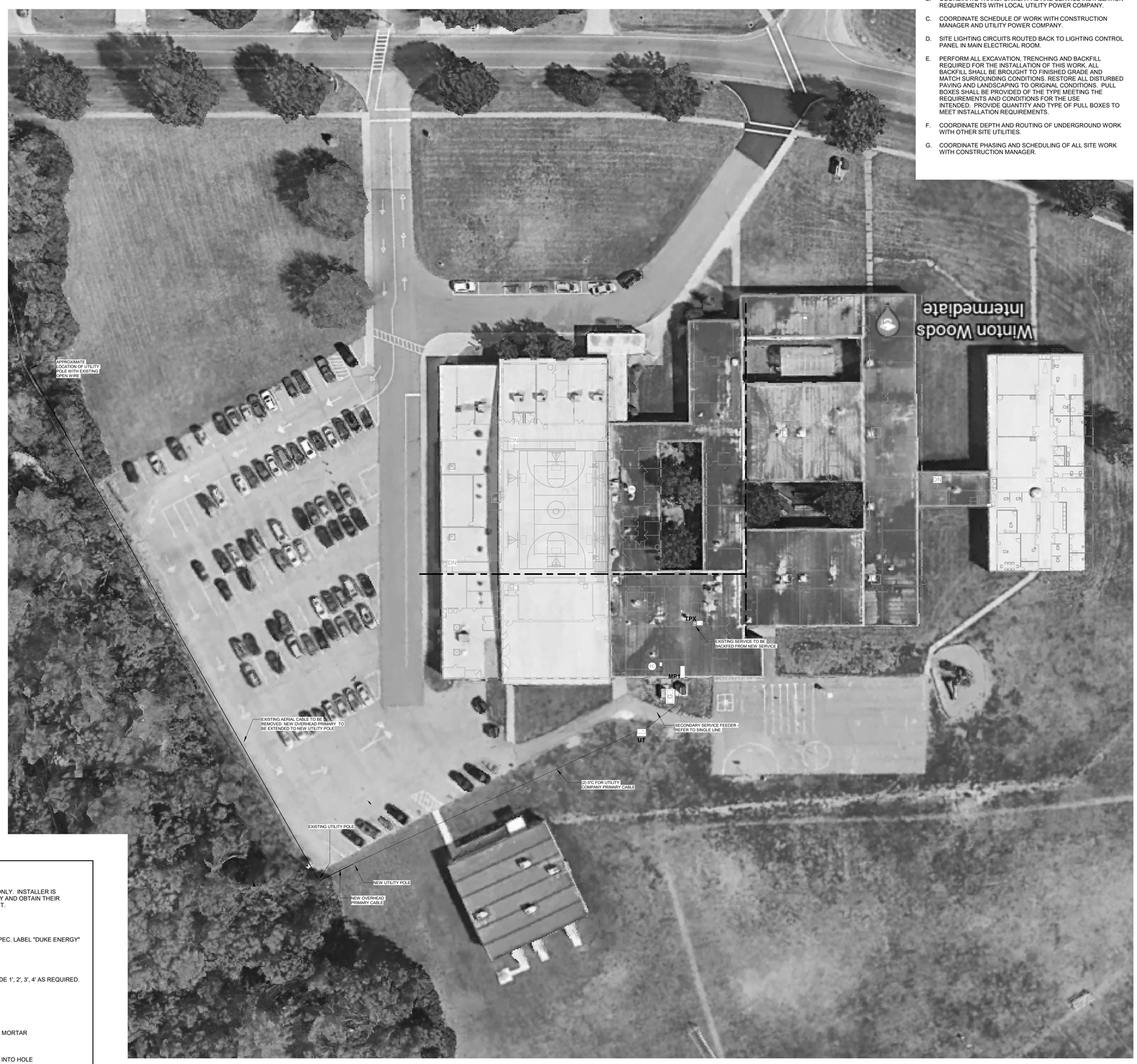
C. COORDINATE SCHEDULE OF WORK WITH CONSTRUCTION MANAGER AND UTILITY POWER COMPANY.

D. SITE LIGHTING CIRCUITS ROUTED BACK TO LIGHTING CONTROL PANEL IN MAIN ELECTRICAL ROOM.

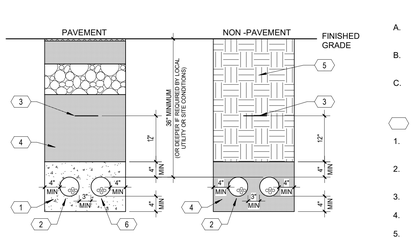
E. PERFORM ALL EXCAVATION, TRENCHING AND BACKFILL REQUIRED FOR THE INSTALLATION OF THIS WORK. ALL BACKFILL SHALL BE BROUGHT TO FINISHED GRADE AND MATCH SURROUNDING CONDITIONS. RESTORE ALL DISTURBED PAVING AND LANDSCAPING TO ORIGINAL CONDITIONS. PULL BOXES SHALL BE PROVIDED OF THE TYPE MEETING THE REQUIREMENTS AND CONDITIONS FOR THE USE INTENDED. PROVIDE QUANTITY AND TYPE OF PULL BOXES TO MEET INSTALLATION REQUIREMENTS.

F. COORDINATE DEPTH AND ROUTING OF UNDERGROUND WORK WITH OTHER SITE UTILITIES.

G. COORDINATE PHASING AND SCHEDULING OF ALL SITE WORK WITH CONSTRUCTION MANAGER.



1 E700 ELECTRICAL SITE PLAN
1" = 30'-0"



GENERAL NOTES:

A. NUMBER OF CONDUITS IN TRENCH ARE AS INDICATED ON PLANS

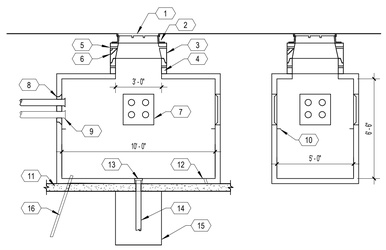
B. ALL UNDERGROUND CONDUITS TO HAVE LONG SWEEPING BENDS

C. PROVIDE ALL EMPTY UNDERGROUND CONDUITS WITH PULLWIRE

DETAIL NOTES:

1. 3000 LB. CONCRETE ENCASEMENT WITH RED DYE
2. MINIMUM 3" SPACING BETWEEN CONDUITS. PROVIDE CONDUIT SPACERS ON 6' O.C.
3. RED WARNING TAPE
4. PEA GRAVEL
5. COMPACTED BACKFILL
6. 5" I.D. DUCTS UNLESS INDICATED OTHERWISE, SCHEDULE 40 PVC

2 E700 DUCT BANK DETAIL - PRIMARY FEEDER



GENERAL NOTES:

A. THIS DETAIL IS FOR INFORMATIONAL PURPOSES ONLY. INSTALLER IS RESPONSIBLE TO CONTACT THE UTILITY COMPANY AND OBTAIN THEIR WORKING DRAWINGS FOR THIS SPECIFIC PROJECT.

DETAIL NOTES:

1. 30" CIRCULAR MANHOLE COVER: DUKE ENERGY SPEC. LABEL "DUKE ENERGY"
2. MANHOLE FRAME: DUKE ENERGY SPEC. 1243A-5
3. DOME SECTION: DUKE ENERGY SPEC. SE-100-66
4. BASE SECTION: DUKE ENERGY SPEC. SE66. PROVIDE 1', 2', 3', 4' AS REQUIRED.
5. 1-1/4" LIFTING HOLES
6. (2) LAYERS. #4 x #8 WELDED WIRE FABRIC.
7. 2' x 2' KNOCKOUTS
8. SEAL CONDUIT PENETRATIONS WITH WATER SEAL MORTAR
9. BELL ENDS ON CONDUITS
10. 3/4" x 8" STAINLESS STEEL PULL BOLTS. EXTEND 3" INTO HOLE
11. 6" LAYER SAND OR BANKRUN GRAVEL
12. 5/8" HOLE DRILLED ON ANGLE 8" FROM EACH CORNER FOR GROUND RODS
13. 12" HOLE FOR DRAIN
14. 4" DRAIN TILE OR PIPE x 3' DEEP
15. 4' x 3' x 1" WASHED STONE FRENCH DRAIN
16. 5/8" DIA. x 8' GROUND ROD
17. ZURN Z-1095 BACKWATER VALVE - FLAPPER TYPE WHERE CONNECTED TO STORM SEWER. PROVIDE HOLE FOR CLEANOUT.

3 E700 MANHOLE DETAIL

ISSUANCES

11-05-21	DESIGN DEVELOPMENT
03-31-22	BID / PERMIT

ELECTRICAL SITE PLAN

DATE 03-31-22

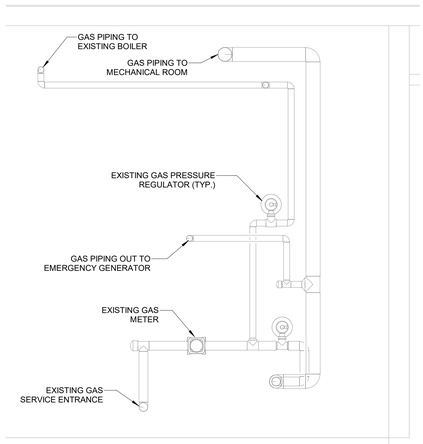
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E700

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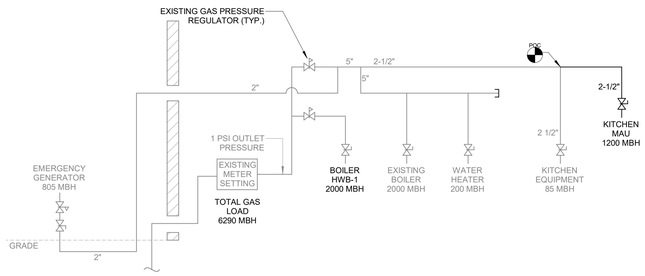
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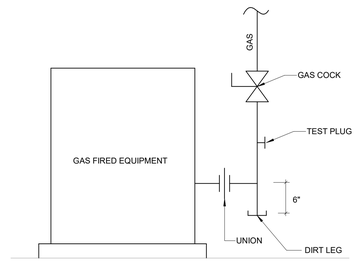
1 P000 GAS SERVICE ENTRANCE

SUPPORT OF GAS PIPING	
STEEL PIPE, NOMINAL SIZE OF PIPE (INCHES)	SPACING OF SUPPORTS (FEET)
1/2	6
3/4 TO 1	8
1 1/4 OR LARGER (HORIZONTAL)	10
1 1/4 OR LARGER (VERTICAL)	EVERY FLOOR LEVEL

GAS PIPE DESIGN - BUILDING SERVICE	
TYPE OF GAS: NATURAL GAS	
PIPE MATERIAL: SCHEDULE 40 STEEL	
DELIVERY PRESSURE: < 1.5 PSI	
PRESSURE DROP: 1.0 INCHES W.C.	
LENGTH OF LONGEST RUN: 375 FEET	
PIPE SIZE	CAPACITY (MBH)
3/4"	74
1"	140
1 1/4"	287
1 1/2"	430
2"	829
2 1/2"	1322
3"	2338
4"	4771
5"	8635



2 P000 GAS PIPING SCHEMATIC



3 P000 GAS EQUIPMENT CONNECTION DETAIL

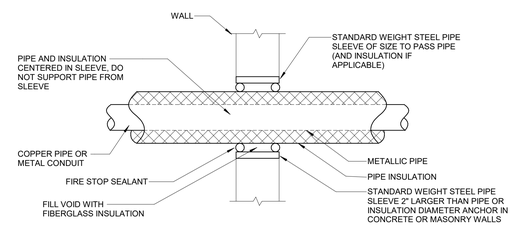
KEYNOTES

P24 GAS PIPING TO SCINECE LABS TO BE ABANDONDED IN PLACE. DISCONNECT BRANCH PIPE FROM MAIN SYSTEM AND CAP OPEN ENDS OF PIPE.

P26 GAS PIPING CONNECTION TO EQUIPMENT. REFER TO DETAIL 3/P000.

P27 GAS PIPING UP TO ROOF TO SERVE NEW MAKE-UP AIR UNIT.

P28 NEW GAS PIPING ON ROOF SHALL BE SUPPORTED BY PRE-ENGINEERED SUPPORTS EQUAL TO MIRO INDUSTRIES MODEL 3-RAH-12, AT A MAXIMUM SPACING OF 10 FEET.



UL DESIGN SYSTEM NO. W-J-1025 FOR 1-HOUR AND 2-HOUR RATED PENETRATIONS
UL DESIGN SYSTEM NO. W-J-1040 FOR 3-HOUR PENETRATIONS
RATING TO MATCH RATING OF WALL ASSEMBLY BEING PENETRATED.

4 P000 PIPE PENETRATION THROUGH FIRE RATED WALL

GENERAL PLUMBING NOTES

A. "GENERAL NOTES" APPLY TO ALL P SERIES DRAWINGS ISSUED FOR THIS PROJECT. "DRAWING NOTES" APPLY ONLY TO THE SHEETS ON WHICH THEY APPEAR.

B. ALL WORK SHALL BE PERFORMED AND INSTALLED PER THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL CODES, LAWS, REGULATIONS, INSPECTION AGENCIES, UTILITY COMPANIES AND OTHER AUTHORITIES HAVING JURISDICTION.

C. COORDINATE WITH WORK OF OTHER TRADES TO AVOID INTERFERENCES BEFORE BEGINNING WORK.

D. IN GENERAL, THE P SERIES DRAWING FORMAT IS AS FOLLOWS: SANITARY WASTE PIPING IS LOCATED BELOW THE FLOOR WHEN SHOWN DASHED AND ABOVE THE FLOOR WHEN SHOWN SOLID. INVERT AND CENTERLINE ELEVATIONS AS WELL AS OTHER NOTED INFORMATION MAY BE PROVIDED FOR CLARIFICATION.

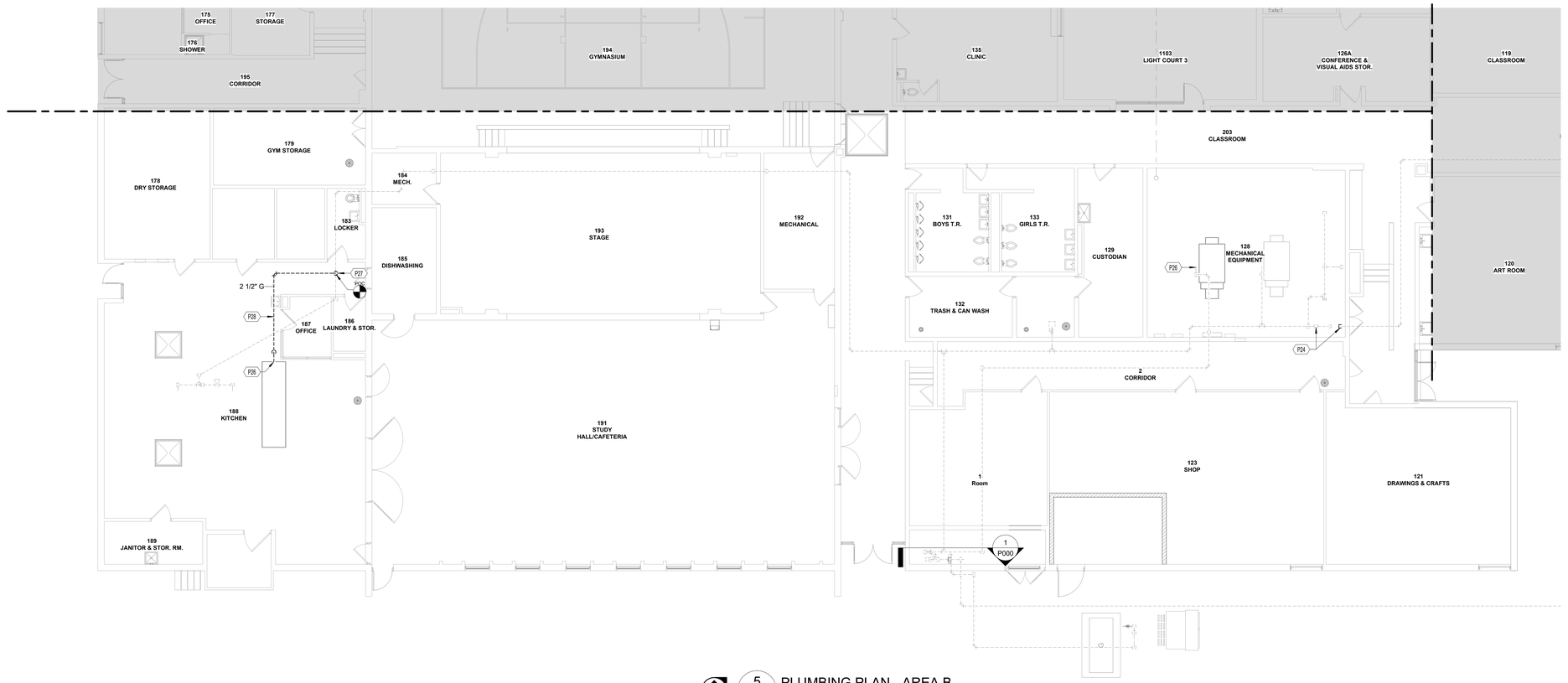
E. INSTALL PIPING IN PIPE CHASES, ABOVE CEILINGS AND IN WALLS. INSTALL HORIZONTAL MAINS AND BRANCHES AS HIGH AS PRACTICAL. MAKE OFFSETS IN PIPING TO AVOID INTERFERENCE WITH WORK OF OTHER TRADES WHETHER SHOWN ON DRAWINGS OR NOT. DO NOT INSTALL LIQUID CARRYING PIPING IN OUTSIDE WALLS, ATTIC SPACES OR ANY OTHER AREAS SUBJECT TO FREEZING TEMPERATURES.

F. INSTALL VALVES IN ACCESSIBLE LOCATIONS AND IN SUCH A MANNER AS TO BE EASY TO OPERATE. PROVIDE ACCESS PANELS FOR VALVES INSTALLED IN CONCEALED SPACES SUCH AS ABOVE PERMANENT CEILINGS AND IN OR BEHIND WALLS.

G. PROVIDE ACCESS PANELS FOR ALL EQUIPMENT AND SPECIALTIES SUCH AS WATER HAMMER ARRESTERS OR OTHER DEVICES WHICH MAY REQUIRE ACCESS FOR MAINTENANCE AND OPERATION.

H. PLUMBING SCHEDULES IDENTIFY THE BASIS OF DESIGN MANUFACTURER AND MODEL. REFER TO SPECIFICATIONS FOR ADDITIONAL APPROVED MANUFACTURERS.

I. PROVIDE SLEEVES AND FIRESTOPPING IN COMPLIANCE WITH THE SPECIFICATIONS INCLUDING DIVISION 7 AT PENETRATIONS OF ALL RATED WALLS AND FLOORS. REFER TO DETAIL 4/P000.



5 P000 PLUMBING PLAN - AREA B
1/8" = 1'-0"

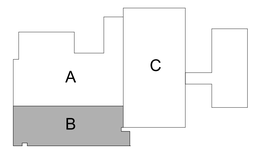
SYMBOLS AND ABBREVIATIONS LEGEND
(THERE MAY BE SYMBOLS LISTED IN THIS LEGEND THAT ARE NOT USED IN THIS SET OF DRAWINGS)

PIPE TAG LEGEND

4" - C
PIPE SIZE (DIA.) — PIPE SYSTEM TYPE

ABBR	DESCRIPTION
G	NATURAL GAS

BALL VALVE
PLUG VALVE
PIPE CONTINUES
PIPE TURNING UP
PIPE TURNING DOWN
POINT OF CONNECTION
KEYNOTE NOTE



KEY PLAN
NTS

"0-1" REFERENCE LINE"

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EARLY CHILDHOOD ESSER RENOVATIONS
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WINTON WOODS CITY SCHOOLS
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ISSUANCES

03-31-22	BID / PERMIT

ESSER
PLUMBING
PLANS

DATE 03-31-22
COMM NO. 2021091.01

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