

ABBREVIATIONS

AD	- ACCESS DOOR
AFF	- ABOVE FINISHED FLOOR
AHU	- AIR HANDLING UNIT
BDD	- BACKDRAFT DAMPER
BOD	- BOTTOM OF DUCT
CF	- CEILING FAN
CU	- CONDENSING UNIT
DG	- DOOR GRILLE
DAC	- DOOR AIR CURTIN
E	- EXISTING
EA	- EXHAUST AIR
EAT	- ENTERING AIR TEMPERATURE
EE	- EXISTING EXHAUST
EF	- EXHAUST FAN
EG	- EXHAUST GRILLE
EMS	- ENERGY MANAGEMENT SYSTEM
ER	- EXISTING RETURN
ES	- EXISTING SUPPLY
EUH	- ELECTRIC UNIT HEATER
EW	- ELECTRIC WALL HEATER
GALV	- GALVANIZED
GC	- GENERAL CONTRACTOR
H	- KITCHEN EXHAUST HOOD
IMC	- INTERNATIONAL MECHANICAL CODE
I/O	- INPUT OUTPUT CONTROL
LAT	- LEAVING AIR TEMPERATURE
LP	- LOUVERED PENTHOUSE
NFPA	- NATIONAL FIRE PROTECTION ASSOCIATION
MAU	- MAKEUP AIR UNIT
N	- NEW
NI	- NEGATIVE IONIZER
NIMC	- NOT IN MECHANICAL CONTRACT
NTS	- NOT TO SCALE
OA	- OUTDOOR AIR
R	- RETURN GRILLE
RA	- RETURN AIR
RTC	- ROOF TOP CONTROL
RTU	- ROOF TOP UNIT
S	- SUPPLY DIFFUSER
SA	- SUPPLY AIR
SS	- STAINLESS STEEL
TG	- TRANSFER GRILLE
TOD	- TOP OF DUCT
VCD	- VOLUME CONTROL DAMPER
UH	- UNIT HEATER
VIF	- VERIFY IN FIELD

LEGEND

	KEYED NOTE		ROUND REDUCING WYE BRANCH
	THERMOSTAT		VOLUME CONTROL DAMPER
	THERMOSTAT WITH LOCKING COVER		SQUARE TO ROUND CONNECTION
	CPC EMS TEMPERATURE SENSOR		SUPPLY RECTANGULAR DUCT UP
	CPC EMS HUMIDITY SENSOR		RETURN RECTANGULAR DUCT UP
	CPC EMS DEW POINT SENSOR		SUPPLY RECTANGULAR DUCT DOWN
	FAN SPEED CONTROLLER		RETURN RECTANGULAR DUCT DOWN
	DUCT MOUNTED SMOKE DETECTOR		RECTANGULAR BULLHEAD TEE WITH TURNING VANES
	DOOR AIR CURTAIN MICROSWITCH CONTROLLER		RECTANGULAR ELBOW WITH TURNING VANES
	HOOD FIRE SUPPRESSION SYSTEM MANUAL PULL STATION		RECTANGULAR RADIUS ELBOW
	AIR DEVICE (REFER TO SCHEDULE)		FLEXIBLE DUCT MAXIMUM 5'-0"
	EQUIPMENT MARK NUMBER (REFER TO SCHEDULE)		CONDENSATE LINE
	RETURN ROUND DUCT UP		1" DOOR UNDERCUT (FURNISHED WITH DOOR)
	SUPPLY ROUND DUCT UP		TO BE DEMOLISHED
	SUPPLY ROUND DUCT DOWN		TIE-IN / CONNECT NEW WORK TO EXISTING
	RETURN ROUND DUCT DOWN		
	ROUND ELBOW		
	ROUND LOOSS TEE		
	45" ROUND LATERAL		
	ROUND REDUCING BULLHEAD TEE WITH VANES		
	ROUND SPIRAL DOUBLE WALL DUCT		

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	AIR (CFM)	E.S.P. (IN. WG.)	RPM	BHP		TOTAL (MBH)	SENSIBLE (MBH)	SEER (EER)	INPUT (MBH)	OUTPUT (MBH)	AFUE			
RTU-6	USD, DEPT. & STORE MANAGER OFFICES	208	1	60	10.1	15.0	600	0.5	825	1/8 HP	75	17.70	12.60	13.0	40.00	31.92	0.798	TRANE	4YCC3018	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰

- 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 WITH HACR CIRCUIT BREAKER, ANTI-SHORT CYCLE TIMER, HIGH-LOW PRESSURE SWITCH, COIL GUARDS, THROWAWAY AIR FILTERS.
 - PROVIDE PHASE LOSS PROTECTION (ICM450) FOR FIELD INSTALLATION BY ELECTRICAL CONTRACTOR.
 - PROVIDE MANUAL 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 14" 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 CF.
 - PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET AND OUTLET DUCT CONNECTIONS.

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-6	HOOD H-2	1,200	1.5	BELT	1826	3/4 HP	115	1	COOK	185YX6B	NOTES-1, 3, 8 & 9	HOOD MOUNTED ON/OFF SWITCH
TF-1	SPRINKLER RISER ROOM	330	0.25	DIRECT	1205	1/3 W	115	1	COOK	GC-520	NOTES-2 & 7	THERMOSTAT CONTROL

- NOTES:**
- EF-6 SHALL BE PURCHASED BY HARRIS TEETER.
 - TF-1 SHALL BE PURCHASED BY HVAC CONTRACTOR THROUGH McNAMARA & COMPANY.
 - REFER TO SHEET H2.1 FOR COMPLETE FAN SPECIFICATION.
 - PREWIRED DISCONNECT, ROOF CURB, 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.
 - HINGED FAN/CURB CONNECTION.
 - CURB SHALL BE WELDED TO ROOF DECK.
 - BURGLAR BARS.
 - FAN SHALL BE SHIPPED KNOCKED DOWN, FIELD ASSEMBLY BY MECHANICAL CONTRACTOR.

NOTE:
ALL BIDDING HVAC CONTRACTORS TO CONTACT McNAMARA & COMPANY—RICK THOMAS @ (704) 243-3811 FOR HVAC EQUIPMENT PACKAGE PROPOSAL. 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.

KITCHEN EXHAUST HOOD SCHEDULE

MARK	EQUIPMENT SERVED	SIZE		COLLAR S.P. (N. WG.)	TOTAL EXHAUST AIR			MANUFACTURER / MODEL	REMARKS
		LENGTH (IN.)	WIDTH (IN.)		CFM	DUCT SIZE (IN.)	VELOCITY (FPM)		
H-2	PIZZA OVEN	5'-5"	45"	-0.5"	1200	10"x10"	1728	CAPTIVE AIR / 4524ND-2	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- NOTES:**
- REFER TO ARCHITECTURAL FIXTURE SCHEDULE FOR SPECIFIC KITCHEN EQUIPMENT TO BE INSTALLED BELOW HOOD. VERIFY COOKING APPLIANCE LINE-UP WITH HARRIS TEETER PRIOR TO FABRICATION OF HOOD AND ASSOCIATED FIRE SUPPRESSION SYSTEM.
 - PROVIDE MASTER ELECTRIC PANEL WITH EXHAUST FAN MOTOR STARTER AND ALL MISC. CONTROL DEVICES AND WIRING TO MATCH HOOD REQUIREMENTS. PROVIDE WITH INTEGRAL MAIN DISCONNECT SWITCH IN ACCORDANCE WITH NEC 430.101 AND 430.102. SEE HOOD CONTROL DRAWING H2.1.
 - PROVIDE HOOD MOUNTED SWITCH PANEL WITH LIGHT SWITCH, FAN SWITCH AND PILOT LIGHT.
 - PROVIDE HOOD WITH COMPLETE UL 300 LISTED FIRE SUPPRESSION SYSTEM INCLUDING MECHANICAL GAS SHUT OFF VALVE AS REQUIRED BY NFPA, IMC AND LOCAL JURISDICTION.
 - ALL EXPOSED HOOD SURFACES SHALL BE 18 GA. TYPE 304 STAINLESS STEEL.
 - WALLS ADJACENT TO HOODS SHALL BE COVERED FLOOR TO CEILING WITH CERAMIC TILE BY GENERAL CONTRACTOR. SEE ARCHITECTURAL DWGS.
 - HOODS NOT FLUSH WITH CEILING SHALL BE PROVIDED WITH STAINLESS STEEL CEILING CLOSURE FROM TOP OF HOOD TO 6" ABOVE FINISHED CEILING.
 - PROVIDE UL INCANDESCENT LIGHTS (QUANTITY AND LOCATION AS REQUIRED TO MAINTAIN A MINIMUM OF 50 FOOT CANDLES ON THE COOKING SURFACE), FILTERS AND ACCESSORIES AS INDICATED ON HOOD DETAILS. SEE DWG H2.1.
 - HOOD SHALL BE PURCHASED BY HARRIS TEETER.
 - PROVIDE HEAT SENSORS IN HOOD EXHAUST OUTLETS INTERLOCKED WITH HOOD EXHAUST FAN TO OPERATE FAN WHEN COOKING EQUIPMENT UNDER HOOD IS OPERATING.

AIR DEVCIE SCHEDULE

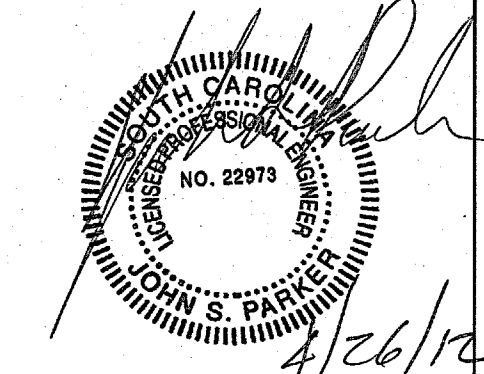
MARK	CFM	CONN. SIZE (NOTE 1)	N.C.	DAMPER	MODEL NO.	BASED ON / REMARKS	
						CRUEGER/DUCT MOUNTED, 4-WAY	ACUTHERM/THERMUFUSER, THERMALLY POWER HEATING COOLING VAV DIFFUSER WITH AUTO CHANGEOVER T'STAT
S1	50	6x6	<10	-	SSHP4C	CRUEGER/DUCT MOUNTED, 4-WAY	
S2	300	9x9 (8x)	<23	-	SSHP4C	CRUEGER/24x24 LAY-IN, 4-WAY	
S3	250	8x	<25	-	TF-HC	ACUTHERM/THERMUFUSER, THERMALLY POWER HEATING COOLING VAV DIFFUSER WITH AUTO CHANGEOVER T'STAT	
R1	285	10x10	<18	-	S580	CRUEGER/24x24 LAY-IN, HORIZ. BLADES, 3/4" SPACING, 35° DEFLECTION	
TG1	330	10x10	<23	-	S580	CRUEGER/SURFACE MOUNTED, HORIZ. BLADES, 3/4" SPACING, 35° DEFLECTION	

- NOTES:**
- ALL AIR DEVICES SHALL BE PURCHASED BY HVAC CONTRACTOR THROUGH McNAMARA & COMPANY.
 - GENERAL CONTRACTOR TO FIELD PAINT TO MATCH WALL COLOR.

AIR BALANCE SCHEDULE

SUPPLY AIR SYSTEMS				EXHAUST SYSTEMS			
UNIT NO.	SUPPLY CFM	RETURN CFM (MINIMUM)	OUTSIDE AIR CFM	UNIT NO.	EXHAUST CFM		
HVAC-1	EXISTING	23,000	18,000	5,000	HOOD H-1	EXISTING	2,400
HVAC-2	EXISTING	3,100	2,600	500	EF-1	EXISTING	750
HVAC-3	EXISTING	3,200	2,600	600	EF-2	EXISTING	150
HVAC-4	EXISTING	5,500	4,900	600	EF-3	EXISTING	50
HVAC-5	EXISTING	1,200	1,020	180	EF-4	EXISTING	600
AHU-1	EXISTING	800	680	120	EF-5	EXISTING	100
RTU-6	NEW	600	525	75	EF-6	NEW	1200
TOTAL OUTSIDE AIR				7,075			
TOTAL EXHAUST AIR				5,250			
PRESSURIZATION				1,825			

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HARRIS TEETER #149
NORTHWOOD SQUARE
ROCK HILL, SC

PROJECT MANAGER	Ross Stacy
JOB NO.	12-11748-02
DL BY	REM
REVISIONS	
No.	Date

HVAC SCHEDULES, NOTES, LEGEND AND ABBREVIATIONS