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.
- 3. PROVIDE ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.
- 4. ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY GC

HVAC:

- . INSTALLATION SHALL CONFORM TO THE ENERGY CONSERVATION DESIGN MANUAL STANDARDS FOR NEW NONRESIDENTIAL BUILDINGS, IF REQUIRED.
- 2. $\,$ 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 LEVEL ON ROOF CURBS.
- 8. ALL DUCTWORK SHALL BE EXTERNALLY INSULATED.
- 9. ALL SUPPLY / RETURN DUCTS SHALL BE RIGID, WITH THE EXCEPTION OF THE LAST 10'-0" WHICH MAY BE FLEX.
- 10. 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.
- 11. 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 15/M4.0.
- 12. ALL BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT TAKEOFFS FOR AIR BALANCING. PROVIDE ACCESS PANELS TO DAMPERS. SEE 8 / M4.0.
- 13. ALL UTILITY PIPING FOR RTU'S SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB.
- 14. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND / OR VENTS.
- 15. SEE 8 / M1.0 AND SCOPE OF WORK FOR DESCRIPTION OF HVAC PACKAGE TO BE PURCHASED THROUGH YUM! BRANDS NATIONAL CONTRACT.

DESCRIPTION

SMOKE DETECTOR; SEE GENERAL NOTE 10, THIS SHEET.

- 16. 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.
- 17. THERMOSTATS; SEE SCOPE OF WORK.

SYMBOL & ABBREV.

- 18. REMOTE THERMOSTAT SENSORS; SEE SCOPE WORK.
- 19. SUPPLY AIR TEMPERING (SAT) CONTROL; 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.

SYMBOL & ABBREV.

	SA/SUP	SUPPLY AIR (RISE/DROP)	СВ	CIRCUIT BREAKER
	RA/RET	RETURN AIR DUCT (RISE/DROP)	CLG.	CEILING
	EA/EXH	EXHAUST AIR DUCT (RISE/DROP)	CONN.	CONNECT/CONNECTION
√ □►	CD/SR	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)	CONT.	CONTINUATION
Ø	RR/RG	RETURN REGISTER/GRILLE	CONT'R	CONTRACTOR
Ø	ER/EG	EXHAUST REGISTER/GRILLE	CFM	CUBIC FEET PER MINUTE
		RECTANGULAR DUCT ELBOW WITH TURNING VANES	DET.	DETAIL
	FC	FLEXIBLE CONNECTION	DISC.	DISCONNECT
	MVD	MANUAL VOLUME DAMPER	DTR	DOWN THRU ROOF
	FD	FIRE DAMPER	EF	EXHAUST FAN
	(L)	DUCT LINING (1" THICK UNLESS OTHERWISE NOTED)	(E)	EXISTING
		SINGLE LINE DUCT BRANCH TAKEOFF	GA.	GAGE/GAUGE
7 7		DUCT TRANSITION (RECTANGULAR TO ROUND)	GC	GENERAL CONTRACTOR
	FLEX	FLEXIBLE DUCT (14'-0 MAXIMUM)	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
T	T-STAT	THERMOSTAT: SEE GENERAL NOTE 17, THIS SHEET	MFR.	MANUFACTURER
TS		THERMOSTAT SENSOR (REMOTE): SEE GENERAL NOTE 18, THIS SHEET	MECH.	MECHANICAL
——CD——	CD	CONDENSATE DRAIN	(N)	NEW
Ø	DIA.	DIAMETER	OA/OSA	OUTSIDE AIR
——DL ——	DL	DOOR LOUVER	OBD	OPPOSED BLADE DAMPER
——UC——	UC	DOOR UNDERCUT	S/S	STAINLESS STEEL
(X-X 0000)		MECHANICAL EQUIPMENT DESIGNATION	TYP.	TYPICAL
	A/C , AC	AIR CONDITIONING	UON	UNLESS OTHERWISE NOTED
	BDD	BACK DRAFT DAMPER	UTR	UP THRU ROOF

		FAN DATA						DLING CAPA	CITY	HEAT C	APACITY	UNIT ELECT DATA			MAX			
XX-XXX MARK	AREA SERVED	SUPPLY CFM	MIN O.A. CFM	ESP	HP	RPM	NOM TONS	MIN CAP (MBH) TOT/SEN	MIN EER	ELEC (kw)	PHASE (STAGES)	VOLTS/ PH	MCA	MOCP	UNIT WEIGHT (LBS)	MANUFACTURER AND MODEL NUMBER	REMA	REVIEWED
RTU-1	DINING	3400	600	0.8	2.0	811	8.5	107.2/84.2	11.2	13.5	1	208/3	56	60	937	TRANE TSC102	SEE NOT	For Code Compliance City of Ocala Growth Management
RTU-2	KITCHEN	5000	600	0.8	3.0	772	12.5	139.1/111.5	11.0	13.5	1	208/3	67	80	1375	TRANE TSC150	SEE NOT	BLD22-1101 09/07/22

- 1. LISTED CAPACITY IS GROSS COOLING CAPACITY AT 80°F DB/67°F WB EAT AND 95°F AMBIENT. OUTDOOR DESIGN CONDITION, SUMMER: 95°F DB & 74°F WB, WINTER: 17°F. ADJUST SELECTION BASED ON ACTUAL SITE CONDITIONS AND ACTUAL MOTOR HEAT. REFRIGERANT SHALL BE 410A.
- 2. SPECIFIED RTU'S ARE DOWN DISCHARGE PACKAGED ELEC/ELEC ROOFTOP UNITS WITH MINIMUM 2-STAGE COOLING. INCLUDES THROUGH THE ROOF CURB POWER & CONDENSATE DRAIN.
- 3. SPECIFIED UNIT INCLUDES HINGED ACCESS DOORS, 2" PLEATED FILTERS, MOTORIZED OUTSIDE AIR DAMPER, CIRCUIT BREAKER WITH SINGLE POINT WIRING, HAIL GUARD, AND FACTORY FABRICATED, KNOCK-DOWN ROOF CURB.
- 4. SPECIFIED UNIT INCLUDES A UN-POWERED CONVENIENCE OUTLET AND SMOKE DUCT DETECTOR IN THE RETURN DUCT OF UNIT.
- 5. SPECIFIED UNIT INCLUDES FACTORY INSTALLED HOT GAS REHEAT OPTION
- 6. SUPPLY AIR TEMPERING (SEE GENERAL NOTE 19, THIS SHEET): WINTER DESIGN DB TEMP. 47 DEG. F OR LESS HOT GAS REHEAT: RTU-1 (DINING) SUMMER DESIGN WB TEMP. 74 DEG. F (OR GREATER). RTU-2 (KITCHEN) SUMMER DESIGN WB TEMP. 75 DEG. F (OR GREATER).

HVAC UNIT SCHEDULE

		ACCESSORIES											
XX XXX MARK	CFM	SP	RPM	HP	ELECT	STARTER	DISC	BDD	BIRD SCREEN	V-BELT	D-DR	MANUFACTURER AND MODEL NUMBER	REMARKS
EF-1	1700	1.3	1414	.75	115/1	-	Х		Х	X		SVDU85HFA	SEE NOTES 1,2,3,4,5,6 & 9
EF-2	1700	1.3	1414	.75	115/1	-	×		X	X		SVDU85HFA	SEE NOTES 1,2,3,4,5,6 & 9
EF-3	100	0.5	1075	135W	120/1	-	Х	Х			Х	COOK GC-148	SEE NOTES 7,8
EF-4	100	0.5	1075	135W	120/1	-	Х	Х			Х	COOK GC-148	SEE NOTES 7,8
												SVAID 250610	

- 1. UL 762 LISTED (GREASE) 2. VENTED ROOF CURB
- **ROOF CURB** GREASE TROUGH HINGED ROOF CURB
- WEATHERPROOF DISCONNECT SWITCH 7. SOLID STATE SPEED CONTROLLER
- BACKDRAFT DAMPER EXHAUST FANS PROVIDED BY HOOD MANUFACTURER.
- REFER TO HOOD DRAWINGS FOR MORE INFORMATION.

FAN SCHEDULE

	DIFFUSER FAC		DIEFLISER FACE	DIEFLISER FACE	DIFFUSER FACE		TYPE		AIR	MOU	NTING		DUTY		MATI	ERIAL			
XX XXX MARK	QUANTITY	NECK SIZE	OR CEILING GRID SIZE	L ER ER		GRILL	PATTERN CFM RANGE	LAY-IN	SURFACE	SUPPLY	RETURN	EXHAUST	ALUMINUM	STEEL	MANUFACTURER	MODEL NUMBER	REMARKS		
S-1		AS NOTED	24 x 24	Х				×		Х			Х		METAL-AIRE / TITUS	5000-6 / TDC-AA	FRN SQUARE to ROUND ADAPTER		
S-4		AS NOTED	12 x 12	X				X	X	X			X		METAL-AIRE / TITUS	5000-1 / TDC-AA	FRN SQUARE to ROUND ADAPTER		
S-5		14"Ø	24x24	X				X	X	X			X		METAL-AIRE / TITUS	7000 / PAS-AA	VERTICAL DISCHARGE		
R-1		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		
								-											
								-											
								-											

SEE NOTES 9

NOTES:

12

10

GENERAL NOTES

DESCRIPTION

MECHANICAL SYMBOLS

1. DIFFUSERS IN SURFACE MOUNTED CEILINGS SHALL BE PROVIDED WITH OPPOSED BLADE DAMPERS.

MAU-1 | 2720 | 0.5 | 1019 | 1.0 W | 208/3 | - | X | X | | | X |

2. REFER TO ARCHITECTURAL DRAWINGS (A7.1, A7.2) FOR CEILING TYPES.

AIR DEVICE SCHEDULE

TRANE PACKAGE

FOR COMPLETE INFORMATION AND PRICING ON THE TRANE HVAC PACKAGE CONTACT MARTY CUSICK, THE YUM! BRANDS ACCOUNT EXECUTIVE AT TRANE NATIONAL 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. RTU'S 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, ECONOMIZERS, 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.

ITEM	OA	RA	SA	EA	PRESSURE
EF-1				1700	-1700
EF-2				1700	-1700
EF-3				100	-100
EF-4				100	-100
RTU-1	600	2800	3400		+600
RTU-2	600	4400	5000		+600
MAU-1	2720				+2720
TOTAL	3920	7200	8400	3600	+320
	AIF	R BALANC	CE SCHE	DULE CF	М 4

signed by

10:26:40 ROBERT WAYNE CASE

FLORIDA PE. #44643 PLAN SET REVISIONS:

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CONTRACT DATE: BUILDING TYPE:

.-..-2019

Kb 30-19

2019-304

2018.A

PLAN VERSION: SITE NUMBER:

LIS PROJECT;

ENTITY NUMBER: STORE NUMBER:

KFC





MECHANICAL SCHEDULES AND NOTES

PLOT DATE:

TRANE PACKAGES N.T.S. 8