

## DESIGN & CONSTRUCTION GROUP THE GOVERNOR NELSON A. ROCKEFELLER EMPIRE STATE PLAZA ALBANY, NY 12242

#### ADDENDUM NO. 5 TO PROJECT NO. 45382

# HAZARDOUS, CONSTRUCTION, HVAC, PLUMBING, AND ELECTRICAL WORK RENOVATE BUILDING 8, 8<sup>TH</sup> & 9<sup>TH</sup> FLOOR STATE OFFICE BUILDING CAMPUS 1220 WASHINGTON AVE. ALBANY, NY

November 1, 2024

**NOTE:** This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

#### HVAC WORK DRAWINGS

- 1. Drawing No. M-107: Add General Note 4. to read: "4. THE REMOVAL OF EXISTING ASBESTOS-CONTAMINATED CONCRETE AND METAL DECK FOR DUCT AND PIPE OPENINGS AND CORE DRILLS IS REQUIRED TO BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACT PROVIDED BY THE H-CONTRACT IN ACCORDANCE WITH THE APPROVED SITE-SPECIFIC VARIANCE PROVIDED WITHIN THE PROJECT MANUAL."
- 2. Drawing No. M-108: Add General Note 4. to read: "4. THE REMOVAL OF EXISTING ASBESTOS-CONTAMINATED CONCRETE AND METAL DECK FOR DUCT AND PIPE OPENINGS AND CORE DRILLS IS REQUIRED TO BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACT PROVIDED BY THE H-CONTRACT IN ACCORDANCE WITH THE APPROVED SITE-SPECIFIC VARIANCE PROVIDED WITHIN THE PROJECT MANUAL."
- 3. Drawing No. M-109: Add General Note 5. to read: "5. THE REMOVAL OF EXISTING ASBESTOS CONTAMINATED CONCRETE AND METAL DECK FOR DUCT AND PIPE OPENINGS AND CORE DRILLS THRU THE 9<sup>TH</sup> FLOOR SLAB AND DECKING IS REQUIRED TO BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR PROVIDED BY THE H-CONTRACT IN ACCORDANCE WITH THE APPROVED SITE-SPECIFIC VARIANCE PROVIDED WITHIN THE PROJECT MANUAL."

- 4. Drawing No. M-207: Add General Note 4. to read: "4. THE REMOVAL OF EXISTING ASBESTOS-CONTAMINATED CONCRETE AND METAL DECK FOR DUCT AND PIPE OPENINGS AND CORE DRILLS IS REQUIRED TO BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACT PROVIDED BY THE H-CONTRACT IN ACCORDANCE WITH THE APPROVED SITE-SPECIFIC VARIANCE PROVIDED WITHIN THE PROJECT MANUAL."
- 5. Drawing No. M-208: Add General Note 3. to read: "3. THE REMOVAL OF EXISTING ASBESTOS-CONTAMINATED CONCRETE AND METAL DECK FOR DUCT AND PIPE OPENINGS AND CORE DRILLS IS REQUIRED TO BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACT PROVIDED BY THE H-CONTRACT IN ACCORDANCE WITH THE APPROVED SITE-SPECIFIC VARIANCE PROVIDED WITHIN THE PROJECT MANUAL."
- 6. Drawing No. M-209: Add General Note 3. to read: "3. THE REMOVAL OF EXISTING ASBESTOS CONTAMINATED CONCRETE AND METAL DECK FOR DUCT AND PIPE OPENINGS AND CORE DRILLS THRU THE 9<sup>TH</sup> FLOOR SLAB AND DECKING IS REQUIRED TO BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR PROVIDED BY THE H-CONTRACT IN ACCORDANCE WITH THE APPROVED SITE-SPECIFIC VARIANCE PROVIDED WITHIN THE PROJECT MANUAL."

#### 7. Revised Drawings:

a. Drawing No. M-800 noted "REVISED DRAWING 11/1/24" accompanies this Addendum and supersedes the same numbered originally issued drawing.

#### **ELECTRICAL WORK DRAWINGS**

- 8. Drawing No. ED-601:
  - a. Delete Coded Removal Note 1. and replace with the following: "1.

    DE-ENERGZIE, DISCONNECT AND REMOVE FEEDER FROM SUBSTATION TO POWER PANELS 8-5-C-HV, 8-6-C-HV, 8-7-C-HV, 8-8-C-HV, 8-9-C-HV AND REPLACE. FEEDER SIZE SHALL MATCH EXISTING. PANELS ARE LOCATED BETWEEN COLUMNS 6F AND STAKED ON RESPECTIVE FLOORS WITHIN IDENTICAL CLOSET. WORK SHALL BE COMPLETED ON WEEKENDS WITH PANELS ON THE 5<sup>TH</sup> AND 6<sup>TH</sup> FLOORS NEEDING TO BE OPERATIONAL BY 6 AM THE NEXT WORKING DAY.
  - b. Delete Coded Removal Note 9. and replace with the following: "9. EXISTING GE INTELLIGUARD BREAKER CURRENTLY LABELED AS GTB-2, HOWEVER THE BREAKER IS NOT BEING USED. CHANGE OVERCURRENT PLUG FROM 100A TO 800A AND USE BREAKER TO FEED 800A BUS DUCT TO PANEL PH-HV-3 IN PENTHOUSE.
  - c. Delete Coded Removal Note 10. and replace with the following: "10. DISCONNECT AND REMOVE EXISTING 200' OF 3" CONDUIT WITH 3 SETS OF (3) 350 KCMIL AND (1) #2G."

- c. Delete Coded Removal Note 11. and replace with the following: "11. EXISTING OPEN SWITCH VERIFY FRAME SIZE AND TRIP RATING. REPLACE WITH GE INTELLIGUARD TYPE BREAKER WITH 1600AMP FRAME AND 800A AND USE BREAKER TO POWER FIRE PUMP CONTROLLER.
- 9. Revised Drawings:
  - a. Drawing No. E-101A, E-110, E-602, E-607, noted "REVISED DRAWING 11/1/24" accompanies this Addendum and supersedes the same numbered originally issued drawing.

#### **END OF ADDENDUM**

Brady Sherlock, P.E. Director, Division of Design Design & Construction

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PROVIDE WITH SINGLE POINT POWER CONNECTION AND MANUFACTURER'S VFD PER FAN BANK AND ENERGY RECOVERY WHEEL
 PROVIDE WITH INSULATED ROOF CURB.

2. PROVIDE WITH INSULATED ROOF CORB.
3. RTU SHALL BE CAPABLE OF OPERATING AT BOTH SCHEDULED AND FUTURE PERFORMANCE CONDITIONS WITHOUT COMPONENT REPLACEMENT. RTU SHALL BE BALANCED TO PERFORMANCE INDICATED DURING TESTING AND BALANCING OF THIS PROJECT. RTU WILL BE REBALANCED FOR FUTURE PERFORMANCE AT BOTH OPERATING CONDITIONS.

AIR HA	ANDLIN	NG UN	IT - HYRI	DONIC H	IEAT/C	OOL W	/ITH EN	<b>NERGY</b>	/ REC	OVER'	Y - FU	TURE	PERF	ORMA	₹NC
					COC	LING COIL						HEATIN	IG COIL		
TAG	CFM [FUTURE]	OA CFM [FUTURE]	EAT DB / WB (°F) [FUTURE]	LAT DB / WB (°F) [FUTURE]	TOTAL MBH [FUTURE]	SENSIBLE MBH [FUTURE]	GPM [FUTURE]	EWT (°F) [FUTURE]	LWT (°F) [FUTURE]	EAT (°F) [FUTURE]	EAT (°F) [FUTURE]	MBH [FUTURE]	GPM [FUTURE]	EWT (°F) [FUTURE]	LWT [FUTU
RTU-11A	7440	1860	79.5 / 64.6	56.0 / 55.0	215	193	43	46	56	50.8	55.0	35	4	180	16
RTU-11B	7320	1830	79.5 / 64.6	56.0 / 55.0	212	190	42	46	56	50.8	55.0	34	4	180	16
RTU-12A	6880	1720	79.5 / 64.6	56.0 / 55.0	199	178	40	46	56	50.8	55.0	32	3	180	16
RTU-12B	7320	1830	79.5 / 64.6	56.0 / 55.0	212	190	42	46	56	50.8	55.0	34	4	180	16
RTU-13A	7440	1860	79.5 / 64.6	56.0 / 55.0	215	193	43	46	56	50.8	55.0	35	4	180	16
RTU-13B	7440	1860	79.5 / 64.6	56.0 / 55.0	215	193	43	46	56	50.8	55.0	35	4	180	16
RTU-14A	7360	1840	79.5 / 64.6	56.0 / 55.0	213	191	43	46	56	50.8	55.0	35	4	180	16
RTU-14B	7360	1840	79.5 / 64.6	56.0 / 55.0	213	191	43	46	56	50.8	55.0	35	4	180	16

																	AIR H	ANDL	ING (	JNIT	- HY	RDON	IIC C	OOL/S	STEA	$AM \vdash$	HEAT WI	TH E	ENER	<b>GY RI</b>	ECO\	/ERY																	
						SUPPI	PLY FAN MOTO	OR DATA						COOLING (	COIL						STE	AM COIL DATA												ENERGY	RECOVERY										ELECTRICAL DATA	íA 🔼			
TAG	LOCATION	SEDVICE	CEM OA	MIN OA	FCD	TCD						TOTAL	CENCIDI E	ADD		Γ\Λ/Τ   I\Λ/Τ	WDD MI	I MAY F	ACE	TIAT	ADD	INII ET DDI	TCC	MINI	04					WINTER								SUMMER	}				WF	£IGHT		× 5	MANUFACTURER &	MODEL#	-MADKG
IAG	LOCATION	SERVICE	CFIVI OA	CFM CFM	(IN-WG)	(IN-WG) FA	AN TYPE BH	IP RPM	HP QTY.	EAT DB/WB (°F)	LAT DB/WB (	(°F)   MBH	MBH (	IN-WG) GPI	M FLUID TYPE	(°F) (°F)	(FT) ROV	VS VELOCIT	Y (FPM) (°F	(°F)	MBH (IN-WG	G) (PSIG)	LB/I	HR ROWS	CFM RAC	OA	A DB (°F) OA WB (°F)	RA DB (°F)	RA WB (°F)	LDB (°F)	LWB (°F)	TOTAL EFF %	TOTAL MBH RECOVERED	OA DB (°F)	OA WB (°F)	RA DB (°F)	RA WB (°F)	LDB (°F)	LWB (°F)	TOTAL EFF%	TOTAL MBH RECOVERED	APD (IN-WG)	HP (L'	(LBS) VOLTAG	JE PH FLA MC/	A MOCP	(BASIS OF DESI	IGN)	WARNS
AHU-1	PENTHOUSE	SHAFT #1	41585 10	35 0	4.00	5.55 I	PLUG 6.2	22 2206	6.84 8	79.6 / 64.9	55.3 / 54.3	3 1332.2	1115.3	0.65 26	5 WATER	46.0 56.0	13.21 4	50	51.	2 79.0 1	1253.2 0.13	8.00	13	10 2	10783 101	0185	-1 -1	68	51.5	45	38	73	613.7	88	72	79	64	81	67	73	188.4	0.74	0.50 17	7,300 460	3 92 115	5 125 A	NNEX AIR ERP-I-40-	<sub>/</sub> -EW09-H-C	1, 2, 3
AHU-2	PENTHOUSE	SHAFT #1	36590 91	0 9150	4.00	5.27 I	PLUG 5.2	23 2464	5.75 8	79.6 / 64.9	55.5 / 54.4	1162.2	969.5	0.49 23	2 WATER	46.0 56.0	10.25 4	50	50.	8 80.4 1	1172.5 0.10	8.00	122	25 2	9717 915	9150	-1 -1	68	51.5	45	38	74	553.4	88	72	79	64	81	67	74	174.1	0.67	0.50 17	7,200 460	3 85 10	7 110 A	NNEX AIR ERP-I-40	-EW09-H-C	1, 2, 3
AHU-3	PENTHOUSE	SHAFT #1	35610 89	0 8910	4.00	5.10 I	PLUG 4.9	94 2417	5.43 8	79.6 / 64.8	56.0 / 55.0	1063.1	924.4	0.36 212	2 WATER	46.0 56.0	7.37 4	50	50.	8 80.8 1	1155.3 0.10	8.00	120	08 2	9470 89	3910	-1 -1	68	51.5	45	38	75	540.1	88	72	79	64	81	67	75	170.8	0.65	0.50 17	7,200 460	( 3 82 10°	.3 110 \ Ar	NNEX AIR ERP-I-40	-EW09-H-C	1, 2, 3
AHU-4	PENTHOUSE	SHAFT #1	43915 110	00 11000	4.00	5.70 I	PLUG 6.7	76 2262	7.43 8	79.7 / 64.9	55.5 / 54.5	5 1384.3	1169.3	0.71 270	6 WATER	46.0 56.0	14.18 4	50	50.	8 78.0 1	1292.3 0.14	8.00	135	51 2	11457 110	1000	-1 -1	68	51.5	45	37	71	657.4	88	72	79	64	82	67	71	199.0	0.80	0.50 17	7,500 460	3 97 12	.1 125 \( \frac{1}{4} \)	NNEX AIR ERP-I-40-	-EW09-H-C	1, 2, 3
AHU-5	PENTHOUSE	SHAFT #2 & #3	33235 83	5 8305	4.00	5.00 I	PLUG 4.5	51 2351	4.96 8	79.6 / 65.3	55.9 / 55.0	1044.4	869.3	0.33 208	8 WATER	46.0 56.0	7.13 4	50	50.	9 81.8 1	1112.0 0.09	8.00	116	62 2	8846 830	305	-1 -1	68	51.5	45	38	75	505.3	88	72	79	64	81	67	75	161.8	0.60	0.50 17	7,200 460	3 78 98	100 → Ar	NNEX AIR ERP-I-40	-EW09-H-C	1, 2, 3
AHU-6	PENTHOUSE	SHAFT #2 & #3	33080 82	0 8205	4.00	5.00 I	PLUG 4.4	49 2348	4.94 8	79.6 / 64.8	55.7 / 54.7	7 1011.2	872.0	0.33 20	1 WATER	46.0 56.0	6.71 4	50	50.	9 81.9 1	1109.1 0.09	8.00	118	59 2	8790 825	3250	-1 -1	68	51.5	45	38	76	501.9	88	72	79	64	81	67	76	160.8	0.60	0.50 17	7,200 460	3 78 97	/ 100 ) Ar	NNEX AIR ERP-I-40	-EW09-H-C	1, 2, 3
AHU-7	PENTHOUSE	SHAFT #4	34510 86	0 8650	4.00	5.06 I	PLUG 4.7	75 2387	5.22 8	79.6 / 64.8	55.9 / 54.9	1040.8	901.8	0.35 20	7 WATER	46.0 56.0	7.08 4	50	50.	8 81.2 1	1135.7 0.09	8.00	118	87 2	9202 865	3650	-1 -1	68	51.5	45	38	75	527.0	88	72	79	64	81	67	75	166.6	0.63	0.50 16	<i>3</i> ,900 460	( 3 81 10′	1 110 \(\frac{1}{4}\)	NEX AIR ERP-I-40	-EW09-H-C	1, 2, 3
AHU-8	PENTHOUSE	SHAFT #4	32180 80	0 8050	4.00	4.97 I	PLUG 4.3	33 2323	4.77 8	79.6 / 64.8	55.5 / 54.6	992.2	853.0	0.32 198	8 WATER	46.0 56.0	6.48 4	50	50.	8 82.2 1	1092.9 0.08	8.00	114	42 2	8584 805	3050	-1 -1	68	51.5	45	38	76	490.5	88	72	79	64	81	67	76	157.9	0.59	0.50 16	ò,900 460	3 76 95	Al 🗸 100 د	NNEX AIR ERP-I-40	-EW09-H-C	1, 2, 3
AHU-9	PENTHOUSE	SHAFT #5	36575 91	5 0	4.00	5.27 I	PLUG 5.2	23 2464	5.75 8	79.6 / 64.9	55.5 / 54.4	1161.8	969.2	0.49 23	2 WATER	46.0 56.0	10.25 4	50	50.	8 80.4 1	1172.2 0.10	8.00	122	25 2	9732 916	165	-1 -1	68	51.5	45	38	74	554.3	88	72	79	64	81	67	74	174.5	0.67	0.50 16	<i>3</i> ,900 460	3 85 10	7 110 A	NEX AIR ERP-I-40	-EW09-H-C	1, 2, 3
AHU-10	PENTHOUSE	SHAFT #5	35665 89	0 8900	4.00	5.11 I	PLUG 4.9	95 2420	5.45 8	79.6 / 64.8	56.0 / 55.0	1064.1	925.4	0.37 213	2 WATER	46.0 56.0	7.38 4	50	50.	9 80.8 1	1155.8 0.10	8.00	120	08 2	9459 890	3900	-1 -1	68	51.5	45	38	75	539.5	88	72	79	64	81	67	75	170.6	0.65	0.50 16,	6,900 460	3 82 10	3 110 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NEX AIR ERP-I-40	-EW09-H-C	1, 2, 3
1 PROVIDE WI	H SINGLE POINT POWE	R CONNECTION A	AND MANUFACTI	RER'S VED PER	FAN BANK ANI	D ENERGY RE	FCOVERY WH	1FFI																																									

1. PROVIDE WITH SINGLE POINT POWER CONNECTION AND MANUFACTURER'S VFD PER FAN BANK AND ENERGY RECOVERY WHEEL.
2. UNIT TO SHIP IN SECTIONS. SECTIONS SHALL BE MOVED FROM ROOF THROUGH WALL OPENINGS OF EXTERIOR PENTHOUSE WALL INTO PENTHOUSE. MAXIMUM SECTION DIMENSIONS: 66"x87"x123". ONCE SECTIONS OF AHU ARE ASSEMBLED IN THE PENTHOUSE, PROVIDE 3RD PARTY AIR LEAKAGE

TESTING AND PROVIDE TEST RESULTS IN THE FORM OF A SUBMITTAL.
3. CONTRACTOR SHALL COORDINATE RIGHT SIDE/LEFT SIDE HANDING OF UNIT CONNECTIONS WITH SERVICE CLEARANCE REQUIREMENTS OF ADJACENT OBSTRUCTIONS AND OTHER EQUIPMENT.

												NDU (	CTIC	N UN	IIT										
			DDIMAD	, MINIMUN	1	PDECOURE			CO	OLING PERFO	RMANCE							HEATING P	ERFORMANCE					MANUEACTURED & MOREL #	
TAG	LOCATION	QTY.	PRIMARY AIR CFM		AIR   IINLE I	PRESSURE (IN WG)	BTU	GPM	FLUID TYPE	PRIMARY EAT DB (°F)	LAT DB (°F)	EWT (°F)	LWT (°F)	WPD (FT)	BTU	BOUYANCY BTU	GPM	FLUID TYPE	PRIMARY EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	WPD (FT)	MANUFACTURER & MODEL # (BASIS OF DESIGN)	REMARKS
IU-1	NE - 8TH FLOOR	38	40	15		1.28	3,177	1.0	SECONDARY WATER	56.0	65.0	52.0	56.0	6.00	10,289	1,950	1.0	SECONDARY WATER	55.0	105.0	180.0	158.0	6.00	LTG AIR TECH SYSTEMS HFG-0E/2 630	1, 2, 3, 4, 5, 6, 7, 8
IU-2	NW - 8TH FLOOR	38	40	15		1.28	3,177	1.0	SECONDARY WATER	56.0	65.0	52.0	56.0	6.00	10,289	1,950	1.0	SECONDARY WATER	55.0	105.0	180.0	158.0	6.00	LTG AIR TECH SYSTEMS HFG-0E/2 630	1, 2, 3, 4, 5, 6, 7, 8
IU-3	NE - 9TH FLOOR	38	40	15		1.28	3,177	1.0	SECONDARY WATER	56.0	65.0	52.0	56.0	6.00	10,289	1,950	1.0	SECONDARY WATER	55.0	105.0	180.0	158.0	6.00	LTG AIR TECH SYSTEMS HFG-0E/2 630	1, 2, 3, 4, 5, 6, 7, 8
IU-4	NW - 9TH FLOOR	38	40	15		1.28	3,177	1.0	SECONDARY WATER	56.0	65.0	52.0	56.0	6.00	10,289	1,950	1.0	SECONDARY WATER	55.0	105.0	180.0	158.0	6.00	LTG AIR TECH SYSTEMS HFG-0E/2 630	1, 2, 3, 4, 5, 6, 7, 8
IU-5	SE - 8TH FLOOR	38	40	15		1.28	3,177	1.0	SECONDARY WATER	56.0	65.0	52.0	56.0	6.00	10,289	1,950	1.0	SECONDARY WATER	55.0	105.0	180.0	158.0	6.00	LTG AIR TECH SYSTEMS HFG-0E/2 630	1, 2, 3, 4, 5, 6, 7, 8
IU-6	SW - 8TH FLOOR	38	40	15		1.28	3,177	1.0	SECONDARY WATER	56.0	65.0	52.0	56.0	6.00	10,289	1,950	1.0	SECONDARY WATER	55.0	105.0	180.0	158.0	6.00	LTG AIR TECH SYSTEMS HFG-0E/2 630	1, 2, 3, 4, 5, 6, 7, 8
IU-7	SE - 9TH FLOOR	38	40	15		1.28	3,177	1.0	SECONDARY WATER	56.0	65.0	52.0	56.0	6.00	10,289	1,950	1.0	SECONDARY WATER	55.0	105.0	180.0	158.0	6.00	LTG AIR TECH SYSTEMS HFG-0E/2 630	1, 2, 3, 4, 5, 6, 7, 8
IU-8	SW - 9TH FLOOR	38	40	15		1.28	3,177	1.0	SECONDARY WATER	55.0	65.0	52.0	56.0	6.00	10,289	1,950	1.0	SECONDARY WATER	55.0	105.0	180.0	158.0	6.00	LTG AIR TECH SYSTEMS HFG-0E/2 630	1, 2, 3, 4, 5, 6, 7, 8

PROVIDE WITH MANUFACTURER'S CUSTOM BUILT CONTINUOUS ENCLOSURE.
 DUCT CONNECTION APPROXIMATELY 8 INCHES AFF.

3. PROVIDE WITH MANUFACTURER'S PRIMARY SUPPLY DUCT MOTORIZED DAMPER AND CONTROLLER.
4. PROVIDE 120V TO 24V TRANSFORMER AT PRIMARY SUPPLY DUCT MOTORIZED DAMPER CONTROLLER. SEE DUCT PLANS FOR LOCATIONS AND QUANTITY OF DAMPERS. 120V POWER TO TRANSFORMER IS PROVIDED BY E-CONTRACT. PROVIDE ALL 24V CONTROL WIRING FROM TRANSFORMER TO CONTROLS DEVICES SHOWN ON CONTROLS DIAGRAMS. LOCATE MOTORIZED DAMPER CONTROLLER WITHIN INDUCTION UNIT CONTINUOUS ENCLOSURE, COORDINATE EXACT LOCATIONS WITH E-CONTRACT.

PROVIDE WITH MANUFACTURER'S FLOOR STAND.
 CONTRACTOR SHALL COORDINATE HANDING OF UNIT WITH UNIT CONNECTIONS.

7. MANUFACTURER TO SIZE NOZZLES BETWEEN SERIES UNITS TO ACHIEVE PRIMARY AIR CFM.
 8. NOISE CRITERIA FOR SINGLE UNIT: 18 NC, NOISE CRITERIA FOR SECOND UNIT DUCTED IN SERIES: 25 NC, NOISE CRITERIA FOR THIRD UNIT DUCTED IN SERIES: 33 NC.

						PUM	P								
TAG	LOCATION	SERVICE	FLUID	TYPE	GPM	FT HD	EFF %	HP	BHP	ELECTR VOLT	CAL PH	HZ	RPM	MANUFACTURER & MODEL # (BASIS OF DESIGN)	REMARKS
P-1	BASEMENT MECHANICAL ROOM	PRIMARY CHW - BLDG 8	WATER	VERTICAL INLINE	2700	150	85.8	150	119	460	3	60	1755	BELL & GOSSETT / E-80SC 10x10x13.5	1
P-2	BASEMENT MECHANICAL ROOM	PRIMARY CHW - BLDG 8	WATER	VERTICAL INLINE	2700	150	85.8	150	119	460	3	60	1755	BELL & GOSSETT / E-80SC 10x10x13.5	1
P-9	BASEMENT MECHANICAL ROOM	REHEAT	WATER	VERTICAL INLINE	450	90	75.8	20	13.1	460	3	60	1690	BELL & GOSSETT / E-80SC 5x5x11	1
P-10	BASEMENT MECHANICAL ROOM	REHEAT	WATER	VERTICAL INLINE	450	90	75.8	20	13.1	460	3	60	1690	BELL & GOSSETT / E-80SC 5x5x11	1
P-13	PENTHOUSE	HEATING HOT WATER	40% PROPYLENE GLYCOL / WATER	VERTICAL INLINE	224	40	66.8	5	3.36	460	3	60	1614	BELL & GOSSETT / E-80SC 3x3x9.5C	1
P-14	PENTHOUSE	HEATING HOT WATER	40% PROPYLENE GLYCOL / WATER	VERTICAL INLINE	224	40	66.8	5	3.36	460	3	60	1614	BELL & GOSSETT / E-80SC 3x3x9.5C	1
SWP-1	BASEMENT MECHANICAL ROOM	SECONDARY WATER	40% PROPYLENE GLYCOL / WATER	VERTICAL INLINE	735	125	72.7	50	29.4	460	3	60	1634	BELL & GOSSETT / E-80SC 6x6x13.5	1
SWP-2	BASEMENT MECHANICAL ROOM	SECONDARY WATER	40% PROPYLENE GLYCOL / WATER	VERTICAL INLINE	735	125	72.7	50	29.4	460	3	60	1634	BELL & GOSSETT / E-80SC 6x6x13.5	1
SWP-3	BASEMENT MECHANICAL ROOM	SECONDARY WATER	40% PROPYLENE GLYCOL / WATER	VERTICAL INLINE	735	125	72.7	50	29.4	460	3	60	1634	BELL & GOSSETT / E-80SC 6x6x13.5	1

1. VFD AND DISCONNECT BY E-CONTRACT.

											VAV B	OX											
TAG	LOCATION	SERVICE	TYPE	UNIT SIZE	INLET SIZE	PRIMA MAX CFM	RY AIR MIN CFM	INLET PRESSURE (IN WG)	MAX PRESSURE DROP (IN WG)	RAD NC	DIS NC	MBH	GPM	FLUID TYPE	HEA <sup>*</sup> EAT (°F)	TING COIL LAT (°F)	APD (IN WG)	EWT (°F)	LWT (°F)	WPD (FT)	VOLTAGE	MANUFACTURER & MODEL # (BASIS OF DESIGN)	REMARKS
VAV-801	SEE PLANS	SEE PLANS	SINGLE DUCT	10	10	950	760	2.0	1.75	24	20	33.2	1.8	WATER	55.0	95.0	0.36	180.0	141.2	0.68	120 V	NAILOR D3001Q	1, 2, 3
VAV-802	SEE PLANS	SEE PLANS	SINGLE DUCT	10	10	950	760	2.0	1.75	24	20	33.2	1.8	WATER	55.0	95.0	0.36	180.0	141.2	0.68	120 V	NAILOR D3001Q	1, 2, 3
VAV-803 VAV-804	SEE PLANS SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT SINGLE DUCT	14	14	250 1705	250 1135	2.0	1.75 1.75	19 30	18	10.9 49.0	1.0 1.9	WATER WATER	55.0 55.0	95.0 95.0	0.02 0.39	180.0 180.0	157 126.7	0.78 1.09	120 V 120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3 1, 2, 3
VAV-805	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1705	1135	2.0	1.75	30	21	49.0	1.9	WATER	55.0	95.0	0.39	180.0	126.7	1.09	120 V	NAILOR D3001Q	1, 2, 3
VAV-806	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1700	1135	2.0	1.75	30	21	49.0	1.9	WATER	55.0	95.0	0.39	180.0	126.7	1.09	120 V	NAILOR D3001Q	1, 2, 3
VAV-807	SEE PLANS	SEE PLANS	SINGLE DUCT	12	10	500	400	2.0	1.75	20	15	17.6	1.6	WATER	55.0	95.0	0.04	180.0	157.5	2.56	120 V	NAILOR D3001Q	1, 2, 3
VAV-808 VAV-809	SEE PLANS SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT SINGLE DUCT	14	14	1760 1700	1180 1140	2.0	1.75 1.75	30 30	23	50.8 50.2	2.0	WATER WATER	55.0 55.0	95.0 95.0	0.41	180.0 180.0	128.2 128.8	1.24	120 V 120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3 1, 2, 3
VAV-810	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1700	1140	2.0	1.75	30	21	50.2	2.0	WATER	55.0	95.0	0.39	180.0	128.8	1.24	120 V	NAILOR D3001Q	1, 2, 3
VAV-811	SEE PLANS	SEE PLANS	SINGLE DUCT	7	7	525	420	2.0	1.75	25	24	18.4	0.7	WATER	55.0	95.0	0.17	180.0	127.8	0.11	120 V	NAILOR D3001Q	1, 2, 3
VAV-812	SEE PLANS	SEE PLANS	SINGLE DUCT	12	12	1475	990	2.0	1.75	28	24	43.3	2.1	WATER	55.0	95.0	0.50	180.0	138.4	1.15	120 V	NAILOR D3001Q	1, 2, 3
VAV-813 VAV-814	SEE PLANS SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT SINGLE DUCT	12 12	12	1475 1460	990 980	2.0	1.75 1.75	28 28	24	43.3 42.4	2.1	WATER WATER	55.0 55.0	95.0 95.0	0.50 0.49	180.0 180.0	138.4 136.7	1.15	120 V 120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3 1, 2, 3
VAV-815	SEE PLANS	SEE PLANS	SINGLE DUCT	12	12	1475	990	2.0	1.75	28	24	43.3	2.1	WATER	55.0	95.0	0.50	180.0	138.4	1.15	120 V	NAILOR D3001Q	1, 2, 3
VAV-816	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1595	1070	2.0	1.75	29	20	46.8	1.8	WATER	55.0	95.0	0.35	180.0	125.5	0.96	120 V	NAILOR D3001Q	1, 2, 3
VAV-817	SEE PLANS	SEE PLANS	SINGLE DUCT	9	9	1100	735	2.0	1.75	28	26	32.1	1.6	WATER	55.0	95.0	0.47	180.0	139.6	0.59	120 V	NAILOR D3001Q	1, 2, 3
VAV-818 VAV-819	SEE PLANS SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT SINGLE DUCT	12	12	1370 1020	915 1020	2.0	1.75 1.75	26 24	24	39.6 44.1	1.8 3.4	WATER WATER	55.0 55.0	95.0 95.0	0.44	180.0 180.0	133.8 153.4	0.79 2.44	120 V 120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3 1, 2, 3
VAV-819	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1590	1065	2.0	1.75	29	20	46.7	1.8	WATER	55.0	95.0	0.35	180.0	125.6	0.96	120 V	NAILOR D3001Q	1, 2, 3
VAV-821	SEE PLANS	SEE PLANS	SINGLE DUCT	6	6	500	500	2.0	1.75	25	21	21.9	1.8	WATER	55.0	95.0	0.32	180.0	154.4	0.45	120 V	NAILOR D3001Q	1, 2, 3
VAV-822	SEE PLANS	SEE PLANS	SINGLE DUCT	12	12	1380	930	2.0	1.75	28	24	40.7	1.9	WATER	55.0	95.0	0.45	180.0	135.7	0.90	120 V	NAILOR D3001Q	1, 2, 3
VAV-823 VAV-824	SEE PLANS SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT SINGLE DUCT	12	12	1380 250	930 125	2.0	1.75 1.75	28 19	24 18	40.7 5.4	1.9 0.4	WATER WATER	55.0 55.0	95.0 95.0	0.45 0.04	180.0 180.0	135.7 148.5	0.90	120 V 120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3 1, 2, 3
VAV-825	SEE PLANS	SEE PLANS	SINGLE DUCT	6	6	260	130	2.0	1.75	19	18	5.7	0.4	WATER	55.0	95.0	0.05	180.0	151.6	0.11	120 V	NAILOR D3001Q	1, 2, 3
VAV-826	SEE PLANS	SEE PLANS	SINGLE DUCT	12	12	1450	1160	2.0	1.75	28	24	50.2	2.9	WATER	55.0	95.0	0.49	180.0	144.6	2.09	120 V	NAILOR D3001Q	1, 2, 3
VAV-827	SEE PLANS	SEE PLANS	SINGLE DUCT	6	6	265	130	2.0	1.75	19	19	5.7	0.4	WATER	55.0	95.0	0.05	180.0	151.6	0.11	120 V	NAILOR D3001Q	1, 2, 3
VAV-828 VAV-829	SEE PLANS SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT SINGLE DUCT	9	9	685 360	685 360	2.0	1.75 1.75	22 23	24 19	29.6 15.8	0.9	WATER WATER	55.0 55.0	95.0 95.0	0.21 0.18	180.0 180.0	136 143.1	0.43	120 V 120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3 1, 2, 3
VAV-830	SEE PLANS	SEE PLANS	SINGLE DUCT	6	6	350	280	2.0	1.75	23	19	12.2	0.6	WATER	55.0	95.0	0.17	180.0	134.9	0.12	120 V	NAILOR D3001Q	1, 2, 3
VAV-831	SEE PLANS	SEE PLANS	SINGLE DUCT	8	6	300	240	2.0	1.75	21	18	10.5	0.9	WATER	55.0	95.0	0.03	180.0	154.8	0.60	120 V	NAILOR D3001Q	1, 2, 3
VAV-832	SEE PLANS	SEE PLANS	SINGLE DUCT	6	6	260	130	2.0	1.75	19	18	5.7	0.4	WATER	55.0	95.0	0.05	180.0	151.6	0.11	120 V	NAILOR D3001Q	1, 2, 3
VAV-901 VAV-902	SEE PLANS SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT SINGLE DUCT	10	10	965 960	770 770	2.0	1.75 1.75	24 24	20	33.4 33.4	1.8 1.8	WATER WATER	55.0 55.0	95.0 95.0	0.37	180.0 180.0	141	0.68	120 V 120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3 1, 2, 3
VAV-903	SEE PLANS	SEE PLANS	SINGLE DUCT	8	6	250	250	2.0	1.75	19	18	10.9	1.0	WATER	55.0	95.0	0.02	180.0	157	0.78	120 V	NAILOR D3001Q	1, 2, 3
VAV-904	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1705	1135	2.0	1.75	30	21	49.0	1.9	WATER	55.0	95.0	0.39	180.0	126.7	1.09	120 V	NAILOR D3001Q	1, 2, 3
VAV-905	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1705	1135	2.0	1.75	30	21	49.0	1.9	WATER	55.0	95.0	0.39	180.0	126.7	1.09	120 V	NAILOR D3001Q	1, 2, 3
VAV-906 VAV-907	SEE PLANS SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT SINGLE DUCT	14	14	1705 475	1135 380	2.0	1.75 1.75	30 20	21 15	49.0 16.4	1.9 2.8	WATER WATER	55.0 55.0	95.0 95.0	0.39 0.05	180.0 180.0	126.7 168	1.09 6.51	120 V 120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3 1, 2, 3
VAV-908	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1800	1200	2.0	1.75	30	23	52.2	2.1	WATER	55.0	95.0	0.43	180.0	129.9	1.39	120 V	NAILOR D3001Q	1, 2, 3
VAV-909	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1580	1060	2.0	1.75	29	20	46.6	1.8	WATER	55.0	95.0	0.35	180.0	125.7	0.96	120 V	NAILOR D3001Q	1, 2, 3
VAV-910	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1500	1000	2.0	1.75	29	19	43.1	1.5	WATER	55.0	95.0	0.32	180.0	121.5	0.71	120 V	NAILOR D3001Q	1, 2, 3
VAV-911 VAV-912	SEE PLANS SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT SINGLE DUCT	8 12	12	500 1475	400 990	2.0	1.75 1.75	22 28	24	17.3 43.3	0.7 2.1	WATER WATER	55.0 55.0	95.0 95.0	0.16 0.50	180.0 180.0	125.6 138.4	0.09 1.15	120 V 120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3 1, 2, 3
VAV-912 VAV-913	SEE PLANS	SEE PLANS	SINGLE DUCT	12	12	1475	990	2.0	1.75	28	24	43.3	2.1	WATER	55.0	95.0	0.50	180.0	138.4	1.15	120 V	NAILOR D3001Q	1, 2, 3
VAV-914	SEE PLANS	SEE PLANS	SINGLE DUCT	12	12	1475	990	2.0	1.75	28	24	43.3	2.1	WATER	55.0	95.0	0.50	180.0	138.4	1.15	120 V	NAILOR D3001Q	1, 2, 3
VAV-915	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1750	1175	2.0	1.75	30	23	50.8	2.0	WATER	55.0	95.0	0.41	180.0	128.2	1.24	120 V	NAILOR D3001Q	1, 2, 3
VAV-916 VAV-917	SEE PLANS SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT SINGLE DUCT	14	14	1540 1100	1030 735	2.0	1.75 1.75	29 25	20	44.9 32.1	1.6 1.6	WATER WATER	55.0 55.0	95.0 95.0	0.33	180.0 180.0	123.7 139.6	0.83	120 V 120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3 1, 2, 3
VAV-917 VAV-918	SEE PLANS	SEE PLANS	SINGLE DUCT	12	10	1365	910	2.0	1.75	28	26	39.5	1.8	WATER	55.0	95.0	0.44	180.0	133.9	0.39	120 V	NAILOR D3001Q	1, 2, 3
VAV-919	SEE PLANS	SEE PLANS	SINGLE DUCT	12	10	1020	1020	2.0	1.75	24	21	44.5	2.3	WATER	55.0	95.0	0.27	180.0	139.5	1.28	120 V	NAILOR D3001Q	1, 2, 3
VAV-920	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1535	1030	2.0	1.75	29	20	44.9	1.6	WATER	55.0	95.0	0.33	180.0	123.7	0.83	120 V	NAILOR D3001Q	1, 2, 3
VAV-921 VAV-922	SEE PLANS SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT SINGLE DUCT	8 12	12	595 1400	465 940	2.0	1.75 1.75	23 28	26 24	20.3 40.9	0.8 1.9	WATER WATER	55.0 55.0	95.0 95.0	0.22 0.46	180.0 180.0	130.9 135.5	0.15 0.90	120 V 120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3
VAV-922 VAV-923	SEE PLANS	SEE PLANS	SINGLE DUCT	14	14	1545	1035	2.0	1.75	29	20	45.0	1.6	WATER	55.0	95.0	0.46	180.0	123.6	0.90	120 V	NAILOR D3001Q	1, 2, 3
VAV-924	SEE PLANS	SEE PLANS	SINGLE DUCT	6	6	250	125	2.0	1.75	19	18	5.4	0.4	WATER	55.0	95.0	0.04	180.0	148.5	0.08	120 V	NAILOR D3001Q	1, 2, 3
VAV-925	SEE PLANS	SEE PLANS	SINGLE DUCT	6	6	260	130	2.0	1.75	19	18	5.7	0.4	WATER	55.0	95.0	0.05	180.0	151.6	0.11	120 V	NAILOR D3001Q	1, 2, 3
VAV-926 VAV-927	SEE PLANS SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT SINGLE DUCT	12	12	1450 265	1160 130	2.0	1.75 1.75	28 19	24 19	50.2 5.7	2.9 0.4	WATER WATER	55.0 55.0	95.0 95.0	0.49	180.0	144.6 151.6	2.09	120 V 120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3 1, 2, 3
VAV-927 VAV-928	SEE PLANS	SEE PLANS SEE PLANS	SINGLE DUCT	9	9	705	705	2.0	1.75 1.75	22	21	30.8	1.5	WATER	55.0	95.0 95.0	0.05 0.22	180.0 180.0	138	0.11	120 V	NAILOR D3001Q NAILOR D3001Q	1, 2, 3
VAV-929	SEE PLANS	SEE PLANS	SINGLE DUCT	6	6	365	365	2.0	1.75	23	19	15.9	0.9	WATER	55.0	95.0	0.19	180.0	142.9	0.12	120 V	NAILOR D3001Q	1, 2, 3
VAV-930	SEE PLANS	SEE PLANS	SINGLE DUCT	6	6	350	280	2.0	1.75	23	19	12.2	0.6	WATER	55.0	95.0	0.17	180.0	134.9	0.05	120 V	NAILOR D3001Q	1, 2, 3
VAV-931	SEE PLANS	SEE PLANS	SINGLE DUCT	8	6	300	240	2.0	1.75	21	18	10.5	0.9	WATER	55.0 55.0	95.0	0.03	180.0	154.8	0.60	120 V	NAILOR D3001Q	1, 2, 3
VAV-932	SEE PLANS	SEE PLANS	SINGLE DUCT	6	6	260	130	2.0	1.75	19	18	5.7	0.4	WATER	55.0	95.0	0.05	180.0	151.6	0.11	120 V	NAILOR D3001Q	1, 2, 3

1	1.	PROVIDE 120V TO 24V TRANSFORMER AT VAV TERMINAL UNIT. 120V POWER TO TRANSFORMER IS PROVIDED BY E-CONTRACT. PROVIDE ALL 24V CONTROL WIRING FROM TRANSFORMER TO CONTROLS DEVICES SHOWN ON CONTROLS DIAGRAMS.
2	2.	PROVIDE MANUFACTURER'S INTEGRAL 3FT DISSIPATIVE SILENCER. SOUND PERFORMANCE INCLUDES DISSIPATIVE SILENCER.
3	3.	CONTRACTOR SHALL COORDINATE HANDING OF UNIT WITH UNIT CONNECTIONS.

<u>.</u>	LOCATION	TYPE	TOTAL	BALANCE	TSP (IN WG)	ВНР	FAN RPM		FAN MO	OR DATA		MANUFACTURER & MODEL#	REMARKS
\G	LOCATION	1112	CFM	CFM	131 (114 440)	וווט	I AIN INI IVI	RPM	HP	VOLT	PH	(BASIS OF DESIGN)	NEIWANNO
RF-1	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	33,770	27,485	2.0	15.15	504	1760	20	460	3	LOREN COOK 540CA-SWSI	1, 2, 3
RF-2	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	27,440	24,375	2.0	15.70	811	1760	20	460	3	LOREN COOK 402CA-SWSI	1, 2, 3
RF-3	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	34,605	33,350	2.0	17.49	607	1760	20	460	3	LOREN COOK 490CA-SWSI	1, 2, 3
RF-4	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	34,625	29,765	2.0	15.70	508	1760	20	460	3	LOREN COOK 540CA-SWSI	1, 2, 3
RF-5	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	38,390	38,390	2.0	16.73	440	1760	20	460	3	LOREN COOK 600CA-SWSI	1, 2, 3
RF-6	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	55,255	55,255	2.0	28.20	381	1760	30	460	3	LOREN COOK 730CA-SWSI	1, 2, 3
RF-7	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	30,740	30,740	2.0	16.40	696	1760	20	460	3	LOREN COOK 445CA-SWSI	1, 2, 3
RF-8	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	38,290	38,290	2.0	16.68	439	1760	20	460	3	LOREN COOK 600CA-SWSI	1, 2, 3
RF-9	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	35,050	33,580	2.0	17.91	456	1760	20	460	3	LOREN COOK 600CA-SWSI	1, 2, 3
RF-10	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	41,960	41,960	2.0	17.93	386	1760	20	460	3	LOREN COOK 660CA-SWSI	1, 2, 3
TX-1	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	5,600	5,040	1.25	2.08	1228	1,725	3.0	460	3	LOREN COOK 210CA-SWSI	1, 2, 3
TX-2	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	11,440	11,440	1.25	4.92	1057	1,725	5.0	460	3	LOREN COOK 270CA-SWSI	1, 2, 3
EF-1	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	9,400	9,400	0.5	3.86	1413	1,725	5.0	460	3	LOREN COOK 225CA-SWSI	2, 3
EF-2	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	9,400	9,400	0.5	3.86	1413	1,725	5.0	460	3	LOREN COOK 225CA-SWSI	2, 3
EF-6	PENTHOUSE	BELT DRIVEN UTILITY SET, CENTRIFUGAL BLOWER WITH FLAT BLADE & AIRFOIL IMPELLER	8,450	8,450	0.85	2.26	809	1,725	3.0	460	3	LOREN COOK 270CA-SWSI	2, 3

							DIFFUSER				
TAG	LOCATION	SERVICE	TYPE	MAX CFM	FACE SIZE	NECK SIZE	PATTERN	APD (IN-WG)	MAX NC	MANUFACTURER & MODEL # (BASIS OF DESIGN)	REMARKS
ED-1	SEE PLANS	EXHAUST	LAY-IN	160	12X12	6"ø	4-WAY	0.04	20	NAILOR RNS	
ED-2	SEE PLANS	EXHAUST	LAY-IN	380	24x24	10"ø	4-WAY	0.03	20	NAILOR RNS	
RD-1	SEE PLANS	RETURN	LAY-IN	735	24X24	15"ø	4-WAY	0.23	20	NAILOR RNS	
RG-1	SEE PLANS	RETURN	DUCT MOUNTED	8730	50x50	48x48	SINGLE DEFLECTION 0° HORIZONTAL BLADES	0.02	30	NAILOR 51FH	
SD-1	SEE PLANS	SUPPLY	LAY-IN	160	24x24	6"ø	4-WAY	0.04	20	NAILOR RNSA	
SD-2	SEE PLANS	SUPPLY	LAY-IN	245	24x24	8"ø	4-WAY	0.03	20	NAILOR RNSA	
SD-3	SEE PLANS	SUPPLY	LAY-IN	370	24x24	10"ø	4-WAY	0.03	20	NAILOR RNSA	

			ELEC	CTRIC V	VALL HE	EATER		
TAC	LOCATION	TVDF	MDU		ELECTRICAL		MANUEACTURER & MOREL # (RACIC OF RECION)	DEMARKS
TAG	LOCATION	TYPE	MBH	KW	VOLT	PH	MANUFACTURER & MODEL # (BASIS OF DESIGN)	REMARKS
EH-1	FIRE PUMP RM B000	ELECTRIC WALL HEATER	5.12	1.5	120	1	QMARK AWH3150F	1, 2, 3
EH-2	VESTIBULE B001	ELECTRIC WALL HEATER	5.12	1.5	120	1	QMARK AWH3150F	1, 2, 3

PROVIDE WITH MANUFACTURER'S INTEGRAL THERMOSTAT.
 PROVIDE WITH MANUFACTURER'S LOW VOLTAGE RELAY FOR BMS COMPATIBILITY.
 PROVIDE WITH MANUFACTURER'S SURFACE MOUNTING FRAME.

DESIGN & CONSTRUCTION

CONSULTANTS:

CERTIFICATE OF AUTHORIZATION #: 0021745

UNIFORM CODE STATEMENT:
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT,

THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT.

**ENERGY CODE WRITTEN STATEMENT:** 

ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

HVAC

RENOVATE BUILDING 8, 8TH & 9TH FLOORS

STATE OFFICE BUILDING CAMPUS 1220 WASHINGTON AVENUE

ALBANY, NY
NEW YORK STATE OFFICE

OF GENERAL SERVICES

5 11/1/2024 ADDENDUM 5
A 5/8/2024 FINAL BID DOCUMENTS
MARK DATE DESCRIPTION

PROJECT NUMBER: 45382 - H

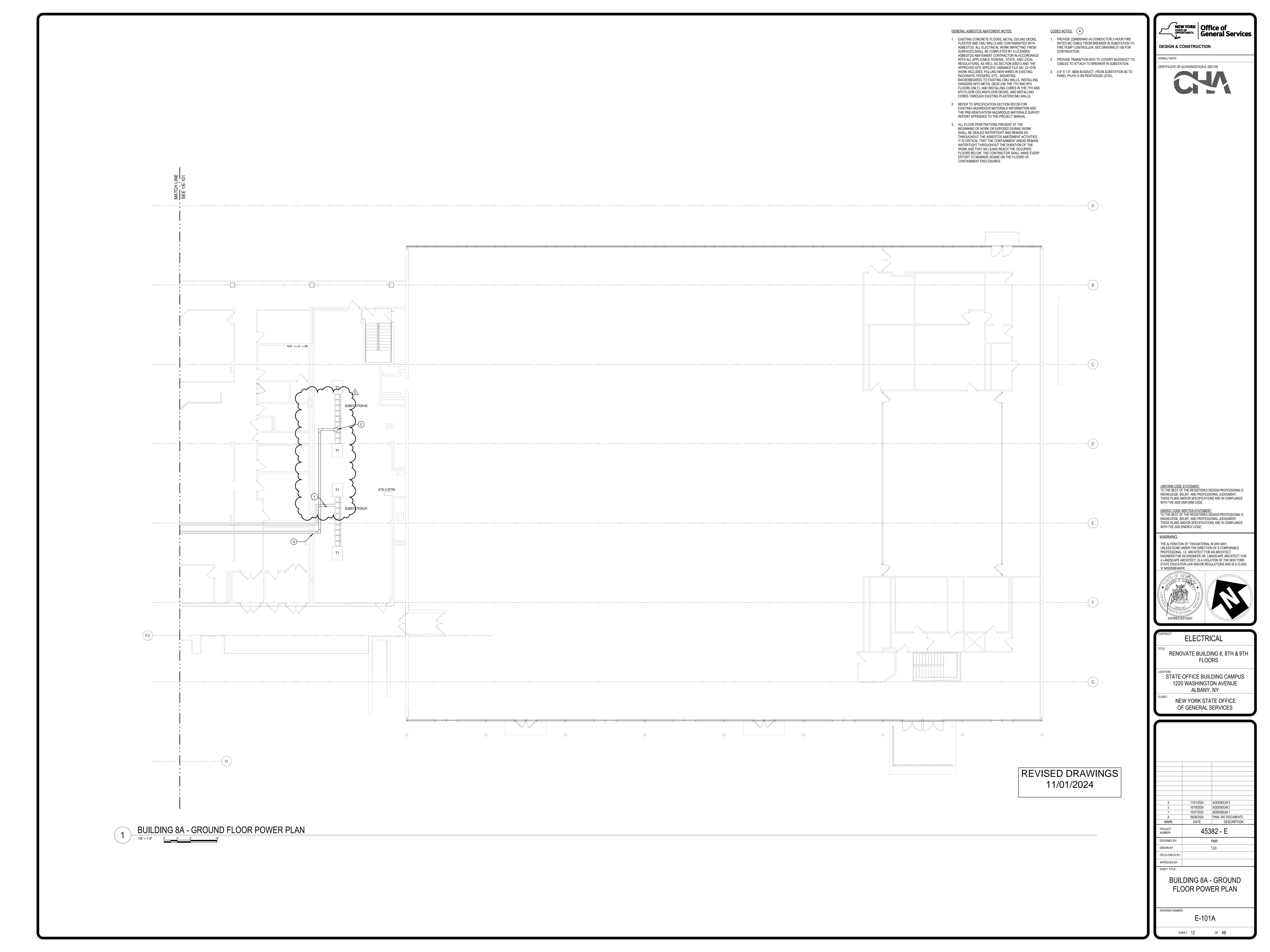
DESIGNED BY: SCS
DRAWN BY: KFM

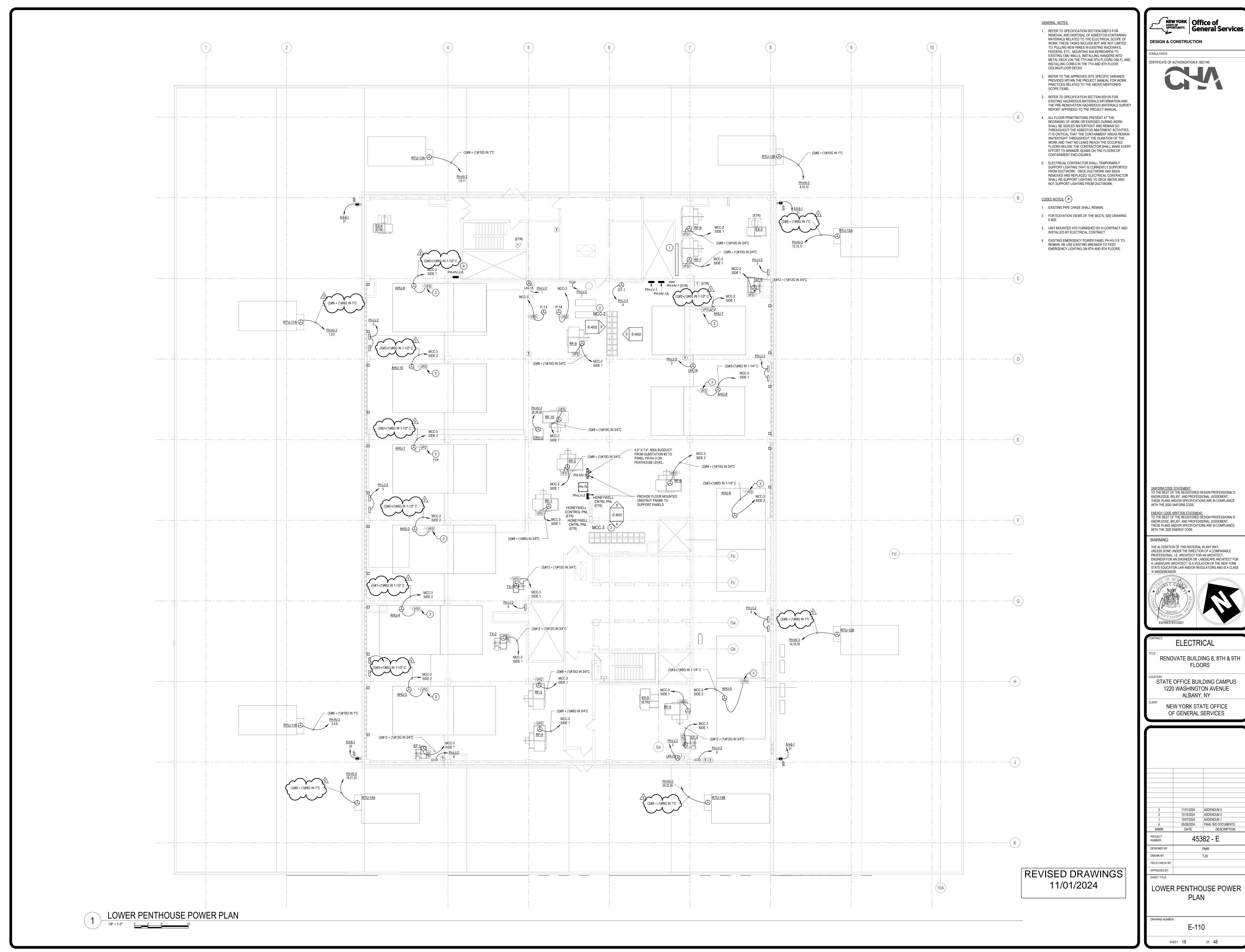
FIELD CHECK BY:
APPROVED BY:

SCHEDULES

DRAWING NUMBER:

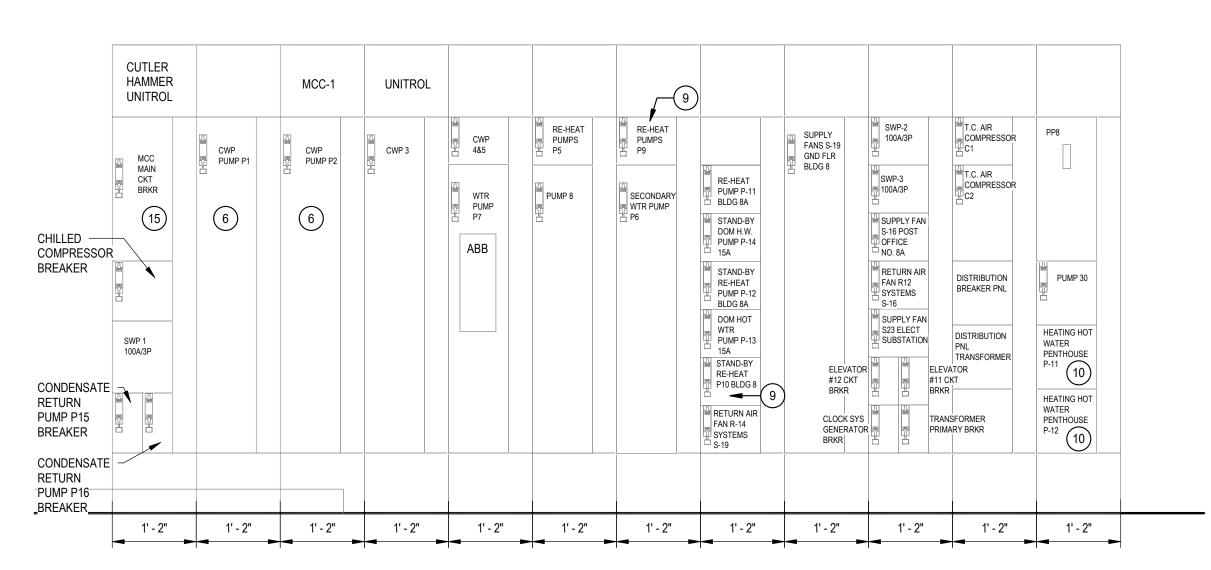
REVISED DRAWINGS 11/01/2024





RENOVATE BUILDING 8, 8TH & 9TH

FINAL BID DOCUMENTS DESCRIPTION



E-100 NOT TO SCALE

E-110 NOT TO SCALE

XFMR PRIMARY BRKR 100A ——————————————————————————————————	CUTLER HAMMER UNITROL  MCB 800A  15	MCC-2 (AHU-8) 100A SF8 175A	RETURN FAN RF-7 60A  9  SUPPLY FAN EXTERIOR NORTH EAST FLOORS 1-9 150A S13  (SPARE)	SUPPLY FAN S13 EXTERIOR FLOORS 1-9 150A	RETURN FAN RF-8 60A  SUPPLY FAN S11 EXT FLOORS 1-9 150A  (SPARE)	(AHU-9) 110A  5  SUPPLY FAN SP INTERIOR FLOORS 5-9 175A S9	SUPPLY FAN S7 INTERIOR FLOORS 1-4 200A	RFR-9 SYS. S9 & S11 100A  RFR-10 SYS. S10 100A  EXHAUST PENTHOUSE EF 3 15A  ES  PENTHOUSE EF 4 15A  ELEC MECH ELEV MECH RM CORE B  EF6 EXHAUSTFAN E6 15A	
	1' - 8"	1' - 8"	1' - 8"	1' - 8"	1' - 8"	1' - 8"	1' - 8"	1' - 8"	

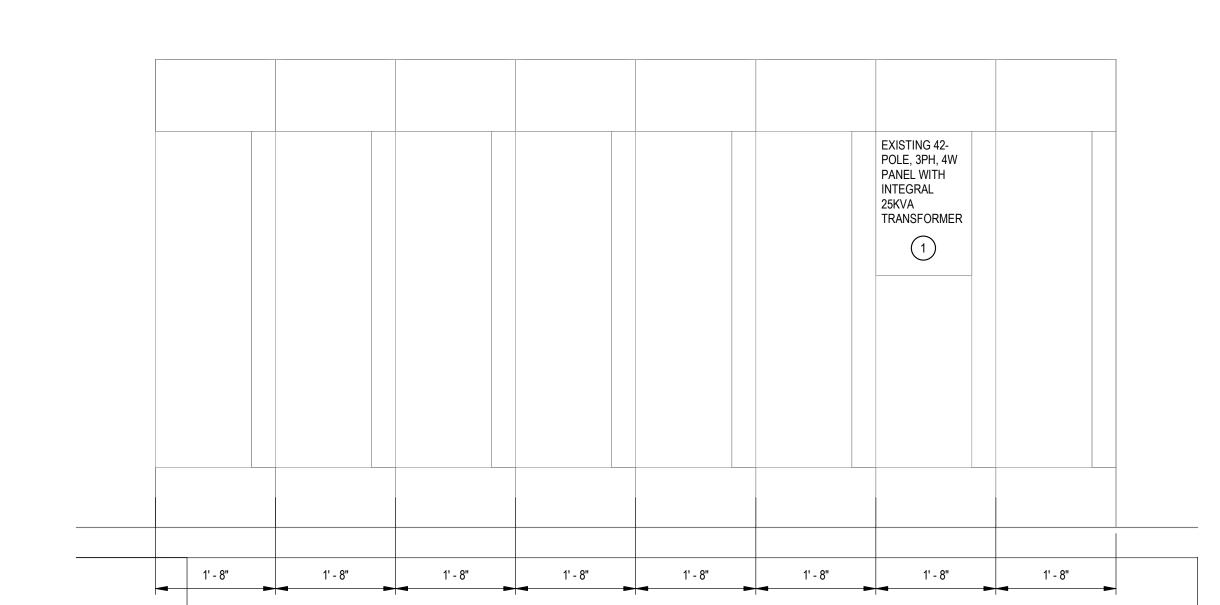
CUTLER HAMMER UNITROL <sup>™</sup> RETURN 🔐 MEN'S TOILET AIR FAN 🔎 RETURN AIR PENTHOUSE EXH. FAN TX-1 CORE A EXH. PENTHOUSE RF-5 SYS. FAN RF-3 FAN RF-2 EXH. FAN E1 BLDG. 8 FAN E-5 EXH. FAN EF-2 S5 & S12 SYSTEM S3 SYSTEM S2 SYSTEM S1 SYSTEM S4 15A WOMEN'S TOILET HEATING HOT PENTHOUSE EXH. FAN WATER PUMP EXH. FAN EF-6 TX-2 BLDG. 8 HEATING HOT WATER PUMP

1' - 8"

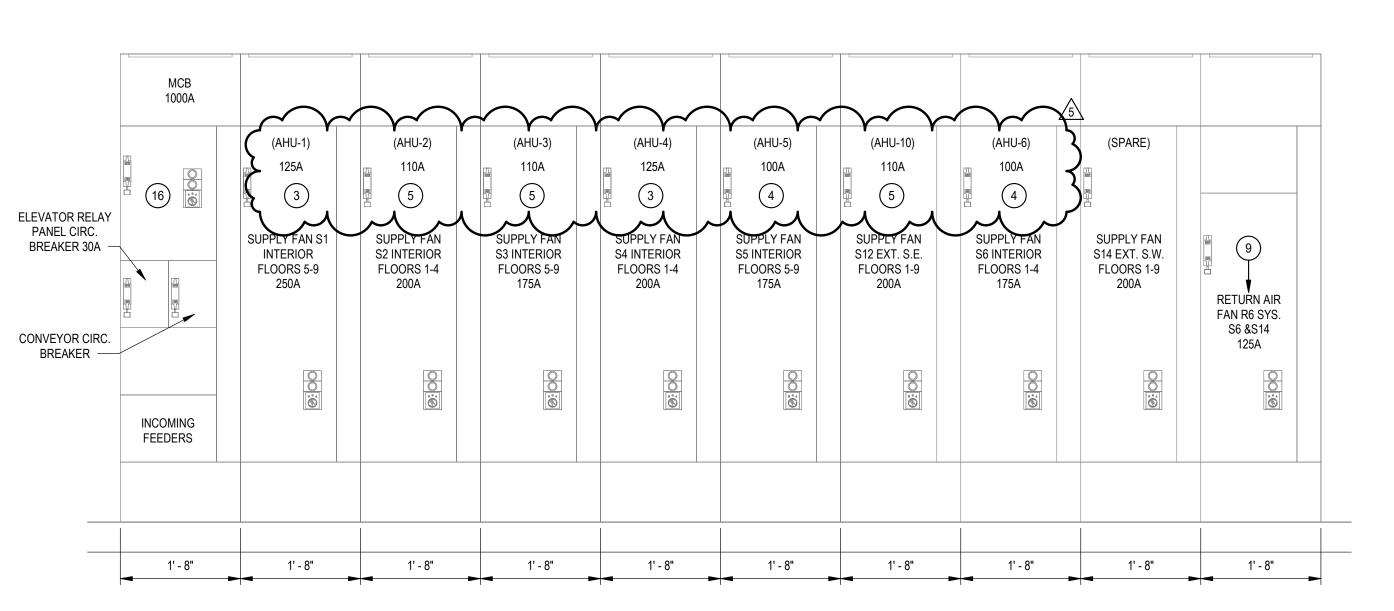
MCC-3 SIDE 1 E-110 NOT TO SCALE

	GENERAL ELECTRIC							
70A OFF ENCLOSED BRKR	400A EH-2 FEEDS ATS-2			SPACE	LH-1		EH-1 FEEDS ATS-1	ENCLOSED BREAKER 70A DE-ENERGIZED
AUXILIARY FUSES	MAIN NO. 1A	PH-9 MCC-2	PH-4 PANEL PH-HV-1	TIE NO. 1  LH-2 PNLS 8-5-C-HV, 8-6-5-C, 8-7-C-HV, 8-8-C-HV, 8-9-C-HV	PH-8 MCC-1	LH-4 PANELS 8-5-D-HV, 8-6-D-HV, 8-8-D-HV, 8-8-D-HV, 8-9-D-HV	-BUS TAP DOWN STREAM MAIN FEEDS ECB-1 UPS MAIN NO. 1B	AUXILIARY FUSES
AUXILIARY TRANSFORMERS	GBT-1 (DE-ENERGIZED) PH-7 (5)	PH-12 PNL 1P PRINT RM	PH-5 PH-EL-2 ELEVATOR CORE B	PP-1 EXISTING GE INTELLIGUARD BREAKER TO REMAIN (19)	PH-1 PANEL DP-BC	LH-3 PANELS LH-GD, LH-1D, LH-2D, LH-3D, LH-4D	PANELS LH-BA-3, LH-GA-3, LH-GA-4	AUXILIARY TRANSFORMERS

SUBSTATION #1



MCC-2 SIDE 2 NOT TO SCALE



MCC-3 SIDE 2 E-110 NOT TO SCALE

		GENERAL ELECTRIC								
T-1A 13.8KV PRIMARY 480/277 SECONDARY	ENCLOSED BREAKER		SUB #2 SYNC CHECK PARALLELING PANEL	LH-5A & LH-5B	SUB #1 SYNC CHECK PARALLELING PANEL	E.D.P. ROOM PANEL	LH-10 PANELS LHGB, LH-1B, LH-2B, LH-3B		2	T-1B 13.8KV PRIMARY 480/277 SECONDARY
	AUXILIARY FUSES	MAIN NO. 2A	ENTELLIGUARD R 1600A FRAME  EXISTING GE BEAR G(B-2 21	ENTELLIGUARD R 1600A FRAME  1200A TRIP EXISTING GE BRKR PP-2	TIE NO. 2	PDP-CR/LH-9 PANELS LH-7B, LH-8B, LH-9B	LDP-H PANELS LH-4B, LH-5B, LH-6B	MAIN NO. 2B BUS TAP DWN STREAM OF MAIN FEEDS ECB-2 UPS	AUXILIARY FUSES	
	AUXILIARY TRANSFORMERS	PH-10 MCC-3	PH-6	PANEL DP-R COMPUTER ROOM	PH-3  11  PANEL DP-BB	PH-2 PANEL DP-BA	MD-PC COMPUTER RM	PH-11 PANEL DP-AC BASEMENT  11	AUXILIARY TRANSFORMERS	

SUBSTATION #2 NOT TO SCALE

**GENERAL NOTES:** 

1. COORDINATE ALL INSTALLATIONS TO MCC WITH CUTLER HAMMER REPRESENTATIVES, DAN SCIULLI AND KEITH SELDEN AT EATON CORP, CLIFTON PARK, (W)518-877-7016, (C)412-818-2220.

2. TEXT WITHIN PARENTHESIS ( ) REPRESENTS NEW BUCKET NAME. REMOVE OLD LABEL AND PROVIDE LAMINATE NAMEPLATE WTH REVISED NAME.

. BUCKETS IN SUBSTATION #1 AND SUBSTATION #2 WITH

CODED NOTE 11 OR NO CODED NOTE ARE EXISTING TO

3. ALL DE-ENERGIZATION TO MCC'S SHALL BE COORDINATED WITH DIRECTORS REPRESENTATIVE. FOR BIDDING PURPOSES, ALL WORK TO MCC'S SHALL BE DONE DURING PREMIUM HOURS. TYPICALLY FRIDAY'S AFTER 5PM TO MONDAY BY 6AM. THIS WORK SHALL BE COORDINATED

BREAKER IN MCC. BREAKER SIZE SHALL BE 125A/3P, KAIC RATING TO MATCH EXISTING. 4. DISCONNECT AND REMOVE EXISTING BREAKER AND MOTOR

CODED NOTES: (#)

TRANSFORMER.

STARTER. DISCONNECT EXISTING HONEYWELL CONTROLS AND TURN OVER TO DIRECTORS REPRESENTATIVE. PROVIDE BREAKER IN MCC. BREAKER SIZE SHALL BE 100A/3P, kAIC RATING TO MATCH EXISTING.

5. DISCONNECT AND REMOVE EXISTING BREAKER AND MOTOR STARTER. DISCONNECT EXISTING HONEYWELL CONTROLS AND TURN OVER TO DIRECTORS REPRESENTATIVE. PROVIDE BREAKER IN MCC. BREAKER SIZE SHALL BE 110A/3P, KAIC RATING TO MATCH EXISTING.

1. EXISTING TRANSFORMER AND PANELBOARD TO REMAIN.

3. DISCONNECT AND REMOVE EXISTING BREAKER, AND MOTOR STARTER. DISCONNECT EXISTING HONEYWELL SONTROLS AND TURN OVER TO DIRECTORS REPRESENTATIVE. PROVIDE

**DESIGN & CONSTRUCTION** 

CERTIFICATE OF AUTHORIZATION #: 0021745

CONSULTANTS:

2. DISCONNECT AND REMOVE EXISTING ABANDONED

STARTER. DISCONNECT EXISTING HONEYWELL CONTROLS AND TURN OVER TO DIRECTORS REPRESENTATIVE. PROVIDE BREAKER IN MCC TO FEED VFD, SIZE OF BREAKER SHALL BE 350A/3P, HAIC RATING TO MATCH EXISTING.

8. DISCONNECT AND REMOVE EXISTING FEEDER UP TO 480V 'B' PANELS ON FLOORS 7 THRU 9.. 9. DISCONNECT AND REMOVE EXISTING BREAKER AND MOTOR STARTER. DISCONNECT EXISTING HONEYWELL CONTROLS

6. DISCONNECT AND REMOVE EXISTING BREAKER AND MOTOR

10. PROVIDE BREAKER IN SPARE SECTION OF MCC TO FEED VFD OF CORRESPONDING PUMPS P-11 & P-12, SIZE OF BREAKER SHALL BE 30A/3P.

60A/3P, KAIC RATING TO MATCH EXISTING.

ON RECORD DRAWINGS.

11. ELECTRICAL CONTRACTOR SHALL CIRCUIT TRACE LOADS AND DOCUMENT WHAT IS ON CIRCUIT AND UPDATE SUBSTATION DOOR WITH CORRECT LAMINATE LABEL. NOTE ANY CHANGES

AND TURN OVER TO DIRECTORS REPRESENTATIVE. PROVIDE

BREAKER IN MCC TO FEED VFD, SIZE OF BREAKER SHALL BE

12. REMOVE EXISTING BREAKER IN BUCKET AND REPLACE WITH ABB/GE ENTELLIGAURD R TYPE, RATED AT 800A. REMOVE AND REPLACE EXISTING FEEDERS, MATCHING EXISTING SIZE AND

QUANTITY. SEE ONE-LINE DIAGRAM FOR INFORMATION. 13. REMOVE EXISTING BREAKER IN BUCKET AND REPLACE WITH ABB/GE ENTELLIGAURD R TYPE, RATED AT 1000A. REMOVE AND REPLACE EXISTING FEEDERS, MATCHING EXISTING SIZE

AND QUNATITY. SEE ONE-LINE DIAGRAM FOR INFORMATION. 14. DISCONNECT AND REMOVE EXISTING BRAKER AND MOTOR STARTER. DISCONNECT EXISTING HONEYWELL CONTROLS AND TURN OVER TO DIRECTOR'S REPRESENTATIVE. PROVIDE BREAKER IN MCC TO FEED VFD, SIZE OF BREAKER SHALL BE

15. DISCONNECT AND REMOVE EXISTING BREAKER. DISCONNECT EXISTING HONEYWELL CONTROLS AND TURN OVER TO DIRECTORS REPRESENTATIVE. PROVIDE BREAKER IN MCC, SIZE OF BREAKER SHALL BE 800A/3P, KAIC RATING TO MATCH

16. DISCONNECT AND REMOVE EXISTING BREAKER. DISCONNECT EXISTING HONEYWELL CONTROLS AND TURN OVER TO DIRECTORS REPRESENTATIVE. PROVIDE BREAKER IN MCC. SIZE OF BREAKER SHALL BE 1000A/3P, KAIC RATING TO MATCH EXISTING. 17. DISCONNECT AND REMOVE EXISTING BREAKER AND REPLACE

WITH ABB/GE ENTELLGAURD R TYPE, RATED AT 400A, REMOVE AND REPLACE FEEDERS, MATCHING EXISTING SIZE AND QUANTIY. SEE ONE LINE DIAGRAM FOR INFORMATION. PANELS

8-7-D-HV, 8-8-D-HV & 8-9-D-HV ARE BEING REMOVED SEE PLANS FOR ADDITIONAL INFORMATION. 18. DISCONNECT EXISTING FEEDER UP TO MCC-2 AND REPLACE. CONDUCTORS ARE BELIEVED TO BE 2 SETS OF (3)#500MCM.

EXISTING CONDUIT TO REMAIN. DISCONNECT EXISTING FEEDER UP TO 480V 'C' PANELS ON FLOOR 5 THRU 9 AND REPLACE. CONDUCTORS ARE BELIEVED TO BE (4#3/0. EXISTING CONDUNTO REMAIN. 20. EXISTING OPEN SWITCH VERIFY FRAME SIZE AND TRIP

POWER FIRE PUMP CONTROLLER.

REVISED DRAWINGS

11/01/2024

21. EXISTING GE INTELLIGAURD BREAKER CURRENTLY LABELED AS GTB-2, HOWEVER THE BREAKER IS NOT BEING USED. CHANGE OVERCURRENT PLUG FROM 100A TO 800A AND USE BREAKER TO FEED 800A BUS DUCT TO PANEL PH-HV-3 IN

RATING. REPLACE WITH GE INTELLIGUARD TYPE BREAKER WITH 1600AMP FRAME AND 800A AND USE BREAKER TO

> KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE. ENERGY CODE WRITTEN STATEMENT: TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

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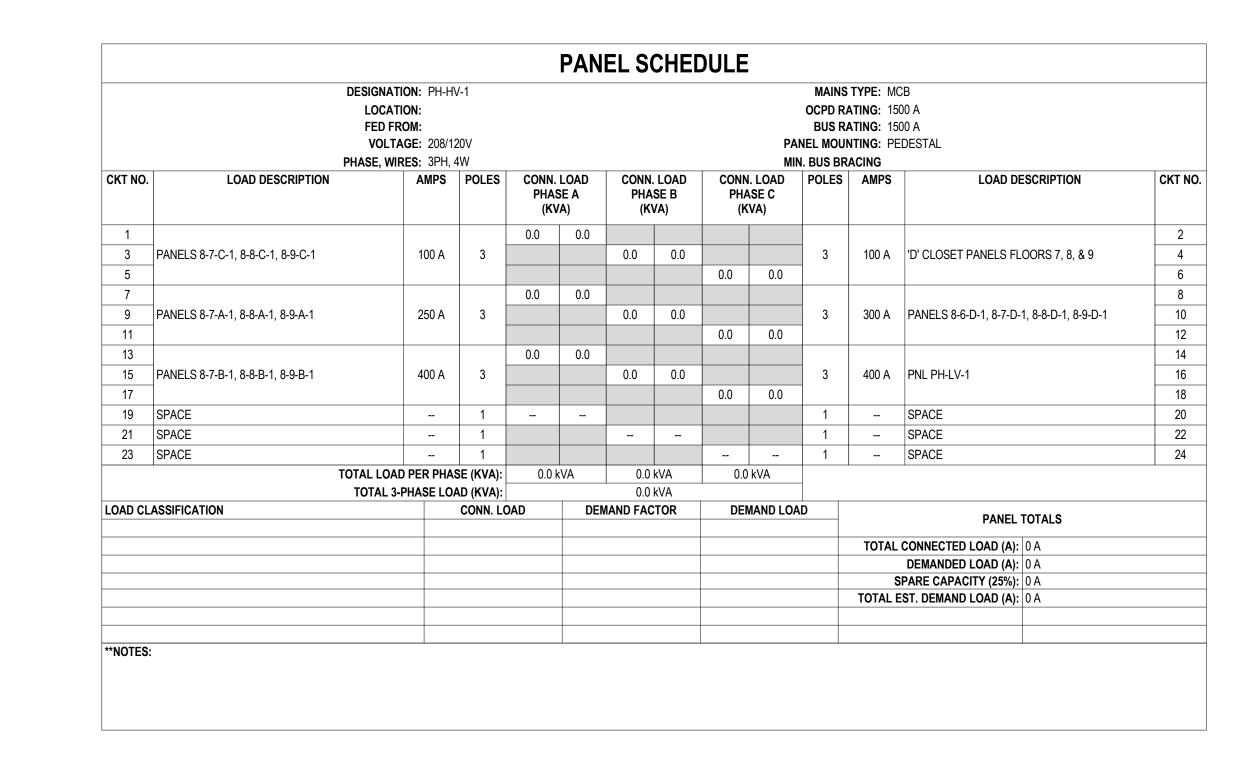
RENOVATE BUILDING 8, 8TH & 9TH

STATE OFFICE BUILDING CAMPUS 1220 WASHINGTON AVENUE

NEW YORK STATE OFFICE OF GENERAL SERVICES

5	11/01/2024	ADDENDUM 5
2	10/18/2024	ADDENDUM 2
Α	05/08/2024	FINAL BID DOCUMENTS
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	453	82 - E
DESIGNED BY:		PMR
DRAWN BY:		TJD
FIELD CHECK BY:		
APPROVED BY:		
SHEET TITLE:		
MC	CC & SUBS	
DRAWING NUMBER	<u> </u>	

E-602



					PAN	EL S	CHEC	ULE	1				
	LOCAT FED FF VOLTA	FION: 8-9-C- FION: ELEC ROM: AGE: 480/2 RES: 3PH, 4	CLO 946 77						PAN	OCPD RA BUS RA NEL MOUN	TYPE: MC ATING: 100 ATING: 100 ITING: SU ACING 10	) A ) A RFACE	
CKT NO.	LOAD DESCRIPTION	AMPS	POLES		. LOAD SE A VA)	PHA	. LOAD SE B VA)	PH/	I. LOAD ASE C VA)	POLES		LOAD DESCRIPTION	CKT
1	LGT: 9TH FLOOR OPEN OFFICE NORTH	20 A	1	1.9	2.0					1	20 A	LGT: 9TH FLOOR OPEN OFFICE NORTH	2
3	LGT: 9TH FLOOR OPEN OFFICE EAST	20 A	1			2.0	1.9			1	20 A	LGT: 9TH FLOOR OPEN OFFICE EAST	4
5	LGT: 9TH FLOOR OPEN OFFICE SOUTHWEST	20 A	1					2.4	2.6	1	20 A	LGT: 9TH FLOOR OPEN OFFICE SOUTHWEST	6
7	LGT: 9TH FLOOR CORRIDOR	20 A	1	1.7	1.2					1	20 A	LGT: 9TH FLOOR CENTRAL	8
9	LGT: BATHROOM	20 A	1			1.2	0.0			1	20 A	LGT: MOTHERS ROOM, BATHROOM, VEST.	10
11	SPARE	20 A	1					0.0	0.0	1	20 A	SPARE	12
13	SPARE	20 A	1	0.0	0.0					1	20 A	SPARE	14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
	TOTAL LOA			6.8	kVA		kVA	5.0	kVA				
		-PHASE LO					kVA						
	ASSIFICATION		CONN. LC		DEN	MAND FAC			MAND LOAI	D		PANEL TOTALS	
LIGHTING	i		16969 V	'A		100.00%			16969 VA		TOTAL	CONNECTED LOAD (A): 20 A	
Motor Other			0 VA 3 VA			0.00%			0 VA 3 VA		IUIAL	DEMANDED LOAD (A): 20 A	
Ou 101			3 VA			100.00 /0			U VA		S	PARE CAPACITY (25%): 5 A	
												ST. DEMAND LOAD (A): 26 A	
**NOTES:													
HUTES:													

	FED FR	ON: PENT OM: MCC GE: 208/1	HOUSE CC #2 20V	LUMN D	6					OCPD RA		0 A 0 A		
CKT NO.	LOAD DESCRIPTION	AMPS	POLES	PHA	I. LOAD ASE A (VA)	PHA	. LOAD ASE B VA)	PHA	I. LOAD ASE C VA)	POLES	AMPS	LOAD DE	SCRIPTION	CKT NO
1	FILTER FANHOUSE S-5 & S-6 *	20 A	1	0.0	0.0					1	20 A	UNIT HEATER S-5 & S-6		2
3	UNIT HEATERS S-12 & S-13	20 A	1			0.0	0.0			1	20 A	FILTER FANHOUSE S-7	, S-8 & S-12 *	4
5	UNIT HEATERS S-7 & S-8	20 A	1					0.0	0.0	1	20 A	FILTER FANHOUSE S-3	& S-4	6
7	UNIT HEATERS S-3 & S-4	20 A	1	0.0	0.0					1	20 A	UNIT HEATER S-11		8
9	UNIT HEATER 1 & 6 FANHOUSE S1 & S2	20 A	1			0.0	0.0			1	20 A	FILTER FANHOUSE S-1	, S-2 & S-11 *	10
11	UNIT HEATERS SOUTH STAIRS ELEV. MACH. RM	20 A	1					0.0	0.0	1	20 A	UNIT HEATER 15		12
13	UNIT HEATERS S-9 & S-10	20 A	1	0.0	0.0					1	20 A	FILTER FANHOUSE S-9	& S-10 *	14
15	FILTER FANHOUSE S-13 & S-14 *	20 A	1			0.0	0.0			1	20 A	UNIT HEATER 16		16
17	UNIT HEATERS #21 NORTH STAIRS #22 ELEV	20 A	1					0.0	0.0	1	20 A	REC: NW COLUMN COF	RNERS	18
19	REC: CENTER COLUMNS	20 A	1	0.0	0.0					1	20 A	REC: SW		20
21	REC: CENTER COLUMNS	20 A	1			0.0	0.0			1	20 A	REC: SE & GEN ROOM		22
23	REC: NE CORNER	20 A	1					0.0	0.0	1	20 A	DGP2		24
25	SMOKE DETECTORS	20 A	1	0.0	0.0					1	20 A	LTG: UNDER ELEV. MA	CH. RM	26
27	LTG: ELEV 7 & 18	20 A	1			0.0	0.0			1	20 A	LTG: ELEV 6 & 17 *		28
29	LTG: ELEV 8 & 19 *	20 A	1					0.0	0.0	1	20 A	LTG: ELEV 9 & 20 *		30
31	SPARE *	20 A	1	0.0	0.0					1	20 A	REC: PENTHOUSE B, B	ELOW ELEV RM	32
33	LTG: FANHOUSE S-13 & S-14	20 A	1			0.0	0.0			1	20 A	LTG: FANHOUSE S-7, S	-8 & S-12	34
35	LTG: FANHOUSE S-5 & S-6	20 A	1					0.0	0.0	1	20 A	LTG: FANHOUSE S-9, S	-10 & S-11	36
37	LTG: FANHOUSE S-1, S-2, S-3 & S-4	20 A	1	0.0	0.0					1	20 A	ELEC HOIST		38
39	ELEV #5 & #6 (LTG)? *	20 A	1			0.0	0.0			1	20 A	LTG: UNDER ELEV. MAG	CH. RM #25 *	40
41	ELEV#10 & #21 (LTG)? *	20 A	1					0.0	0.0	1	20 A	SPARE		42
	TOTAL LOAD	PER PHA	SE (KVA):	0.0	kVA	0.0	kVA	0.0	kVA					
		PHASE LO	AD (KVA):				kVA	1						
OAD CL	ASSIFICATION		CONN. LO	AD	DEN	MAND FAC	CTOR	DEN	MAND LO	AD		PANEL -	TOTALS	
											TOTAL	CONNECTED LOAD (A):	0 A	
												DEMANDED LOAD (A):		
												SPARE CAPACITY (25%):		
											IUIALI	EST. DEMAND LOAD (A):	UA	
**NOTES		I			I			I						

PAN	OCPD R BUS R	S TYPE: MORATING: 80  NATING: 80  NATING: SURACING	0 A 0 A	
	POLES		LOAD DESCRIPTION	СКТ
Υ΄.	Υ		)	2
	3	50 A	RTU-11B	4
10.8		_		6
			)	8
	3	50 A	RTU-13B	10
11.1		_		1:
				1
	3	70 A	RTU-12B	1
13.9				1
			<b>)</b>	2
4.1     14.1       14.1     14.1	3	70 A	RTU-14B	2
14.1		ļ.,	/	2
	へ			2
	3	20 A	CRV-2	2
0.2				3
		50.4	00.00	3:
0.0	3	50 A	SPARE	3
0.0				3
				38
				4
.3 kVA				44
.J KVA				
MAND LOAI	<b>D</b>		DANIEL TOTAL O	
3570 VA			PANEL TOTALS	
311701 VA		TOTAL	CONNECTED LOAD (A): 368 A	
1500 VA				
			` '	
		IOIALI	LOT. DEIRINIU EOND (A). HTO A	
			1	
	1500 VA	1500 VA		1500 VA DEMANDED LOAD (A): 381 A  SPARE CAPACITY (25%): 95 A  TOTAL EST. DEMAND LOAD (A): 476 A

					<b>PAN</b>	EL S	CHE	ULE	! !					
	LOC FED VOI	ATION: PH-LY ATION: FROM: PH-TO .TAGE: 208/1 WIRES: 3PH,	6 20V							OCPD RA		5 A 0 A		
CKT NO.	LOAD DESCRIPTION	AMPS	POLES	PHA	. LOAD SE A VA)	PHA	. LOAD SE B VA)	PHA	I. LOAD ASE C (VA)	POLES		LOAD DE	SCRIPTION	CKT No
1	UH-15	20 A	1	0.1	0.1					1	20 A	UH-14		2
3	UH-12	20 A	1			0.1	0.2			1	20 A	GT-1		4
5	BMS PANEL	20 A	1					0.6	0.5	1	20 A	BMS PANEL		6
7	BMS PANEL	20 A	1	0.4	0.0					1	20 A	SPARE		8
9														10
11														12
13														14
15														16
17														18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39			1											40
41		OAD PER PHA 3-PHASE LO		0.5	kVA		kVA kVA	1.1	kVA					42
LOAD CL	ASSIFICATION	3-FIIAGE EO	CONN. LO 411 VA		DEN	/AND FAC 113.69%	CTOR	DEI	MAND LOA 467 VA	AD .		PANEL 1	TOTALS	
RECEPTA	CLE		1500 VA			100.00%			1500 VA		TOTAL	CONNECTED LOAD (A):	5 A	
												DEMANDED LOAD (A):		
												PARE CAPACITY (25%):		
											TOTAL E	ST. DEMAND LOAD (A):	7 A	
**NOTES:		I			1					l .				

REVISED DRAWINGS 11/01/2024

PANEL DIRECTORY						
		PH-HV-1				
	8-9-C-HV	PH-HV-3				
	PH-MCC-2	PH-LV-2				

NEW YORK STATE OF OPPORTUNITY. Office of General Service DESIGN & CONSTRUCTION

CONSULTANTS:

CERTIFICATE OF AUTHORIZATION #: 0021745

CONTRACT:

ELECTRICAL

TITLE:

RENOVATE BUILDING 8, 8TH & 9TH

UNIFORM CODE STATEMENT:
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE

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PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT,

WITH THE 2020 UNIFORM CODE.

'A' MISDEMEANOR.

ELECTRICAL

TITLE:

RENOVATE BUILDING 8, 8TH & 9TH FLOORS

LOCATION:

STATE OFFICE BUILDING CAMPUS

1220 WASHINGTON AVENUE

ALBANY, NY

CLIENT:

NEW YORK STATE OFFICE

OF GENERAL SERVICES

_		
5	11/01/2024	ADDENDUM 5
A MARK	05/08/2024 DATE	FINAL BID DOCUMENTS  DESCRIPTION
PROJECT NUMBER:		382 - E
DESIGNED BY:		PMR
DRAWN BY:		TJD
FIELD CHECK BY:		
APPROVED BY:		
SHEET TITLE:		
P.A	NEL SCH	HEDULES

E-607

DRAWING NUMBER: