

**Report By:**

National TAB  
1329 E. KEMPER ROAD  
SUITE 4210  
CINCINNATI, OH 45246



**Report: TAB Report**  
**Function: Test, Adjust, & Balance**  
**Date: 01/18/2026**  
**Completed By: National TAB**

# PROJECT

**Fieldstone @ Chester Springs ALF (Chester Springs, PA)**

145 Byers Rd

Chester Springs, PA 19475

## Client

D.J. Wagner Heating & Air Conditioning, Inc.  
30 Cutler Avenue  
Westville, NJ 08093

# National TAB

Project: Fieldstone @ Chester Springs ALF (Chester Springs, PA)

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## Issue List

- Basement exhaust fire damper
- Locker room exhaust E1-72
- Second floor Exhaust duct
- Unit configuration
- Unit Outside air controls



## Fieldstone @ Chester Springs ALF (Chester Springs, PA)

### Project Issue Information

**Issue Name :** Basement exhaust fire damper  
**Description :** There is a drop off in flow from the first floor exhaust duct down to the basement, branch dampers on the first floor and basement confirmed full open. The fire damper was inspected and confirmed fully open, but there is audible turbulence and the damper is internal to the duct and looks to be taking up 35-40% of the duct flow area.

**Created By :** National TAB                      **Assigned To :** National TAB - Tyler Youells  
**Status :** Open  
**Priority :** High                                      **Asset Tag :**  
**Originated Date :** 01/28/2026 - Tyler Youells - National TAB

#### Project Issue File Details



01/28/2026

#### Project Issue Response Details

- **01/28/2026 National TAB - Tyler Youells**
  - Suspect the fire damper is the cause of low exhaust flow on the first floor and recommend upsizing damper size.

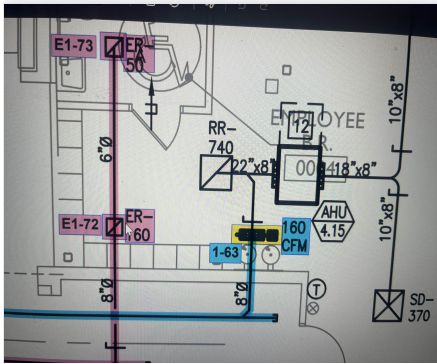


**Fieldstone @ Chester Springs ALF (Chester Springs, PA)**

**Project Issue Information**

**Issue Name :** Locker room exhaust E1-72  
**Description :** Exhaust register E 1-72 serving the locker room is installed as a 6" neck for 160CFM, Basement exhaust is already low but this exhaust register is at 22cfm. recommend upsizing the duct to 8" to allow for more flow.  
**Created By :** National TAB                      **Assigned To :** National TAB - Tyler Youells  
**Status :** Open  
**Priority :** Medium                                      **Asset Tag :**  
**Originated Date :** 01/28/2026 - Tyler Youells - National TAB

Project Issue File Details



01/28/2026

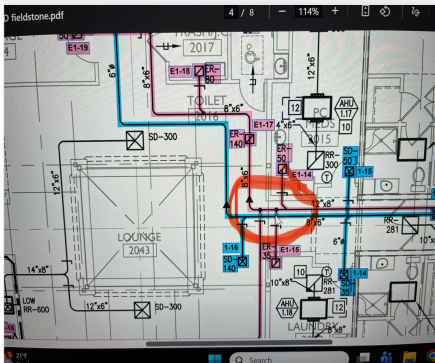


## Fieldstone @ Chester Springs ALF (Chester Springs, PA)

### Project Issue Information

**Issue Name :** Second floor Exhaust duct  
**Description :** Towards the end of the exhaust run on the second floor, a 12x8 to 6x8 transitioned occurred too soon causing 2-3 additional hits off the 6x8 duct where it should have been 12x8. the additional cfm load through the 6x8" duct is causing diffusers to be low on flow (E1-16 through E1-20)  
**Created By :** National TAB  
**Status :** Open  
**Priority :** Medium  
**Originated Date :** 01/28/2026 - Tyler Youells - National TAB  
**Assigned To :** National TAB - Tyler Youells  
**Asset Tag :**

#### Project Issue File Details



01/28/2026



**Fieldstone @ Chester Springs ALF (Chester Springs, PA)**

**Project Issue Information**

**Issue Name :** Unit configuration  
**Description :** Unit configuration is installed as a RTU with minimum outside air intake and powered exhaust with heat recovery wheel(Per unit submittals recovery wheel is designed for 1500CFM OA/EX). The application is designed as a DOAS 100% supplied outside air and 100% exhaust with no mixing allowed.  
**Created By :** National TAB                      **Assigned To :** National TAB - Tyler Youells  
**Status :** Open  
**Priority :** InfoOnly                                      **Asset Tag :**  
**Originated Date :** 01/28/2026 - Tyler Youells - National TAB

Project Issue Response Details

- **01/28/2026 National TAB - Tyler Youells**
  - Note: Engineers have provided revisions to terminal device CFMs to bring unit total flows down to 6210CFM-OA and 4800CFM Exhaust



## Fieldstone @ Chester Springs ALF (Chester Springs, PA)

### Project Issue Information

**Issue Name :** Unit Outside air controls  
**Description :** Found OA flow station unhooked from controls and OA damper fully closed with the unit in auto operation mode. Per the no return air mixing requirement OA needs to be 100% open. NTi permanently affixed the OA damper to be 100% open since the unit runs occupied 24/7.  
**Created By :** National TAB                      **Assigned To :** National TAB - Tyler Youells  
**Status :** Open  
**Priority :** InfoOnly                                      **Asset Tag :**  
**Originated Date :** 01/28/2026 - Tyler Youells - National TAB

#### Project Issue File Details



01/28/2026



01/28/2026

#### Project Issue Response Details

- **01/28/2026 National TAB - Tyler Youells**
  - Sub-note: should the outside air damper close, both the supply and powered exhaust fans will pull from the same duct and cause negative building pressure and unit cabinet extreme negative pressure.



# National TAB

Project: Fieldstone @ Chester Springs ALF (Chester Springs, PA)

## System/Unit: Energy Recovery Unit

Asset: ERU-1

AREA:COMMON AREAS

Unit Data	
	Actual
MFG	DAIKIN
Model Num	DPS020AHMG4DW-4
Serial Num	FBOU230501800
Num Exh-Filters 1	2
Exh-Filter Size 1	18X24X2
Num OA-Filters 1	11
OA-Supply Size 1	18X24X2
Num OA-Filters 2	9
OA-Filter Size 2	18X24X4

Exhaust Fan Motor Data		
	Design	Actual
Motor MFG	-	2X DAIKIN
Frame	-	NL
Horsepower	5.0	3300W
Motor Rpm	-	3300
Phase	3	3
Voltage (rated)	480	480
Amperage (rated)	-	5.4
Service Factor	-	NL

OA Fan Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	215T
Horsepower	7.5	10
Motor Rpm	-	1770
Phase	3	3
Voltage (rated)	480	460
Amperage (rated)	-	12.5
Service Factor	-	1.15

Exhaust Fan Test Data		
	Design	Actual
Exh-ERU CFM	4800	4418
Exh-ERU RPM	1603	2277
Exh-ERU System SetPt	-	69%
RL Voltage	480	495.1/494.2/497.8
RL Amperage	-	1.9/1.9/1.9/2.1/2.1/2.1
Brake Horse Power	-	3.19

Exhaust Fan Performance Data		
	Design	Actual
Exh-ERU Filter Delta SP	-	*COMBINED
Exh-ERU Wheel Delta SP	-	*1.76"
Exh-ERU Inlet T (db/wb)	-	72.0/52.4
Exh-ERU Discharge T (db/wb)	-	52.6/41.2
Exh-ERU Delta T	-	19.4/11.2

OA Fan Test Data		
	Design	Actual
OA-ERU CFM	6210	5971
OA-ERU RPM	2083	2330
Motor Frequency	-	79.0 HZ
RL Voltage	480	495.1/494.2/497.8
RL Amperage	-	10.4 VFD

OA Fan Performance Data		
	Design	Actual
OA-ERU Filter Delta SP	-	*COMBINED
OA-ERU Wheel Delta SP	-	*2.87"
OA-ERU Inlet T (db/wb)	-	45.6/36.8
OA-ERU Discharge T (db/wb)	-	56.1/43.1
OA-ERU Delta T	-	10.5/6.3

Completed By: Tyler Youells on 01/27/2026





# National TAB

Project: Fieldstone @ Chester Springs ALF (Chester Springs, PA)

## Energy Recovery Unit

### Diffuser Supply (GRD)

#### ERU-1/COMMON AREAS

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	3058 HALLWAY	SD	4	25	31	25	100.0
1-2	3056 PC OFFICE	SD	4	10	23	11	110.0
1-3	3057 HALLWAY	SD	4	40	47	44	110.0
1-4	3051 LAUNDRY	SD	4	35	29	33	94.3
1-5	3034 PC MEDS	SD	4	30	31	31	103.3
1-6	3059 HALLWAY	SD	8	120	41	109	90.8
1-7	3060 HALLWAY	SD	4	20	26	22	110.0
1-8	3057 HALLWAY	SD	8	110	77	103	93.6
1-9	3001A READING LOUNGE	SD	8	110	92	107	97.3
1-10	3001A READING LOUNGE	SD	8	160	111	156	97.5
1-11	2037 PC OFFICE	SD	4	15	48	16	106.7
1-12	2001 MULTI PURPOSE	SD	10	210	250	213	101.4
1-13	2039 HALLWAY	SD	4	30	48	27	90.0
1-14	2032 LAUNDRY	SD	4	35	45	37	105.7
1-15	2015 PC MEDS	SD	4	50	53	47	94.0
1-16	2043 LOUNGE	SD	8	140	112	130	92.9
1-17	2040 HALLWAY	SD	4	20	77	18	90.0
1-18	2038 HALLWAY	SD	4	25	33	27	108.0
1-19	227 LAUNDRY	SD	4	25	102	24	96.0
1-20	2005 PANTRY	SD	4	40	49	37	92.5
1-21	226 MC DINING	SD	6	520	522	483	92.9
1-22	200 HALLWAY	SD	4	30	25	27	90.0
1-23	204 STORAGE	AHU-2.13 DAMPER		30	65	32	106.7
1-24	203 OFFICE	AHU-2.14 DAMPER		30	73	28	93.3
1-25	1051 HALLWAY	SD	8	120	140	120	100.0
1-26	1045 DISCOVERY	AHU-1.12 DAMPER		85	96	80	94.1
1-27	MULTI PURPOSE	SR	14X6	55	93	53	96.4
1-28	1044 MARKETING	SD	4	15	62	17	113.3
1-29	1050A HALLWAY	SD	4	60	79	64	106.7
1-30	1042 ADMIN	SD	4	15	54	16	106.7
1-31	1041 CONFERENCE	SD	6	60	66	65	108.3
1-32	1052 HALLWAY	SD	4	30	10	28	93.3
1-33	1015 REHAB	SD	8	100	102	98	98.0
1-34	1047 OFFICE	AHU-1.08 DAMPER		45	20	42	93.3
1-35	1038 EXEC DIRECTOR	SD	6	20	34	22	110.0
1-36	1017 PC MEDS	SD	6	30	45	33	110.0
1-37	1016 BEAUTY/BARBER	AHU-1.06 DAMPER		100	128	98	98.0
1-38	1035 LAUNDRY	SD	4	35	55	33	94.3
1-39	1025 LOUNGE	SD	8	160	183	153	95.6
1-40	1053 HALLWAY	SD	4	20	28	22	110.0
1-41	1014 PUB	SD	14	570	546	517	90.7
1-42	1051 HALLWAY	SD	10	370	426	355	95.9
1-43	1011 PRIVATE DINING	AHU-3.03 DAMPER		150	163	146	97.3
1-44	1010 PC DINING	SD	10	370	263	351	94.9
1-45	1006 OFFICE	SD	4	15	62	16	106.7
1-46	128 MC DINING	SD	10	300	225	305	101.7
1-47	129 STORAGE CL	AHU-3.08 DAMPER		160	0	161	100.6

**ERU-1/COMMON AREAS**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-48	129 STORAGE CL	SD	10	160	360	163	101.9
1-49	100 HALLWAY	SD	8	75	83	80	106.7
1-50	101 MC DISCOVERY	SD	6	50	51	45	90.0
1-51	100 HALLWAY	AHU-2.03 DAMPER		35	5	37	105.7
1-52	100 HALLWAY	AHU-2.04 DAMPER		30	53	28	93.3
1-53	HALLWAY	SD	4	25	66	27	108.0
1-54	0009 FACILITIES	SD	6	50	70	48	96.0
1-55	0005 BUILDING STORAGE	SD	8	120	125	113	94.2
1-56	0008 MAINTENANCE	SD	6	50	25	51	102.0
1-57	0010 HOUSE KEEPING	SD	6	50	25	49	98.0
1-58	0017 LAUNDRY WASHERS	SD	6	50	34	46	92.0
1-59	0021 LAUNDRY DRYERS (HALL)	SD	6	50	55	48	96.0
1-60	0013 FIRE PUMP	SD	6	50	55	45	90.0
1-61	0012 MECH & PLUMBING	SD	6	30	36	27	90.0
1-62	0027 HALLWAY	SD	8	100	102	91	91.0
1-63	0002 EMPLOYEE LOUNGE	AHU-4.15 DAMPER		160	134	149	93.1
1-64	0007 RESIDENT STORAGE	SD	8	170	145	156	91.8
1-65	0001 TRAINING	SD	8	120	114	108	90.0
1-66	0016 KITCHEN STORAGE	SD	6	80	76	78	97.5
Total				6200	6504	5971	96.31%

**Diffuser Ret/Exh (GRD)**

**ERU-1/COMMON AREAS**

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
E1-1	3029 TOILET	ER	6	50	1.1	44	51	102.0
E1-2	3059 HALLWAY	ER	12X12	40	1.1	50	41	102.5
E1-3	3034 PC MEDS	ER	12X12	30	1.1	39	29	96.7
E1-4	3051 LAUNDRY	ER	12X12	35	1.1	31	36	102.9
E1-5	3046 M/E	ER	6	50	1.1	70	52	104.0
E1-6	LOUNGE	ER	12X12	120	1.1	102	111	92.5
E1-7	3036 TRASH/JAN	ER	12X12	50	1.1	52	45	90.0
E1-8	3043 STORAGE	ER	6	50	1.1	52	46	92.0
E1-9	3035 TOILER	ER	6	50	1.1	49	45	90.0
E1-10	3060 HALLWAY	ER	6	20	1.1	36	21	105.0
E1-11	3001A READING LOUNGE	ER	12X12	235	1.1	197	242	103.0
E1-12	3001A READING LOUNGE	ER	12X12	160	1.1	120	145	90.6
E1-13	2010 TOILET	ER	6	50	1.1	46	46	92.0
E1-14	2015 PC MEDS	ER	12X12	50	1.1	42	50	100.0
E1-15	2032 LAUNDRY	ER	12X12	35	1.1	20	38	108.6
E1-16	2027 M/E	ER	6	50	1.1	31	47	94.0
E1-17	2043 LOUNGE	ER	8X6	140	1.1	139	177	126.4
E1-18	2017 TRSH/JAN	ER	8X6	80	1.1	25	27	33.8
E1-19	2024 STORAGE	ER	6	50	1.1	25	24	48.0
E1-20	2016 TOILET	ER	6	50	1.1	0	27	54.0
E1-21	2040 HALLWAY	ER	6	20	1.1	22	20	100.0
E1-22	2001 MULTI PURPOSE	ER	12X18	0	1.1	0	0	-
E1-23	2005 PANTRY	ER	12X12	40	1.1	30	42	105.0
E1-24	226 MC DINING	ER	18X18	325	1.1	330	326	100.3
E1-25	226A TOILET	ER	6	50	1.1	60	50	100.0
E1-26	226 MC DINING	ER	14X8	450	1.1	495	451	100.2
E1-27	1014 PUB	ER	12X10	0	1.1	0	0	-

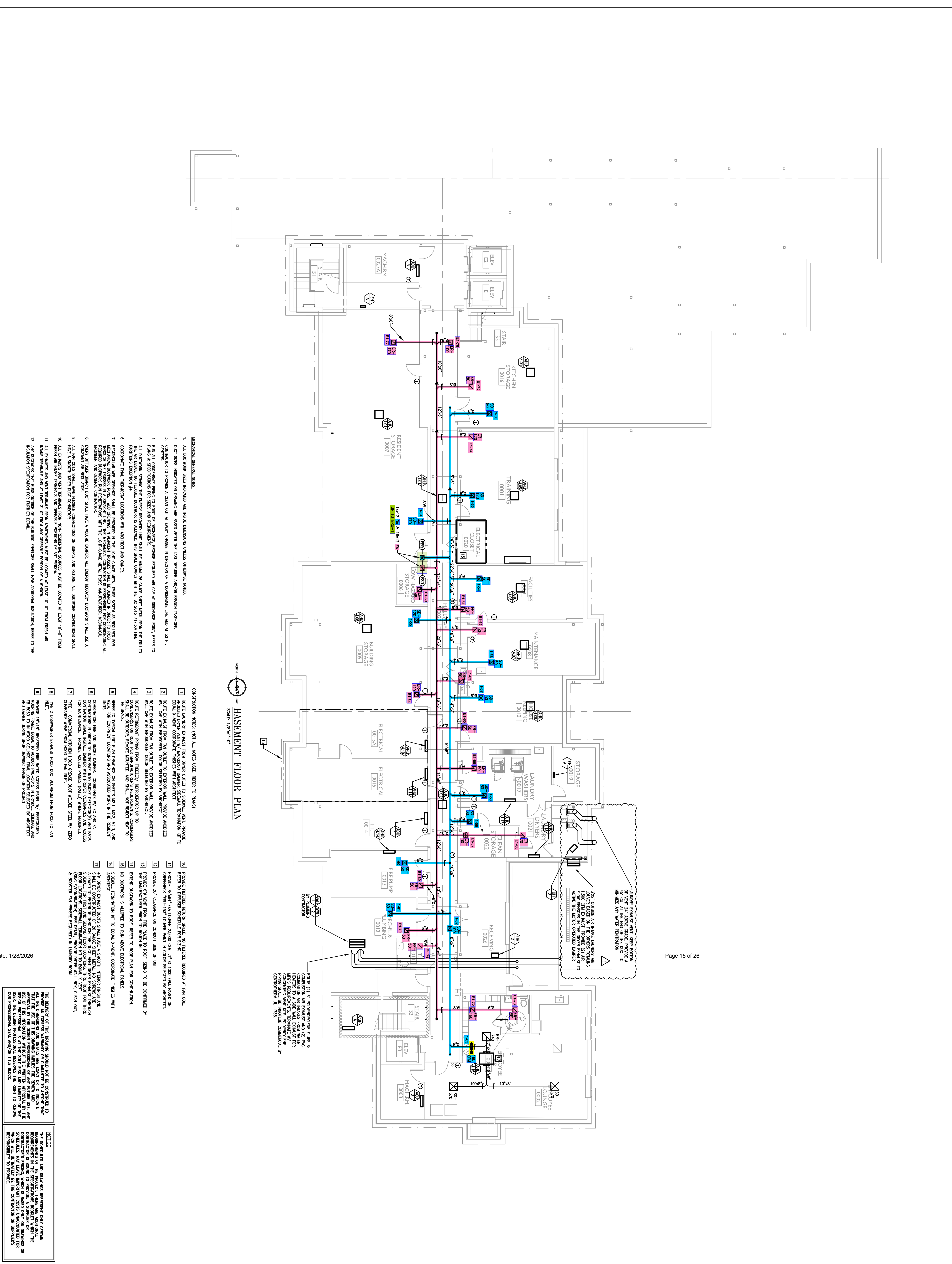
**ERU-1/COMMON AREAS**

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
E1-28	1045 DISCOVERY	ER	6	50	1.1	56	45	90.0
E1-29	100 HALLWAY	ER	10	0	1.1	0	0	-
E1-30	1044 MARKETING	ER	6	15	1.1	30	16	106.7
E1-31	1046 MARKETING	ER	6	20	1.1	29	22	110.0
E1-32	1047 OFFICE	ER	6	15	1.1	28	16	106.7
E1-33	1041 CONFERENCE	ER	6	65	1.1	103	66	101.5
E1-34	1048 HUMAN RESOURCES	ER	6	15	1.1	24	14	93.3
E1-35	1049 BUSINESS	ER	6	10	1.1	26	11	110.0
E1-36	1015 REHAB	ER	12X12	80	1.1	58	74	92.5
E1-37	1015B OFFICE	ER	1X12	20	1.1	20	18	90.0
E1-38	1015A TOILET	ER	12X12	50	1.1	68	48	96.0
E1-39	1016 BEAUTY/BARBER	ER	6	100	1.1	92	100	100.0
E1-40	1050 HALLWAY	ER	12X12	60	1.1	73	63	105.0
E1-41	1036	ER	6	15	1.1	15	16	106.7
E1-42	1037 TOILET	ER	6	50	1.1	54	52	104.0
E1-43	1038 EXECUTIVE DIRECTOR	ER	12X12	20	1.1	25	22	110.0
E1-44	1035 LAUNDRY	ER	12X12	35	1.1	48	33	94.3
E1-45	1017 PC MEDS	ER	12X12	30	1.1	60	28	93.3
E1-46	1025 LOUNGE	ER	8	60	1.1	92	54	90.0
E1-47	1018 TOILET	ER	12X12	50	1.1	43	48	96.0
E1-48	1019 TRASH/JAN	ER	8X6	50	1.1	47	51	102.0
E1-49	1013 TOILET	ER	12X12	50	1.1	42	51	102.0
E1-50	1012 TOILET	ER	12X12	50	1.1	39	46	92.0
E1-51	1011 PC PRIVATE DINING	ER	8	150	1.1	66	154	102.7
E1-52	1010 PC DINING	ER		0	1.1	0	0	-
E1-53	1006 OFFICE	ER	12X12	15	1.1	27	15	100.0
E1-54	128 MC DINING	ER	12X10	0	1.1	0	0	-
E1-55	130 TOILET	ER	6	50	1.1	55	50	100.0
E1-56	100 HALLWAY	ER	12X12	75	1.1	85	82	109.3
E1-57	1004 TOILET	ER	6	50	1.1	55	51	102.0
E1-58	100 HALLWAY	ER	8X6	65	1.1	74	68	104.6
E1-59	101 DISCOVERY	ER	6	50	1.1	113	50	100.0
E1-60	0006 LOW HAZARD STORAGE	ER	12X12	45	1.1	33	33	73.3
E1-61	0009 FACILITIES	ER	6	50	1.1	41	41	82.0
E1-62	0008 MAINTENANCE	ER	6	50	1.1	48	48	96.0
E1-63	0024 J.C.	ER	6	50	1.1	47	47	94.0
E1-64	0005 BUILDING STORAGE	ER	12X12	120	1.1	113	113	94.2
E1-65	0010 HOUSEKEEPING	ER	6	50	1.1	40	40	80.0
E1-66	0017 LAUNDRY WASHERS	ER	6	50	1.1	68	68	136.0
E1-67	0022 CLEAN STORAGE	ER	6	30	1.1	41	41	136.7
E1-68	0021 LAUNDRY DRYERS	ER	6	20	1.1	47	47	235.0
E1-69	0013 FIRE PUMP	ER	6	50	1.1	34	34	68.0
E1-70	0012 MECH & PLUMBING	ER	6	30	1.1	35	35	116.7
E1-71	0011 TOILET	ER	6	50	1.1	27	27	54.0
E1-72	0002 EMPLOYEE LOUNGE	ER	8	160	1.1	22	22	13.8
E1-73	0004 EMPLOYEE BATHROOM	ER	6	50	1.1	22	22	44.0

**ERU-1/COMMON AREAS**

<b>Asset</b>								
<b>Asset Name</b>	<b>Location</b>	<b>Type</b>	<b>Size</b>	<b>DESIGN CFM</b>	<b>AK</b>	<b>CFM(1)</b>	<b>FINAL CFM</b>	<b>% to design</b>
E1-74	0001 TRAINING	ER	8	120	1.1	86	86	71.7
E1-75	0016 KITCHEN STORAGE	ER	6	80	1.1	42	42	52.5
E1-76	0027 HALLWAY	ER	6	100	1.1	56	56	56.0
E1-77	0007 RESIDENT STORAGE	ER	8X6	50	1.1	63	63	126.0
Total				4800		4519	4418	92.04%

Completed By: Tyler Youells on 01/27/2026



- MECHANICAL GENERAL NOTES:**
1. ALL DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
  2. DUCT SIZES INDICATED ON DRAWING ARE BASED UPON THE LIST SYSTEM AND/OR BRANCH TAKE-OFF.
  3. CONTRACTOR TO PROVIDE A CLEAN OUT AT EVERY CHANGE IN DIRECTION OF A CONDUIT LINE AND AT 90 FT.
  4. SHALL ALL CONDENSATE PIPING TO POINT OF DISCHARGE, PROVIDE REQUIRED AIR GAP AT DISCHARGE POINT, REFER TO PLANS & SPECIFICATIONS FOR SIZES AND REQUIREMENTS.
  5. ALL DUCTWORK SERVING THE EXHAUST RECOVERY UNIT SHALL BE MINIMUM 26 GAUGE SHEET METAL FROM THE EXH. TO THE FRESH AIR COIL UNIT, PER THE FOLLOWING:
  6. CONDENSATE PANS, TRAPWAYS LOCATIONS WITH SLOPAGES AND DIMENSIONS.
  7. RECTANGULAR DUCTWORK SHALL BE PROVIDED IN THE LIGHT-GAUGE METAL TRUSS SYSTEM AS REQUIRED FOR THROUGH THE TRUSSES IN A STRAIGHT LINE. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS AND GENERAL CONTRACTOR.
  8. EXIST BRITISH BROWN DUCT SHALL HAVE A VOLUME DWAGER, ALL DUCTWORK RECOVERY DUCTWORK SHALL USE A CONSTANT AIR REGULATOR.
  9. ALL EXHAUST AND VENT TERMINALS FROM NON-RESIDENTIAL SOURCES MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS AND OPPOSITE SIDINGS OF AIR INTAKE.
  10. ALL EXHAUST AND VENT TERMINALS FROM NON-RESIDENTIAL SOURCES MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS FROM PARKING AREAS MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS.
  11. ALL EXHAUST AND VENT TERMINALS FROM PARKING AREAS MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS.
  12. ALL EXHAUST AND VENT TERMINALS FROM PARKING AREAS MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS.

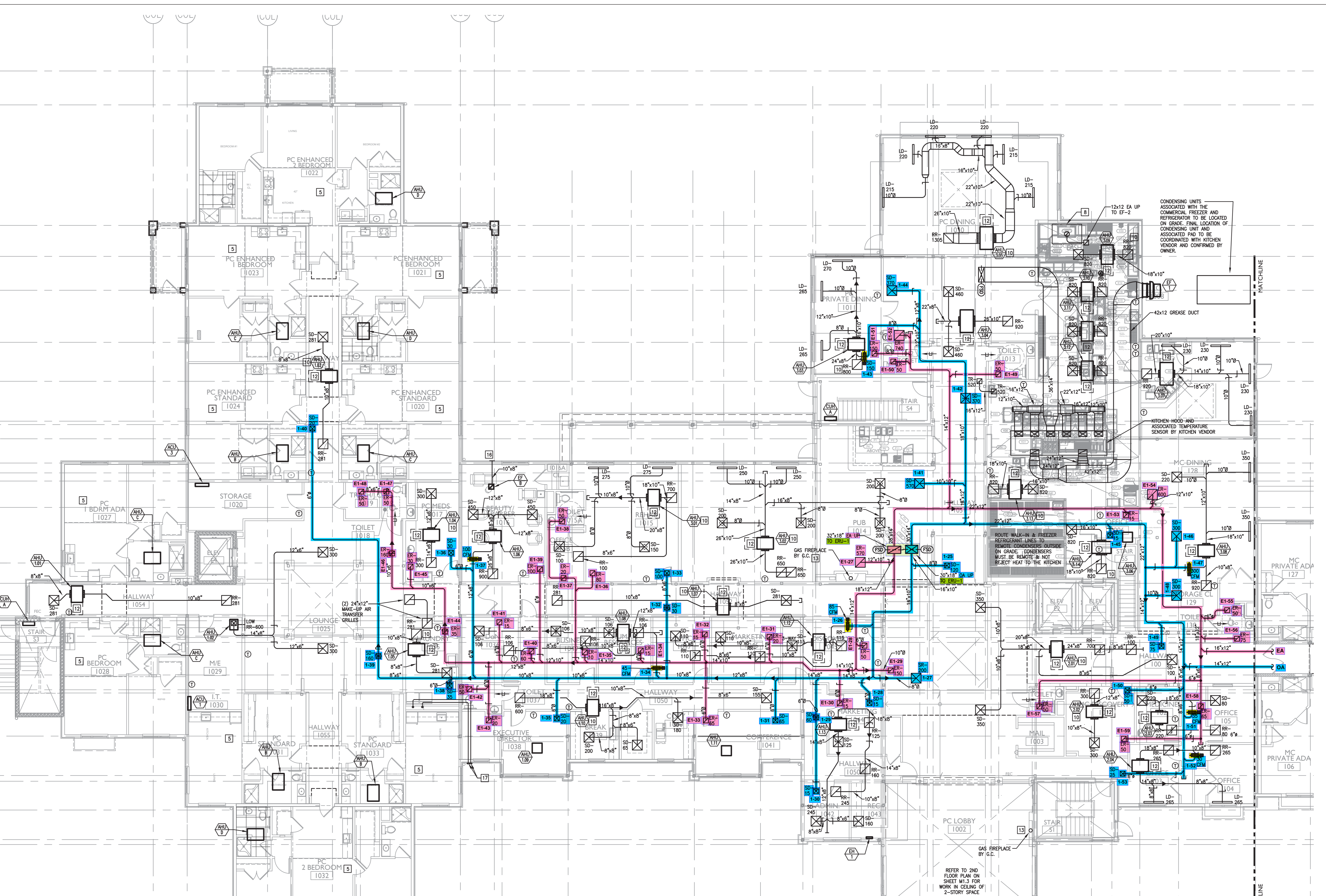
**BASEMENT FLOOR PLAN**  
SCALE: 1/8"=1'-0"

- CONSTRUCTION NOTES: (NOT ALL NOTES USED, REFER TO PLANS)**
1. ROUTE LAUNDRY EXHAUST FROM DRYER OUTLET TO SIGNAL VENT, PROVIDE ANODIZED ALUMINUM VENT W/ BUCKWHEAT DAMPER, SIGNAL TERMINATION KIT TO EQUAL X-VENT COMPONENT FINISHES WITH ARCHITECT.
  2. ROUTE EXHAUST FROM PAN OUTLET TO EXTERIOR WALL, PROVIDE ANODIZED ALUMINUM VENT W/ BUCKWHEAT DAMPER, SIGNAL TERMINATION KIT TO EQUAL X-VENT COMPONENT FINISHES WITH ARCHITECT.
  3. ROUTE EXHAUST FROM PAN OUTLET TO EXTERIOR WALL, PROVIDE ANODIZED ALUMINUM VENT W/ BUCKWHEAT DAMPER, SIGNAL TERMINATION KIT TO EQUAL X-VENT COMPONENT FINISHES WITH ARCHITECT.
  4. ROUTE EXHAUST FROM PAN OUTLET TO EXTERIOR WALL, PROVIDE ANODIZED ALUMINUM VENT W/ BUCKWHEAT DAMPER, SIGNAL TERMINATION KIT TO EQUAL X-VENT COMPONENT FINISHES WITH ARCHITECT.
  5. REFER TO TYPICAL UNIT PLAN DRAWINGS ON SHEETS M2.1, M2.2, M2.3, AND M2.4 FOR EXHAUST SYSTEMS AND ASSOCIATED WORK IN THE RESIDENT UNITS.
  6. COMBINATION FIRE AND SMOKE DAMPER, GOVERNOR W/ EC AND FA, REFER TO TYPICAL UNIT PLAN DRAWINGS ON SHEETS M2.1, M2.2, M2.3, AND M2.4 FOR EXHAUST SYSTEMS AND ASSOCIATED WORK IN THE RESIDENT UNITS.
  7. TYPE 1 COMPARTMENT VENTILATION FROM GARAGE DUCT WELDED STEEL W/ ZERO CLEARANCE WARP FROM HOOD TO PAN INLET.
  8. THE 2 DISMISHER EXHAUST HOOD DUCT ALUMINUM FROM HOOD TO PAN INLET.
  9. PROVIDE 18"x18" RECESSED FIRE RATED ACCESS PANEL W/ PERFORATED REINFORCED GLASS, 1/2" WOOD GRADING, FINAL LOCATION SELECTED BY ARCHITECT AND OWNER DURING SHOP DRAWING PHASE OF PROJECT.
  10. PROVIDE 18"x18" RECESSED FIRE RATED ACCESS PANEL W/ PERFORATED REINFORCED GLASS, 1/2" WOOD GRADING, FINAL LOCATION SELECTED BY ARCHITECT AND OWNER DURING SHOP DRAWING PHASE OF PROJECT.
  11. PROVIDE 25"x44" O.A. LOWER 21000 CFM, 1" @ 1000 FPM, BASED ON GREENWICH TSU-151\* LOWER PANEL IN COLOR SELECTED BY ARCHITECT.
  12. PROVIDE 25"x44" O.A. LOWER 21000 CFM, 1" @ 1000 FPM, BASED ON GREENWICH TSU-151\* LOWER PANEL IN COLOR SELECTED BY ARCHITECT.
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  20. PROVIDE 25"x44" O.A. LOWER 21000 CFM, 1" @ 1000 FPM, BASED ON GREENWICH TSU-151\* LOWER PANEL IN COLOR SELECTED BY ARCHITECT.

THE DESIGNER OF THIS DRAWING SHALL HAVE BEEN CONSULTED BY THE CONTRACTOR AT ALL STAGES OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT.

Date: 1/28/2026

	<p>Sheet Name: <b>BASEMENT FLOOR PLAN</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Progress Prints:</th> <th>Revisions:</th> </tr> </thead> <tbody> <tr> <td>05.06.2022 PERMIT/BID SET</td> <td style="text-align: center;">▲</td> </tr> <tr> <td>ADD.1 CONSTRUCTION SET-07.12.22</td> <td style="text-align: center;">▲</td> </tr> <tr> <td>VE ISSUE-10.5.22</td> <td style="text-align: center;">▲</td> </tr> </tbody> </table>	Progress Prints:	Revisions:	05.06.2022 PERMIT/BID SET	▲	ADD.1 CONSTRUCTION SET-07.12.22	▲	VE ISSUE-10.5.22	▲	<p>Construction Issue Date:</p> <p>Drawn By: ST/KG/KG</p> <p>Checked By: MW</p> <p>Scale: AS NOTED</p>	<p><b>FIELD STONE @ CHESTER SPRINGS</b> <b>ASSISTED LIVING FACILITY</b> 145 BYERS RD CHESTER SPRINGS, PA 19475</p>	<p>188 Poplar Street, Amherst, PA 15902 1950 Route 70, Suite 102, Cherry Hill, NJ 08003 www.mchugh.com 25244128</p>	<p><b>KIMMEL BOGRETTE</b> <b>Architecture + Site</b></p> <p>482 Norristown Road, Suite 200 Blue Bell, PA 19422</p> <p>Phone: 610.834.7805 Facsimile: 610.834.7815</p> <p>© COPYRIGHT 2018 KIMMEL BOGRETTE ARCHITECTURE + SITE, INC. ALL RIGHTS RESERVED</p>
Progress Prints:	Revisions:												
05.06.2022 PERMIT/BID SET	▲												
ADD.1 CONSTRUCTION SET-07.12.22	▲												
VE ISSUE-10.5.22	▲												



- CONSTRUCTION NOTES: (NOT ALL NOTES USED, REFER TO PLANS)
- ROUTE LAUNDRY EXHAUST FROM DRYER OUTLET TO SIDEWALL VENT. PROVIDE ANODIZED DRYER VENT W/ BACKDRAFT DAMPER. SIDEWALL TERMINATION KIT TO EQUAL X-VENT. COORDINATE FINISHES WITH ARCHITECT.
  - ROUTE EXHAUST FROM FAN OUTLET TO EXTERIOR WALL. PROVIDE ANODIZED WALL CAP WITH BIRDSCREEN. COLOR SELECTED BY ARCHITECT.
  - ROUTE EXHAUST FROM FAN OUTLET TO EXTERIOR WALL. PROVIDE ANODIZED WALL CAP WITH BIRDSCREEN. COLOR SELECTED BY ARCHITECT.
  - ROUTE RESTAURANT PIPING FROM FREEZER/ REFRIGERATOR UP TO CONDENSERS ON ROOF PER MANUFACTURER'S REQUIREMENTS. CONDENSERS SHALL BE OUTDOOR, REMOTE MOUNTED, AND SHALL NOT REJECT HEAT TO THE SPACE.
  - REFER TO TYPICAL UNIT PLAN DRAWINGS ON SHEETS M2.1, M2.2, M2.3, AND M2.4, FOR EQUIPMENT LOCATIONS AND ASSOCIATED WORK IN THE RESIDENT UNITS.
  - COMBINATION FIRE AND SMOKE DAMPER. COORDINATE W/ EC AND FA CONTRACTORS IN ORDER TO INTEGRATE INTO SMOKE DETECTOR(S) AND PACK. CONTRACTOR SHALL INSTALL DAMPER WITH PROPER CLEARANCES AND ACCESS FOR MAINTENANCE. PROVIDE ACCESS PANELS (RATED) WHERE REQUIRED.
  - TYPE 1 COMMERCIAL KITCHEN HOOD GREASE DUCT WELDED STEEL W/ ZERO CLEARANCE WRAP FROM HOOD TO FAN INLET.
  - TYPE 2 DISHWASHER EXHAUST HOOD DUCT ALUMINUM FROM HOOD TO FAN INLET.
  - PROVIDE 18"x18" RECESSED FIRE RATED ACCESS PANEL W/ PERFORATED MUDRING FRAME. EQUAL TO ACDOR FWC-5015 IN DRYWALL CEILINGS, AND F3-500-12 IN WOOD CEILINGS. FINAL LOCATION SELECTED BY ARCHITECT AND OWNER DURING SHOP DRAWING PHASE OF PROJECT.
  - PROVIDE FILTERED RETURN GRILLE. NO FILTERED REQUIRED AT FAN COIL.
  - PROVIDE 78"x64" O.A. LOUVER 23,000 CFM, 1" Ø 1000 FPM. BASED ON GREENHECK TSU-153" LOUVER PAINT IN COLOR SELECTED BY ARCHITECT.
  - PROVIDE 30" CLEARANCE ON CONDUIT SIDE OF UNIT
  - PROVIDE 6" VENT FROM FIRE PLACE TO ROOF. SIZING TO BE CONFIRMED BY THE MANUFACTURER PRIOR TO ROUGH IN.
  - EXTEND DUCTWORK TO ROOF. REFER TO ROOF PLAN FOR CONTINUATION.
  - NO DUCTWORK IS ALLOWED TO RUN ABOVE ELECTRICAL PANELS.
  - SIDEWALL TERMINATION KIT TO EQUAL X-VENT. COORDINATE FINISHES WITH ARCHITECT.
  - 4" DRYER EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND SHALL BE CONSTRUCTED OF 26 GAUGE SHEET METAL. NO SCREWS ARE ALLOWED TO PROTRUDE THROUGH THE DUCT. ROOF DRYER EXHAUST THROUGH SIDEWALL FOR FIRST AND SECOND FLOOR LOCATIONS, THRU ROOF FOR THIRD FLOOR LOCATIONS. SIDEWALL TERMINATION KIT TO EQUAL X-VENT (SINGLE/COMBINATION). PER DETAIL. PROVIDE DRYER WALL BOX, CLEAN OUT, & BOOSTER FAN WHERE REQUIRED IN LAUNDRY ROOM.

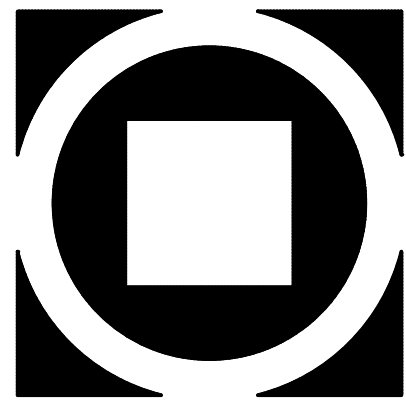
**PARTIAL FIRST FLOOR PLAN - MECHANICAL**  
 SCALE: 1/8"=1'-0"

- MECHANICAL GENERAL NOTES:
- ALL DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
  - DUCT SIZES INDICATED ON DRAWING ARE BASED AFTER THE LAST DIFFUSER AND/OR BRANCH TAKE-OFF.
  - CONTRACTOR TO PROVIDE A CLEAN OUT AT EVERY CHANGE IN DIRECTION OF A CONDENSATE LINE AND AT 50 FT. CENTERS.
  - RUN ALL CONDENSATE PIPING TO POINT OF DISCHARGE. PROVIDE REQUIRED AIR DAP AT DISCHARGE POINT. REFER TO PLANS & SPECIFICATIONS FOR SIZES AND REQUIREMENTS.
  - ALL DUCTWORK SERVING THE ENERGY RECOVERY UNIT SHALL BE MINIMAL 26 GAUGE SHEET METAL FROM THE ERU TO THE AIR DEVICE. NO FLEXIBLE DUCTWORK IS ALLOWED. THIS SHALL COMPLY WITH THE IBC 2015 717.5.4 FIRE PARTITIONS EXCEPTION #4.
  - COORDINATE FINAL THERMOSTAT LOCATIONS WITH ARCHITECT AND OWNER.
  - RECTANGULAR WEB OPENINGS SHALL BE PROVIDED IN THE LIGHT-GAUGE METAL TRUSS SYSTEM AS REQUIRED FOR MECHANICAL DUCTWORK RUNS. WEB OPENINGS IN ADJACENT TRUSSES SHALL BE ALIGNED IN ORDER TO PASS THROUGH THE TRUSSES IN A STRAIGHT LINE. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED DUCTWORK RUN PENETRATIONS WITH THE LIGHT-GAUGE METAL TRUSS MANUFACTURER, MECHANICAL ENGINEER, AND GENERAL CONTRACTOR.
  - EVERY DIFFUSER BRANCH DUCT SHALL HAVE A VOLUME DAMPER. ALL ENERGY RECOVERY DUCTWORK SHALL USE A CONSTANT AIR REGULATOR.
  - ALL FAN COILS SHALL HAVE FLEXIBLE CONNECTIONS ON SUPPLY AND RETURN. ALL DUCTWORK CONNECTIONS SHALL HAVE A SMOOTH TAPER DUCT CONNECTOR.
  - ALL EXHAUSTS AND VENT TERMINALS FROM NON-RESIDENTIAL SOURCES MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS AND OPERABLE PORTIONS OF ANY WINDOW.
  - ALL EXHAUSTS AND VENT TERMINALS FROM APARTMENTS MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS AND AT LEAST 3'-0" FROM ANY OPERABLE PORTION OF A WINDOW.
  - ANY DUCTWORK THAT RUNS OUTSIDE OF THE BUILDING ENVELOPE SHALL HAVE ADDITIONAL INSULATION. REFER TO THE INSULATION SPECIFICATION FOR FURTHER DETAIL.

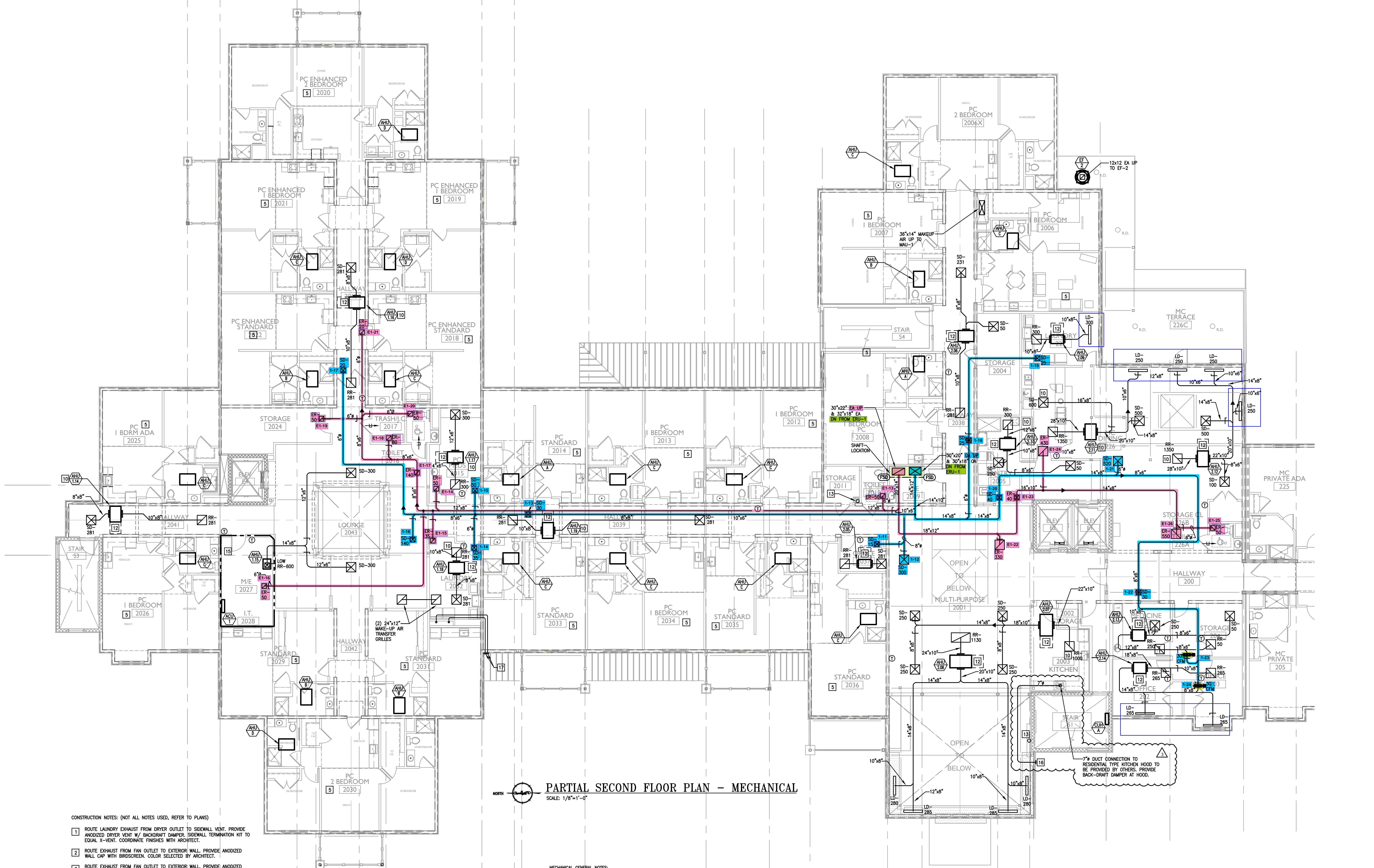
THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL BY THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

NOTICE: THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.





Sheet Name: SECOND FLOOR PLAN	Revisions:
Progress Prints:	▲
05.06.2022 PERMIT/BID SET	▲
05.06.2022 CONSTRUCTION SET 07.1.22	▲
REVISED 05.22	▲
05.22	▲
05.22	▲



**PARTIAL SECOND FLOOR PLAN - MECHANICAL**  
 SCALE: 1/8"=1'-0"

- CONSTRUCTION NOTES: (NOT ALL NOTES USED, REFER TO PLANS)
- ROUTE LAUNDRY EXHAUST FROM DRYER OUTLET TO SIDEWALL VENT. PROVIDE ANODIZED DRYER VENT W/ BACKDRIFT DAMPER, SIDEWALL TERMINATION KIT TO EQUAL X-VENT. COORDINATE FINISHES WITH ARCHITECT.
  - ROUTE EXHAUST FROM FAN OUTLET TO EXTERIOR WALL. PROVIDE ANODIZED WALL CAP WITH BIRDSCREEN. COLOR SELECTED BY ARCHITECT.
  - ROUTE EXHAUST FROM FAN OUTLET TO EXTERIOR WALL. PROVIDE ANODIZED WALL CAP WITH BIRDSCREEN. COLOR SELECTED BY ARCHITECT.
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  - REFER TO TYPICAL UNIT PLAN DRAWINGS ON SHEETS M2.1, M2.2, M2.3, AND M2.4 FOR EQUIPMENT LOCATIONS AND ASSOCIATED WORK IN THE RESIDENT UNITS.
  - COMBINATION FIRE AND SMOKE DAMPER. COORDINATE W/ EC AND FA CONTRACTORS IN ORDER TO INTEGRATE INTO SMOKE DETECTOR(S) AND FACP. CONTRACTOR SHALL INSTALL DAMPER WITH PROPER CLEARANCES AND ACCESS FOR MAINTENANCE. PROVIDE ACCESS PANELS (RATED) WHERE REQUIRED.
  - TYPE 1 COMMERCIAL KITCHEN HOOD GREASE DUCT WELDED STEEL W/ ZERO CLEARANCE WRAP FROM HOOD TO FAN INLET.
  - TYPE 2 DISHWASHER EXHAUST HOOD DUCT ALUMINUM FROM HOOD TO FAN INLET.
  - PROVIDE 18"x18" RECESSED FIRE RATED ACCESS PANEL W/ PERFORATED MIDDING FRAME. EQUAL TO ACUDOR FWC-5015 IN DRYWALL CEILING, AND FB-5066-10 IN WOOD CEILING. FINAL LOCATION SELECTED BY ARCHITECT AND OWNER DURING SHOP DRAWING PHASE OF PROJECT.

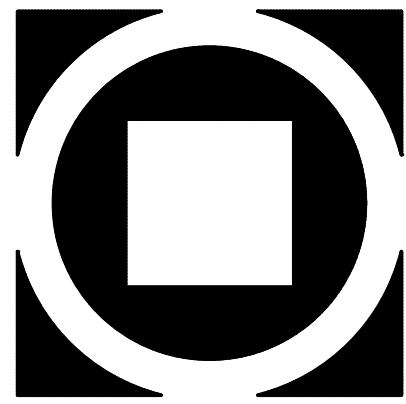
- PROVIDE FILTERED RETURN GRILLE, NO FILTERED REQUIRED AT FAN COIL. REFER TO DIFFUSER SCHEDULE FOR SIZING.
- PROVIDE 78"x64" O.A. LOUVER 23,000 CFM, 1" @ 1000 FPM BASED ON GREENHECK "ESU-153" LOUVER PAINT IN COLOR SELECTED BY ARCHITECT.
- PROVIDE 30" CLEARANCE ON CONDUIT SIDE OF UNIT
- PROVIDE 6" VENT FROM FIRE PLACE TO ROOF. SIZING TO BE CONFIRMED BY THE MANUFACTURER PRIOR TO ROUGH IN.
- EXTEND DUCTWORK TO ROOF. REFER TO ROOF PLAN FOR CONTINUATION.
- NO DUCTWORK IS ALLOWED TO RUN ABOVE ELECTRICAL PANELS.
- SIDEWALL TERMINATION KIT TO EQUAL X-VENT. COORDINATE FINISHES WITH ARCHITECT.
- 4" DRYER EXHAUST DUCTS SHALL HAVE A SMOOTH INTERIOR FINISH AND SHALL BE CONSTRUCTED OF 26 GAUGE SHEET METAL. NO SCREWS ARE ALLOWED TO PROTRUDE THROUGH THE DUCT. VENT DRYER EXHAUST THROUGH SIDEWALL FOR FIRST AND SECOND FLOOR LOCATIONS, THRU ROOF FOR THIRD FLOOR LOCATIONS. SIDEWALL TERMINATION KIT TO EQUAL X-VENT (SINGLE/COMBINATION). PER DETAIL, PROVIDE DRYER WALL BOX, CLEAN OUT, & BOOSTER FAN WHERE REQUIRED) IN LAUNDRY ROOM.

- MECHANICAL GENERAL NOTES:
- ALL DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
  - DUCT SIZES INDICATED ON DRAWING ARE BASED AFTER THE LAST DIFFUSER AND/OR BRANCH TAKE-OFF.
  - CONTRACTOR TO PROVIDE A CLEAN OUT AT EVERY CHANGE IN DIRECTION OF A CONDENSATE LINE AND AT 50 FT. CENTERS.
  - RUN ALL CONDENSATE PIPING TO POINT OF DISCHARGE, PROVIDE REQUIRED AIR GAP AT DISCHARGE POINT, REFER TO PLANS & SPECIFICATIONS FOR SIZES AND REQUIREMENTS.
  - ALL DUCTWORK SERVING THE ENERGY RECOVERY UNIT SHALL BE MINIMAL 26 GAUGE SHEET METAL FROM THE ERU TO THE AIR DEVICE. NO FLEXIBLE DUCTWORK IS ALLOWED. THIS SHALL COMPLY WITH THE IBC 2015 717.5.4 FIRE PARTITIONS EXCEPTION #4.
  - COORDINATE FINAL THERMOSTAT LOCATIONS WITH ARCHITECT AND OWNER.
  - RECTANGULAR WEB OPENINGS SHALL BE PROVIDED IN THE LIGHT-GAUGE METAL TRUSS SYSTEM AS REQUIRED FOR MECHANICAL DUCTWORK RUNS. WEB OPENINGS IN ADJACENT TRUSSES SHALL BE ALIGNED IN ORDER TO PASS THROUGH THE TRUSSES IN A STRAIGHT LINE. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED DUCTWORK RUN PENETRATIONS WITH THE LIGHT-GAUGE METAL TRUSS MANUFACTURER, MECHANICAL ENGINEER, AND GENERAL CONTRACTOR.
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  - ALL FAN COLS SHALL HAVE FLEXIBLE CONNECTIONS ON SUPPLY AND RETURN. ALL DUCTWORK CONNECTIONS SHALL HAVE A SMOOTH TAPER DUCT CONNECTOR.
  - ALL EXHAUSTS AND VENT TERMINALS FROM NON-RESIDENTIAL SOURCES MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS AND OPERABLE PORTIONS OF ANY WINDOW.
  - ALL EXHAUSTS AND VENT TERMINALS FROM APARTMENTS MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS AND AT LEAST 3'-0" FROM ANY OPERABLE PORTION OF A WINDOW.
  - ANY DUCTWORK THAT RUNS OUTSIDE OF THE BUILDING ENVELOPE SHALL HAVE ADDITIONAL INSULATION, REFER TO THE INSULATION SPECIFICATION FOR FURTHER DETAIL.

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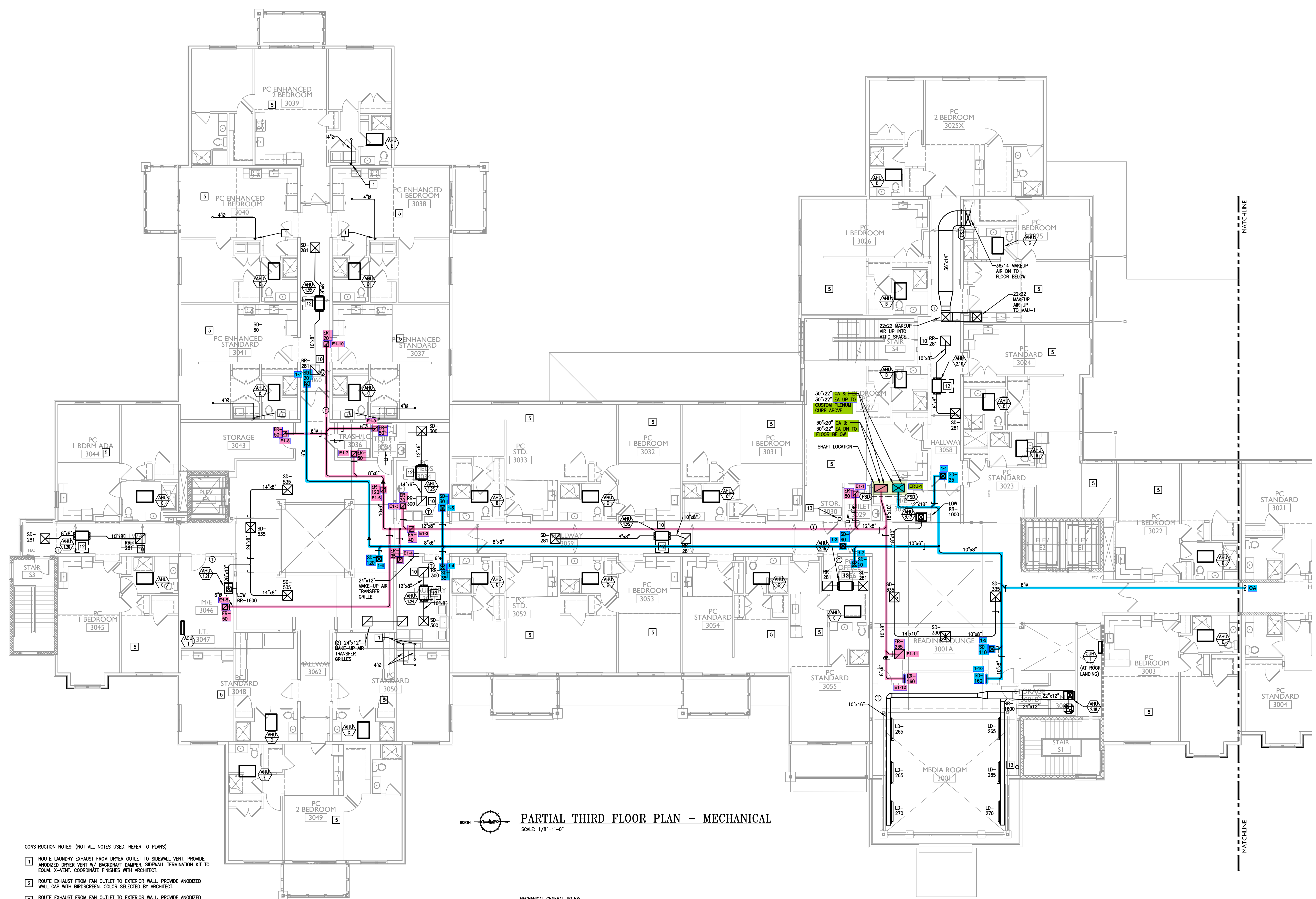
**McHUGH**  
 ENGINEERING ASSOCIATES INC.  
 1500 Peachtree Street, Suite 400  
 Atlanta, Georgia 30309  
 Phone: 404.525.8800  
 Fax: 404.525.8801  
 www.mchugh.com

**FIELD STONE @ CHESTER SPRINGS**  
 ASSISTED LIVING FACILITY  
 145 BYERS RD  
 CHESTER SPRINGS, PA 19475

Construction Issue Date:  
 Drawn By: STK/GKG  
 Checked By: MW  
 Scale: AS NOTED

Sheet Name: THIRD FLOOR PLAN	Revisions:
Progress Prints: 05.06.2022 PERMIT/BID SET	▲
	▲
	▲
	▲

**MI.5**



- CONSTRUCTION NOTES: (NOT ALL NOTES USED, REFER TO PLANS)
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  - REFER TO TYPICAL UNIT PLAN DRAWINGS ON SHEETS M2.1, M2.2, M2.3, AND M2.4 FOR EQUIPMENT LOCATIONS AND ASSOCIATED WORK IN THE RESIDENT UNITS.
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  - TYPE 1 COMMERCIAL KITCHEN HOOD GREASE DUCT WELDED STEEL W/ ZERO CLEARANCE WRAP FROM HOOD TO FAN INLET.
  - TYPE 2 DISHWASHER EXHAUST HOOD DUCT ALUMINUM FROM HOOD TO FAN INLET.
  - PROVIDE 18"x18" RECESSED FIRE RATED ACCESS PANEL W/ PERFORATED MOUNDING FRAME. EQUAL TO ACUDOR FWC-5015 IN DRYWALL CEILINGS, AND FB-5066-10 IN WOOD CEILINGS. FINAL LOCATION SELECTED BY ARCHITECT AND OWNER DURING SHOP DRAWING PHASE OF PROJECT.

- PROVIDE FILTERED RETURN GRILLE, NO FILTERED REQUIRED AT FAN COIL. REFER TO DIFFUSER SCHEDULE FOR SIZING.
- PROVIDE 78"x64" O.A. LOUVER 23,000 CFM, 1" @ 1000 FPM BASED ON GREENHECK "ESU-153" LOUVER PAINT IN COLOR SELECTED BY ARCHITECT.
- PROVIDE 30" CLEARANCE ON CONDUIT SIDE OF UNIT
- PROVIDE 6" VENT FROM FIRE PLACE TO ROOF. SIZING TO BE CONFIRMED BY THE MANUFACTURER PRIOR TO ROUGH IN.
- EXTEND DUCTWORK TO ROOF. REFER TO ROOF PLAN FOR CONTINUATION.
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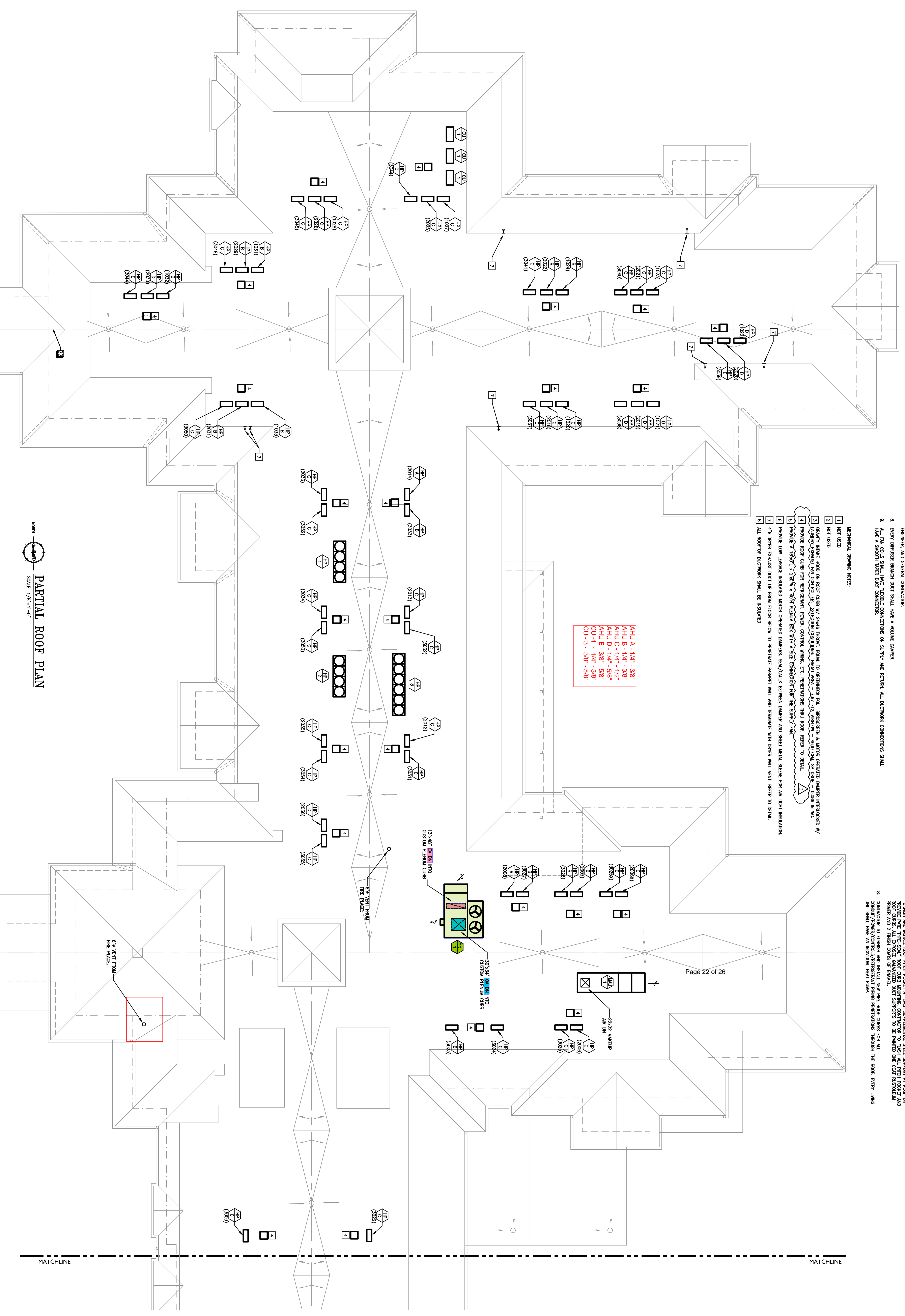
**PARTIAL THIRD FLOOR PLAN - MECHANICAL**  
 SCALE: 1/8"=1'-0"

- MECHANICAL GENERAL NOTES:
- ALL DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
  - DUCT SIZES INDICATED ON DRAWING ARE BASED AFTER THE LAST DIFFUSER AND/OR BRANCH TAKE-OFF.
  - CONTRACTOR TO PROVIDE A CLEAN OUT AT EVERY CHANGE IN DIRECTION OF A CONDENSATE LINE AND AT 50 FT. CENTERS.
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  - ALL EXHAUSTS AND VENT TERMINALS FROM APARTMENTS MUST BE LOCATED AT LEAST 10'-0" FROM FRESH AIR INTAKE TERMINALS AND AT LEAST 3'-0" FROM ANY OPERABLE PORTION OF A WINDOW.
  - ANY DUCTWORK THAT RUNS OUTSIDE OF THE BUILDING ENVELOPE SHALL HAVE ADDITIONAL INSULATION, REFER TO THE INSULATION SPECIFICATION FOR FURTHER DETAIL.

THE DELIVERY OF THIS DRAWING SHOULD NOT BE CONSTRUED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ANYONE THAT THE USE OF THIS DRAWING IMPLIES THE REVIEW AND APPROVAL BY THE DESIGN PROFESSIONAL OF ANY FUTURE USE. ANY USE OF THIS INFORMATION WITHOUT THE WRITTEN APPROVAL OF THE DESIGN PROFESSIONAL IS AT THE SOLE RISK AND LIABILITY OF THE USER. THE DESIGN PROFESSIONAL RESERVES THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

NOTICE  
 THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL REQUIREMENTS IN THE SPECIFICATIONS BOOKLET WHICH THE CONTRACTOR IS BOUND TO PROVIDE. A SUPPLIER OR CONTRACTOR'S PRICING, WHICH IS BASED ONLY ON DRAWINGS OR SCHEDULES, MAY LEAVE IMPORTANT COSTS UNACCOUNTED FOR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.





- MECHANICAL GENERAL NOTES:**
1. ALL DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
  2. DUCT SIZES INDICATED ON DRAWING ARE BASED AFTER THE LAST DUCTIFIER AND/OR BRANCH TAKE-OFF.
  3. CONTRACTOR TO PROVIDE A CLEAN OUT AT EVERY CHANGE IN DIRECTION OF A CONDENSATE LINE AND AT 50 FT. CENTERS.
  4. RAIN ALL CONDENSATE PIPING TO POINT OF DISCHARGE, PROVIDE REQUIRED AIR GAP AT DISCHARGE POINT. REFER TO PLANS & SPECIFICATIONS FOR SIZES AND REQUIREMENTS.
  5. ALL ENERGY RECOVERY DUCTWORK SHALL BE METAL FROM FAN TO AIR DEVICES.
  6. CONDENSATE TRAP, THERMOSTAT LOCATIONS WITH ARCHITECT AND OWNER.
  7. RECYCULATE WASH ORGANISMS SHALL BE PROVIDED IN THE LIGHT-GAUGE METAL TRUSS SYSTEM AS REQUIRED FOR MECHANICAL DUCTWORK RAIN. WASH ORGANISMS IN WASH TRUSS SHALL BE ALIGNED IN ORDER TO DRAIN TO EXISTING RECYCLED DUCTWORK RAIN PERMITTING WITH THE LIGHT-GAUGE METAL TRUSS WASH ORGANISMS. MECHANICAL DUCTWORK, AND GENERAL CONTRACTOR.
  8. EVERY DUCTIFIER BRANCH DUCT SHALL HAVE A VOLUME DAMPER.
  9. ALL FAN COILS SHALL HAVE FLEXIBLE CONNECTIONS ON SUPPLY AND RETURN. ALL DUCTWORK CONNECTIONS SHALL HAVE A SMOOTH BEND CONNECTION.

- ROOF DUCT WORK NOTES:**
1. ALL DUCTWORK SIZES ARE INSIDE DIMENSIONS UNLESS NOTED OTHERWISE.
  2. ALL EXTERIOR DUCTWORK TO BE 4" WAPERSHAPE DUCT CONSTRUCTION WITH 2" ROOF INSULATION AND EXTERIORPOOF COVERING IN ADDITION TO 1" LINING. SEE SPEC.
  3. ALL BOTTOM OF DUCTWORK TO BE MINIMUM 2'-0" ABOVE FINISHED ROOF.
  4. ALL TOPS OF EXTERIOR DUCTWORK TO SLOPE SO NOT TO ALLOW WATER ACCUMULATION.
  5. CONTRACTOR TO PROVIDE 1/2" WAPERSHAPE DUCTWORK TO BE 8'-0" O.C. FROM EXTERIOR DUCTWORK AT ALL CHANGES OF DIRECTION AND AT ALL MINIMUM OF 8'-0" O.C. FROM EXTERIOR DUCTWORK.
  6. FINISH COATS OF TRAVEL.
  7. CONTRACTOR IS TO FURNISH AND INSTALL SUPPLEMENTAL GALVANIZED STEEL ANGLED DUCT SUPPORTS TO SUPPORT FROM DUCTWORK. CONTRACTOR TO SECURE DUCTWORK TO SUPPORTS. CONTRACTOR TO PROVIDE RAIN-TYPE-SEAL ROOF CURB MOUNTING. CONTRACTOR TO FURNISH ALL PITCH POCKET AND FINISH COATS OF TRAVEL. FINISH COATS OF TRAVEL DUCT SUPPORTS TO BE FINISHED ONE COAT INSULATION.
  8. CONTRACTOR TO FURNISH AND INSTALL NEW PER CURB FOR ALL CONDUIT/PWY/CONTROLS/REFERENCE PIPING PERMITTINGS THROUGH THE ROOF. DEPT. LIVING UNIT SHALL HAVE AN INDOOR HEAD PLAN.

AHU A - 174" x 38"  
 AHU B - 114" x 38"  
 AHU C - 114" x 12"  
 AHU D - 114" x 58"  
 AHU E - 38" x 58"  
 CU - 1 - 114" x 38"  
 CU - 3 - 38" x 58"

PARTIAL ROOF PLAN  
 SCALE: 1/8" = 1'-0"  
 MCHUGH

Date: 1/28/2026

THE DESIGNER OF THIS DRAWING SHALL HAVE BE CONSIDERED TO PROVIDE AN EXPRESS WARRANTY OR GUARANTEE TO ARCHITECT THAT ALL THE DIMENSIONS AND DETAILS ARE EXACT OR TO INDICATE APPROVAL OF THE DESIGN PROFESSIONAL OF ANY OTHER USE. ANY USE OF THIS DRAWING WITHOUT THE WRITTEN APPROVAL OF THE DESIGNER OR ARCHITECT IS PROHIBITED. THE DESIGNER AND ARCHITECT RESERVE THE RIGHT TO REMOVE OUR PROFESSIONAL SEAL AND/OR TITLE BLOCK.

NOTICE  
 THE SCHEDULES AND DRAWINGS REPRESENT ONLY CERTAIN REQUIREMENTS OF THE PROJECT. THERE ARE ADDITIONAL CONTRACTOR'S OBLIGATIONS TO PROVIDE SCHEDULES OR WHICH IS BASED ONLY ON DRAWINGS OR WHICH WILL ULTIMATELY BE THE CONTRACTOR OR SUPPLIER'S RESPONSIBILITY TO PROVIDE.

	<b>Sheet Name: ROOF PLAN</b> Progress Prints: 05.06.2022 PERMIT/BID SET ADD.1 CONSTRUCTION SET-07.1.22 VE ISSUE-10.5.22	Construction Issue Date: Drawn By: ST/KG/KG Checked By: MW Scale: AS NOTED	<b>FIELD STONE @ CHESTER SPRINGS ASSISTED LIVING FACILITY</b> 145 BYERS RD CHESTER SPRINGS, PA 19475	 188 Poplar Street, Amble, PA 19003 1950 Route 70, Suite 102, Cherry Hill, NJ 08003 www.mchugheng.com 26541128	 482 Norristown Road, Suite 200 Blue Bell, PA 19012 Phone: 610.834.7805 Facsimile: 610.834.7815 © COPYRIGHT 2018 KIMMEL BOGRETTE ARCHITECTURE + SITE, INC. ALL RIGHTS RESERVED
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## SQUARE DUCT TRAVERSE FORM

PROJECT	Fieldstone ALF	SYSTEM	ERU-1
LOCATION	3rd floor mech	SERVICE	3RD Floor fresh air
ALTITUDE	-	DENSITY	-
		FACTOR	-

DUCT			REQUIRED			ACTUAL
S.P.	0.26	TEMP	-	SCFM	-	SCFM
SIZE	10x12			FPM		FPM 974
AREA	0.83SQFT			CFM		CFM 811

DISTANCE FROM BOTTOM	POSITION	1	2	3	4	5	6	7	8	9	10	11	12
2	1	1587	1353	1280									
6	2	1159	989	809									
10	3	715	380	497									
<b>DISTANCE FROM DUCT EDGE</b>		1.67	5	8.33									
<b>VELOCITY SUB - TOTALS</b>													

**REMARKS:**

Traverse is right after the damper and readings are turbulent

TEST DATE:

READINGS BY:

PAGE:

## SQUARE DUCT TRAVERSE FORM

PROJECT	Fieldstone ALF	SYSTEM	ERU-1
LOCATION	3rd floor mech	SERVICE	basement-2nd floor oa
ALTITUDE	-	DENSITY	-
		FACTOR	-

DUCT	REQUIRED	ACTUAL
S.P.	1.32"      TEMP -	SCFM -
SIZE	30x22	FPM 1228
AREA	4.58	CFM 5630

DISTANCE FROM BOTTOM	POSITION	1	2	3	4	5	6	7	8	9	10	11	12
3	1	1279	1279	1236	1208								
9	2	1079	1304	1200	1179								
15	3	1187	1205	1238	1303								
21	4	1191	1249	1345	1331								
27	5	1213	1094	1170	1280								
<b>DISTANCE FROM DUCT EDGE</b>		2.75	8.25	13.5	18.75								
<b>VELOCITY SUB - TOTALS</b>													

**REMARKS:**

TEST DATE:

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## SQUARE DUCT TRAVERSE FORM

PROJECT	Fieldstone ALF	SYSTEM	ERU-1
LOCATION	Chester PA	SERVICE	Floors basement-2nd
ALTITUDE	-	DENSITY	-
		FACTOR	-

DUCT			REQUIRED			ACTUAL
S.P.	-0.92	TEMP	-	SCFM	-	SCFM
SIZE	32"X22"		FPM		FPM	894
AREA	4.89SQFT		CFM		CFM	4368

DISTANCE FROM BOTTOM	POSITION	1	2	3	4	5	6	7	8	9	10	11	12
2.67"	1	832	680	790	1203								
5.33"	2	689	610	1018	1273								
10.6"	3	663	552	988	1113								
16"	4	524	1052	867	1098								
21.3"	5	717	877	852	1062								
26.6"	6	843	856	1216	1104								
<b>DISTANCE FROM DUCT EDGE</b>		2.25"	5.5"	11"	16.5"								
<b>VELOCITY SUB - TOTALS</b>													

**REMARKS:**

TEST DATE:

READINGS BY:

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## SQUARE DUCT TRAVERSE FORM

PROJECT	Fieldstone ALF	SYSTEM	ERU-1
LOCATION	3rd floor mech	SERVICE	3rd floor exhaust
ALTITUDE	-	DENSITY	-
		FACTOR	-

DUCT			REQUIRED			ACTUAL
S.P.	-0.36	TEMP	-	SCFM	-	SCFM
SIZE	16x10			FPM		772
AREA	1.11SQFT			SCFM		858

DISTANCE FROM BOTTOM	POSITION	1	2	3	4	5	6	7	8	9	10	11	12
1.6	1	669	737	717									
4.8	2	704	654	728									
8	3	732	561	596									
11.2	4	923	800	726									
14.4	5	998	1058	986									
	6												
	13												
<b>DISTANCE FROM DUCT EDGE</b>		1.67	5	8.33									
<b>VELOCITY SUB - TOTALS</b>													

**REMARKS:**

TEST DATE:

READINGS BY:

PAGE: