

**SALES AREA ROOF TOP UNIT SCHEDULE**

MARK	AREA SERVED	SYSTEM ELECTRICAL						SUPPLY FAN			OUTSIDE AIR (CFM)		TOTAL COOLING CAPACITY		DX COILS						NATURAL GAS HEATING			HEAT RECLAIM COIL			BASED ON / REMARKS				
		VOLTS	PHASE	HZ	MCA	MOPP	EER	E.S.P. (N. WG.)	RPM	HP	TOTAL AIR (CFM)	MIN	MAX	SENSIBLE (BTUH)	LATENT (BTUH)	DESCRIPTION	CONDITIONED AIR (CFM)	CAPACITY (BTUH)		E.A.T. (°F)		L.A.T. (°F)	INPUT (MBH)	OUTPUT (MBH)	CONDITIONED AIR (CFM)	AIR TEMP. RISE (°F)		CAPACITY (BTUH)	TOTAL AIR (CFM)	AIR TEMP. RISE (°F)	REFRIGERANT
																		TOTAL	SENSIBLE	DB	WB										
RTU-1	MAIN SALES	208	3	60	153	200	11.3	1.5	1,287	7.5	10,000	1,500	1,500	227,456	75,764	O.A. PRECOOL COIL	8,000	303,456	227,692	78.5	64.0	52.6	50.7	500	400	10,000	36.87	-	-	-	SEASONS 4 PACKAGE ROOFTOP.
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RTU-2	MAIN SALES	208	3	60	231	250	10.8	1.5	1,086	15	15,500	2,250	4,500	374,694	170,496	O.A. PRECOOL COIL	4,500	141,786	100,780	93.0	73.0	72.7	64.2	800	640	15,500	38.06	-	-	-	SEASONS 4/DUAL PATH PACKAGE ROOFTOP WITH HEAT RECLAIM COIL.
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**NOTES:**

- UNIT SHALL BE PURCHASED BY HARRIS TEETER.
- UNIT SHALL BE CUSTOM DESIGNED TO FIT ON EXISTING CURB AND CONNECT TO EXISTING DUCT. UNIT MANUFACTURER'S REPRESENTATIVE SHALL FIELD VERIFY EXISTING CURB DIMENSIONS PRIOR TO FABRICATION.
- UNIT SHALL BE PROVIDED WITH DUAL MINIMUM OUTSIDE AIR DAMPER. THE RTU-2 OUTSIDE AIR DAMPER POSITION SHALL BE INTERLOCKED WITH THE OPERATION OF THE HOOD EXHAUST FANS EF-1 AND 2. WHEN EXHAUST FANS ARE OPERATING OUTSIDE AIR DAMPER SHALL BE SET TO THE MAXIMUM OUTSIDE AIR SETPOINT, WHEN THE FANS ARE OFF THE OUTSIDE AIR DAMPER SHALL BE SET TO THE MINIMUM OUTSIDE AIR SETPOINT. THE O.A. DAMPER SHALL BE CLOSED DURING THE UNOCCUPIED MODE. THE RTU-1 O.A. DAMPER SHALL BE OPEN TO THE SETPOINT DURING THE OCCUPIED MODE AND CLOSED DURING THE UNOCCUPIED MODE.
- PROVIDE WITH FACTORY MOUNTED RETURN AIR SMOKE DETECTOR. (DETECTOR TO BE PROVIDED BY THE FIRE ALARM SYSTEM VENDOR FOR FACTORY INSTALLATION).
- PROVIDE CONDENSER FAN GUARDS ON THE INLET AND OUTLET SIDES OF CONDENSER FANS.
- FACTORY FURNISHED AND WIRED CPC I/O BOARDS, SENSORS AND MISCELLANEOUS CONTROL DEVICES AS REQUIRED FOR FULL OPERATION OF UNIT.
- PROVIDE HEAT RECLAIM COIL SIZED TO MATCH THE AVAILABLE HEAT RECLAIM FROM THE PRODUCT REFRIGERATION RACKS (VERIFY HEAT RECLAIM DATA WITH REFRIGERATION CONTRACTOR) RTU-2 HEAT RECLAIM COIL: RACK B.
- REFRIGERANT R410A.
- PROVIDE FLEXIBLE DUCT CONNECTORS AT INLET AND OUTLET DUCT CONNECTIONS.
- PROVIDE CONDENSATE PAN OVERFLOW SWITCH INTERLOCKED WITH UNIT CONTROLS TO SHUT OFF UNIT IF MOISTURE REACHES THE OVERFLOW LEVEL.
- PROVIDE SELF CONTAINED HOT GAS REHEAT COILS AND ASSOCIATED DEHUMIDIFICATION CONTROLS.

**ROOF TOP UNIT SCHEDULE**

MARK	AREA SERVED	ELECTRICAL						SUPPLY FAN			OUTDOOR AIR (CFM)	COOLING CAPACITY (NOTE 2)			NATURAL GAS HEATING			MANUFACTURER	MODEL	REMARKS	
		VOLTS	PHASE	HERTZ	MCA	MOP	EER	AIR (CFM)	E.S.P. (N. WG.)	RPM		BHP	TOTAL (MBH)	SENSIBLE (MBH)	SEER (EER)	INPUT (MBH)	OUTPUT (MBH)				AFUE
RTU-4	EXPRESS LANE	230	1	60	14.4	20	800	0.64	MDM	0.33	HP	120	23.1	16.3	14.0	49.38	40.0	0.81	FRASER-JOHNSTON	PCG4A240502X1	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯
RTU-5	VESTIBULE	208	3	60	44.9	50	3,000	1.2	1394	3.45	500	90.2	68.2	(11.0)	180.0	144.0	0.80	FRASER-JOHNSTON	ZU-07N18N2A2BAJ4R2	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯	
RTU-6	DELI/BAKERY	208	3	60	51.7	60	4,000	1.2	1231	3.45	500	121.3	95.3	(11.2)	180.0	144.0	0.80	FRASER-JOHNSTON	ZK-10N18X2A2BAB4R1	①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯	

**NOTES:**

- UNITS SHALL BE PURCHASED BY HARRIS TEETER.
- GROSS COOLING CAPACITIES BASED ON 80°F DB/67°F WB E.A.T. AND 95°F DB O.A.T.
- DOWNFLOW CONFIGURATION.
- PROVIDE THROUGH THE BASE ELECTRICAL CONNECTION WITH FACTORY MOUNTED WEATHERPROOF ELECTRICAL DISCONNECT, ANTI-SHORT CYCLE TIMER, HIGH-LOW PRESSURE SWITCH, COIL GUARDS, THROWAWAY AIR FILTERS AND HINGED ACCESS DOORS.
- PROVIDE PHASE LOSS PROTECTION FOR FIELD INSTALLATION BY ELECTRICAL CONTRACTOR.
- PROVIDE MOTORIZED 0-50% OUTDOOR AIR DAMPER.
- HIGH SPEED, BELT DRIVE, OVERSIZED MOTOR WHERE REQUIRED TO MEET LISTED EXTERNAL STATIC PRESSURE.
- PROVIDE ECONOMIZER WITH ENTHALPY CONTROLS.
- PROVIDE UNITS WITH ALL NECESSARY CONTROLS REQUIRED TO INTERFACE WITH THE ENERGY MANAGEMENT SYSTEM.
- HVAC CONTRACTOR SHALL FIELD INSTALL CPC RTC BOARDS IN WEATHERPROOF ENCLOSURE.
- ALL LOOSE CPC CONTROL COMPONENTS SHALL BE FURNISHED BY HARRIS TEETER.
- PROVIDE 16" HIGH ROOF CURB, INCLUDING BURGLAR BARS. CURBS SHALL BE SLOPED TO MATCH ROOF PITCH. SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPE.
- REFRIGERANT R410A.
- PROVIDE SELF CONTAINED HOT GAS REHEAT COIL AND ASSOCIATED DEHUMIDIFICATION CONTROLS.
- PROVIDE WALL MOUNTED 7 DAY PROGRAMMABLE 2 STAGE COOL/ 2 STAGE HEAT THERMOSTAT WITH NIGHT SETBACK.
- PROVIDE LOW AMBIENT CONTROL TO ALLOW COOLING OPERATION TO 0°F.
- PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET AND OUTLET DUCT CONNECTIONS.
- PROVIDE CONDENSATE PAN OVERFLOW SWITCH INTERLOCKED WITH UNIT CONTROLS TO SHUT OFF UNIT IF MOISTURE REACHES THE OVERFLOW LEVEL.
- UNIT TO BE INSTALLED ON EXISTING CURB. FIELD VERIFY EXISTING CURB DIMENSIONS AND PROVIDE ADAPTER CURB SIZED AS REQUIRED TO ALLOW THE NEW RTU TO FIT ON THE EXISTING CURB AND CONNECT TO EXISTING DUCT.

**NOTE:**

HARRIS TEETER WILL PURCHASE SEASONS 4 ROOFTOP UNITS (RTU-1 AND RTU-2) DIRECTLY FROM SEASONS 4. ALL BIDDING HVAC CONTRACTORS TO CONTACT SEASONS 4 -- SUPERMARKET SALES DEPARTMENT @ (800) 572-9397 (EXT 704) FOR SPECIFIC EQUIPMENT PACKAGE REQUIREMENTS. THE HVAC CONTRACTOR IS RESPONSIBLE FOR ACCEPTING AND COORDINATING EQUIPMENT DELIVERY AND INSTALLATION OF OWNER FURNISHED EQUIPMENT.

**NOTE:**

ALL BIDDING HVAC CONTRACTORS TO CONTACT McNAMARA & COMPANY--RICK THOMAS @ (704) 906-5244 FOR HVAC EQUIPMENT PACKAGE PROPOSAL EXCLUSIVE OF SEASONS 4 UNITS (RTU-1 AND RTU-2). HVAC CONTRACTOR TO PURCHASE EQUIPMENT PACKAGE FROM McNAMARA & COMPANY. NO EXCEPTIONS. HVAC CONTRACTOR IS RESPONSIBLE FOR ACCEPTING AND COORDINATING EQUIPMENT DELIVERY. HARRIS TEETER WILL PURCHASE EXHAUST HOOD, WET CHEMICAL FIRE SYSTEM FOR HOOD, ROOFTOP HVAC UNITS AND ROOFTOP FANS.

**FAN SCHEDULE**

MARK	AREA SERVED	CFM	E.S.P. (N. WG.)	DRIVE TYPE	FAN RPM	MOTOR			MANUFACTURER	MODEL	REMARKS	CONTROL METHOD
						POWER	VOLTS	PHASE				
EF-2	HOOD H-3	1,575	1.5	BELT	1496	1 HP	115	1	COOK	165VH7B	NOTES-1, 3, 8, & 12	HOOD MOUNTED ON/OFF SWITCH
EF-3	RESTROOM	600	0.375	DIRECT	1469	1/8 HP	115	1	COOK	100C15DH	NOTES-2, 6, 8, & 12	FAN TO RUN CONTINUOUSLY
EF-4	RESTROOM	600	0.375	DIRECT	1469	1/8 HP	115	1	COOK	100C15DH	NOTES-2, 6, 8, & 12	FAN TO RUN CONTINUOUSLY
EF-5	MOTOR ROOM	12,000	.25	BELT	532	1 1/2 HP	208	3	COOK	42HEEBB	NOTES-2, 4, 8, 11 & 12	ENERGY MANAGEMENT SYSTEM

**NOTES:**

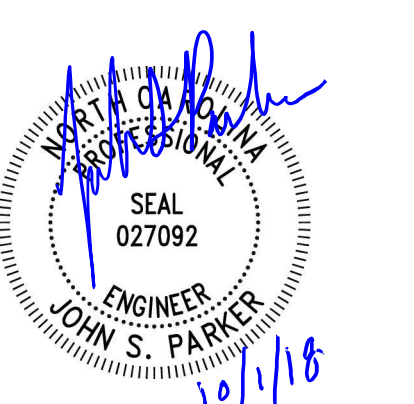
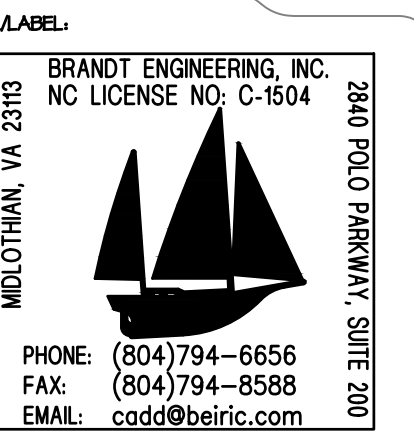
- EF-2 SHALL BE PURCHASED BY HARRIS TEETER.
- EF-3, 4 & 5 SHALL BE PURCHASED BY HVAC CONTRACTOR THROUGH McNAMARA & COMPANY.
- REFER TO SHEET H2.1 FOR COMPLETE FAN SPECIFICATION.
- PREWIRED DISCONNECT, BACKDRAFT DAMPER, BURGLAR BARS, HINGED FAN/CURB CONNECTION.
- WHITE PLASTIC GRILLE, BACKDRAFT DAMPER, ROOF CAP WITH BIRDSCREEN AND CURB.
- FAN SPEED CONTROLLER.
- PRE-WIRED DISCONNECT, INLET/OUTLET FLEX DUCT CONNECTORS, HANGING SPRING ISOLATORS, LINE VOLTAGE CONTROL THERMOSTAT, AND WHITE PLASTIC GRILLE.
- PRE-WIRED DISCONNECT AND HINGED FAN/CURB CONNECTION.
- CURB SHALL BE WELDED TO ROOF DECK.
- BURGLAR BARS
- FAN SHALL BE SHIPPED KNOCKED DOWN, FIELD ASSEMBLY BY MECHANICAL CONTRACTOR.
- FAN SHALL BE INSTALLED ON EXISTING CURB. FIELD VERIFY EXISTING CURB DIMENSIONS AND PROVIDE CURB ADAPTERS SIZED AS REQUIRED TO ALLOW NEW FAN TO FIT ON EXISTING CURB.

**KITCHEN EXHAUST HOOD SCHEDULE**

MARK	EQUIPMENT SERVED	SIZE		TOTAL EXHAUST AIR			MAKE-UP AIR			MANUFACTURER / MODEL	REMARKS	
		LENGTH (IN.)	WIDTH (IN.)	COLLAR S.P. (IN. WG.)	CFM	DUCT SIZE (IN.)	VELOCITY (FFM)	CFM (NOTE 12)	DUCT SIZE			COLLAR S.P. (IN. WG.)
H-1	PIZZA OVEN, OVEN, FRYERS	14'-0"	60"	EXISTING	3514	EXISTING	1800	EXISTING	EXISTING	CAPTIVE AIR / 6024ND-2	①	
H-2	GRIDDLE, WOK, FRYER	7'-0"	60"	EXISTING	1575	EXISTING	-	-	-	CAPTIVE AIR / 6024ND-2	①	

**NOTES:**

- EXISTING HOOD IS DUAL RATED. PROVIDE NEW EXHAUST DUCT AND FAN AS INDICATED TO ACCOMMODATE THE 600 DEG. RATING PER HOOD NAMEPLATE DATA.



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RALEIGH, NORTH CAROLINA

PROJECT MANAGER: KENDRICK STACY  
JOB NO: 04-HVAC-02  
DR. BY: KEH  
REVISIONS:

No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
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SHEET NAME:  
HVAC SCHEDULES, NOTES, LEGEND AND ABBREVIATIONS

SHEET NO. H3.1  
ISSUE DATE: 10/22/18

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