

one eighth inch = one foot
0 4 8 16
one quarter inch = one foot
0 4
three eighths inch = one foot
0 4
one half inch = one foot
0 4
three quarters inch = one foot
0 2
one inch = one foot
0 6 12

ROOF TOP AIR CONDITIONING UNIT SCHEDULE																																						
TAG	LOCATION	SERVICE	SUPPLY FAN DATA				RETURN/EXHAUST FAN				COOLING PERFORMANCE								HOT GAS REHEAT CAPACITY		HEATING PERFORMANCE						ELECTRICAL DATA				DMENSIONS L X H X W (IN.)	WEIGHT (LBS.)	MANUFACTURER AND MODEL NUMBER					
			CFM	FAN QTY.	TSP/ ESP (IN. W.C.)	RPM	BHP/ HP	CFM	FAN QTY.	ESP (IN. W.C.)	RPM	BHP/ HP	COIL SIZE		EAT (°F)		LAT (°F)		TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	REFRIGERANT	EER/IEER	MBH	LAT (DB/ WB) F	HEATING TYPE	GAS PRESSURE (IN. OF W.G.)	EAT (°F) DB	LAT (°F) DB	INPUT (MBH)	CAPACITY (MBH)				COP	V/PH/Hz	FLA	MCA	MOCP
													ROWS	FPI	DB	WB	DB	WB																				
RTU-1	UPPER LEVEL ROOF	SEE PLAN	3070	1	1.3/ 0.9	2375	1.13/ 4.0	500	1	0.5	1134	0.17/ 0.5	3	15	78	64.1	54.2	54.6	90.7	79.5	410A	12.1/ 19.8	69.0	75/ 62	NAT GAS	4-14	50	98	200	160	-	208/3/60	42.5	45.4	50	91x56.8x96.5	2210	DAIKIN - DPS007A
RTU-2	UPPER LEVEL ROOF	SEE PLAN	2400	1	2.3/ 0.9	2366	1.36/ 4.0	300	1	0.5	1134	0.17/ 0.5	4	16	77.1	63.5	53.9	53.5	70.0	60.8	410A	1.3/ 19.3	55.0	75/ 62	NAT GAS	4-14	62.7	87.3	80	64	-	208/3/60	38.5	42.3	50	67x40.8x87	1489	DAIKIN - DPS006A
RTU-3	REACT AREA ROOF	SEE PLAN	1650	1	1.6/ 0.9	1824	0.64/ 4.0	300	1	0.5	1134	0.17/ 0.5	4	14	78.6	64.6	52.8	52.7	57.6	46.6	410A	12.8/ 17.1	39.7	75/ 2	NAT GAS	4-14	57	92.7	80	64	-	208/3/60	32.6	35.5	45	67x40.8x87	1439	DAIKIN - DPS005A
NOTES: 1. PROVIDE WITH NON-FUSED DISCONNECT SWITCH MOUNTED IN UNIT, HOT GAS REHEAT AND GAS MODULATING CAPACITY AT 10:1 TURNDOWN. 2. PROVIDE WITH 24" HIGH ROOF CURB AND NEOPRENE PADS FOR ALL RTU'S. PROVIDE ALL WITH NEOPRENE PADS VIBRATION ISOLATORS BETWEEN THE BOTTOM OF THE UNITS AND THE ROOF CURB. 3. PROVIDE WITH AIRSIDE ECONOMIZER OPERATION CONTROLS. 4. PROVIDE FACTORY WIRED VFDs. 5. PROVIDE WITH MERV 13 FILTERS. 6. BOTTOM SUPPLY AND RETURN CONNECTIONS. 7. INTERLOCK UNIT TO DUCT MOUNTED SMOKE DETECTORS INSTALLED IN THE SUPPLY AND RETURN DUCTS.SUPPLY AND RETURN. 8. PROVIDE THE FOLLOWING FEATURES FOR THE UNITS: BACNET/ MSTP CARD, UNIT POWERED 115 GFI OUTLET, LEAVING COIL/ ENTERING TEMPERATURE SENSOR, DUCT HIGH LIMIT SWITCH, DISCHARGE (MOUNTED IN SUPPLY DUCT) , RETURN AND OUTSIDE AIR TEMPERATURE AND ENTHALPY SENSORS, DIRTY FILTERS ON/ OFF SWITCH, SUPPLY FAN AIR PROVING, BUILDING STATIC PRESSURE CONTROL, CONDENSATE OVERFLOW SWITCH.																																						

BOILER SCHEDULE																											
TAG	SERVICE	BOILER PERFORMANCE DATA									BURNER PERFORMANCE DATA							PIPE CONNECTION SIZES		ELECTRICAL DATA				DIMENSIONS LxWxH (IN.)	WEIGHT	MANUFACTURER AND MODEL	NOTES
		VENTING TYPE	FLUID TYPE	INPUT (MBH)	EWT (°F)	LWT (°F)	GPM	OUTPUT HEATING CAPACITY (MBH)	TURN DOWN RATIO	PRESS. RELIEF VALVE SETTING (PSIG)	NATURAL GAS							WATER NPT	VOLTAGE	PHASE	MCA (AMPS)						
											MINIMUM PRESSURE (IN. WG.)	MAXIMUM PRESSURE (IN. W.G.)	THERMAL EFFICIENCY (%)	AFUE (%)	AIR INTAKE (IN)	VENT SIZE (IN)	GAS LINE SIZE (IN.)										
B-1	LOWER LEVEL HEATING	CONDENSING	WATER	1500	130	160	129	1440	7:1	40.0	4.0	10.5	96.0	80.0	8.0	8.0	1.25	2.5	120	1	17.0	50X31X67	1234	RAYPAK - 1505A	1-8		
NOTES: 1. FURNISH WITH ASME PRESSURE RELIEF VALVE SET @ 60 PSIG 2. GAS OPERATING RANGE: LOW PRESSURE 4" W.C. - 10.5" W.C. 3. FURNISH WITH OPTION D-11 VENT TERMINATION AND D-18 FLUE EXHAUST ADAPTER 4. FURNISH WITH HIGH/LOW GAS PRESSURE SWITCH, MANUAL RESET AND AUTO RESET HIGH LIMIT. 5. FURNISH WITH CONDENSATE NEUTRALIZER KIT 6. EQUIPMENT MUST CONFORM WITH CSD-1 AGENCY REQUIREMENTS 7. FURNISH WITH A SLR VIBRATION ISOLATOR WITH 1" STATIC DEFLECTION 8. PROVIDE WITH TACO 1630 BOILER PUMP (¼ HP, 5.7 AMPS)																											

SINGLE DUCT VAV BOX SCHEDULE						
DESIGNATION	MANUFACTURER	MODEL NO.	AIRFLOW RANGE (CFM)	INLET SIZE	NC @ MAX RANGE CFM ΔPS=1.5"	REMARKS
VAV-A	TITUS	DESV	45-180	4	29	1 THROUGH 8
VAV-B	TITUS	DESV	65-280	5	30	1 THROUGH 8
VAV-C	TITUS	DESV	80-400	6	30	1 THROUGH 8
VAV-D	TITUS	DESV	145-720	8	30	1 THROUGH 8
VAV-E	TITUS	DESV	230-1120	10	32	1 THROUGH 8
VAV-F	TITUS	DESV	325-1600	12	34	1 THROUGH 8
VAV-G	TITUS	DESV	450-2400	14	33	1 THROUGH 8
NOTES: 1. REFER TO MECHANICAL SPECIFICATIONS AND DETAILS. 2. PROVIDE WITH WALL MOUNTED DIGITAL KEYPAD THERMOSTAT (BY ALERTON). 3. CONTROLS SHALL BE FACTORY MOUNTED. CONTROLS SHALL BE APPROVED BY ATC CONTRACTOR. 4. MINIMUM CFM FOR EACH BOX TO BE SET AT 30% OF CFM INDICATED ON FLOOR PLANS U.O.N.. 5. PROVIDE WITH CLASS II, 24 VOLT CONTROL TRANSFORMER. 6. NORMALLY OPEN UNLESS OTHERWISE NOTED. 7. PROVIDE WITH AUTO-CHANGEOVER SENSOR FOR MORNING WARM UP/ COOLING OPERATION. 8. USE ECOSHIELD 1" LINER UNLESS OTHERWISE NOTED.						

ENERGY RECOVERY VENTILATOR SCHEDULE (WHEEL TYPE)																						
TAG	SERVICE	SUPPLY AIR		ENTHALPY RECOVERY RATIO	ENERGY RECOVERY PERFORMANCE (SUMMER/ WINTER)							EXHAUST AIR			ELECTRICAL DATA				DIMENSIONS LXWXH (IN.)	WEIGHT	MANUFACTURER AND MODEL	NOTES
		CFM	ESP	% SUMMER/ WINTER	TOTAL CAPACITY REDUCTION (BTUH)	SENSIBLE CAPACITY (MBH)	EFFECTIVENESS	EAT		LAT		CFM	ESP (IN. WC.)	FILTER	VOLTAGE	PHASE	MCA (AMPS)	MOP (AMPS)				
								DB (°F)	WB (°F)	DB (°F)	WB (°F)											
ERV-G-1	GARAGE LOCKER RMS	1200	0.6	68.5/10	45360.0	53710.0	81.2/84.3	89.7/12.8	77/10.2	79.1/53.9	67.7/44.2	980	0.6	MERV-8	208	1	15	20	-	779	GREENHECK - ERV-20-15L	1-5
NOTES: 1. PROVIDE WITH DISCONNECT SWITCH MOUNTED IN UNIT. 2. PROVIDE SPRING TYPE VIBRATION ISOLATORS. 3. PROVIDE WITH AIRSIDE ECONOMIZER OPERATION CONTROLS. 4. PROVIDE WITH OUTDOOR AIR (2" MERV 8, 4-20X25X2), RETURN AIR (2" MERV 8, 4-20X25X2) AND SUPPLY AIR FILTERS (2" MERV 8, 4-20X20X2). 5. PROVIDE FROST CONTROL - TIMED EXHAUST. 6. PROVIDE BACNET CONNECTIVITY OPTION.																						

FIN TUBE RADIATOR																
TAG	LOCATION	PERFORMANCE DATA						CONSTRUCTION DATA							MANUFACTURER AND MODEL	NOTES
		ROOM AIR DB (°F)	CAPACITY (BTU/HR/FT)	ENTERING WATER TEMPERATURE (°F)	LEAVING WATER TEMPERATURE (°F)	WATER		TUBES		FINS		ENCLOSURE TYPE	FIN DIMENSIONS			
						GPM	PRESSURE DROP (FT. W.C.)	MATERIAL	SIZE	NUMBER PER LINEAR FOOT	THICKNESS (IN.)		HEIGHT (IN.)	WIDTH (IN.)		
FTR-A	SEE PLANS	68.0	875.0	160.0	130.0	0.7	0.042	COPPER	1"	40	0.0200	SPECIFIED BY ARCHITECT	4-1/4"	4-1/4"	SLANT FIN - C-440	1-2
NOTES: 1. FURNISH WITH B&G ULTRASETTER PRESSURE INDEPENDENT CONTROL VALVE MODEL PVC-¾H. 2. COORDINATE ENCLOSURE FINISH, COLOR, ETC. WITH ARCHITECT. 3. FURNISH WITH RA2000 THERMOSTATIC RADIATOR VALVE SELECTED TO MAINTAIN ROOM TEMPERATURE WITHIN ±1F".																

MAKE UP AIR UNITS (BASIS OF DESIGN: GREENHECK U.O.N.)																	
TAG	LOCATION	CFM	EXTERNAL STATIC PRESSURE	MOTOR DATA		HEATING PERFORMANCE						ELECTRICAL DATA			DIMENSIONS LXWXH (IN.)	MODEL NO.	NOTES
				LOAD (HP)	SPEED (RPM)	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	TYPE	PRESSURE (IN. OF W.G.)	EAT (°F)	LAT (°F)	MCA (AMPS)	MOCP (AMPS)	V/PH			
MAU-1	REACT ROOF	6,450	0.75	5.0	1396	378.6	348.3	NAT. GAS	4 ~ 10	10	60.3	2.3	35	208/3	156x44x45	DGX-P122-H22-D	1-7
MAU-2	REACT ROOF	1,200	0.75	½	2350	100	81	NAT. GAS	4 ~ 10	10	72.4	4.2	15	208/3	116x44x39	IGX-P109-H12-MF	1-7
NOTES: 1. PROVIDE WITH AIRSIDE ECONOMIZER OPERATION CONTROLS. 2. PROVIDE WITH 16 INCHES HIGH ROOF CURB. 3. PROVIDE WITH FACTORY INSTALLED, LOCKABLE, NEMA 3R DISCONNECT. 4. SUPPLY FAN AND MOTOR VIBRATION ISOLATION - NEOPRENE. 5. PROVIDE WITH VFD AND INTERLOCK TO THE ASSOCIATED GARAGE EXHAUST AND GARAGE CO/NO CONTROLS SYSTEM. 6. PROVIDE SUPPLY AIR FILTERS - 2" MERV 8. 7. PROVIDE FACTORY WIRED NON-FUSED DISCONNECT SWITCH.																	

CLOSED EXPANSION TANK SCHEDULE									
TAG	LOCATION	CAPACITY (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	PRE-CHARGE (PSI)	WORKING PRESSURE (PSI)	DIMENSIONS DIAM X H (IN.)	WEIGHT (LBS)	MANUFACTURER AND MODEL	NOTES
ET-1	MECH RM 114	90.0	34	20	125	24 X 60	241	AMTROL AX-180V	1,2
NOTES: 1. PROVIDE A 4 INCHES HIGH CONCRETE PAD. 2. REFER TO DETAILS SHEET FOR CONNECTIONS DETAILS.									

AIR SEPARATOR								
TAG	LOCATION	PIPE SIZE (IN.)	MAX PRESSURE (PSIG)	MAX TEMP (°F)	GPM	WEIGHT EMPTY/ FULL (LBS)	MANUFACTURER AND MODEL	NOTES
AS-1	MECH RM 114	3.0	125	375	130	130/ 188	BELL & GOSSETT R-3F	1
NOTES: 1. PROVIDE WITH STRAINER, VIBRATION ISOLATORS AND FLANGES FOR INLET AND DISCHARGE CONNECTIONS.								



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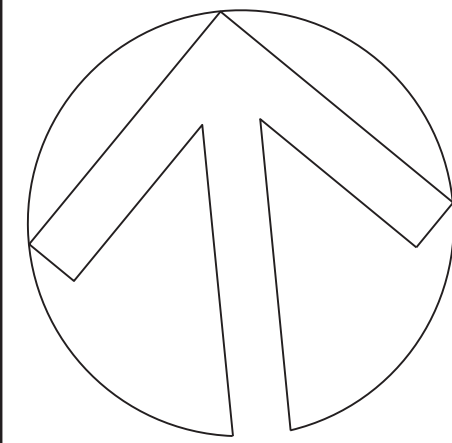
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CAPITAL PROJECT #1521

SHERIFF'S OPERATIONS BUILDING

23 NEW HEMPSTEAD RD
NEW CITY, NY 10956

MECHANICAL SCHEDULES I

PROJECT NO.: 25097 SCALE: AS NOTED

DRAWING NO.:

M500.00