Н	G	F	D	С	В	А	
	SUPPLY AIR	DEDICATED OUTDOOR AIR SYS	STEM SCHEDULE (DOAS)	COOLING COIL DATA	ELECTRICAL DATA		
ID NAME NO. MANUF. NO. ARRANGEMENT CFM 0A EAT	WINTER OUTSIDE AIR SUMMER OUTSIDE AIR (db) EAT(wb) LAT(db) EAT(wb) EAT(wb) LAT(wb) CI	WINTER EXHAUST AIR SUMMER EXHAUST AIR TOTAL AIRSIDE I EAT(db) EAT(wb) LAT(wb) EAT(db) EAT(db) LAT(db) LAT(db) I EAT(db) EAT(wb) LAT(wb) EAT(db) EAT(db) LAT(db) LAT(db)	WATERSIDE GLYCOL CAP FLOW EWT LWT PD TYPE % TOTAL SENSIBLE EAT(c)	AIRSIDE WATERSIDE GL db) EAT(wb) LAT(db) LAT(wb) FLOW EWT LWT PD TYF	YCOL SUPPLY FAN EXHAUST FAN PE % ESP HP ESP HP FLA MCA M	UNIT NOCP VOLT PH WEIGHT NOTES	
DOAS-1 ROOF - PETRA PAH-100 Downflow 7750 CFM 100 0.0 DOAS-2 ROOF - PETRA PAH-100 Downflow 6720 CFM 100 0.0		FM 65.0 °F 54.3 °F 10.8 °F 10.8 °F 75.0 °F 63.0 °F 93.4 °F 70.1 °F 640700 Btu/n 0.0 °F 70.0 °F 4 FM 65.0 °F 54.3 °F 14.4 °F 75.0 °F 63.0 °F 92.2 °F 70.0 °F 561700 Btu/n 0.0 °F 70.0 °F 4	8.0 GPM 130 °F 100 °F 6.0 ftH2O PG 40 258600 Btu/h 228700 Btu/h 82.8 ° 2.0 GPM 130 °F 100 °F 10.0 PG 40 220300 Btu/h 186900 Btu/h 80.2 °	°F 66.5 °F 55.5 °F 55.5 °F 59.0 GPM 45 °F 55 °F 8.5 ftH2O PC °F 65.5 °F 54.6 °F 54.5 °F 49.0 GPM 45 °F 55 °F 12.0 ftH2O PC	G 40 2.00 in-wg 15.00 hp 1.50 in-wg 7.50 hp 32.0 A 33.0 A 5 C 40 2.00 in wg 10.00 hp 1.50 in wg 10.00 hp 32.0 A 33.0 A 5	8,9,10,11,12, 13	
1	°F 0.0 °F 46.5 °F 42.7 °F 97.0 °F 72.0 °F 81.3 °F 65.9 °F 6920		ftH2O	°F 65.9 °F 54.5 °F 54.4 °F 57.0 GPM 45 °F 55 °F 15.5 ftH20 PC		8,9,10,11,12, 13	
DOAS-3 ROOF - PETRA PAH-100 Downflow 7340 CFM 100 0.0 DOAS-4 ROOF - PETRA PAH-100 Downflow 7740 CFM 100 0.0		FM 65.0 °F 54.3 °F 11.6 °F 11.6 °F 75.0 °F 63.0 °F 93.1 °F 70.6 °F 640200 Btu/h 0.0 °F 70.0 °F 4		°F 66.0 °F 55.3 °F 55.3 °F 59.0 GPM 45 °F 55 °F 8.5 ftH20 PC		8,9,10,11,12, 13	
		FM 65.0 °F 54.3 °F 10.6 °F 10.6 °F 75.0 °F 63.0 °F 93.8 °F 70.7 °F 104300 Btu/h 0.0 °F 70.0 °F 93.8 °F		°F 64.2 °F 55.8 °F 55.7 °F 8.0 GPM 45 °F 55 °F 3.5 ftH2O PC		8,9,10,11,12, 13	
	F 0.0 F 33.0 F 40.9 F 31.0 F 12.0 F 11.0 F 04.2 F 1300	DEDICATED OUTDOOR AIR SYSTEM SC			3 40 2.00 m-wg 3.00 mp 1.30 m-wg 2.40 mp 0.4 A 0.0 A m	3.0 A 400 V 3 3000 10 1,2,3,4,0,0,7, 10,14	
LOCATION OA	SUPPLY AIR WINTER OUTSIDE AIR SUMMER OUTSIDE AIR		IEATING COIL DATA WATERSIDE GLYCOL CAP	COOLING COIL DATA AIRSIDE WATERSIDE GL	ELECTRICAL DATA YCOL SUPPLY FAN EXHAUST FAN		_
IDNAMENO.MANUF.NO.ARRANGEMENTCFM%EATDOAS-5MECH200PETRAPAH-24Horizontal1750 CFM1000.0	(db) EAT(wb) LAT(db) LAT(wb) EAT(db) EAT(wb) LAT(db) LAT(wb) Cl °F 0.0 °F 55.8 °F 48.9 °F 97.0 °F 72.0 °F 77.6 °F 64.2 °F 1750	EAT(db) EAT(wb) LAT(db) LAT(wb) EAT(db) EAT(wb) LAT(db) LAT(wb) CAPACITY EAT(db) LAT(db) FM 65.0 °F 54.3 °F 10.6 °F 10.6 °F 75.0 °F 63.0 °F 93.8 °F 70.7 °F 104300 Btu/h 0.0 °F 70.0 °F 5	FLOW EWT LWT PD TYPE % TOTAL SENSIBLE EAT(or EAT) 0.0 GPM 130 °F 100 °F 6.0 ftH2O PG 40 34780 Btu/h 32750 Btu/h 77.6 °	db) EAT(wb) LAT(db) LAT(wb) FLOW EWT LWT PD TYF °F 64.2 °F 55.8 °F 55.7 °F 7.9 GPM 45 °F 55 °F 2.5 ftH2O PC	PE % ESP HP ESP HP FLA MCA M G 40 2.00 in-wg 3.60 hp 1.50 in-wg 2.50 hp 12.4 A 8.1 A 1	NOCP VOLT PH WEIGHT NOTES 5.0 A 480 V 3 5200 lb 1,2,3,4,5,6,7, 10,14	
NOTES: 1 PROVIDE UNIT WITH HEAT RECOVERY WHEEL WITH BY-PASS DAMPERS. 2 PROVIDE UNIT WITH DOUBLE WALL CONSTRUCTION WITH A MIX OF R13 INSULATION 3 PROVIDE UNIT WITH 2" MERV 8 AND 4" MERV 14 FILTERS 4 PROVIDE UNIT WITH DIRECT DRIVE MOTORS WITH VARIABLE DRIVES 5 PROVIDE UNIT WITH RECIRCULATION DAMPER 6 REFER TO CONTROL SCHEMATIC DRAWINGS FOR ADDITIONAL INFORMATION 7 REFER TO DETAIL DRAWINGS FOR UNIT CONFIGURATIONS 8 PROVIDE 18" H INSULATED ROOF CURB 9 INSTALL UNIT ON REINFORCED STRUCTURAL STEEL, REFER TO "S" SERIES DRAWIN 10 PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION WITH INTEGRAL FUS 11 PROVIDE OA AND EA WEATHER HOOD 12 ALL HYDRONIC PIPING (HWS & HWR, CHWS & CHWR) IS RUN UP INTO UNIT FROM WI 13 ALL ELECTRICAL CIRCUITRY IS TO RUN UP INTO UNIT FROM WITHIN ROOF CURB 14 EC RESPONSIBLE FOR CONNECTING WIRING AT UNIT SPLITS	NGS SED DISCONNECT AND CONVENIENCE RECEPTACLES ACCESSIBLE FROM OUTSIDE UNIT ENG	OSURE					
LOCATION	SUPPLY FAN DATA	AIR HANDLIN RETURN FAN HEATING COIL DATA	G UNIT SCHEDULE (AHU)	COOLING COIL DATA			-
AHU-1MECHANICAL ROOMPETRAAHU-2MECHANICAL ROOMPETRA		3850 CFM 1.50 in-wg 2.10 in-wg 2 3.90 hp 469300 Btu/h 40.0 °F 104.0 °F 35.0 GPM 130 °F 100 °F 0 CFM 0.00 in-wg 0.00 in-wg 0 0.00 hp 136000 Btu/h 40.0 °F 103.0 °F 10.5 GPM 130 °F 100 °F	8.0 ftH2O Yes 40% 257600 Btu/h 210500 Btu/h 83.0 °F 67.0 °F 5 11.5 ftH2O Yes 40% 74600 Btu/h 60800 Btu/h 83.0 °F 67.0 °F 5	AT(db) LAT(wb) FLOW EWT LWT PD Propyler 54.7 °F 54.6 °F 64.0 GPM 45 °F 55 °F 12.5 ftH2O Yes 54.6 °F 54.6 °F 59.0 GPM 45 °F 55 °F 11.0 ftH2O Yes	ne % FLA MCA MOCP VOLT PH WEIGHT 40 0.0 A 25.0 A 30.0 A 480 V 3 6800 lb 40 0.0 A 25.0 A 30.0 A 480 V 3 6800 lb	NOTES 1,2,3,4,5,6,7,8,9 1,2,3,4,5,6,7,8,9 1,2,3,4,5,6,7,8,9,10	
LOCATION	SUPPLY FAN DATA	RETURN FAN HEATING COIL DATA	CHEDULE (AHU) ALTERNATE MC1 GLYCOL CAP AIRSIDE	COOLING COIL DATA E WATERSIDE GLY			
		AIRFLOW PRESS MOTOR TOTAL AIRSIDE WATERSIDE DESIGN ESP TSP QTY POWER CAPACITY EAT(db) LAT(db) FLOW EWT LWT 3700 CFM 1.50 in-wg 2.10 in-wg 2 3.90 hp 577100 Btu/h 40.0 °F 100.0 °F 43.0 GPM 130 °F 100 °F	PD Propylene % TOTAL SENSIBLE EAT(db) EAT(wb) L	AT(db) LAT(wb) FLOW EWT LWT PD Propyler 53.3 °F 55.2 °F 72.0 GPM 45 °F 55 °F 10.0 ftH2O Yes	ne % FLA MCA MOCP VOLT PH WEIGHT	NOTES KEY 1,2,3,4,5,6,7,8,9	PLAN:
LOCATION	SUPPLY FAN DATA	AIR HANDLING UNIT SO	CHEDULE (AHU) ALTERNATE MC2	COOLING COIL DATA			AREA 'A'
ID NAME NO. MANUFACTURER MO	DDEL NO. SA CFM OA CFM ESP TSP QTY POWER PAH-100 9780 CFM 4235 CFM 2.00 in-wg 5.00 in-wg 2 7.00 hp	AIRFLOW PRESS MOTOR TOTAL AIRSIDE WATERSIDE DESIGN ESP TSP QTY POWER CAPACITY EAT(db) LAT(db) FLOW EWT LWT		E WATERSIDE GLY	ne % FLA MCA MOCP VOLT PH WEIGHT	NOTES 1,2,3,4,5,6,7,8,9	(2020) AREA 'B' (1922) (1922)
NOTES: 1 PROVIDE UNIT WITH DOUBLE WALL CONSTRUCTION WI 2 PROVIDE UNIT WITH 4" MERV 14 FILTERS 3 PROVIDE UNIT WITH DIRECT DRIVE MOTORS WITH VAR 4 PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNE 5 INSTALL UNIT ON 4" H REINFORCED CONCRETE PAD 6 REFER TO CONTROL SCHEMATIC DRAWINGS FOR MOR 7 REFER TO DETAIL DRAWINGS FOR UNIT CONFIGURATIC 8 UNIT TO BE BUILT IN SECTIONS TO ALLOW ACCESS TO 9 MC IS RESPONSIBLE FOR UNIT ASSEMBLY. EC RESPON 10 PROVIDE 36" H STRUCTURAL DUNNAGE TO SUPPORT U	RIABLE SPEED DRIVES ECTION WITH INTEGRAL FUSED DISCONNECT RE INFORMATION ONS THE BUILDING ISIBLE FOR CONNECTING WIRING BETWEEN UNIT SPLITS						
						СОРУ	SED CONTROL NO. 44-18-00-05-0-005-015 (RIGHT © 2020 - BCA ARCHITECTS & ENGINEERS, WARNING - IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY UNAUTHORIZED ALTERATIONS TO
4	LOCATION	AIRFLOW FAN	HYDRONIC MAKEUP AIR UNIT SCHEDULE (MAU) HEATING COIL	HEATING PLANT FILTER		B	CA Architects & Engineers
ID MUA-1		TYPE ARRANGEMENT SUPPLY OA % DCV PRESS DRIVE MOTOR YDRONIC DOWNFLOW 1600 CFM 100 Yes 0.50 in-wg DIRECT 1 1.00 hp No	CAP EAT(db) LAT(db) ROWS FLOW EWT LWT 120300 Btu/h 0.0 °F 69.6 °F 3 10.0 GPM 130 °F 104 °F 0	GLYCOL UNIT PD TYPE % TYPE EFF WEIGHT 0.4 ftH2O PG 40 THROWAWAY MERV-13 927 lb		NOTES 1,2,3	thaca Saratoga Springs Watertown
	 TES: 1 PROVIDE WITH MOTORIZED INTAKE AIR DAMPER 2 PROVIDE WITH A 18" H INSULATED ROOF CURB 3 PROVIDE UNIT WITH VARIABLE SPEED DRIVE FOR SOFT START AND BALANCING 						
	LOCATION		BOILER SCHEDULE (B) GAS-FIRED HEAT EXCHANGER	HEATING PLANT			BCA ARCHITECTS
	IDNAMEB-1MECHANICAL ROOMB-2MECHANICAL ROOMB-3MECHANICAL ROOM	MANUFACTURER MODEL NO. TYPE INPUT INPUT MIN AERCO BMK PLATINUM 2000 CONDENSING 2000000 Btu/h 100000 Btu/h 1840000 Btu AERCO BMK PLATINUM 2000 CONDENSING 2000000 Btu/h 100000 Btu/h 1840000 Btu AERCO BMK PLATINUM 2000 CONDENSING 2000000 Btu/h 100000 Btu/h 1840000 Btu AERCO BMK PLATINUM 2000 CONDENSING 2000000 Btu/h 100000 Btu/h 1840000 Btu	GAS BURNER CAP @ MIN FIRE FUEL FLOW STAGES TYPE PRESS AVAIL DESIGN MIN @ MIN //h 92000 Btu/h 20 NG 0.3 ftH2O 143.8 GPM 25.0 GP //h 92000 Btu/h 20 NG 0.3 ftH2O 143.8 GPM 25.0 GP //h 92000 Btu/h 20 NG 0.3 ftH2O 143.8 GPM 25.0 GP //h 92000 Btu/h 20 NG 0.3 ftH2O 143.8 GPM 25.0 GP	GLYCOL GLYCOL IFIRE EWT LWT PD VOL TYPE % THE PM 110 °F 140 °F 6.9 ftH2O 40.0 gal PG 40 9 PM 110 °F 140 °F 6.9 ftH2O 40.0 gal PG 40 9 PM 110 °F 140 °F 6.9 ftH2O 40.0 gal PG 40 9 PM 110 °F 140 °F 6.9 ftH2O 40.0 gal PG 40 9	ERMAL EFF UNIT WEIGHT FLA MCA MOCP VOLT PH 95% 802 lb 16.0 A 20.0 A 25.0 A 120 V 1 95% 802 lb 16.0 A 20.0 A 25.0 A 120 V 1 95% 802 lb 16.0 A 20.0 A 25.0 A 120 V 1 95% 802 lb 16.0 A 20.0 A 25.0 A 120 V 1	NOTES 1,2,3,4,5,6,7 1,2,3,4,5,6,7 1,2,3,4,5,6,7 1,2,3,4,5,6,7	ENGINEERS
	NOTES: 1 CONDENSATE DRAIN FO 2 PROVIDE BOILER CONT 3 PROVIDE BOILER WITH 4 INSTALL BOILERS ON A 5 COMBUSTION AIR TO BE	AERCO BMK PLATINUM 2000 CONDENSING 2000000 Btu/h 100000 Btu/h 1840000 Btu/h BOILERS SHALL BE TIED TOGETHER AND RUN THROUGH A CONDENSATE TRAP AND NEUTRALIZATION TANK BY UNIT MANUFACTURER DL PANEL FOR CONTROL OF ALL BOILERS AND INCLUDE A BACNET INTERFACE FOR BUILDING AUTOMATION SYSTEM VO-WAY CONTROL VALVE INTEGRATED IN BOILER CONTROL SEQUENCE H REINFORCED CONCRETE PAD TO ALLOW FOR CONDENSATE DRAIN FULLY INSULATED AND DUCTED INDIVIDUALLY UP THROUGH ROOF TO A GOOSENECK HOOD 294C STAINLESS STEEL AND SHALL BE MANIFOLDED TO A SINGLE FLUE UP THROUGH ROOF, TERMINATE 6 FEET ABOVE ROOF WITH A RAIN CONTROL STAINLESS STEEL AND SHALL BE MANIFOLDED TO A SINGLE FLUE UP THROUGH ROOF, TERMINATE 6 FEET ABOVE ROOF WITH A RAIN CONTROL STAINLESS STEEL AND SHALL BE MANIFOLDED TO A SINGLE FLUE UP THROUGH ROOF, TERMINATE 6 FEET ABOVE ROOF WITH A RAIN CONTROL STAINLESS STEEL AND SHALL BE MANIFOLDED TO A SINGLE FLUE UP THROUGH ROOF, TERMINATE 6 FEET ABOVE ROOF WITH A RAIN CONTROL STAINLESS STEEL AND SHALL BE MANIFOLDED TO A SINGLE FLUE UP THROUGH ROOF, TERMINATE 6 FEET ABOVE ROOF WITH A RAIN CONTROL STAINLESS STEEL AND SHALL BE MANIFOLDED TO A SINGLE FLUE UP THROUGH ROOF, TERMINATE 6 FEET ABOVE ROOF WITH A RAIN CONTROL STAINLESS STEEL AND SHALL BE MANIFOLDED TO A SINGLE FLUE UP THROUGH ROOF, TERMINATE 6 FEET ABOVE ROOF WITH A RAIN CONTROL STAINLESS STEEL AND SHALL BE MANIFOLDED TO A SINGLE FLUE UP THROUGH ROOF, TERMINATE 6 FEET ABOVE ROOF WITH A RAIN CONTROL STAINLESS STEEL AND SHALL BE MANIFOLDED TO A SINGLE FLUE UP THROUGH ROOF, TERMINATE 6 FEET ABOVE ROOF WITH A RAIN CONTROL STAINLESS STEEL AND SHALL BE MANIFOLDED TO A SINGLE FLUE UP THROUGH ROOF, TERMINATE 6 FEET ABOVE ROOF WITH A RAIN CONTROL STAINLESS STEEL AND SHALL BE MANIFOLDED TO A SINGLE FLUE UP THROUGH ROOF, TERMINATE 6 FEET ABOVE ROOF WITH A RAIN CON		PM 110 °F 140 °F 6.9 ftH2O 40.0 gal PG 40 9	95% 802 lb 16.0 A 20.0 A 25.0 A 120 V 1	1,2,3,4,5,6,7	PRIDE
	7 PROVIDE AN INTAKE AN	EXHAUST MUFFLER FOR EACH BOILER]	PORT JERVIS CITY SCHOOL DISTRICT ADDITIONS AND ALTERATIONS TO:
_			AIR COOLED CHILLEF	R SCHEDULE (CH)			PORT JERVIS MIDDLE SCHOOL
		ID NAME NO. MANUFACTURER MODEL NO. TYPE COOLI CAR CH-1 ROOF - QUANTECH QTC3160TSE46XFBSXXX MODULAR 163.6	EVAPORATOR COOLING HEAT EXCHANGER COOLING PLANT NG LOAD: CHILLED WATER GLYCOL NG FLOW VOL TYPE % Ion 420.0 GPM 150.0 GPM 54 °F 44 °F 45.2 ftH2O 10.0 gal PG 40	CONDENSER FAN COMPRESSOR MOTOR REFRIGERANT QTY POWER ECM TYPE TYPE CHARGE SCROLL R410A 177 lb 6 93.0 °F	R IPLV NPLV UNIT FLA MCA MOCP VOL 1.2 16.65 16.51 8816 lb 94.0 A 372.0 A 400.0 A 480	T PH NOTES V 3 1,2,3,4,5,6,7,8,9,10	Port Jervis - Orange County - New York / DATE DESCRIPTION
6		CH-2 ROOF - QUANTECH QTC3160TSE46XFBSXXX MODULAR 163.6 NOTES: 1 PROVIDE CHILLER CONTROL PANEL FOR CONTROL OF BOTH CHILLERS AND INCLUDE A BACNET INTERF. 2 PROVIDE CHILLER WITH TWO-WAY CONTROL VALVE INTEGRATED IN CHILLER CONTROL SEQUENCE	ton 420.0 GPM 150.0 GPM 54 °F 44 °F 45.2 ftH2O 10.0 gal PG 40 ACE FOR BUILDING AUTOMATION SYSTEM	4 2.00 np Yes SCROLL R410A 177 lb 6 93.0 °F	ו 1.2 נאט 16.51 18816 94.0 A 372.0 A 400.0 A 480	AJZ	WN BY PROJECT NUMBER 2019-011 ECKED BY DATE
		 2 PROVIDE CHILLER WITH TWO-WAY CONTROL VALVE INTEGRATED IN CHILLER CONTROL SEQUENCE 3 INTALL AND SECURE CHILLER ON STRUCTURAL SUPPORT BEAM WITH VIBRATION ISOLATORS 4 PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION WITH INTEGRAL FUSED DISCONNECT 5 PROVIDE CHILLER WITH A SOUND ATTENUATION PACKAGE 				JLM	MECHANICAL EQUIPMENT
		6 PROVIDE CONTROL TRANSFORMER 7 PROVIDE SERVICE ISOLATION VALVES 8 PROVIDE ELECTRONIC EXPANSION VALVES					SCHEDULES
		9 PROVIDE LOW SOUND FAN WITH VSD CONTROL 10 PROVIDE LOUVERED ENCLOSURE PANELS					MS M602
	1			1	1		RE-BID
H	G	F E	D	C	B	A	