

PACKAGED ROOFTOP UNIT WITH ELECTRIC HEAT SCHEDULE																					
			FAN DATA						COOLING				HEATING			ELECTRICAL DATA					
MARK	MANUFACTURER	MODEL	TONS	TOTAL CFM	O.A. CFM	E.S.P. *WG	RPM	B.H.P.	TOTAL MBH	SENS. MBH	EAT DBWB	AMB DB	STAGES	LAT °F	KW HEATER	POWER V/PH	MCA	MOCP	IEER (SEER)	WGT. LBS	NOTES
RTU-1	YORK	J1ZZJE24	12.5	5000	1400	0.8	1319	4.36	170.8	121.3	80/67	95	1	80	24.0	4603	44.4	50	14.2	1520	1-18
RTU-2	YORK	J1ZZJE24	12.5	5000	1400	0.8	1319	4.36	170.8	121.3	80/67	95	1	80	24.0	4603	44.4	50	14.2	1520	1-19
RTU-3	YORK	J1ZZJE24	12.5	5000	1400	0.8	1319	4.36	170.8	121.3	80/67	95	1	80	24.0	4603	44.4	50	14.2	1520	1-19
RTU-4	YORK	J1ZZJE24	12.5	5000	1400	0.8	1319	4.36	170.8	121.3	80/67	95	1	80	24.0	4603	44.4	50	14.2	1520	1-18
RTU-5	YORK	JA3ZJE06	3.0	1200	213	0.8	850	0.58	37.6	26.6	80/67	95	1	80	6.0	4603	12.3	15	(14.5)	919	1-18
NOTES: 1. TRACTOR SUPPLY COMPANY HAS NATIONAL ACCOUNTS WITH YORK/JOHNSON CONTROLS & LENNOX. PLEASE CALL 1-405-419-6613 FOR YORK/JOHNSON CONTROLS QUOTATIONS AND TECHNICAL SUPPORT. PLEASE CALL 1-800-367-6286 FOR LENNOX QUOTATIONS AND TECHNICAL SUPPORT. ALTERNATE MANUFACTURERS ARE ACCEPTABLE BUT <b>MUST BE COMPATIBLE WITH TSC FURNISHED EMS. MUST BE EQUAL TO UNIT SPECIFIED INCLUDING HINGED DOORS, WARRANTY AND MAINTENANCE REQUIREMENTS.</b> 2. PROVIDE FACTORY FURNISHED 14" HIGH INSULATED ROOF CURB. 3. PROVIDE PROVIDE FACTORY INSTALLED DIRTY FILTER SWITCH AND BLOWER PROVING SWITCH. 4. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY. 5. PROVIDE 5 YEAR PARTS WARRANTY ON COMPRESSORS. 6. PROVIDE FACTORY INSTALLED SMOKE DETECTORS ON THE SUPPLY DUCT DISCHARGES. 7. PROVIDE FACTORY INSTALLED DIFFERENTIAL ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF. O.A. DAMPER SHALL CLOSE DURING UNOCCUPIED HOURS. 8. <b>MECHANICAL CONTRACTOR SHALL PROVIDE A START UP CHECKLIST CONFIRMING ALL UNITS HAVE BEEN PROPERLY STARTED AND CONFIRMED RUNNING PROPERLY. CHECKLIST MUST BE PROVIDED TO TSC VIA CLOSE-OUT BINDER.</b> 9. MECHANICAL CONTRACTOR SHALL PROVIDE A SECOND SET OF FILTERS TO BE INSTALLED PRIOR TO STORE OPENING. 10. UNIT SHALL USE R-410A REFRIGERANT (NO EXCEPTIONS). 11. NON-POWERED CONVENIENCE OUTLET. 12. ALL WORK TO INSTALL ALL CONTROL DEVICES AND WIRING SHALL BE COORDINATED BETWEEN THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR, LOW VOLTAGE VENDOR, AND EMS VENDOR. 13. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND GANG BOXES FOR THERMOSTATS. SEE ELECTRICAL DRAWINGS FOR DETAILS. 14. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS AND GANG BOXES AS NECESSARY FOR FINAL CONNECTIONS TO FUTURE EMS. COORDINATE FINAL LOCATION OF EMS PANEL WITH EMS VENDOR. SEE ELECTRICAL DRAWINGS FOR DETAILS. 15. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY THERMOSTATS AND WIRING FOR CONNECTION TO HVAC UNITS. VERIFY FINAL HEIGHT AND PROVIDE 5' OF ADDITIONAL COILED CABLE. 16. LOW VOLTAGE VENDOR SHALL FURNISH AND INSTALL FINAL THERMOSTATS, CARBON DIOXIDE SENSORS, AND PRE-WIRE FOR EMS. SEE ELECTRICAL DRAWINGS FOR DETAILS. 17. FINAL CONTROL CONNECTIONS TO EMS PANEL TO BE MADE BY EMS VENDOR. 18. PROVIDE UNITS INSTALLED WITHIN 20 MILES OF A COASTAL MARINE AREA WITH A FACTORY INSTALLED EPOXY, OR PHENOLIC BASED COATING TO BOTH THE CONDENSER COILS FOR PROTECTION AGAINST CORROSION CAUSED BY OCEAN SEA SALT. 19. CARBON DIOXIDE SENSOR BY LOW VOLTAGE VENDOR. (SEE CO2 SENSOR SEQUENCE OF OPERATIONS)																					

ELECTRIC UNIT HEATER SCHEDULE							
MARK	MANUFACTURER	MODEL	TOTAL KW	MOUNT	AMPS	POWER V/PH	NOTES
EUH-1	QMARK	CD-558	5	CEILING	24.0	208/1	1,2,3,4,5
NOTES: 1. PROVIDE INTEGRAL DISCONNECT SWITCH. 2. PROVIDE REMOTE THERMOSTAT. 3. PROVIDE 24 VOLT TRANSFORMER START/STOP RELAY. 4. RECESSED MOUNTED. 5. LVW VENDOR TO PROVIDE, INSTALL, AND PRE-WIRE FOR FUTURE EMS. SEE ELECTRICAL DRAWINGS FOR DETAILS.							

FAN SCHEDULE									
MARK	MANUFACTURER	MODEL	SERVICE	CFM	ESP	SONES	WGT.	POWER V/PH	NOTES
EF-1	GREENHECK	SPA110	EXHAUST	100	0.25	0.5	17 LBS	277/1	1-9
EF-2	GREENHECK	SPA110	EXHAUST	100	0.25	0.5	17 LBS	277/1	1-9
NOTES: 1. ACCEPTABLE EQUALS SHALL BE ACME, BREIDERT, CARNES, AND PENN. 2. GRAVITY BACKDRAFT DAMPER. 3. PROVIDE VIBRATION ISOLATION 4. PLUG TYPE DISCONNECT 5. NON-YELLOWING PLASTIC GRILLE 6. PROVIDE WITH SPEED CONTROLLER 7. PROVIDE INSULATED HOUSING FOR SOUND ATTENUATION 8. FAN SHALL BE INTERLOCKED WITH LIGHTSWITCH SERVING SPACE. 9. PROVIDE WITH FACTORY 277V TRANSFORMER.									

AIR DISTRIBUTION SCHEDULE					
MARK	TYPE	DESCRIPTION	DESIGN BASIS		NOTES
			MANUFACTURER	MODEL	
CD-1	SUPPLY	LAY-IN, 24x24 IN. FACE	METAL-AIRE	5500S	1,3,4,6
RG-1	RETURN	LAY-IN, 24x24 IN. FACE, 22x22 IN. NECK, 10" DUCT RUNOUT	METAL-AIRE	CC5TB	3,5,6
SD-1	SUPPLY	CONCENTRIC SUPPLY DIFFUSER, DRUM LOUVERS, 4 WAY THROW	RUSKIN	90-575-201024B	3,5,6
NOTES: 1. PROVIDE SQUARE TO ROUND TRANSITIONS. 2. PROVIDE OPPOSED BLADE DAMPERS IN NECK OF DIFFUSER OR REGISTER, WITH ACCESS TO DAMPER THROUGH FACE OF DIFFUSER OR REGISTER. 3. FINISH SHALL BE OFF-WHITE. 4. STEEL CONSTRUCTION. 5. ALUMINUM CONSTRUCTION. 6. ACCEPTABLE EQUALS SHALL BE ANEMOSTAT, CARNES, KRUEGER, NAILOR, PRICE, TITUS AND TUTTLE & BAILEY. 7. PROVIDE WITH BACKRAIN INSULATION. 8. PROVIDE WITH ACCESSORY MODEL ADJ-D-DA2 (WALL MOUNTED THERMOSTAT)					

VENTILATION SCHEDULE based on 2023 Florida Mechanical Code														
Zone Identification	Occupancy Category	Zone Floor Area A <sub>f</sub> (ft²)	Area Outdoor Airflow Rate R <sub>o</sub> (CFM/ft²)	People Outdoor Airflow Rate R <sub>p</sub> (CFM/person)	Occupant Density (#/1000ft²)	Zone Population P <sub>z</sub> (People)	Zone Air Effectiveness E <sub>z</sub>	Breathing Zone Outdoor Airflow V <sub>bz</sub> (CFM)	Exhaust Rate (CFM/ft²)	Required Exhaust Airflow (CFM)	Actual Provided Airflow (CFM)	Actual Provided Outdoor Airflow (CFM)	Actual Provided Exhaust Airflow (CFM)	Mechanical Unit
102 - Sales	Sales	15457	0.12	7.5	15	232	0.80	4492	0	0	16500	4620	0	RTU-1 THRU 4
105 - Stock Room	Shipping/Receiving	4957	0.12	10	2	10	0.80	867	0	0	3500	960	0	RTU-3 & 4
106 - Hall	Corridors	237	0.06	0	0	0	0.80	18	0	0	200	50	0	RTU-5
107 - Manager	Office Space	78	0.06	5	5	0	0.80	8	0	0	100	25	0	RTU-5
108 - Employee Lounge	Break Rooms	288	0.06	5	25	7	0.80	67	0	0	300	75	0	RTU-5
	Toilets - Private	164	0	0	0	0	0.80	0	25/50 Per Fixture	100	75	0	100	RTU-5
109 - Mens	Toilets - Private	164	0	0	0	0	0.80	0	25/50 Per Fixture	100	75	0	100	RTU-5
110 - Womens	Toilets - Private	164	0	0	0	0	0.80	0	25/50 Per Fixture	100	75	0	100	RTU-5
111 - IT Elec	Telephone/Data Entry	58	0.06	5	60	3	0.80	26	0	0	250	62.5	0	RTU-5
Total		21403									21000	5812.5	200	

MECHANICAL SYMBOL/ABBREVIATION LEGEND			
SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION
	TEMPERATURE THERMOSTAT	ACU	AIR CONDITIONING UNIT
	CARBON DIOXIDE SENSOR	AFF	ABOVE FINISHED FLOOR
	DUCT SMOKE DETECTOR	AL	ACOUSTICAL LINING
		BDD	BACKDRAFT DAMPER
	END OF CONTRACT, CONNECT TO EXISTING	CD	CEILING DIFFUSER
	FIRE DAMPER	CFM	CUBIC FEET PER MINUTE
	MOTORIZED DAMPER	CTE	CONNECT TO EXISTING
	MANUAL VOLUME DAMPER	CUH	CABINET UNIT HEATER
	CEILING DIFFUSER	DDC	DIRECT DIGITAL CONTROL
	RETURN GRILLE	EG	EXHAUST GRILLE
		EAT	ENTERING AIR TEMPERATURE
		EF	EXHAUST FAN
		ESP	EXTERNAL STATIC PRESSURE
		ETR	EXISTING TO REMAIN
		EUH	ELECTRIC UNIT HEATER
		FD	FIRE DAMPER
		GC	GENERAL CONTRACTOR
		LAT	LEAVING AIR TEMPERATURE
		MCA	MINIMUM CIRCUIT AMPCITY
		MOD	MOTOR OPERATED DAMPER
		MOCP	MAXIMUM OVERLOAD PROTECTION
		OA	OUTSIDE AIR
		OBD	OPPOSED BLADE DAMPER
		RA	RETURN AIR
		RG	RETURN GRILLE
		REX	REMOVE EXISTING
		RTU	ROOF TOP UNIT
		SG	SUPPLY GRILLE OR DIFFUSER
		SA	SUPPLY AIR
		TSP	TOTAL STATIC PRESSURE
RETURN OR EXHAUST AIR FLOW DIRECTION SUPPLY AIR FLOW UNDERCUT DOOR			
TURNING VANES ACOUSTIC LINING SPIN-IN BRANCH W/MANUAL DAMPER			
COND     A/C CONDENSATE DRAIN PIPING			
GRILLE/REGISTER INFORMATION DIFFUSER DESIGNATION: CD-1 110 6"0 QUANTITY OF CFM: 110 DUCT RUNOUT SIZE: 6"0			

