												SC	HE	DU	LE	OF	//	<i>VDC</i>) <i>OF</i>	ENI	ERGY	RECOVERY UNIT	S												
					A	IRFLON	V CON	IDITIONS	5	SUPPLY	' FAN		EXHAU	IST FA	4 <i>N</i>	EN	THALF	Y W	HEEL		REMOTE	HEAT PUMP UNIT DATA	DX	HTG/	/CLG (COIL E	DATA	FILTERS	ELEC1	RICAL DATA		DIMENSION	IS		DEMBKO
ARK	BUILDING	SERVICE	LOCATION	MODEL No.	O.A. CFM	E.A. CFM	R.A. S CFM II	S.A.ESP. R.A.ESF N. WC IN. WC	TYPE	CFM	T.S.P. IN. W.C.	HP TY	PE C	FM T.S	S.P. W.C. HF	<i>L.A.T.S</i> <i>DB*F</i>	SUMMER L. WB°F D	.A.T.WINTE DB°F WB	R HP	MARK		DESCRIPTION	CAI TOTAI	PACITY L/SEN.	/ELOCITY E F.P.M. D	T.A.T. "F L. DB/WB DI	A.T. *F B/WB	INTAKE RETURN	VOLTAGE	MCA M	OCP	L W	H	WEIGHT LBS	REMARKS
	ACADEMIC	1ST FLOOR CLASSROOMS	BASEMENT MECHANICAL	ERP-I-02-EW-D-TB	2560	2560	0	0.75 3.0	PLENUN	1 2560	1.0	5.0 CEN	ITR. 25	560 0.	75 2.0	80.3	67.44	7.8 39	0.25	HP 1A	REFER TO	SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	138.	0 144.0	500 8	30/67 5	52/52	MERV 13	208/3/60	18 2	25 14	55.0	i5.0 ·	3000	REFER TO 2345678110
ン	ACADEMIC	1ST FLOOR OFFICES	BASEMENT MECHANICAL	U-ERV-COIL-600	570	570	0	0.75 2.0	PLENUM	1 570	0.75	1.5 CEN	ITR. 57	70 0.	.75 1.5	80	67.15	1.7 41.	.6 –	HP 1B	REFER TO	SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	30.0	22.2	500 7	79/67 5	55/54	MERV 13	208/3/60	15.2	20 40	0.0 32.0 2	·4.0	1000	REFER TO (2) (3) (4) (6) (7) (8) (12) (13) (1
ント	NOT USED	-	-	-	_	_	-		_	_	-			-		_	-	_ _		ı		-	_	_	-	-	-	-	-	-		- -	-	-	-
/	ACADEMIC	2ND FLOOR CLASSROOMS/OFFICES	MECHANICAL ROOM 2ND FLOOR	ERP-I-07-EW-D-TB	7500	7500	0	0.75 7.5	PLENUM	7500	1.0 1	0.0 CEN	ITR. 75	500 0.	75 7.5	80.2	67.34	7.7 39	0.50	<u>HP</u> 3	REFER TO	SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	336.0	0 248.7	500 8	30/67 5	52/52	MERV 13	208/3/60	55	80 14	0.0 86.0 9	12.0	5000	REFER TO 234567811
/ I	ACADEMIC	3RD FLOOR CLASSROOMS/OFFICES	MECHANICAL ROOM 3RD FLOOR	© ERP-I-07-EW-D-TB	7400	7400	0	0.75 7.5	PLENUM	1 7400	1.0 1	10.0 CEN	ITR. 74	100 0.	75 7.3	80.2	67.34	7.6 39.	.8 0.50	HP 5	REFER TO	SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	336.0	0 248.7	500 8	30/67 5	52/52	MERV 13	208/3/60	55	80 14	0.0 86.0 9	12.0	5000	REFER TO 234567811
ノI	ACADEMIC	4TH FLOOR CLASSROOMS/OFFICES	MECHANICAL ROOM 4TH FLOOR	© ERP-I-07-EW-D-TB	7920	7920	0	0.75 7.5	PLENUN	1 7920	1.0 1	0.0 CEN	ITR. 79	920 0	75 7.5	80.2	67.34	7.7 39.	0.50	HP 7	REFER TO	SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	336.0	0 248.7	500 8	30/67 5	52/52	MERV 13	208/3/60	61	80 14	0.0 86.0 9	12.0	5000	REFER TO 234567811
<u> </u>	ACADEMIC	BASEMENT GENERAL VENTILATION	BASEMENT MECHANICAL	U-ERV-COIL-1200	1050	1050	0	0.50 2.0	PLENUN	1 1050	0.75	2.0 CEN	ITR. 10	050 0.	.75 2.0	80	67.15	1.7 41.	.6 –	-	,	ROVIDE 40,000 BTUH HOT WATER COIL	_	_	-	-	-	MERV 13	208/3/60	18	25 4	0.0 32.0 2	·4.0	1000	REFER TO 234101215
C	OMMUNITY	BASEMENT TOILETS/LOCKERS	BASEMENT MECHANICAL	ERP-E-02-FP-D-TB	2400	2400	0	0.75 3.0	PLENUM	1 2400	0.75	3.0 CEN	TR. 24	0.	.75 2.0	80	67.2 4	7.7 40). 1 **	HP 15	REFER TO	SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	96.0	71.1	500 8	30/67 5	52/52	MERV 13	208/3/60	17 2	25 14	0.0 55.0 5	5.0	3000	234567811

 $oxed{N}$ (1) AS MANUFACTURED BY "ANNEXAIR". (KLIMA NEW YORK 914 255-4390) (2) FROST CONTROL BY V.F.D. 3 DESIGN AIR CONDITION: SUMMER O.A. (95F/75F) R.A. (75F/63F);

SUPERVISION FOR FIELD INSTALLATION AND START-UP.

WINTER O.A. (OF/OF) R.A. (70F/53F).

5 PROVIDE CUSTOM INDOOR ERU UNIT WITH STAGED DIRECT EXPANSION HEATING AND COOLING, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY WHEEL (**ERU-8 SHALL HAVE STATIC PLATE CORE WITH BYPASS), DIRTY FILTER CONTACTS, BLOWER SHEAVE AND BELT FOR SELECTED STATIC USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), VRF TYPE DIRECT EXPANSION COIL FOR HEAT PUMP DUTY, STAINLESS STEEL DRAIN PAN, HINGED ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS 4) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S

(AS NOTED). PROVIDE FULL ECONOMIZER, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.

9 AS MANUFACTURED BY "ENERGY WALL". 13 PROVIDE INDOOR ERU UNIT WITH STAGED DIRECT EXPANSION HEATING AND COOLING, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST 10 PROVIDE INDOOR ERU UNIT WITH HOT WATER HEATING COIL, MOTORIZED CONTROL DAMPERS, DAMPER END PROTECTION, ENERGY RECOVERY CORE WITH BYPASS, DIRTY FILTER CONTACTS, DIRECT DRIVE BLOWER SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY CORE WITH BYPASS, FOR SELECTED STATIC PRESSURE USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY DIRTY FILTER CONTACTS, DIRECT DRIVE BLOWER FOR SELECTED STATIC PRESSURE USE, DISCONNECT SWITCH, MOTORS, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), DIRECT EXPANSION VRF VFD'S WITH PREMIUM EFFICIENCY MOTORS, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED). TYPE COIL FOR HEAT PUMP DUTY, ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS NOTED). PROVIDE FULL ECONOMIZER, DUAL NOTED). PROVIDE FULL ECONOMIZER, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER. ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER. 14 ADD ALTERNATE - GYM BASEMENT FITOUT. 1) PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FACTORY

(5) ERU SHALL BE PROVIDED IN SECTIONS THAT CAN BE RIGGED INTO THE BUILDING THROUGH NORMAL OR TEMPORARY OPENINGS. COORDINATE WITH GC AND BUILDING CONSTRUCTION PHASES.

CONSTRUCTION DOCUMENTS

66-23-00-01-0-346-001

BARILE GALLAGHER & ASSOCIATES

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												SC	HE	<u>DULE</u>	. O	<u> </u>	<u> </u>	TDO	OR E	ENERGY RECOVERY UN	<u> </u>	5										
					All	RFLON	V CONDI	TIONS	9	SUPPLY	' FAN	E.	XHAUS'	T FAN	EN	THALF	Y WH	IEEL		REMOTE HEAT PUMP UNIT DATA	DX	HTG/	CLG C	COIL DAT	FILTERS	ELEC	TRICAL DATA		DIMENSION)NS		DELLADIO
MARK	BUILDING	SERVICE	LOCATION	MODEL No.	O.A. CFM	E.A. CFM	R.A. S.A.E CFM IN.	SP. R.A.ESF VC IN. WC	P. TYPE	CFM	T.S.P. IN. W.C.	HP TYPE	CFM	T.S.P. IN. W.C. HF	DB°F	SUMMER L. WB°F D	.A.T.WINTE B°F WB°	R HP F 2	MARK	DESCRIPTION	CAI TOTA M	APACITY VE AL/SEN. MBH	ELOCITY E F.P.M. DE	A.T. °F L.A.T. B/WB DB/W	F INTAKE RETURN	VOLTAGE	MCA MO	CP L	_ <i>W</i>	Н	WEIGHT LBS	REMARKS
ERUO 2 ERUO 3	ACADEMIC	CAFETERIA 290	ROOF	ERP-E-09-EW05-D	5400	5400	4600 0.7	5 7.5	PLENUM	М 10000	1.5 10	0.0 PLEN	JM 10000	0 1.0 7.	5 80.1	67.2 4	7.6 39.	9 0.25		REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	504	373	500 /	7.6 / 52 /65.2 / 5	MERV 13	208/3/60	61 7) 20	07 94.0 9	94.0	6,800	REFER TO 345678900
ERUO 2	ACADEMIC	1ST, 2ND, 3RD, 4TH FLR. GANG TOILETS	ROOF	ERP-E-05-FP-D	5500	5500	0 1.5	5 1.0	PLENUM	М 5500	1.5 3	3.0 PLENU	JM 5500	0 1.0 5.0	0 79.8	67.4 4	7.7 39.	8 –	-	_	_	_		-/-	MERV 13	208/3/60	40 5) 96	6 56	54	3,000	343672
ERUO 3	COMMUNITY	GYMNASIUM	ROOF	ERP-E-12-EW05-D	6520	6520	3740 1.5	5 1.0	PLENUM	М 14,000	1.5 10	O.O PLENI	JM 14,00	00 1.0 7.	5 80.5	67.6 4	7.7 39.	6 0.25	<u>HP</u> 14	REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS	549	388	500 8.	2.1 52 75.1 5	MERV 13	208/3/60	88 10	0 20)7 104	105	7,000	343673900

INSTALLED.

N (1) AS MANUFACTURED BY "ANNEXAIR". (KLIMA NEW YORK 914 255-4390)

(2) FROST CONTROL BY V.F.D.

(3) DESIGN AIR CONDITION: SUMMER O.A. (95F/75F) R.A. (75F/63F); WINTER O.A. (0F/0F) R.A. (70F/53F). 4 INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S SUPERVISION FOR

5 PROVIDE CUSTOM ROOFTOP ERU UNIT WITH STAGED HEATING AND COOLING, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY WHEEL (**ERUO-2 SHALL HAVE A STATIC PLATE HEAT EXCHANGER), DIRTY FILTER CONTACTS, SHEAVE AND BELT FOR SELECTED STATIC USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, POWERED CONVENIENCE OUTLET, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), STAINLESS STEEL DRAIN PAN, HINGED ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS NOTED). PROVIDE FIELD INSTALLED FULL ECONOMIZER, INTAKE AND

EXHAUST HOODS, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.

(6) PROVIDE POWERED 120 VOLT GFI SERVICE RECEPTACLE. (7) INSTALL ERU ON FULL CURB SUPPORT.

COORDINATE CURB HEIGHT WITH GC FOR MINIMUM *12" ABOVE ROOF.*

(8) COIL SHALL BE VRF TYPE. (9) SPLIT-SYSTEM IS VRF TYPE HEAT PUMP. 70 REFRIGERANT R-410A.

12 PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FIELD

(11) PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FACTORY INSTALLED.

(12) PROVIDE CUSTOM ROOFTOP ERU UNIT WITH, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, STATIC PLATE ENERGY RECOVERY HEAT EXCHANGER, DIRTY FILTER CONTACTS, SHEAVE AND BELT FOR SELECTED STATIC USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, POWERED CONVENIENCE OUTLET, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), HINGED ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS NOTED). PROVIDE FIELD INSTALLED FULL ECONOMIZER, INTAKE AND EXHAUST HOODS, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION

	SC	HEDU	LE C	OF E	LECTI	RIC AL	R CUR	TAINS	
MARK	MODEL No. 🕥	BTU/HR	CAPACI AMPS	TY DATA KW	CFM	ELECTRIC SERVICE		DATA WEIGHT (LBS)	REMARKS
ACN A	E100	13,650	11.1	4.0	1088	208/3/60	42X12X21	120	REFER TO (2)(3)(4)(5)
ACN B	E100	13,650	11.1	4.0	1088	208/3/60	62X12X21	140	REFER TO 2345
ACN c	E150	27,300	22.2	8.0	1854	208/3/60	82X12X21	160	REFER TO (2)(3)(4)(5)
ACN D	E150	13,650	11.1	4.0	1854	208/3/60	42X12X21	120	REFER TO (2)(3)(4)(5)
_									

AS MANUFACTURED BY "WING". (KLIMA NEW YORK 914 255-4390) (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 3 PROVIDE UNIT MOUNTED SPEED CONTROLLER AND ALL MOUNTING STEEL AND HARDWARE.

4 QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS. (5) PROVIDE ALL POWER RELAYS AND BACNET

	SCH	EDUL	E OF	EL	ECT	RIC C	ABINET	HEAT	ERS	5
MARK	MODEL No. 🛈	CA BTU/HR	PACITY D AMPS	ATA KW	MOTOR WATTS	ELECTRIC SERVICE		DATA WEIGHT (LBS)	MTG.	REMARKS
ECH A	MFQ8008	27,368	38.5	8.0	50	208/1/60	32X23X4	50	WALL	REFER TO 2 3 4 5
ECH B	FFCHRENW	17,060	24.0	5.0	50	208/1/60	23X23X7	50	CLG.	REFER TO (2)(3)(4)(5)
N (1)	AS MANUFACT	TURED BY "N	MARKLEY BEF	RKO".			4 QUANTITIES	AS IDENTIFIED C	N HVAC	DRAWINGS.

SCHEDULE OF ELECTRIC UNIT HEATERS (EUH) HER 30C 3101 10,200 8.3 1/40 208/3/60 14X12X17

N (1) AS MANUFACTURED BY "MODINE". (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 3 PROVIDE UNIT MOUNTED VARIABLE SPEED CONTROLLER AND MOUNTING HARDWARE.

2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

3 PROVIDE UNIT MOUNTED VARIABLE SPEED CONTROLLER AND

(6) COIL SHALL BE VRF TYPE.

(8) REFRIGERANT R-410A.

(7) SPLIT-SYSTEM IS VRF TYPE HEAT PUMP.

4 QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS. 5 PROVIDE ALL POWER RELAYS AND BACNET

(5) PROVIDE ALL POWER RELAYS AND BACNET

		SCHEDULE C	OF VR	F REF	RIGERA	NT	TO WA	TER HE	EAT	ΓΕ	X	CHAN	<i>VGE</i>	RS	
							(CAPACITIES							
MARK	BUILDING	SERVICE	LOCATION	MODEL No. 🕡	SOURCE			LOAD				ELECTRIC	MCA	моср	REMARKS
				No. ()	JOUNGE	GPM	NOMINAL COOLING BTU/HR	CAPACITY HEATING BTU/HR	E.W.T. *F		P.D. FT.WG	SERVICE	WCA	WOCF	
RWH 1	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 2	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 3	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 4	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 5	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 6	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 7	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2
RWH 8	ACADEMIC	HYDRONIC HOT WATER SYSTEM	BASEMENT MECHANICAL	ARNH963K2A4	REFRIGERANT	24	_	107,500	113	122	23.1	208/1/60	0.1	15	REFER TO 2

 $m{V}$ (1) AS MANUFACTURED BY "LG.". (KLIMA NEW YORK 914 255-4390)

2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S SUPERVISION FOR FIELD INSTALLATION AND

THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.

	SCHE	DUL	E	OF VRF	FLO	W SEI	LECTOR	UNITS	0)
MARK	MODEL No. 🕥	CAPAC UNIT		TA (BTU/HR) EACH PORT	MCA	ELECTRIC SERVICE		DATA WEIGHT (LBS)	REMARKS
FS A	PRHR023A	120,000	2	60,000	0.17	208/1/60	19X19X9	<i>35</i>	REFER TO 234
FS B	PRHR033A	180,000	3	60,000	0.17		19X19X9	38	REFER TO (2)(3)(4)
FO	PRHR043A	230,000	4	60,000	0.17		19X19X9	40	REFER TO (2)(3)(4)
	PRHR063A	230,000	6	60,000	0.27		<i>31X19X9</i>	60	REFER TO (2)(3)(4)
FS E	PRHR083A	230,000	8	60,000	0.27	V	<i>31X19X9</i>	68	REFER TO 234

N (1) AS MANUFACTURED BY "LG." (KLIMA NEW YORK 914 255-4390) (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. E (3) REFRIGERANT R-410A.

PROVIDE MOUNTING HARDWARE. MOUNT UNIT HORIZONTALLY.

		SCF	HEDULE	OF EXP	PANSION 7	ANKS
MARK	SERVICE	LOCATION	MODEL Nº ①	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
ET 1	HOT WATER HEATING LOOP	BASEMENT MECHANICAL	800-L-150	211	70	REFER TO 234
ET 2	HOT WATER HEATING LOOP	BASEMENT MECHANICAL	800-L-150	211	70	REFER TO 234

N (1) AS MANUFACTURED BY "AMTROL." f (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. (3) ASME RATED, VERTICAL MOUNTING. \bigcirc FILL PRESSURE = 12 PSI, OPERATING PRESSURE = 30 PSI.

		SC	HED	UL	EC	FF	PUMF	25	
MARK	SERVICE	LOCATION	MODEL Nº ①	GPM 🕢	HEAD FT.H₂O	RPM	MOTOR HP	ELECTRIC SERVICE	REMARKS
HWP 1	HOT WATER HEATING LOOP	BASEMENT MECHANICAL	e1510 2.5BB	200	72.1	1750	10	208/3/60	REFER TO 23
HWP 2	HOT WATER HEATING LOOP	BASEMENT MECHANICAL	e1510 2.5BB	200	72.1	1750	10	208/3/60	REFER TO 23

N (1) AS MANUFACTURED BY "BELL & GOSSETT". 7 (2) INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS.

S (3) PROVIDE VFD SPEED CONTROLLER.

4) 200 GPM CAPACITY, 167 GPM NORMAL SYSTEM FLOW RATE.

		SCHE	EDULE (OF IN	IDOO	R D	UCTL	ESS	S A	IR H	HANDLII	VG U	NITS
		GENERAL	DATA		CAP	ACITY	PH	IYSICAI	L DATA		ELECTRICA	AL DATA	
MARK	BUILDING	SERVICE	MODEL No. 🚺	MOUNTING LOCATION	COOLING (MBH)	CFM	UNIT WEIGHT (POUNDS)	L	D	Н	SERVICE	MCA	REMARKS
DS A	ACADEMIC & COMMUNITY	DATA ROOM	ARNU123SJA4	HIGH WALL	12.0	300	30	33	8	12	208/1/60	0.31	REFER TO 23456
DS B	ACADEMIC & COMMUNITY	EMR ROOM	ARNU073SJA4	HIGH WALL	7.0	255	30	33	8	12	208/1/60	0.31	REFER TO 23456
DS C	ACADEMIC	DATA ROOM	ARNU053SJA4	HIGH WALL	5.0	200	30	33	8	12	208/1/60	0.31	REFER TO 23456

N (1) AS MANUFACTURED BY "LG". (KLIMA NEW YORK 914 255-4390)

O (2) CAPACITIES BASED ON 40°F SST, 95°F AMBIENT.

 $oldsymbol{arphi}$ $oldsymbol{arphi}$ PROVIDE MINI SPLIT INLINE CONDENSATE PUMP, LITTLE GIANT #VCMX-2UOL, 120V/1PH. 4 REFRIGERANT R410 A.

(5) INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. 6 UNIT SHALL BE CONTROLLED VIA MFGR. BACNET NETWORK CONTROLLER. BMS SHALL INTERFACE WITH CONTROLLER.

				SCHEL	DULE C	OF OU	TDOC	DR H	EAT	PUMP	UNI7	S	
	G	ENERAL DATA		CAF	PACITY		PHYSICA	L DATA		ELECTRI	CAL SUP	PLY	
MARK	BUILDING	SERVICE	MODEL ① No.	COOLING (MBH)	HEATING (MBH)	UNIT WEIGHT (POUNDS)	L	D	Н	SERVICE	MCA	EER	REMARKS
$\frac{HP}{A}$	ACADEMIC	DATA ROOMS & EMR ROOM	ARUM048GSS5	48.0	54.0	263	38"	13"	54''	208/1/60	24.0	12.5	REFER TO 2345678
HP B	COMMUNITY	DATA ROOM & EMR ROOM	ARUN024GSS4	24.0	27.0	160	<i>38"</i>	16"	33''	208/1/60	19.6	12.5	REFER TO 2345678

N(1) AS MANUFACTURED BY "LG". (KLIMA NEW YORK 914 255-4390) Q REFRIGERANT R-410A. E 3 INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

S (4) SECURE UNIT TO ROOF MOUNTED ROOF RAIL. FURNISHED BY THIS CONTRACTOR, INSTALLED BY GC. (5) DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD. 6 UNIT SHALL BE CONTROLLED VIA MANUFACTURER'S DDC NETWORK CONTROLLER TO INDOOR HARDWIRED CONTROLLER. PROVIDE UNIT WITH SNOW/WIND GUARD AT FAN INTAKE. DISCONNECT SWITCH, ROOF CURB EQUIPMENT SUPPORTS, VIBRATION ISOLATION PADS AND LOW AMBIENT CONTROLS.

8 LOW SOUND CONDENSER FAN.

	RADFORD STREET
	PROPOSED PROPOSED PROPOSED ACADEMIC BLDG LAWRENCE STREET

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4 11/01/2021 ISSUED TO BID 3 07/14/2021 CONSTRUCTION DOCS-NYSED 2 12/15/2020 DESIGN DEVELOPMENT 1 08/31/2020 SCHEMATIC DESIGN
No. Date Issue

SCHEDULES

2019-1026 rawn / Checked AS NOTED BGA/BGA

Sheet Number

H400

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS