



ESA Energy Systems Associates, Inc.
806 W Main Box 39
Atlanta, Texas 75551

Consulting Engineers

PISD 2023 HVAC and Control System Renovations Post-Installation Addendum October 29, 2024

ITEM #1: Question received from Contractor:

Can this work be performed at any time or is it just to be performed on holidays and summer break?

Answer: Holidays and summer break only, please.

ITEM #2: Question received from Contractor:

Who is the fire alarm contractor for these campuses?

Answer: Capitol Sprinkler and Fire Systems. 512-960-2628.

ITEM #3: Question received from Contractor:

What percentage bid bond will we need to submit?

Answer: Five percent (5%).

ITEM #4: Question received from Contractor:

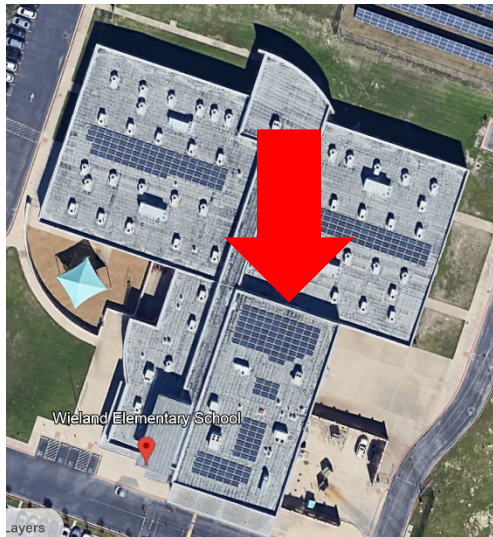
Do we have to paint all of the gas piping at the schools?

Answer: No – only paint the sections that are replaced in the project from the unit back to the first gas stop.

ITEM #5: Question received from Contractor:

Where is the solar panel interface?

Answer: On wall at roof level, per picture.



ITEM #6: Question received from Contractor:

What is the condensate drain pipe insulation requirement?

Answer: The Contractor should insulate the condensate drain pipe connection at each new RTU to a point six feet from the new unit.



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ITEM #7: Request received from Contractor:

Please provide the prevailing wages required by PfISD.

Answer: The applicable prevailing wage rates will be posted by PfISD on the RFP website.

ITEM #8: Request received from Contractor:

Please confirm Texas Roofing is the warranty holding roofing Contractor for KLMS and WES.

Answer: Texas Roofing is the warranty holding roofing Contractor for WES and KLMS.

ITEM #9: Request received from Contractor:

Please confirm Capitol Sprinkler and Fire Systems is the warranty holding FAC for KLMS and WES.

Answer: Yes, see Item #2.

ITEM #10: Request received from Contractor:

Please confirm the existing RTU electrical disconnects are to be demolished and will be replaced by an "internal disconnecting means" within the new RTUs.?

Answer: Yes, the new units will have internal disconnects. No external disconnects will be required.

ITEM #11: Request received from Contractor:

Please confirm no cleaning of existing ductwork is required.

Answer: No cleaning of existing ductwork is required.

ITEM #12: Request received from Contractor:

Please Confirm no structural work is required for locations where curb adapters are to be installed for new RTU's for units that weigh more than existing RTU's.

Answer: No structural work is anticipated to be required where existing RTUs are installed with adapter curbs.

ITEM #13: Request received from Contractor:

MEP 0.0.2 Project Details, Detail #4 – Kelly Lane ES: States "Install Reinforcing angle between bar joist where required to support the curb perimeter." Please confirm this is required for all new RTU curbs only and not for RTU curb adapters. Please provide details and specifications of reinforcing angle to be installed between bar joist.

Answer: Per Item #12, no structural work is anticipated to be required for adapter curb units. New curb units may require additional structural support; MEP Engineer will consult with a Structural Engineer for assistance with these details. They are not available at this time. For the purposes of submitting a proposal for WES, include an allowance of \$10,000 for the possible structural work.



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ITEM #14: Request received from Contractor:

MEP 0.4.1 Detail Drawings, Detail A – Wieland ES: States “Install Reinforcing angle between bar joist where required to support the curb perimeter.” Please confirm this is required for all new RTU curb’s only and not for RTU curb adapters. Please provide details and specifications of reinforcing angle to be installed between bar joist.

Answer: Per Item #12, no structural work is anticipated to be required for adapter curb units. New curb units may require additional structural support; MEP Engineer will consult with a Structural Engineer for assistance with these details. They are not available at this time. For the purposes of submitting a proposal for KLMS, include an allowance of \$10,000 for the possible structural work.

ITEM #15: Request received from Contractor:

MEP 0.1.3 Project Schedules, Kelly Lane MS: MAU Schedule does not show existing MAU weights, Please confirm no structural work will be required for new MAU’s.

Answer: No structural work is anticipated to be required for the MAUs.

ITEM #16: Request received from Contractor:

MEP 0.1.3 Project Schedules, Kelly Lane MS: MAU Schedule does not show curb adapters for new MAU’s. Please confirm if curb adapters will be required for new MAU’s.

Answer: Curb adapters will be required for the new MAUs to be installed on the existing Engineered Air curbs.

ITEM #17: Statement received from Contractor:

MEP 1.2.0 Roof Plan Area B, Kelly Lane MS: Exhaust fan shown for demo next to MAU-2B is not labeled.

Answer: The unlabeled fan is EF-4B.

ITEM #18: Request for approved equal status:

Daikin is an approved equal manufacturer for the light commercial and DOAS RTUs.

JCI is an approved equal manufacturer for the light commercial RTUs.

ITEM #19: KLMS Truncated schedule on Drawing MEP 0.1.2 corrected.

The data in the middle sections of the KLMS Lab and Art Classroom Replacement Rooftop unit Schedule was hidden. Please see the attached replacement drawing for the missing make, model, system, and cooling data. These units have been amended to add an energy recovery section to the units. They are therefore longer and will require new manufacturer roof curbs which may also require structural engineering review. Refer to Items 13 and 14. The longer units have additional implications:



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1. There are two (2) new drawings showing the footprint of the new RTU over the footprint of the old. On drawings MEP 1.9.0, 1.10.0, and 1.11.0:
 - a. the dashed red lines are the existing unit footprint.
 - b. The green dashed lines are the service clearance requirements of the new RTUs.
 - c. The white lines are the footprint of the new RTU.
2. Exhaust Fan 13G will no longer require relocation away from new RTU-13G; the additional length of the unit has moved the OA intake farther than 10' from the RTU.
3. Exhaust Fan 10F will no longer require relocation away from new RTU-10F; the additional length of the unit has moved the OA intake farther than 10' from the RTU.

Add #1 revised schedule provided on updated Drawing MEP 0.1.2.

ITEM #20: KLMS HVAC Schule Lennox model number change.

The 2-ton Lennox LRP units shown on the schedule are to be replaced with the following model numbers, per the attached :

- The twenty-three (23) LRP16HP24 that was scheduled to replace the existing Lennox CHA16-024-1P units will now be scheduled as Lennox LHX024S5D-P-2T-HP.
- The six (6) LRP16HP24 that was scheduled to replace the existing Lennox CHA16-024-1P units with electrical convenience outlets will now be scheduled as Lennox LHX024S5D-P-2T-HP.
- The one (1) LRP16GE24-072 that was scheduled to replace a GCS16-024-50-5P unit will now be scheduled as Lennox LGX024S5E-P-2T-GE.
- The one (1) LRP16GE24-072 that was scheduled to replace a GCS16-024-50-5P with electrical convenience outlet unit will now be scheduled as Lennox LGX024S5E-P-2T-GE.

NOTE: These units are approximately 24" longer than the existing units. This is too much of an increase to utilize an adapter curb. The Contractor is to provide a new manufacturer curb for these 31 units. The Engineer has reviewed the site conditions and there are no known obstructions that limit the increased length of these units in their assigned location. The supply and return duct connections are similar in size and location to the existing units and no increase in the penetration is anticipated to be required. The longer manufacturer roof curb will be mopped into the roof over the existing roof surface without requiring additional roof modifications.

ITEM #21: Question from Manufacturer:

Schedule for RTU-10G has a 4-ton model number, but the data is for a 3-ton. Which is correct?

The 3-ton data is correct. Please provide a 3-ton unit for the replacement RTU-10G. Model # changed within the addendum schedule.



End of Addendum #1. Prepared by Chris Carter, P.E. on 10/29/2024

KELLY LANE MS DIRECT REPLACEMENT ROOFTOP UNIT SCHEDULE PART 1 ADDENDUM #1

EXISTING UNIT TAG	SERVICE	EQUIPMENT DATA	NOMINAL SIZE	MAKE	MODEL	SERIAL #	CONVENIENCE OUTLET	SYSTEM TYPE	ECONO-MIZER?	HUMIDITROL	DUCT CONNECTION	CURB	DESIGN CONDITIONS OAdb / MAdb / MAwb	SUPPLY CFM	OUTSIDE AIR CFM	NEUTRAL AIR	SUPPLY FAN TOTAL SP (IN. WC)	SUPPLY MOTOR HP	GROSS TOTAL COOLING (MBH)	# COMPRESSORS	SEER OR IEER	EER	ARI IPLV	GAS HEAT CAPACITY (MBH INPUT)	GAS HEAT CAPACITY (MBH OUTPUT)	GAS HEAT STAGES	THERMAL EFFICIENCY	VOLTS / PHASE	CIRCUIT	MCA / MOCP (AMPS)	DIMENSIONS (HxWxD-IN)	MAX WEIGHT (LBS)	
RTU-1A	Weight Room	NEW	7.5 TON	LENNOX	LGT092H4ES1G	TBD	YES - ?	DX COOL / GAS HT	YES	YES	DOWNFLOW	ADAPTER	100.3 / 74.3 // 80 / 67	3,000	625	0	0.6	3.75	93	2	N/A	14.6	15.7	130.0	104	2	80%	460V / 3 Ph	HA-1,3,5	23 / 25	46.875 x 58.25 x 99.25	1239	
		EXISTING	7.5 TON	LENNOX	LGA090H2BS3G	5605G18277	YES - ?	DX COOL / GAS HT	NO	YES	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	3,000	625	N/A	0.8	2.0	93.8	2	N/A	11	12	84.5 / 130	67.5 / 104	2	80%	460V / 3PH	HA-1,3,5	21 / 25	50x58x99.25	1,331	
RTU-2A	Girls Locker	NEW	8.5 TON	LENNOX	LGT102H4ES1G	TBD	NO	DX COOL / GAS HT	YES	YES	DOWNFLOW	ADAPTER	100.3 / 74.3 // 80 / 67	3,400	260	700	0.6	3.75	101	2	N/A	14.6	16.1	130.0	104	2	80%	460V / 3 PH	HA-7.9,11	23 / 25	46.875 x 58.25 x 99.25	1246	
		EXISTING	8.5 TON	LENNOX	LGA102H2BS4G	5605G18767	NO	DX COOL / GAS HT	NO	YES	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	3,400	260	700	0.8	2.0	105	2	N/A	11.2	11.7	84.5 / 130	67.5 / 104	2	80%	460 / 3 PH	HA-7.9,11	22 / 25	50x58x99.25	1331	
RTU-3A	Boy's Locker	NEW	10 TON	LENNOX	LGT120H4ES1G	TBD	YES - ?	DX COOL / GAS HT	YES	YES	DOWNFLOW	ADAPTER	100.3 / 74.3 // 80 / 67	4,000	350	700	0.6	3.75	117	2	N/A	14.6	16.1	130.0	104	2	80%	460V / 3 PH	HA-13,15,17	25 / 30	46.875 x 58.25 x 99.25	1281	
		EXISTING	10 TON	LENNOX	LGA120H2BS3G	5605G18626	YES - ?	DX COOL / GAS HT	NO	YES	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	4,000	350	700	1.22	3.0	125	2	N/A	11	11.8	84.5 / 130	67.5 / 104	2	80%	460 / 3 PH	HA-13,15,17	28 / 35	50x58x99.25	1386	
RTU-4A	Ath Corridor	NEW	6 TON	LENNOX	LGH074H4BB_G	TBD	NO	DX COOL / GAS HT	YES	YES	DOWNFLOW	ADAPTER	100.3 / 74.3 // 80 / 67	2,400	230	0	0.6	2	72.5	1	N/A	12.0	16.0	53 / 70	43 / 57	2 LOW Nox	81%	460V / 3 Ph	HA-19,21,23	15 / 20	46.875 x 45 x 83.25	960	
		EXISTING	6 TON	LENNOX	LGA072H2BS2G	5605G19014	NO	DX COOL / GAS HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	2,400	230	N/A	0.78	1.5	74	1	N/A	10.5	N/A	78	62.4	1	80%	460 / 3 PH	HA-19,21,23	16 / 20	36.5x46.5x87.5	779	
RTU-5A	Gymnasium	NEW	15 TON	LENNOX	LGT180H4MS1G	TBD	YES - ?	DX COOL / GAS HT	YES	YES	DOWNFLOW	ADAPTER	100.3 / 74.3 // 80 / 67	6,000	600	0	0.75	3	182.6	3	N/A	12.0	15.0	260.0	211	2	81%	460V / 3 Ph	HA-2,4,6	33 / 40	54.25 x 90.125 x 132.625	2413	
		EXISTING	15 TON	LENNOX	LGC180H2BS2G	5605G18440	YES - ?	DX COOL / GAS HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	6,000	600	N/A	0.9	3.0	188	3	N/A	11.8	13.3	169 / 260	208	2	80%	460 / 3 PH	HA-2,4,6	40 / 45	H2	2405	
RTU-6A	Gymnasium	NEW	20 TON	LENNOX	LGT240H4MS1G	TBD	NO	DX COOL / GAS HT	YES	YES	DOWNFLOW	ADAPTER	100.3 / 74.3 // 80 / 67	8,000	1,000	0	0.75	5	245.9	4	N/A	12.0	15.7	260.0	211	2	81%	460V / 3 Ph	HA-8,10,12	45 / 50	54.25 x 90.125 x 132.625	2886	
		EXISTING	20 TON	LENNOX	LGA240H2	ILLEGIBLE	NO	DX COOL / GAS HT	NO	YES	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	8,000	1,000	N/A	0.75	5.0	252	4	N/A	11	11.8	169 / 260	208	2	80%	460 / 3 PH	HA-8,10,12	52 / 60	54.25x91.125x133	2585	
RTU-7A	Gymnasium	NEW	15 TON	LENNOX	LGT180H4MS1G	TBD	YES - ?	DX COOL / GAS HT	YES	YES	DOWNFLOW	ADAPTER	100.3 / 74.3 // 80 / 67	6,000	600	0	0.75	3	182.6	3	N/A	12.0	15.0	260.0	211	2	81%	460V / 3 Ph	HA-14,16,18	33 / 40	54.25 x 90.125 x 132.625	2413	
		EXISTING	15 TON	LENNOX	LGC180H2	5605G1840_	YES - ?	DX COOL / GAS HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	6,000	600	N/A	0.9	3.0	188	3	N/A	11.8	13.3	169 / 260	208	2	80%	460 / 3 PH	HA-14,16,18	40 / 45	54.25x91.125x133	2405	
RTU-1B	Cafeteria	NEW	15 TON	LENNOX	LGT180H4MS1G	TBD	YES - ?	DX COOL / GAS HT	YES	YES	DOWNFLOW	ADAPTER	100.3 / 74.3 // 80 / 67	6,000	N/A	0	0.75	3	182.6	3	N/A	12.0	15.0	260.0	211	2	81%	460V / 3 Ph	HB-13.5 -	33 / 40	54.25 x 90.125 x 132.625	2413	
		EXISTING	15 TON	LENNOX	LGC180H2	ILLEGIBLE	YES - ?	DX COOL / GAS HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	6,000	N/A	480	0.75	3.0	188	3	N/A	11.8	13.3	169 / 260	208	2	80%	460 / 3 PH	HB-13.5 -	40 / 45	54.25x91.125x133	2355	
RTU-2B	Cafeteria	NEW	20 TON	LENNOX	LGT240H4MS1G	TBD	YES - ?	DX COOL / GAS HT	YES	YES	DOWNFLOW	ADAPTER	100.3 / 74.3 // 80 / 67	8,000	750	0	0.8	5	245.9	4	N/A	12.0	15.7	260.0	211	2	81%	460V / 3 Ph	HB-7.9,11 -	45 / 50	54.025 x 90.125 x 132.625	2886	
		EXISTING	20 TON	LENNOX	LGA240H2	5605G_	YES - ?	DX COOL / GAS HT	YES	YES	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	8,000	750	2,580	0.75	5.0	252	4	N/A	11	11.8	169 / 260	208	2	80%	460 / 3 PH	HB-7.9,11 -	52 / 60	54.25x91.125x133	2585	
RTU-3B	Kitchen	NEW	15 TON	LENNOX	LGT180H4MS1G	TBD	YES - ?	DX COOL / GAS HT	YES	YES	DOWNFLOW	ADAPTER	100.3 / 74.3 // 80 / 67	6,000	N/A	0	0.75	3	182.6	3	N/A	12.0	15.0	260.0	211	2	81%	460V / 3 Ph	HB-13,15,17 -	33 / 40	54.25 x 90.125 x 132.625	2413	
		EXISTING	15 TON	LENNOX	LGC180H2BSG	5605G18300	YES - ?	DX COOL / GAS HT	NO	YES	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	6,000	N/A	200	0.75	3.0	188	3	N/A	11.8	13.3	169 / 260	208	2	80%	460 / 3 PH	HB-13,15,17 -	40 / 45	54.25x91.125x133	2355	
RTU-4B	DNE	DOES NOT EXIST - NO UNIT LABELED RTU-4B																															
RTU-5B	Stage	NEW	5 TON	LENNOX	LHT060H4E	TBD	YES - ?	HEAT PUMP + ELEC HT	NO	YES	DOWNFLOW	ADAPTER CURB	100.3 / 74.3 // 80 / 67	1950	N/A	150	0.5	0.5	36.6	1	17	13.3	N/A	6.9KW ELEC HT	23.5	1	100%	460 / 3 PH	HB-25,27,29 -	27 / 30	46.875 x 45 x 83.25	765	
		EXISTING	5 TON	LENNOX	LGA060H2BFI1G	5605G18898	YES - ?	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1950	N/A	150	0.5	1.5	63	1	13	11	N/A	ELECTRIC - 20 Kw	62,671 BTUh	1	100%	460 / 3 PH	HB-25,27,29 -	36 / 40	36.5x46.5x87.5	697	
RTU-6B	ISS	NEW	2 TON	LENNOX	LHX024SD-P HP	TBD	YES - ?	HEAT PUMP + ELEC HT	NO	NO	DOWNFLOW	NEW	98.8 / 74.4 // 80 / 67	960	N/A	395	0.52	0.25	25.582	1	13.4	10.6	N/A	ELEC - 5.6kW (208v)	19.2	1	100%	208 / 1 PH	LD-1,3	51 / 60	83.25 x 47 x 36.38	581	
		EXISTING	2 TON	LENNOX	CHA16-024-1P	ILLEGIBLE	YES - ?	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	964	N/A	395	0.5	0.33	22.2	1	10.0	8.7	N/A	ELECTRIC - 7.5kW	25,627 BTUh	1	100%	208 / 1 PH	LD-1,3	48 / 50	23x46x60	319	
RTU-7B	Conference	NEW	5 TON	LENNOX	LGT060H4E	TBD	NO	DX COOL / GAS HT	NO	YES	DOWNFLOW	ADAPTER CURB	100.3 / 74.3 // 80 / 67	1995	N/A	300	0.5	0.5	61.6	1	17	12.7	N/A	100	80	2	80%	460 / 3 PH	HB-2,4,6 -	15 / 20	46.875 x 45 x 83.25	830	
		EXISTING	5 TON	LENNOX	LGA060H2	5605G18884	NO	DX COOL / GAS HT	NO	YES	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1950	N/A	300	0.5	1.5	63	1	13	11	N/A	78	62.4	1	80%	460 / 3 PH	HB-2,4,6 -	16 / 20	36.5x46.5x87.5	730	
RTU-8B	Ensemble	NEW	3 TON	LENNOX	LGT036H4E	TBD	NO	DX COOL / GAS HT	NO	YES	DOWNFLOW	ADAPTER CURB	100.3 / 74.3 // 80 / 67	1200	N/A	400	0.5	0.5	36.6	1	17	13.3	N/A	60	48.6	2	81%	460 / 3 PH	HB-8,10,12 -	9 / 15	46.875 x 45 x 83.25	827	
		EXISTING	3 TON	LENNOX	LGA036H2	5605G08282	NO	DX COOL / GAS HT	NO	YES	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1051	N/A	400	0.5	1.5	37.6	1	13	11.2	N/A	78	62.4	1	80%	460 / 3 PH	HB-8,10,12 -	12 / 15	36.5x46.5x87.5	656	
RTU-9B	Choir	NEW	3 TON	LENNOX	LHT036H4E	TBD	YES - ?	HEAT PUMP + ELEC HT	NO	YES	DOWNFLOW	ADAPTER CURB	100.3 / 74.3 /																				

KELLY LANE MS DIRECT REPLACEMENT ROOFTOP UNIT SCHEDULE PART 2

EXISTING UNIT TAG	SERVICE	EQUIPMENT DATA	NOMINAL SIZE	MAKE	MODEL	SERIAL #	CONVENIENCE OUTLET	SYSTEM TYPE	ECONO-MIZER?	HUMIDITROL	DUCT CONNECTION	CURB	DESIGN CONDITIONS OaDb / Mads / MAwb	SUPPLY CFM	OUTSIDE AIR CFM	NEUTRAL AIR	SUPPLY FAN TOTAL SP (IN. WC)	SUPPLY MOTOR HP	GROSS TOTAL COOLING (MBH)	# COMPRESSORS	SEER OR IEER	EER	ARI PLV	GAS HEAT CAPACITY (MBH INPUT)	GAS HEAT CAPACITY (MBH OUTPUT)	GAS HEAT STAGES	THERMAL EFFICIENCY	VOLTS / PHASE	CIRCUIT	MCA / MOCp (AMPS)	DIMENSIONS (HxWxD-IN)	MAX WEIGHT (LBS)
RTU-1E	CR 202	NEW	3 TON	LENNOX	LHT036H4E	TBD	NO	HEAT PUMP + ELEC HT	NO	YES	DOWNFLOW	ADAPTER CURB	100.3 / 74.3 / 80 / 67	1200	N/A	395	0.5	0.5	36.6	1	17	13.3	N/A	6.9kW ELEC HT	23.5	1	100%	460V / 3PH	HE-1,3,5	27 / 30	46.875 x 45 x 83.25	765
		EXISTING	3 TON	LENNOX	LCA036H2BD1G	5605G19032	NO	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1,200	N/A	395	0.5	1.5	38	1	13.0	11	N/A	ELECTRIC - 10 Kw	31,336 BTU/h	1	100%	460V / 3PH	HE-1,3,5	21 / 25	36.5x46.5x87.5	654
RTU-2E	CR 204	NEW	2 TON	LENNOX	LHX024S5D-P HP	TBD	NO	HEAT PUMP + ELEC HT	NO	NO	DOWNFLOW	NEW	98.8 / 74.4 / 80 / 67	960	N/A	395	0.52	0.25	25.582	1	13.4	10.6	N/A	ELEC - 5.6kW (208v)	19.2	1	100%	208V / 1PH	0	51 / 60	83.25 x 47 x 36.38	581
		EXISTING	2 TON	LENNOX	CHA16-024 - 1P	ILLEGIBLE	NO	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	964	N/A	395	0.5	0.33	22.2	1	10.0	8.7	N/A	ELECTRIC - 7.5 Kw	25,627 BTU/h	1	100%	208V / 1PH		48 / 50	23x46x60	319
RTU-3E	CR 206	NEW	2 TON	LENNOX	LHX024S5D-P HP	TBD	NO	HEAT PUMP + ELEC HT	NO	NO	DOWNFLOW	NEW	98.8 / 74.4 / 80 / 67	960	N/A	395	0.52	0.25	25.582	1	13.4	10.6	N/A	ELEC - 5.6kW (208v)	19.2	1	100%	208V / 1PH	LE-1,3	51 / 60	83.25 x 47 x 36.38	581
		EXISTING	2 TON	LENNOX	CHA16-024 - 1P	ILLEGIBLE	NO	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	964	N/A	395	0.5	0.33	22.2	1	10.0	8.7	N/A	ELECTRIC - 7.5 Kw	25,627 BTU/h	1	100%	208V / 1PH	LE-1,3	48 / 50	23x46x60	319
RTU-4E	CR 208	NEW	2 TON	LENNOX	LHX024S5D-P HP	TBD	YES - LE-36	HEAT PUMP + ELEC HT	NO	NO	DOWNFLOW	NEW	98.8 / 74.4 / 80 / 67	960	N/A	395	0.52	0.25	25.582	1	13.4	10.6	N/A	ELEC - 5.6kW (208v)	19.2	1	100%	208V / 1PH	LE-5,7	51 / 60	83.25 x 47 x 36.38	581
		EXISTING	2 TON	LENNOX	CHA16-024 - 1P	ILLEGIBLE	YES - LE-36	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	964	N/A	395	0.5	0.33	22.2	1	10.0	8.7	N/A	ELECTRIC - 7.5 Kw	25,627 BTU/h	1	100%	208V / 1PH	LE-5,7	48 / 50	23x46x60	319
RTU-5E	CR 210	NEW	2 TON	LENNOX	LHX024S5D-P HP	TBD	NO	HEAT PUMP + ELEC HT	NO	NO	DOWNFLOW	NEW	98.8 / 74.4 / 80 / 67	960	N/A	395	0.52	0.25	25.582	1	13.4	10.6	N/A	ELEC - 5.6kW (208v)	19.2	1	100%	208V / 1PH	LE-9,11	51 / 60	83.25 x 47 x 36.38	581
		EXISTING	2 TON	LENNOX	CHA16-024 - 1P	5605G10059	NO	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	964	N/A	395	0.5	0.33	22.2	1	10.0	8.7	N/A	ELECTRIC - 7.5 Kw	25,627 BTU/h	1	100%	208V / 1PH	LE-9,11	48 / 50	23x46x60	319
RTU-6E	CR 212	NEW	2 TON	LENNOX	LHX024S5D-P HP	TBD	YES - LE-32	HEAT PUMP + ELEC HT	NO	NO	DOWNFLOW	NEW	98.8 / 74.4 / 80 / 67	960	N/A	395	0.52	0.25	25.582	1	13.4	10.6	N/A	ELEC - 5.6kW (208v)	19.2	1	100%	208V / 1PH	LE-13,15	51 / 60	83.25 x 47 x 36.38	581
		EXISTING	2 TON	LENNOX	CHA16-024 - 1P	5605G10057	YES - LE-32	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	964	N/A	395	0.5	0.33	22.2	1	10.0	8.7	N/A	ELECTRIC - 7.5 Kw	25,627 BTU/h	1	100%	208V / 1PH	LE-13,15	48 / 50	23x46x60	319
RTU-7E	CR 214	NEW	2 TON	LENNOX	LHX024S5D-P HP	TBD	YES - LE-32	HEAT PUMP + ELEC HT	NO	NO	DOWNFLOW	NEW	98.8 / 74.4 / 80 / 67	960	N/A	395	0.52	0.25	25.582	1	13.4	10.6	N/A	ELEC - 5.6kW (208v)	19.2	1	100%	208V / 1PH	LE-17,19	51 / 60	83.25 x 47 x 36.38	581
		EXISTING	2 TON	LENNOX	CHA16-024 - 1P	5605G10060	YES - LE-32	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	964	N/A	395	0.5	0.33	22.2	1	10.0	8.7	N/A	ELECTRIC - 7.5 Kw	25,627 BTU/h	1	100%	208V / 1PH	LE-17,19	48 / 50	23x46x60	319
RTU-8E	CR 101	NEW	2 TON	LENNOX	LHX024S5D-P HP	TBD	NO	HEAT PUMP + ELEC HT	NO	NO	DOWNFLOW	NEW	98.8 / 74.4 / 80 / 67	960	N/A	395	0.52	0.25	25.582	1	13.4	10.6	N/A	ELEC - 5.6kW (208v)	19.2	1	100%	208V / 1PH	LE-2,4	51 / 60	83.25 x 47 x 36.38	581
		EXISTING	2 TON	LENNOX	CHA16-024 - 1P	ILLEGIBLE	NO	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	964	N/A	395	0.5	0.33	22.2	1	10.0	8.7	N/A	ELECTRIC - 7.5 Kw	25,627 BTU/h	1	100%	208V / 1PH	LE-2,4	48 / 50	23x46x60	319
RTU-9E	CR 103	NEW	2 TON	LENNOX	LHX024S5D-P HP	TBD	NO	HEAT PUMP + ELEC HT	NO	NO	DOWNFLOW	NEW	98.8 / 74.4 / 80 / 67	960	N/A	395	0.52	0.25	25.582	1	13.4	10.6	N/A	ELEC - 5.6kW (208v)	19.2	1	100%	208V / 1PH	LE-6,8	51 / 60	83.25 x 47 x 36.38	581
		EXISTING	2 TON	LENNOX	CHA16-024 - 1P	ILLEGIBLE	NO	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	964	N/A	395	0.5	0.33	22.2	1	10.0	8.7	N/A	ELECTRIC - 7.5 Kw	25,627 BTU/h	1	100%	208V / 1PH	LE-6,8	48 / 50	23x46x60	319
RTU-10E	CR 105	NEW	2 TON	LENNOX	LHX024S5D-P HP	TBD	NO	HEAT PUMP + ELEC HT	NO	NO	DOWNFLOW	NEW	98.8 / 74.4 / 80 / 67	960	N/A	395	0.52	0.25	25.582	1	13.4	10.6	N/A	ELEC - 5.6kW (208v)	19.2	1	100%	208V / 1PH	LE-10,12	51 / 60	83.25 x 47 x 36.38	581
		EXISTING	2 TON	LENNOX	CHA16-024 - 1P	5605F07594	NO	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	964	N/A	395	0.5	0.33	22.2	1	10.0	8.7	N/A	ELECTRIC - 7.5 Kw	25,627 BTU/h	1	100%	208V / 1PH	LE-10,12	48 / 50	23x46x60	319
RTU-11E	CR 107	NEW	2 TON	LENNOX	LHX024S5D-P HP	TBD	NO	HEAT PUMP + ELEC HT	NO	NO	DOWNFLOW	NEW	98.8 / 74.4 / 80 / 67	960	N/A	395	0.52	0.25	25.582	1	13.4	10.6	N/A	ELEC - 5.6kW (208v)	19.2	1	100%	208V / 1PH	LE-14,16	51 / 60	83.25 x 47 x 36.38	581
		EXISTING	2 TON	LENNOX	CHA16-024 - 1P	ILLEGIBLE	NO	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	964	N/A	395	0.5	0.33	22.2	1	10.0	8.7	N/A	ELECTRIC - 7.5 Kw	25,627 BTU/h	1	100%	208V / 1PH	LE-14,16	48 / 50	23x46x60	319
RTU-12E	CR 109	NEW	2 TON	LENNOX	LHX024S5D-P HP	TBD	NO	HEAT PUMP + ELEC HT	NO	NO	DOWNFLOW	NEW	98.8 / 74.4 / 80 / 67	960	N/A	395	0.52	0.25	25.582	1	13.4	10.6	N/A	ELEC - 5.6kW (208v)	19.2	1	100%	208V / 1PH	LE-18,20	51 / 60	83.25 x 47 x 36.38	581
		EXISTING	2 TON	LENNOX	CHA16-024 - 1P	ILLEGIBLE	NO	DX COOL / ELEC HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	964	N/A	395	0.5	0.33	22.2	1	10.0	8.7	N/A	ELECTRIC - 7.5 Kw	25,627 BTU/h	1	100%	208V / 1PH	LE-18,20	48 / 50	23x46x60	319
RTU-13E	CR 102	NEW	3 TON	LENNOX	LG036H4E	TBD	YES - LE-21	DX COOL / GAS HT	NO	YES	DOWNFLOW	ADAPTER CURB	100.3 / 74.3 / 80 / 67	1200	N/A	395	0.5	0.5	36.6	1	17	13.3	N/A	60	48.6	2	81%	460V / 3PH	HE-13,15,17	9 / 15	46.875 x 45 x 83.25	827
		EXISTING	3 TON	LENNOX	LGA036H2BS2G	5605D04746	YES - LE-21	DX COOL / GAS HT	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1,200	N/A	395	0.5	1.5	37.6	1	13.0	11.2	N/A	78	62	1	80%	460V / 3PH	HE-13,15,17	12 / 15	36.5x46.5x87.5	656
RTU-14E	CR 104	NEW	3 TON	LENNOX	LG036H4E	TBD	YES - LE-21	DX COOL / GAS HT	NO	YES	DOWNFLOW	ADAPTER CURB	100.3 / 74.3 / 80 / 67	1200	N/A	395																

KELLY LANE MS SCIENCE LAB AND ART CLASSROOM REPLACEMENT ROOFTOP UNIT SCHEDULE

EXISTING UNIT TAG	SERVICE	EQUIPMENT DATA	NOMINAL SIZE	MAKE	MODEL	SERIAL #	CONVENIENCE OUTLET	SYSTEM TYPE	HEAT RECOVERY	ECONO-MIZER?	HOT GAS REHEAT OR HUMIDITROL	DUCT CONNECTION	CURB	DESIGN CONDITIONS OaDb / OaWb / MaDb / MaWb	SUPPLY CFM	OUTSIDE AIR CFM	NEUTRAL AIR	EXHAUST AIR	SUPPLY FAN TOTAL SP (IN. WG)	SUPPLY MOTOR HP	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	# COMPRESSORS	COOLING EAT / LAT (UNIT)	SEER OR IEER	EER	GAS HEAT CAPACITY (MBH INPUT)	GAS HEAT CAPACITY (MBH OUTPUT)	GAS HEAT STAGES	HEATING TURNDOWN	THERMAL EFFICIENCY	HEATING EAT / LAT	VOLTS / PHASE	CIRCUIT	MCA / MOCP (AMPS)	DIMENSIONS (HxWxD)	WEIGHT (LBS)	NOTES:
RTU-1D	CR 301 (ART)	NEW	5 TON	AAON	RQA-006-A-A-3-GB80A-CB1L0	TBD	YES - L250	DX COOL / GAS HT	ENTHALPY CORE	YES	HOT GAS REHEAT	DOWNFLOW	NEW	100.3 / 74.3 / 80 / 67	1,600	415	0	415	1.6	1.5	57.6	45.4	MODULATING	8067 / 55.553.9	13.4	10.3	60	48.6	MODULATING	10.1	81%	90.6 / 67.2	450 / 3PH	HD-13.5	18 / 25	116 x 44 x 50.5	1934	
		EXISTING	4 TON	LENVOK	LGDA04H2B83G	5605018817	YES - L250	DX COOL / GAS HT	ENTHALPY CORE	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1,600	N/A	600	0	500	1.6	2	59.5	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.5	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934
RTU-4F	CR 319	NEW	5 TON	AAON	RQA-006-A-A-3-GB80A-CB1L0	TBD	YES - LF-32	DX COOL / GAS HT	ENTHALPY CORE	YES	HOT GAS REHEAT	DOWNFLOW	NEW	100.3 / 74.3 / 80 / 67	1,800	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934	
		EXISTING	4 TON	LENVOK	LGDA04H2B83G	5605018818	YES	DX COOL / GAS HT	ENTHALPY CORE	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1,600	N/A	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.5	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934
RTU-5F	CR 321	NEW	5 TON	AAON	RQA-006-A-A-3-GB80A-CB1L0	TBD	YES - LF-32	DX COOL / GAS HT	ENTHALPY CORE	YES	HOT GAS REHEAT	DOWNFLOW	NEW	100.3 / 74.3 / 80 / 67	1,800	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934	NEW ON INTAKE WITHIN 10' OF EF
		EXISTING	4 TON	LENVOK	LGDA04H2B83G	5605018814	YES - LF-32	DX COOL / GAS HT	ENTHALPY CORE	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1,600	N/A	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934
RTU-10F	CR 320	NEW	5 TON	AAON	RQA-006-A-A-3-GB80A-CB1L0	TBD	YES - LF-25	DX COOL / GAS HT	ENTHALPY CORE	YES	HOT GAS REHEAT	DOWNFLOW	NEW	100.3 / 74.3 / 80 / 67	1,800	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934	
		EXISTING	4 TON	LENVOK	LGDA04H2B83G	5605018815	YES - LF-25	DX COOL / GAS HT	ENTHALPY CORE	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1,600	N/A	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.5	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934
RTU-12F	CR 217	NEW	5 TON	AAON	RQA-006-A-A-3-GB80A-CB1L0	TBD	YES - LF-25	DX COOL / GAS HT	ENTHALPY CORE	YES	HOT GAS REHEAT	DOWNFLOW	NEW	100.3 / 74.3 / 80 / 67	1,800	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934	
		EXISTING	4 TON	LENVOK	LGDA04H2B83G	5605018824	YES - LF-25	DX COOL / GAS HT	ENTHALPY CORE	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1,600	N/A	600	0	500	1.6	2	59.5	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934
RTU-13F	CR 219	NEW	5 TON	AAON	RQA-006-A-A-3-GB80A-CB1L0	TBD	YES - LF-25	DX COOL / GAS HT	ENTHALPY CORE	YES	HOT GAS REHEAT	DOWNFLOW	NEW	100.3 / 74.3 / 80 / 67	1,800	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934	NEW ON INTAKE WITHIN 10' OF EF
		EXISTING	4 TON	LENVOK	LGDA04H2B83G	5605018811	YES	DX COOL / GAS HT	ENTHALPY CORE	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1,600	N/A	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934
RTU-6G	CR 222	NEW	5 TON	AAON	RQA-006-A-A-3-GB80A-CB1L0	TBD	YES - LF-25	DX COOL / GAS HT	ENTHALPY CORE	YES	HOT GAS REHEAT	DOWNFLOW	NEW	100.3 / 74.3 / 80 / 67	1,800	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934	
		EXISTING	4 TON	LENVOK	LGDA04H2B83G	5605018810	YES	DX COOL / GAS HT	ENTHALPY CORE	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1,600	N/A	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934
RTU-8G	CR 111	NEW	5 TON	AAON	RQA-006-A-A-3-GB80A-CB1L0	TBD	YES - LG-50	DX COOL / GAS HT	ENTHALPY CORE	YES	HOT GAS REHEAT	DOWNFLOW	NEW	100.3 / 74.3 / 80 / 67	1,800	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934	
		EXISTING	4 TON	LENVOK	LGDA04H2B83G	5605018827	YES - LG-50	DX COOL / GAS HT	ENTHALPY CORE	YES	HOT GAS REHEAT	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1,600	N/A	600	0	500	1.6	2	59.5	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934
RTU-9G	CR 113	NEW	5 TON	AAON	RQA-006-A-A-3-GB80A-CB1L0	TBD	YES - LG-50	DX COOL / GAS HT	ENTHALPY CORE	YES	HOT GAS REHEAT	DOWNFLOW	NEW	100.3 / 74.3 / 80 / 67	1,800	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934	
		EXISTING	4 TON	LENVOK	LGDA04H2B83G	5605018812	YES - LG-50	DX COOL / GAS HT	ENTHALPY CORE	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1,600	N/A	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934
RTU-13G	CR 116	NEW	5 TON	AAON	RQA-006-A-A-3-GB80A-CB1L0	TBD	NO	DX COOL / GAS HT	ENTHALPY CORE	YES	HOT GAS REHEAT	DOWNFLOW	NEW	100.3 / 74.3 / 80 / 67	1,800	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934	
		EXISTING	4 TON	LENVOK	LGDA04H2B83G	5605018816	NO	DX COOL / GAS HT	ENTHALPY CORE	NO	NO	DOWNFLOW	18" SLOPED ROOF	95 / 80 / 67	1,600	N/A	600	0	500	1.6	2	59.40	49.100	MODULATING	8067 / 55.553.8	13.4	10.4	60	48.6	MODULATING	10.1	81%	90.6 / 65	450 / 3PH	HF-13.15.17	18 / 25	116 x 44 x 50.5	1934

Schedule Notes:

- Provide factory-mounted BACnet DDC unit controller.
- For units designated to have an economizer, provide comparative enthalpy economizer with barometric relief damper.
- Provide 2" MERV 8 filters and hinged access doors.
- Provide stainless steel heat exchanger.
- Provide hail guards.
- Provide factory installed disconnect switch and phase monitor. Provide through-base electrical access.
- For units designated to have convenience outlet, factory is providing a non-powered convenience outlet with the unit. Re-use existing GFCI circuit. Extend as needed with terminal block per detail.
- Provide new manufacturer roof curb as shown in the schedule.
- Provide smoke detectors in the return duct for all units with 2,000 CFM or greater; provide supply and return smoke detectors for all units with 10,000 or greater CFM. Contractor to coordinate with district's Fire Alarm Contractor for connection of smoke detectors to existing system.
- For crane lifts of all RTUs, utilize spreader bars.

ITEM #19, ADDENDUM #1, 10.29.2024

KELLY LANE MS REPLACEMENT EXHAUST FAN SCHEDULE

UNIT TAG	MAKE	MODEL	FAN TYPE	DIRECTION	DRIVE TYPE	CURB CAP SIZE (IN)	CFM	ESP (IN. WG)	FAN RPM	INLET dBA / SONES	MOTOR SPEED (RPM)	MOTOR HP	VOLTS / PH	NOTES
EF-1A	LOREN COOK	100ACEH 100C10DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	300	0.25	990	47 / 4.7	1050	1/25	115 / 1	
EF-1A	LOREN COOK	100ACEH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	300	0.25	990	53 / 6.5	1725	0.125	115 / 1	
EF-2A	LOREN COOK	150C10D	EXHAUST	DOWNBLAST	DIRECT	24 x 24 x 2	1485	0.5	979	56 / 7.7	1075	1/3	115 / 1	
EF-2A	LOREN COOK	150C10D	EXHAUST	DOWNBLAST	DIRECT	24 x 24 x 2	1485	0.5	980	62 / 11.1	1050	1/3	115 / 1	
EF-3A, 6B	LOREN COOK	70C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	75	0.25	1181	40 / 2.6	1550	1/20	115 / 1	
EF-3A, 6B	LOREN COOK	70C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	75	0.25	1182	40 / 2.9	1550	1/20	115 / 1	
EF-4A, 5A; 2B, 1C, 2D, 3D	LOREN COOK	70C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	75	0.25	1181	40 / 2.6	1550	1/20	115 / 1	EF-1C is too close to RTU intake - see Drawings
EF-4A, 5A; 2B, 1C, 2D, 3D	LOREN COOK	70C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	75	0.25	1182	40 / 2.9	1550	1/20	115 / 1	
EF-6A	LOREN COOK	135C15D	EXHAUST	DOWNBLAST	DIRECT	20 x 20 x 2	1865	0.5	1440	65 / 13.8	1550	1/2	115 / 1	
EF-6A	LOREN COOK	135C15D	EXHAUST	DOWNBLAST	DIRECT	20 x 20 x 2	1965	0.5	1440	65 / 13.8	1550	0.5	115 / 1	
EF-7A, 8A	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	400	0.25	1113	51 / 5.8	1550	1/8	115 / 1	
EF-7A, 8A	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	400	0.25	1114	51 / 5.8	1550	1/8	115 / 1	
EF-9A; 10A; 5B; 1D; 5F; 6G	LOREN COOK	70C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	100	0.25	1250	42 / 3.2	1550	1/20	115 / 1	
EF-9A; 10A; 5B; 1D; 5F; 6G	LOREN COOK	70C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	100	0.25	1251	42 / 3.4	1550	1/20	115 / 1	
EF-1B	LOREN COOK	100C10DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	330	0.25	1028	49 / 5.2	1050	1/25	115 / 1	
EF-1B	LOREN COOK	100C10DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	330	0.25	1028	49 / 5.3	1050	1/25	115 / 1	
EF-3B	LOREN COOK	70C15DH	EXHAUST	DOWNBLAST	DIRECT	13.5 x 13.5 x 2	165	0.25	1456	47 / 4.5	1550	1/20	115 / 1	
EF-3B	LOREN COOK	70C15DH	EXHAUST	DOWNBLAST	DIRECT	13.625 x 13.625 x 2	165	0.25	1457	47 / 4.6	1550	1/20	115 / 1	
EF-4B	LOREN COOK	120C15D	EXHAUST	DOWNBLAST	DIRECT	20 x 20 x 2	800	0.5	1146	53 / 6.6	1550	1/4	115 / 1	
EF-4B	LOREN COOK	120C15D	EXHAUST	DOWNBLAST	DIRECT	20 x 20 x 2	800	0.5	1147	53 / 6.5	1550	1/4	115 / 1	
EF-7B, 8B	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	750	0.25	1535	61 / 10.7	1550	1/8	115 / 1	
EF-7B, 8B	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	757	0.255	1550	61 / 10.8	1550	0.125	115 / 1	
EF-9B	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	500	0.25	1218	55 / 7.4	1550	1	115 / 1	
EF-9B	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	500	0.25	1219	55 / 7.4	1550	1/8	115 / 1	
EF-10B	LOREN COOK	150RH10D	EXHAUST	UPBLAST	DIRECT	24 x 24 x 2	600	0.5	1014	50 / 5.4	1075	1/6	115 / 1	
EF-10B	LOREN COOK	150RH10D	EXHAUST	UPBLAST	DIRECT	24 x 24 x 2	600	0.5	1015	50 / 5.4	1050	0.167	115 / 1	
EF-2C; 2F; 8F; 12F; 4G	LOREN COOK	100C10DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	150	0.375	1037	48 / 5.2	1050	1/25	115 / 1	
EF-2C; 2F; 8F; 12F; 4G	LOREN COOK	100C10DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	150	0.375	1038	49 / 5.4	1550	1/25	115 / 1	
EF-1E; 7F; 2G	LOREN COOK	70C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	75	0.25	1181	40 / 2.6	1550	1/20	115 / 1	EF-1E is too close to RTU intake - see Drawings
EF-1E; 7F; 2G	LOREN COOK	70C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	75	0.25	1182	40 / 2.9	1550	1/20	115 / 1	
EF-1F; 4F; 10F; 11F; 14F	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	200	0.375	1041	47 / 4.6	1550	1/8	115 / 1	EF-4F is too close to RTU intake - see Drawings
EF-1F; 4F; 10F; 11F; 14F	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	200	0.375	1042	48 / 4.9	1550	1/8	115 / 1	
EF-3F; 9F; 13F; 3G; 8G; 12G	LOREN COOK	120C11D	EXHAUST	DOWNBLAST	DIRECT	20 x 20 x 2	125	0.375	1140	53 / 6.9	N/A	1/4	115 / 1	
EF-3F; 9F; 13F; 3G; 8G; 12G	LOREN COOK	120C11D DR60	EXHAUST	DOWNBLAST	DIRECT	20 x 20 x 2	128	0.391	1140	53 / 6.6	1140	0.167	115 / 1	
EF-6F	LOREN COOK	165C10D	EXHAUST	DOWNBLAST	DIRECT	24 x 24 x 2	1800	0.5	919	57 / 8.3	1075	1/3	115 / 1	
EF-6F	LOREN COOK	165C10D	EXHAUST	DOWNBLAST	DIRECT	24 x 24 x 2	1800	0.5	920	57 / 8.3	1050	1/3	115 / 1	
EF-1G	LOREN COOK	120C15D	EXHAUST	DOWNBLAST	DIRECT	20 x 20 x 2	900	0.5	1195	55 / 7.3	1550	1/4	115 / 1	
EF-1G	LOREN COOK	120C15D	EXHAUST	DOWNBLAST	DIRECT	20 x 20 x 2	900	0.5	1196	55 / 7.4	1550	1/4	115 / 1	
EF-5G; 7G; 10G; 13G	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	200	0.375	1041	47 / 4.6	1550	1/8	115 / 1	EFs-10G, 13G are too close to RTU intake - see Drawings
EF-5G; 7G; 10G; 13G	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	200	0.375	1042	48 / 4.9	1550	.125	115 / 1	
EF-9G; 11G	LOREN COOK	100C10DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	150	0.375	1037	48 / 5.2	1550	1/25	115 / 1	
EF-9G; 11G	LOREN COOK	100C10DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	150	0.375	1038	49 / 5.4	1050	1/25	115 / 1	
EF-1CS	LOREN COOK	120C15D	EXHAUST	DOWNBLAST	DIRECT	20 x 20 x 2	1030	0.5	N/A	N/A	1550	1/4	115 / 1	
EF-1CS	LOREN COOK	120C15D	EXHAUST	DOWNBLAST	DIRECT	20 x 20 x 2	1030	0.5	N/A	N/A	1550	1/4	115 / 1	
EF-2CS	LOREN COOK	100ACEH 100C10DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	250	0.25	N/A	N/A	1050	1/25	115 / 1	
EF-2CS	GREENHECK	100ACEH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	250	0.25	N/A	N/A	1725	0.125	115 / 1	
EF-3CS	LOREN COOK	70C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	100	0.25	1250	42 / 3.2	1550	1/20	115 / 1	
EF-3CS	LOREN COOK	70C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	100	0.25	1251	42 / 3.4	1550	1/20	115 / 1	
EF-4CS	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	530	0.375	N/A	N/A	1550	1/8	115 / 1	
EF-4CS	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	530	0.375	N/A	N/A	1550	1/8	115 / 1	
EF-5CS	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	500	0.25	1218	55 / 7.4	1550	1/8	115 / 1	WALL-MOUNT EF WALL-MOUNT EF
EF-5CS	LOREN COOK	100C15DH	EXHAUST	DOWNBLAST	DIRECT	18 x 18 x 2	500	0.25	1219	55 / 7.4	1550	1/8	115 / 1	
KSF-1	LOREN COOK	120 KSP 120KSP-B	SUPPLY	N/A	BELT	32.125 x 32.125 x 3	2724	0.5	832	69 / 21	1725	1.5	460 / 3	
KSF-1	LOREN COOK	120KSP-B	SUPPLY	N/A	BELT	32.125 x 32.125 x 3	2724	0.5	832	69 / 21	1725	1	460 / 3	
KEF-1	LOREN COOK	225 VCR 225V9B	EXHAUST	UPBLAST	BELT	30 x 30 x 3	4540	1.5	1054	73 / 2.4	1725	2	460 / 3	
KEF-1	LOREN COOK	210V11D	EXHAUST	UPBLAST	BELT	30 x 30 x 3	4558	1.512	1160	70 / 18.8	1160	2	460 / 3	
KSF-2	LOREN COOK	100 KSP 100KSP-B	SUPPLY	N/A	BELT	28.125 x 28.125 x 3	2526	0.5	992	69 / 21	1725	1	460 / 3	
KSF-2	LOREN COOK	100KSP-B	SUPPLY	N/A	BELT	28.125 x 28.125 x 3	2526	0.5	992	68 / 21	1725	1	460 / 3	
KEF-2	LOREN COOK	195 VCR 195V9B	EXHAUST	UPBLAST	BELT	30 x 30 x 3	4210	1.5	1274	71 / 20	1725	2	460 / 3	
KEF-2	LOREN COOK	210V11D	EXHAUST	UPBLAST	BELT	30 x 30 x 3	4210	1.5	1122	69 / 17.5	1160	2	460 / 3	



Diagram illustrating a 2D array structure with 3 rows and 4 columns. The cells are labeled A through F. The layout is as follows:

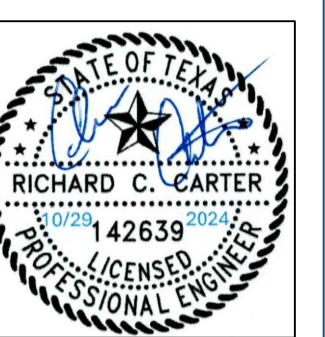
	B	D	F
A	C	E	G

Cell F is highlighted in blue.

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KELLY LANE MIDDLE
SCHOOL HVAC AND
CONTROL SYSTEM
REPLACEMENT

PFUGERVILLE INDEPENDENT SCHOOL DISTRICT
PFUGERVILLE, TEXAS



CONCLUSION

90% REVIEW SET
October 29, 2024

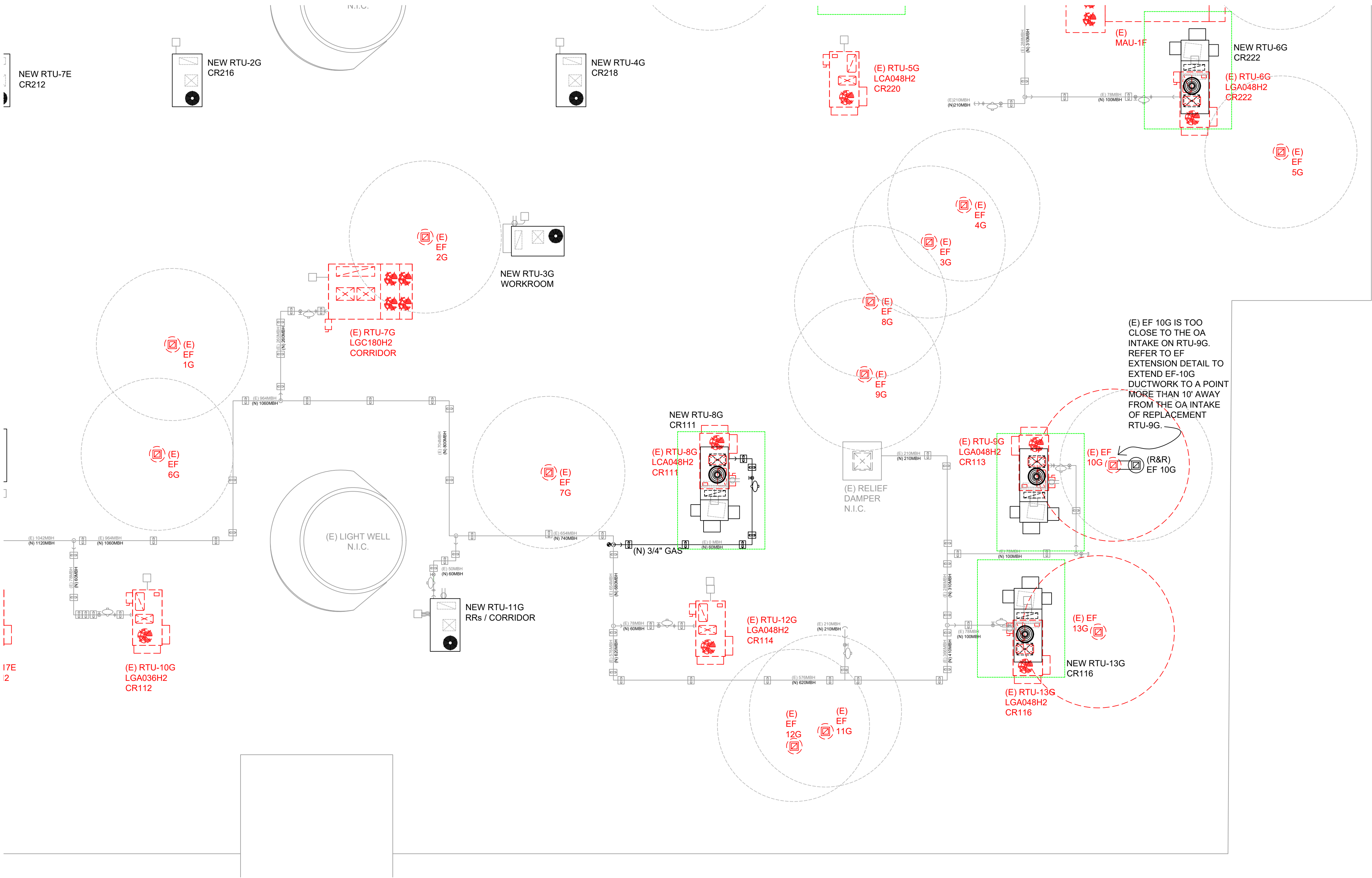
REVISIONS		
NO.	REV.	DATE
CDs	--	7/25/2024
ADD1	--	10/29/2024
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MEET DESCRIPTION

EXISTING AND REPLACEMENT SCIENCE RM RTUS

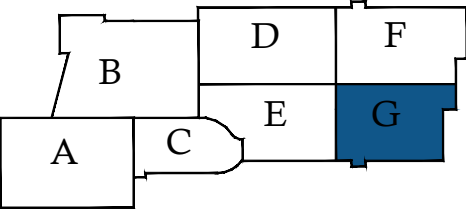
SHEET NUMBER

MEP
1.6.0



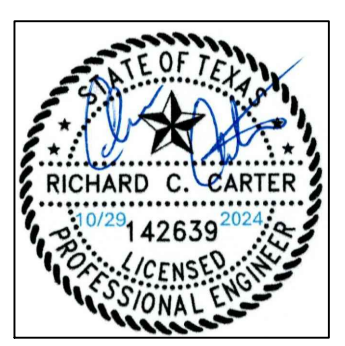
A ROOF PLAN, AREA G
SCALE: 1/8" = 1'-0"

ITEM #19, ADDENDUM #1, 10.29.2024
NEW DRAWING SHOWING NEW SCIENCE
ROOM RTU FOOTPRINTS OVER EXISTING
RTU FOOTPRINTS.



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PFLUGERVILLE, TEXAS



REVISIONS		
NO.	REV.	DATE
CDs	--	7/25/2024
ADD1	--	10/29/2024
--	--	--
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ROOF PLAN
AREA G EXISTING
AND REPLACEMENT
SCIENCE RM RTUS

SHEET NUMBER
MEP
1.7.0



A diagram of a 2D array with 7 elements labeled A through G. The elements are arranged in a grid-like structure. Element D is highlighted in blue. The layout is as follows:

		D	F
B			
A	C	E	G

SHEET NUMBER

MEP
1.11.0