

GENERAL:

- LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS.
- IT IS VERY IMPORTANT THAT ACCURATE MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENINGS TO ENSURE THAT NO ADDITIONAL OFFSETS ARE REQUIRED IN THE EXHAUST DUCTWORK. COORDINATE ROOF OPENINGS WITH THE KITCHEN EQUIPMENT.
- PROVIDE ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.

HVAC:

- INSTALLATION SHALL CONFORM TO THE ENERGY CONSERVATION DESIGN MANUAL STANDARDS FOR NEW NONRESIDENTIAL BUILDINGS, IF REQUIRED.
- ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
- COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL CONNECTIONS.
- ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS.
- FOR INSTALLATION OF RECHARGEABLE REFRIGERANT LINES FROM ICE MACHINE TO CONDENSER ON ROOF, SEE SCOPE OF WORK.
- HVAC UNITS SHALL BE MOUNTED ON ROOF CURBS.
- ALL DUCTWORK SHALL BE EXTERNALLY INSULATED.
- ALL SUPPLY / RETURN DUCTS SHALL BE RIGID, WITH THE EXCEPTION OF THE LAST 10'-0" WHICH MAY BE FLEX.
- SMOKE DETECTOR SHALL BE INSTALLED IN THE RETURN AIR DUCT AND SHALL DEACTIVATE ROOFTOP UNIT UPON SENSING SMOKE. SMOKE DETECTOR SHALL BE INSTALLED, PRIOR TO ANY OUTSIDE AIR CONNECTIONS.
- ALL HOOD EXHAUST DUCTS SHALL BE RIGID 16 GA MINIMUM, WELDED DUCT. GRIND ALL WELDS SMOOTH. PROVIDE FIRE MASTER DUCT WRAP FOR ALL HOOD EXHAUST DUCTS. SEE 15M4.0.
- ALL BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT TAKEOFFS FOR AIR BALANCING. PROVIDE ACCESS PANELS TO DAMPERS. SEE 8 / M4.0.
- ALL UTILITY PIPING FOR RTUS SHALL RUN UP THROUGH ROOF INSIDE EACH UNITS ROOF CURB.
- ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND / OR VENTS.
- SEE 5 / M1.0 AND SCOPE OF WORK FOR DESCRIPTION OF HVAC PACKAGE TO BE PURCHASED THROUGH YUMI BRANDS NATIONAL CONTRACT.
- FINAL HVAC SYSTEM TESTING AND BALANCING SHALL BE PERFORMED BY INDEPENDENT AGENT CONTRACTED DIRECTLY BY THE OWNER. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENT'S ARRIVAL, EQUIPMENT NOT WIRED, ETC.) AND SHALL BE A COST INCURRED BY THE G.C. IN THE EVENT A SYSTEM / STORE RECEIVES A GRADE OF 5 OR BELOW AS A RESULT OF THE HVAC SYSTEM PERFORMANCE OR OPERATIONAL DEFICIENCIES, OWNER WILL REQUEST A RE-TEST AND THE COST FOR SAME SHALL BE ALSO INCURRED BY THE GENERAL CONTRACTOR.
- THERMOSTATS SHALL BE PROVIDED BY ENERGY MANAGEMENT SYSTEM (EMS) SUPPLIER, SEE SCOPE OF WORK.
- REMOTE THERMOSTAT SENSORS SHALL BE PROVIDED BY ENERGY MANAGEMENT SYSTEM (EMS) SUPPLIER, SEE SCOPE OF WORK.
- SUPPLY AIR TEMPERING (SAT) CONTROL SHALL BE PROVIDED BY ENERGY MANAGEMENT SYSTEM (EMS) SUPPLIER, SEE SCOPE OF WORK. SAT FUNCTION: IF ROOM TEMPERATURE IS AT ESTABLISHED "SET-POINT", AND THE SUPPLY DUCT TEMPERATURE IS 10 DEGREES BELOW SET-POINT, SAT CONTROLS INITIATE FIRST STAGE HEATING TO PREVENT COLD AIR DRAFTS FROM ENTERING THE CONDITIONED SPACE.
- SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES INSIDE THE BUILDING. WHERE LOCATED OUTDOORS, SUPPLY AND RETURN DUCTS SHALL BE INSULATED WITH A MINIMUM OF R-8 INSULATION. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, SUCH AS A WALL OF THE BUILDING THERMAL ENVELOPE, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED SPACE BY A MINIMUM OF R-8 INSULATION.
- MECHANICAL SYSTEMS SHALL BE COMMISSIONED PER IECC 2018 C403.2.2, C408.2.1, C408.2.5 FINAL COMMISSIONING REPORT SHALL BE DUE WITHIN 90 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY.
- A COMMISSIONING PLAN SHALL BE DEVELOPED BY A LICENSED DESIGN PROFESSIONAL, MECHANICAL ENGINEER OR APPROVED AGENCY.
- A PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY THE LICENSED DESIGN PROFESSIONAL, ELECTRICAL ENGINEER, MECHANICAL ENGINEER OR APPROVED AGENCY AND PROVIDED TO THE BUILDING OWNER OR OWNERS AUTHORIZED AGENT AS PER IECC 2018 C408.2.
- ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.

THERMOSTATIC CONTROLS:

- GENERAL: THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE INDIVIDUALLY CONTROLLED BY THERMOSTATIC CONTROLS RESPONDING TO TEMPERATURE WITHIN THE ZONE. FOR THE PURPOSES OF SECTION 6.4.3.1, A DWELLING UNIT SHALL BE PERMITTED TO BE CONSIDERED A SINGLE ZONE.
- DEAD BAND: WHERE USED TO CONTROL BOTH HEATING AND COOLING, ZONE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEAD BAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM.
EXCEPTIONS: THERMOSTATS THAT REQUIRE MANUAL CHANGEOVER BETWEEN HEATING AND COOLING MODES.
- SETBACK CONTROLS: HEATING SYSTEMS LOCATED IN CLIMATE ZONES 2-8 SHALL BE EQUIPPED WITH CONTROLS THAT HAVE THE CAPABILITY TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN ZONE, ARE CAPABLE OF TEMPERATURES ABOVE A HEATING SETPOINT ADJUSTABLE DOWN TO 55°F OR LOWER. COOLING SYSTEMS LOCATED IN CLIMATE ZONES 1B, 3B, AND 3B SHALL BE EQUIPPED WITH CONTROLS THAT HAVE THE CAPABILITY TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN ZONE TEMPERATURES BELOW A COOLING SETPOINT ADJUSTABLE UP TO 90°F OR HIGHER OR TO PREVENT HIGH SPACE HUMIDITY LEVELS.
- AUTOMATIC SHUTDOWN: HVAC SYSTEMS SHALL BE EQUIPPED WITH AT LEAST ONE OF THE FOLLOWING CONTROLS THAT CAN START AND STOP THE SYSTEM UNDER DIFFERENT TIME SCHEDULES FOR SEVEN DIFFERENT DAY-TYPES PER WEEK RETAINING PROGRAMMING AND TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST TEN HOURS, AND INCLUDE AN ACCESSIBLE MANUAL OVERRIDE, OR EQUIVALENT FUNCTION, THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO TWO HOURS.
- SETPOINT OVERLAP RESTRICTION: WHERE HEATING AND COOLING TO A ZONE ARE CONTROLLED BY SEPARATE ZONE THERMOSTATIC CONTROLS LOCATED WITHIN THE ZONE, MEANS (SUCH AS LIMIT SWITCHES, MECHANICAL STOPS, OR, FOR DDC SYSTEMS, SOFTWARE PROGRAMMING) SHALL BE PROVIDED TO PREVENT THE HEATING SETPOINT FROM EXCEEDING THE COOLING SETPOINT MINUS ANY APPLICABLE PROPORTIONAL BAND.

GENERAL NOTES 6

SYMBOL & ABBREV.	DESCRIPTION
	SA/SUP SUPPLY AIR (RISE/DROP)
	RA/RET RETURN AIR DUCT (RISE/DROP)
	EA/EXH EXHAUST AIR DUCT (RISE/DROP)
	CD/SR CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)
	RR/RG RETURN REGISTER/GRILLE
	ER/EG EXHAUST REGISTER/GRILLE
	RECTANGULAR DUCT ELBOW WITH TURNING VANES
	FC FLEXIBLE CONNECTION
	MVD MANUAL VOLUME DAMPER
	FD FIRE DAMPER
	L DUCT LINING (1" THICK UNLESS OTHERWISE NOTED)
	SINGLE LINE DUCT BRANCH TAKEOFF
	DUCT TRANSITION (RECTANGULAR TO ROUND)
	FLEX FLEXIBLE DUCT (14'-0 MAXIMUM)
	T-STAT THERMOSTAT: SEE HVAC NOTE 17, THIS SHEET
	TS THERMOSTAT SENSOR (REMOTE): SEE HVAC NOTE 18, THIS SHEET
	CD CONDENSATE DRAIN
	Ø DIA. DIAMETER
	DL DOOR LOUVER
	UC DOOR UNDERCUT
	MECHANICAL EQUIPMENT DESIGNATION
	A/C, AC AIR CONDITIONING
	BDD BACK DRAFT DAMPER
	SD SMOKE DETECTOR, SEE HVAC NOTE 10, THIS SHEET.

MECHANICAL SYMBOLS 7

SYMBOL & ABBREV.	DESCRIPTION
CB	CIRCUIT BREAKER
CLG.	CEILING
CONN.	CONNECT/CONNECTION
CONT.	CONTINUATION
CONTR.	CONTRACTOR
CFM	CUBIC FEET PER MINUTE
DET.	DETAIL
DISC.	DISCONNECT
DTR	DOWN THRU ROOF
EF	EXHAUST FAN
(E)	EXISTING
(EMS)	ENERGY MANAGEMENT SYSTEM
GA.	GAGE/GAUGE
GC	GENERAL CONTRACTOR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
MFR.	MANUFACTURER
MECH.	MECHANICAL
(N)	NEW
OA/OSA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
S/S	STAINLESS STEEL
TYP.	TYPICAL
UN	UNLESS OTHERWISE NOTED
UTR	UP THRU ROOF

XX-XXX MARK	AREA SERVED	FAN DATA					COOLING CAPACITY			HEATING CAPACITY				UNIT ELECT DATA			MAX UNIT WEIGHT (LBS)	MANUFACTURER AND MODEL NUMBER	REMARKS
		SUPPLY CFM	MIN O.A. CFM	ESP (IN W.G.)	HP	RPM	NOM TONS	MIN CAP (MBH) TOT/SEN	MIN EER/SEER	INPUT STAGE (MBH)	OUTPUT (MBH)	PHASE (STAGES)	AFUE (%)	MCA (A)	MOC (A)	VOLTAGE/ PHASE			
RTU-1(E)	KITCHEN	4000	800	0.8	2.75	1313	10.0	111/86.3	12.4/12.4	150	120	2	80	48	60	208/3	1510	TRANE YHC120	BY LANDLORD
RTU-2(E)	DINNING	3000	700	0.8	2.75	1086	7.5	86.5/65.3	12.4/12.4	120	96	1	80	42	50	208/3	1273	TRANE YHC092	BY LANDLORD

HVAC UNIT SCHEDULE 1

XX XXX MARK	CFM	ESP (IN W.G.)	RPM	HP	ELECT	STARTER	ACCESSORIES					MANUFACTURER AND MODEL NUMBER	REMARKS
							DISC	BDD	BDD SCREEN	V-BELT	D-DK		
EF-1	2100	1.039	1516	1.0	208/1	-	X		X	X		ACCUREX XRUD-160HP-VG	SEE NOTES 1,2,3,4,5,6 & 9
EF-2	2100	1.039	1516	1.0	208/1	-	X		X	X		ACCUREX XRUD-160HP-VG	SEE NOTES 1,2,3,4,5,6 & 9
EF-3	570	0.375	1376	0.08	115/1	-	X	X	X		X	ACCUREX XRUD-095-D	SEE NOTES 2,6,7,8,10,11
MUA-1	3360	1.58	1079	3	208/3	-	X	X			X	ACCUREX XDXG-112-H22-10	SEE NOTES 9

- REMARKS:
- UL 762 LISTED (GREASE)
 - VENTED ROOF CURB
 - ROOF CURB
 - GREASE TROUGH
 - HINGED ROOF CURB
 - WEATHERROOF DISCONNECT SWITCH
 - SOLID STATE SPEED CONTROLLER
 - BACKDRAFT DAMPER
 - EXHAUST FANS PROVIDED BY HOOD MANUFACTURER. REFER TO HOOD DRAWINGS FOR MORE INFORMATION.
 - PROVIDED WITH DAMPER TRAY
 - UL705 LISTED (HEAT OR STEAM)

FAN SCHEDULE 2

XX XXX MARK	QUANTITY	NECK SIZE (IN.)	DIFFUSER FACE OR CEILING GRID SIZE (IN.)	TYPE			AIR PATTERN	MOUNTING		DUTY			MATERIAL		MANUFACTURER	MODEL NUMBER	REMARKS
				DIFFUSER	REGISTER	GRILL		LA-VIN	SURFACE	SUPPLY	RETURN	EXHAUST	ALUMINUM	PLASTER			
S-1	0	12 Ø	24x24	X			4W		X	X				X	AMERICAN LOUVER	STR-C-12W	EQUAL BY METAL-AIRE/PRICE
S-2	3	10Ø	24x24	X			4W		X	X				X	AMERICAN LOUVER	STR-C-10W	EQUAL BY METAL-AIRE/PRICE
S-3	5	12 x 12	24 x 24	X			4W		X	X			X		METAL-AIRE / TITUS	5000-6 / TDC-AA	FRN SQUARE TO ROUND ADAPTER
S-4	4	9 x 9	12 x 12	X			4W		X	X	X		X		METAL-AIRE / TITUS	5000-1 / TDC-AA	FRN SQUARE TO ROUND ADAPTER
S-5	3	16Ø	24x24	X			VERTICAL		X	X	X		X		METAL-AIRE / TITUS	7000 / PAS-AA	VERTICAL DISCHARGE
R-1	5	22 x 22	24 x 24		X				X		X		X		METAL-AIRE / TITUS	CC5-FB-TB / 50FF	FRN SQUARE TO ROUND ADAPTER, FULLY REMOVABLE FACE
R-2	2	10 x 10	14 x 14		X				X		X		X		METAL-AIRE / TITUS	CC5-FB-TB / 50FF	FRN SQUARE TO ROUND ADAPTER, FULLY REMOVABLE FACE
T-1	0	--	12 X 8		X				X		X		X		METAL-AIRE / TITUS	MODEL L / 35OR	

- NOTES:
- DIFFUSERS IN SURFACE MOUNTED CEILINGS SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS.
 - REFER TO ARCHITECTURAL DRAWINGS (A7.1, A7.2) FOR CEILING TYPES.

AIR DEVICE SCHEDULE 3

TRANE PACKAGE
 FOR COMPLETE INFORMATION AND PRICING ON THE TRANE HVAC PACKAGE CONTACT MARTY CUSICK, THE YUMI BRANDS ACCOUNT EXECUTIVE AT TRANE NATIONAL ACCOUNTS. TOLL-FREE PHONE: (866) YUM-HVAC or (866) 986-4822. FAX: (502) 499-7870. EMAIL: mjcusick@trane.com

TRANE HAS AGREED TO SUPPLY AN HVAC PACKAGE CONSISTING OF THE ROOF-TOP UNITS, AND CURBS. RTUS AS SPECIFIED INCLUDE AN UNPOWERED CONVENIENCE OUTLET (SEE ELECTRICAL) AND AN HACR CIRCUIT BREAKER WHICH PROVIDES UNIT DISCONNECT. TRANE ALSO HAS AVAILABLE OPTION PACKAGES WHICH INCLUDE SMOKE DETECTORS AND ENUNCIATORS, ECONOWIZERS, AND RTU VARIATIONS SUCH AS HIGH-EFFICIENCY MODELS.

BE PREPARED AT TIME OF ORDER OR QUOTE REQUEST TO PROVIDE ALL PROJECT DETAILS REGARDING SPECIFICATIONS AND QUANTITIES AS SITE SPECIFIC DESIGN MAY NOT MATCH NATIONAL DESIGN.

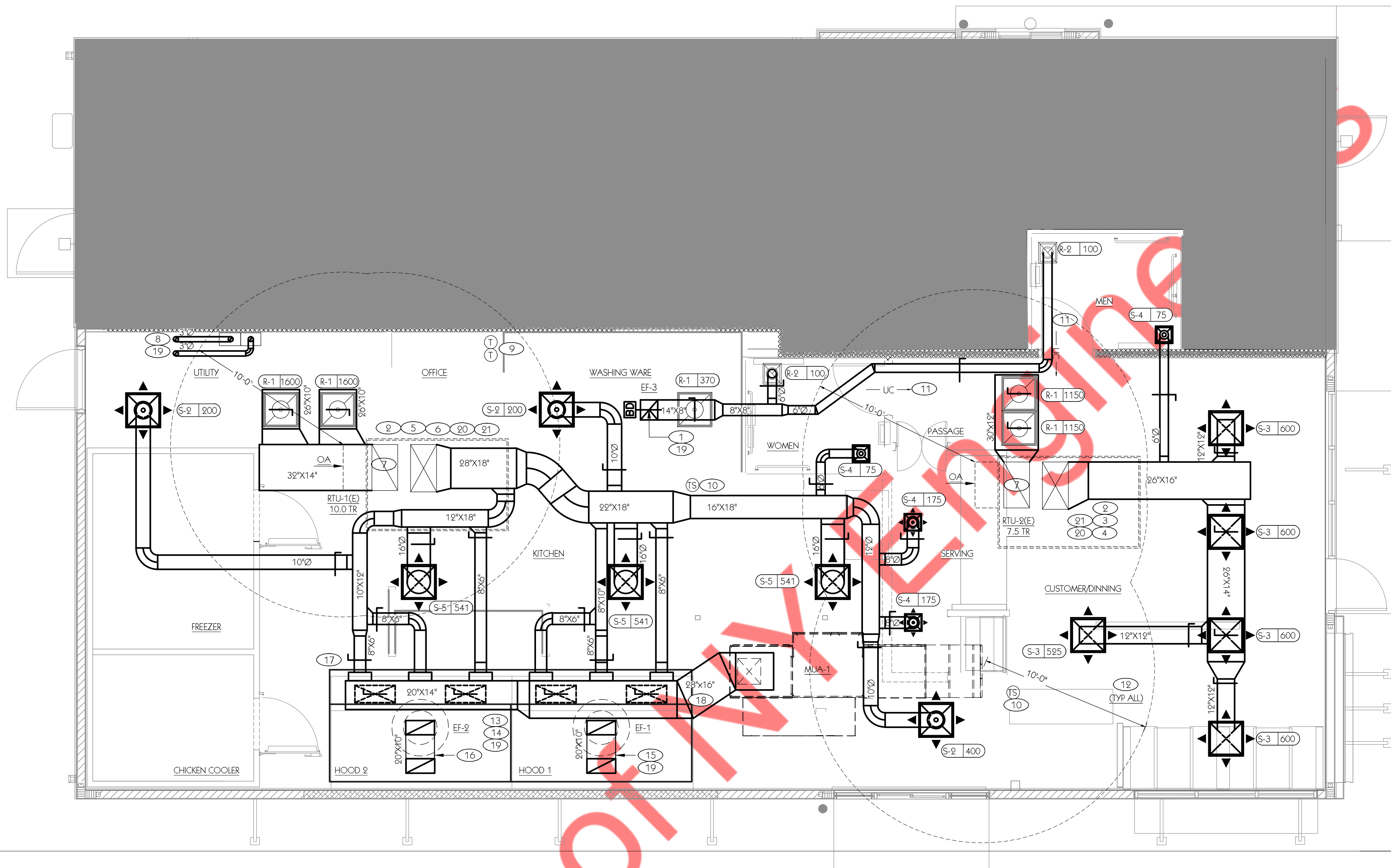
SEE THE SCOPE OF WORK SHEETS FOR ADDITIONAL INFORMATION.

ENERGY MANAGEMENT SYSTEM (EMS)
 SEE SHEET E6.1 AND SCOPE OF WORK SHEETS FOR CONTACT INFORMATION / TECHNICAL SUPPORT.

EMS AND TRANE PACKAGES N.T.S. 5

ITEM	OA	RA	SA	EA	PRESSURE
EF-1	--	--	--	2100	-2100
EF-2	--	--	--	2100	-2100
EF-3	--	--	--	570	-570
RTU-1	800	3200	4000	--	+800
RTU-2	700	2300	3000	--	+700
MUA-1	3360	--	--	--	+3360
TOTAL	4860	5500	7000	4770	+90

AIR BALANCE SCHEDULE CFM 4



NOTE TO PLAN REVIEWER:
 APPROVE PLANS "AS NOTED". WALK-IN COOLER/FREEZER DESIGN INFORMATION SHALL BE SUBMITTED LATER AS AN RTAP.

DUCT AND DIFFUSER PLAN 1/4"=1'-0" **A**

- A. INSTALLATION AND TERMINATION OF THE POWERED VENT SYSTEM FOR THE WATER HEATER SHALL BE IN ACCORDANCE WITH THE VENT AND WATER HEATER MANUFACTURERS INSTALLATION INSTRUCTIONS, AND LOCAL CODES AND REQUIREMENTS.
- B. DINING ROOM / KITCHEN LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE DUCTWORK LOCATIONS SO AS NOT TO CONFLICT WITH LIGHT FIXTURE LOCATIONS. COORDINATE WITH ELECTRICAL DRAWINGS FOR CEILING GRID / LIGHT FIXTURE LOCATIONS.
- C. THERMOSTATS SHALL BE PROGRAMMABLE WITH SUBBASE AND REMOTE TEMPERATURE SENSOR; REFER TO KEYNOTES 9 AND 10, THIS SHEET.
- D. S/A DUCTS FOR RTU-2(E) (FRONT OF HOUSE) SHALL RUN WITHIN THE TRUSS WEB SPACE; COORDINATE WITH STRUCTURAL DRAWINGS. SEE DETAIL 1 / S4.2.

- 1 8"Ø EXHAUST AIR DUCT UP TO ROOF MOUNTED FAN EF-3, 570 CFM. SEE DETAIL 1 ON SHEET M4.0. PROVIDE BACKDRAFT DAMPER IN EACH EXHAUST DUCT CONNECTING EXHAUST FAN TO 8"Ø EXHAUST DUCT. EXHAUST FANS + MOTOR DAMPERS SHALL BE WIRED TO RESTROOM LIGHTS AND CONTROLLED BY MOTION SENSOR; COORDINATE WITH ELECTRICAL.
- 2 THE INSIDE OF THE RETURN AIR DUCTS SHALL BE LINED FROM THE AIR HANDLING EQUIPMENT TO A DISTANCE OF 10' FROM THE UNIT WITH ULTRAITE #300 - 1/2" THICK OR OTHER APPROVED DUCT LINEAR ACOUSTICAL BOARD. THE MATERIAL SHALL BE FITTED CAREFULLY ON THE INSIDE OF THE DUCT AND SHALL BE FASTENED ON WITH CEMENT SUPPLEMENTED BY SCREWS AND WASHERS ON TOP AND SIDES OF DUCT.
- 3 26"X16" SUPPLY AIR DUCT. 3000 CFM. CONNECT TO SUPPLY AIR OPENING AT ROOFTOP UNIT, RTU-2(E) (COORDINATE WITH RTU SUPPLIER/SPECIFICATIONS).
- 4 28"X12" RETURN AIR DUCT. 2300 CFM. CONNECT TO RETURN AIR OPENING AT ROOFTOP UNIT, RTU-2(E) (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).
- 5 28"X18" SUPPLY AIR DUCT. 4000 CFM. CONNECT TO SUPPLY AIR OPENING AT ROOFTOP UNIT, RTU-1(E) (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).
- 6 32"X18" RETURN AIR DUCTS. 3200 CFM. CONNECT TO RETURN AIR OPENING AT ROOFTOP UNIT, RTU-1(E) (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).
- 7 FURNISH AND INSTALL SMOKE DETECTOR IN THE RETURN AIR DUCT, IN ACCORDANCE WITH LOCAL CODES. DUCT SMOKE DETECTOR WIRED BY ELECTRICAL CONTRACTOR; COORDINATE WITH ELECTRICAL.
- 8 FURNISH AND INSTALL 3" SCHEDULE 40 PVC WATER HEATER VENT AND OUTSIDE AIR DUCT TO ROOF. COORDINATE WORK WITH ALL TRADES.
- 9 THERMOSTAT BY ENERGY MANAGEMENT SYSTEM (EMS) SUPPLIER. SEE DETAIL 1 / E6.1.
- 10 THERMOSTAT REMOTE SENSOR BY ENERGY MANAGEMENT SYSTEM (EMS) SUPPLIER. MOUNT AT 60" A.F.F.
- 11 UNDERCUT RESTROOM DOORS MIN. 1/2" FOR MAKE-UP AIR.
- 12 PROVIDE MANUAL VOLUME DAMPER, TYPICAL AT ALL SUPPLY AIR AND RETURN AIR DIFFUSERS, IN ACCESSIBLE LOCATION WHENEVER POSSIBLE. FOR NON ACCESSIBLE LOCATIONS PROVIDE REMOTE CABLE CONTROL UNIT BOWDEN MODEL 270-301 AS MANUFACTURED BY YOUNG REGULATOR CO. OR APPROVED EQUAL.
- 13 CANTILEVER HOOD SUPPORT RODS AWAY FROM DUCTWORK. USE ANGLE TO OFFSET THE SUPPORTS.
- 14 SUPPLY, RETURN, OR EXHAUST DUCTWORK RUN BETWEEN ROOF TRUSSES.
- 15 20"X10 EXHAUST AIR DUCT DOWN, TRANSITION AS NECESSARY TO CONNECT TO EXHAUST HOOD. EXHAUST DUCT SHALL OFFSET IN CEILING SPACE TO CONNECT TO ROOF EXHAUST FAN EF-1. SEE HOOD DETAILS ON DRAWING M3.0. SEE DETAILS ON SHEET M4.0 FOR FIRE PROTECTION OF DUCTWORK.
- 16 20"X10 EXHAUST AIR DUCT DOWN, TRANSITION AS NECESSARY TO CONNECT TO EXHAUST HOOD. EXHAUST DUCT SHALL OFFSET IN CEILING SPACE TO CONNECT TO ROOF EXHAUST FAN EF-2. SEE HOOD DETAILS ON DRAWING M3.0. SEE DETAILS ON SHEET M4.0 FOR FIRE PROTECTION OF DUCTWORK.
- 17 SUPPLY AIR CONNECTION TO HOOD PLENUM. BALANCE TO 192 CFM EACH (TYP OF 6)
- 18 MAKE-UP AIR CONNECTION TO HOOD PLENUM. BALANCE TO 840 CFM EACH (TYP OF 4)
- 19 CONTRACTOR TO FIELD VERIFY THAT THE LOCATION OF ANY INTAKE SOURCE SHOULD BE AT LEAST 10' AWAY FROM THE ALL EXHAUST DUCT TERMINATING ON ROOF.
- 20 CONTRACTOR TO RUN CONDENSATE DRAIN FROM RTUS TO NEAREST ROOF DRAIN OR DOWN SPOUT.
- 21 ON DOWN FLOW UNITS AND ALL OTHER COILS THAT DO NOT HAVE A SECONDARY OR AUXILIARY DRAIN OR PROVISIONS TO INSTALL A SECONDARY OR AUXILIARY DRAIN PAN, A WATER LEVELING DEVICE SHALL BE INSTALLED INSIDE THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE EQUIPMENT SERVED IN THE EVENT THAT THE PRIMARY DRAIN BECOMES RESTRICTED. DEVICES INSTALLED IN THE DRAIN LINE SHALL NOT BE PERMITTED.

VENTILATION CALCULATION										
ROOM NAME	AREA (SQ.FT.)	NUMBER OF PEOPLE/1000sq.ft AS PER 2018 IMC	NUMBER OF PEOPLE AS PER 2018 IMC	NUMBER OF CHAIR	FINAL PEOPLE NO.	MIN OUTSIDE AIR AS PER 2018 IMC		REQ. OA (CFM)	PROVIDE D OA (CFM)	TOTAL EXHAUST (CFM)
						CFM/PEOPLE	CFM/SQ.FT			
DINING	430	70	31	39	39	7.5	0.18	370	1500	0
SERVING	80	15	2	2	2	7.5	0.12	25		0
KITCHEN	1010	0	0	6	0	0	0	0		0.7
WOMEN TOILET	62	0	0	0	0	0	0	0		70
MEN TOILET	62	0	0	0	0	0	0	0		70
TOTAL								395		847

GENERAL NOTES **D**

KEY NOTES **C**

VENTILATION TABLE **B**