GENERAL NOTES:

1. DEVIATIONS FROM THE HVAC PLANS ARE THE RESPONSIBILITY OF THE HVAC CONTRACTOR & WILL NOT RESULT IN ADDITIONAL COSTS TO THE OWNER UNLESS WRITTEN CHANGE ORDERS ARE APPROVED BY THE OWNER.
2. ALL WORK TO BE PERFORMED TO STATE AND LOCAL CODES & SMACNA GUIDELINES.
3. INSTALL UNITS ACCORDING TO MANUFACTURERS GUIDELINES.
4. PROVIDE OWNER w/OPERATION & MAINTENANCE MANUALS & SYSTEM SCHEMATICS.
5. CONTRACTOR TO CONFIRM VOLTAGES & PHASES OF EQUIPMENT PRIOR TO INSTALLATION.
6. EXHAUST FANS AND FURNACE FANS TO RUN CONTINUOUSLY DURING OCCUPIED MODE.
7. VERIFY w/ OWNER EXACT HEATER LOCATION TO AVOID BUILDING FUNCTION INTERFERENCE.
8. NIGHT SET BACK THERMOSTATS TO BE INSTALLED ON ALL HVAC EQUIPMENT.
9. INSULATE DUCT WORK TO SMACNA GUIDELINES AND STATE CODES.
10. INSTALL VOLUME CONTROL DAMPERS AS INDICATED ON PLANS.
11. MAINTAIN AT LEAST 10 FEET CLEARANCE FROM INTAKES OR WINDOWS ON ALL EXHAUST VENTS.
12. RETURN AIR DUCT WORK TO BE LINED FOR SOUND ATTENUATION.
13. FLEXIBLE ROUND DUCT WORK NOT TO EXCEED 8 FEET IN LENGTH. AVOID UNNECESSARY. TURNS & SLACK.
14. DUCT WORK TO BE STANDARD GAUGE SHEET METAL (FIBROUS DUCT NOT ALLOWED).
15. COORDINATE WORK WITH GENERAL CONTRACTOR & OWNER TO MAXIMIZE CEILING HEIGHT & AVOID CONFLICTS.
16. TEST, ADJUST & CALIBRATE CONTROL SYSTEMS AS REQUIRED. PROVIDE SCHEMATICS & DESCRIPTION TO THE OWNER PRIOR TO INSTALLATION.
17. INSULATE EXHAUST DUCT FOR EXHAUST FAN TO EXTERIOR TERMINATION.
18. CONTRACTOR TO VERIFY GAS METER CAPACITY WITH LOCAL GAS SUPPLIER.
19. VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION (DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT REFLECT EXACT LOCATIONS OF EQUIPMENT OR OTHER APPARATUSES.)
20. PROVIDE SHOP DRAWINGS TO THE ARCHITECT/DESIGNER FOR EQUIPMENT, FANS, REGISTERS ETC. PRIOR TO PROCUREMENT
21. PROVIDE OWNER WITH COLOR CHOICES FOR SWITCHES AND OTHER APPARATUSES WHERE APPLICABLE.
22. VENT OWNER'S WATER HEATERS AS REQUIRED.
23. VENT DRYER TO EXTERIOR AS REQUIRED. MAINTAIN CLEARANCES FROM INTAKES AS NOTED ABOVE.
24. HANGER AND SUPPORT MATERIALS SHALL BE INSTALLED TO THE LATEST EDITION OF THE ASHRAE HANDBOOK OF FUNDAMENTALS.
25. HVAC CONTRACTOR RESPONSIBLE FOR A COMPLETE AND FULLY WORKING SYSTEM.
26. REPLACE ALL AIR FILTERS PRIOR TO TURNING SYSTEM OPERATIONS OVER TO OWNER.
27. INSTALLER IS RESPONSIBLE FOR FINAL TEST & BALANCING DURING TRAINING WEEK & PROVIDE A WRITTEN REPORT TO OWNER.
28. HVAC CONTRACTOR TO INSTALL #2 GAS w/ 14" WATER COLUMN MAX. PER STATE CODE & AGA GUIDELINES (LABEL AS REQUIRED).
29. DUCT DIMENSIONS LISTED ARE NET FREE - CLEAR INSIDE DIMENSIONS.
30. VERIFY DUCT LOCATIONS PRIOR TO FABRICATION. VERIFY LIMITED AREA FOR DUCTWORK & OTHER APPARATUSES.
31. S/S WALL PANELS FOR THE KITCHEN AREA ARE TO BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. PANELS ARE TO BE 18 GA. TYPE 304 S/S WITH #4 FINISH. SEE DETAILS AND LOCATIONS ON THE ARCHITECTURAL DRAWINGS.
32. ALL ROOFTOP MECHANICAL EQUIPMENT WILL BE SHIELDED FROM VIEW OF THE PUBLIC RIGHT-OF-WAY AND ADJACENT STREETS BY MATERIAL COMPATIBLE WITH THE BUILDING ARCHITECTURE, BY PARAPET WALL, OR BY A DESIGNATED ROOFTOP ENCLOSURE.
33. ALL SUPPLY AND RETURN DUCTWORK TO BE LOCATED IN TRUSS SPACE. COORDINATE WITH TRUSS SUPPLIER.

H.V.A.C. SPECIFICATIONS:

15010 MECHANICAL REQUIREMENTS:

DO ALL WORK IN COMPLIANCE WITH ALL APPLICABLE CODES, LAWS AND ORDINANCES, THE STANDARD BUILDING CODE AND THE REGULATIONS OF THE LOCAL UTILITY COMPANIES. OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS.

COOPERATE WITH OTHER TRADES AND CONTRACTORS AT JOB. PERFORM WORK IN SUCH MANNER AND AT SUCH TIMES AS NOT TO DELAY WORK OF OTHER TRADES.

OBTAIN MANUFACTURER'S DATA ON ALL EQUIPMENT, THE DIMENSIONS OF WHICH MAY AFFECT INSTALLATION. USE THIS DATA TO COORDINATE PROPER SERVICE CHARACTERISTICS, ENTRY LOCATIONS, ETC., AND TO INSURE MINIMUM CLEARANCES ARE MAINTAINED.

WORKMAN SHALL BE EXPERIENCED IN THEIR RESPECTIVE TRADE. WORKMANSHIP OF INSTALLED WORK SHALL BE FIRST CLASS AND WILL BE SO JUDGED. SUBSTANDARD WORK SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL AND DOES HEREBY WARRANT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION TO BE FREE FROM DEFECTS AND TO FUNCTION OR OPERATE SATISFACTORILY FOR ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK, AND THAT ANY ITEMS NOT MEETING THIS REQUIREMENT WILL BE MADE GOOD BY HIM WITHOUT ANY COST TO THE OWNER.

PROVIDE ONLY NEW, STANDARD FIRST-GRADE MATERIALS THROUGHOUT, CONFORMING TO STANDARDS ESTABLISHED BY UNDERWRITER LABORATORIES INC., AND SO MARKED AND LABELED, TOGETHER WITH MANUFACTURER'S BRAND OR TRADEMARK. ALL LIKE ITEMS SHALL BE OF ONE MANUFACTURER.

ALL WORK SHALL BE EXECUTED IN A MANNER THAT SHALL PRESENT A NEAT APPEARANCE UPON COMPLETION. CARE SHALL BE EXERCISED THAT ALL ITEMS ARE PLUMB, STRAIGHT AND LEVEL.

UPON COMPLETION OF WORK, ALL SYSTEMS SHALL BE TESTED, AND SHALL BE SHOWN TO BE IN PERFECT WORKING CONDITION IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.

ANY WALLS, CEILINGS, EQUIPMENT, ETC., DAMAGED BY THE CONTRACTOR IN CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED, RESTORED AND/OR REPLACED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION, OR TO PERFORM ITS INTENDED FUNCTION, AT NO ADDITIONAL COST TO OWNER.

15055 PIPING:

PIPING SHALL BE NEW AND IN GOOD CONDITION. ALL PIPING SHALL CONFORM TO ALL APPLICABLE STATE, COUNTY AND LOCAL CODES.

PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES.

PIPING SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION. OFFSETS AS REQUIRED TO COORDINATE WITH STRUCTURE AND OTHER TRADES SHALL BE MADE AT NO ADDITIONAL COST.

PIPING SHALL BE TESTED IN ACCORDANCE WITH INDUSTRY ACCEPTED METHODS. LEAKS SHALL BE REPAIRED AND ANY LOST REFRIGERANT SHALL BE REPLACED AT NO ADDITIONAL COST.

DIELECTRIC UNIONS SHALL BE INSTALLED IN ALL COPPER AND FERROUS PIPING CONNECTIONS.

15891 DUCTWORK:

ALL DUCTWORK MATERIALS AND INSTALLATION SHALL CONFORM TO APPLICABLE STATE, COUNTY AND LOCAL CODES. DUCTWORK SHALL BE ALL NEW AND IN GOOD CONDITION.

DUCT DIMENSIONS NOTED ARE INSIDE DIMENSIONS AND DO NOT INCLUDE INSULATION OR LINER.

DUCTWORK SHALL BE INSTALLED TO AVOID CONFLICT WITH OTHER TRADES. ANY OFFSETS REQUIRED SHALL BE INSTALLED AT NO ADDITIONAL COST.

FABRICATE DUCTWORK FROM SHEET METAL. DUCT SHALL BE INSULATED WITH 3" DUCT WRAP INSULATION. DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCTWORK STANDARDS.

EXPOSED DUCTWORK IN THE DINING AREAS SHALL BE INSULATED, SPIRAL DUCT.

GREASE DUCTS SERVING TYPE 1 HOODS SHALL BE CONSTRUCTED OF MIN 16 GA STEEL OR 18 GA STAINLESS STEEL. GREASE DUCTS SERVING TYPE 1 HOODS SHALL MAINTAIN A MIN CLEARANCE TO COMBUSTIBLE CONSTRUCTION OF 18 INCHES AND A CLEARANCE TO NONCOMBUSTIBLE CONSTRUCTION OF 3 INCHES. GREASE DUCTS THAT CANNOT MEET THE MIN CLEARANCES SHALL BE WRAPPED WITH UNIFAX FYREWRAP OR EQUIVALENT BETWEEN THE HOOD AND THE EXTERIOR OF THE BUILDING.

PROVIDE CLEANOUTS FOR GREASE EXHAUST DUCT AT THE BASE OF EVERY VERTICAL TRANSITION, AT EVERY CHANGIN IN DIRECTION AND AT A MINIMUM OF 12 FT IN HORIZONTAL. GREASE DUCT SHALL BE SLOPED AT A MIN OF 1/4" PER FOOT OF HORIZONTAL.

15990 TEST AND BALANCE:

TEST AND BALANCE ALL AIR SYSTEMS IN ACCORDANCE WITH AABC AND/OR NEBB REQUIREMENTS. ALL EQUIPMENT USED FOR TESTING SHALL BE IN PROPER WORKING ORDER.

THE CONTRACTOR SHALL REGULATE AND ADJUST ALL SPLITTERS, DEFLECTORS AND DAMPERS SO THAT THE INLET OR OUTLET SHALL DELIVER OR REMOVE THE REQUIRED NUMBER OF CUBIC FEET OF AIR PER MINUTE (CFM) AT THE RESPECTIVE OPENINGS.

15991 VIBRATION AND NOISE:

PROVIDE VIBRATION ISOLATORS AND ACOUSTIC INSULATION AS REQUIRED TO ELIMINATE ANY OBJECTIONABLE NOISE OR VIBRATION.

CONTROL NOTES

1. WIRE RTU-1, RTU-2 TO SHUT-DOWN & EXHAUST HOOD FANS TO CONTINUE TO RUN UPON ACTIVATION OF THE ANSUL SYSTEM.
2. WIRE RTU-1 & RTU-2 TO SHUT-DOWN UPON ACTIVATION OF ANY IN-DUCT SMOKE DETECTOR.
3. OCCUPIED MODE: FANS IN RTU-1 & RTU-2, EXHAUST FANS KEF-1, 2 & 3 AND EF-1, 2 & 3 TO RUN CONTINUOUSLY.
4. UNOCCUPIED MODE: FANS IN RTU-1 & RTU-2 TO RUN ONLY WHEN COOLING OR HEATING IS CALLED FOR.

LENNOX SETTINGS FOR CULVERS

Kitchen Unit

Parameter 3.01 HEAT DELAY NEEDS TO BE SET TO "DISABLED". CONTROL PARAMETER 3.01=0 Pg. 92
ECONOMIZER DIP SWITCHES A56 (EM1) NEED TO BE SET TO "GLOBAL" MODE. 1=ON 2=OFF (PG. 5 FIG 8)
ECONOMIZER MIN POSITION POTENTIOMETER NEEDS TO BE DETERMINED AND SET BY AIR BALANCER. (Pg. 52 FIG 33)
BOTH THE THERMOSTAT AND THE HOOD FANS MUST BE TIED INTO TB1 TERMINAL 8&9 FOR OCC/UNOCC CONTROL.
FRESH AIR TEMPERING (HEATING) CONTROL PARAMETER 6.20=160 "-55F" (KITCHEN IS USUALLY IN COOLING MODE)
(PARAMETER 6.20 Pg 99; x CHARTS Pg 109)

Dining Room Unit

PARAMETER 3.01 HEAT DELAY NEEDS TO BE SET TO "DISABLED". CONTROL PARAMETER 3.01=0 Pg 92
ECONOMIZER DIP SWITCHES A56 (EM1) NEED TO BE SET TO ECONOMIZER TYPE PURCHASED/INSTALLED. 1=? 2=?
(Pg 5 FIGURE 8)
ECONOMIZER MIN POSITION POTENTIOMETER NEEDS TO BE DETERMINED AND SET BY AIR BALANCER. (Pg 52 FIGURE 33)
THE THERMOSTAT MUST BE TIED INTO TB1 TERMINAL 8&9 FOR OCC/UNOCC CONTROL
FRESH AIR TEMPERING (HEATING) CONTROL PARAMETER 6.20=142 "68F" (ROOM NEUTRAL)
(PARAMETER 6.20 PAGE 99; x CHARTS PAGE 109)

OTHER PARAMETERS THAT WE DIDN'T SET, BUT ARE PART OF START-UP:
ROOM SET POINT
REMOTE SENSOR OPERATION
TEMP DEADBANDS

CHECK FOR CORRECT OPERATION AND WIRING OF ALL SENSORS.

NATIONAL ACCOUNT PROGRAM

1. LENNOX INDUSTRIES, INC. - ROOFTOP HVAC EQUIPMENT
   National Accounts Sales: (800) 367-6285 Option #1 lennoxind.com
   National Account Technical Support: (800) 367-6285 Option #2 lennoxind.com

2. ACCRUREX/ GREENHECK FAN CORPORATION - KITCHEN HOODS, EXHAUST FANS,
   ROOF CURBS, ANSUL SYSTEMS, AND ACCESSORIES AND TEST AND BALANCE
   CONTACT Phillip Kraft @ 1-262-227-7865 or phillip.kraft@accurex.com
   Secondary contact Brad Borchardt 1-715-551-0809 brad.borchardt@accurex.com
   or Andy Jacobs andy.jacobs@accurex.com
   ACCUREX WILL PROVIDE BALANCED AIRFLOW AND FUNCTIONAL CHARACTERISTICS OF THE HVAC AS THEY RELATE TO AIRFLOW AND RESISTANCE ONLY.
   SERVICES TO BE PERFORMED BY A CERTIFIED NEBB FIRM AND ITS MANAGING GROUP - NATIONAL TAB

3. CARNES COMPANY - DIFFUSERS AND GRILLES
   National Accounts Rep: Brian Baker @ (608) 845-6411
   bbaker@carnes.com
   National Accounts Sales: Chris Stratton @ (608) 845-6411
   cstratton@carnes.com

SAVANT Engineering, LLC
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Project 22048.002 ©2022
COA#: PEF004211
EXPIRES: 6/30/2024

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www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION

DRAWN BY: RGV
CHK'D BY: RGV

PROJECT TITLE:
Location: CULVER'S PART TRACT A PCB PG 714 & 825 VALDOSTA, GA.

Culver Franchising System, Inc.
1240 Water Street
Prairie du Sac, WI 53578
608-643-7980
METRO MIRROR M 2022

SHEET TITLE:
H.V.A.C. LEGENDS AND SPECIFICATIONS

PROJECT NO: 22004

M001

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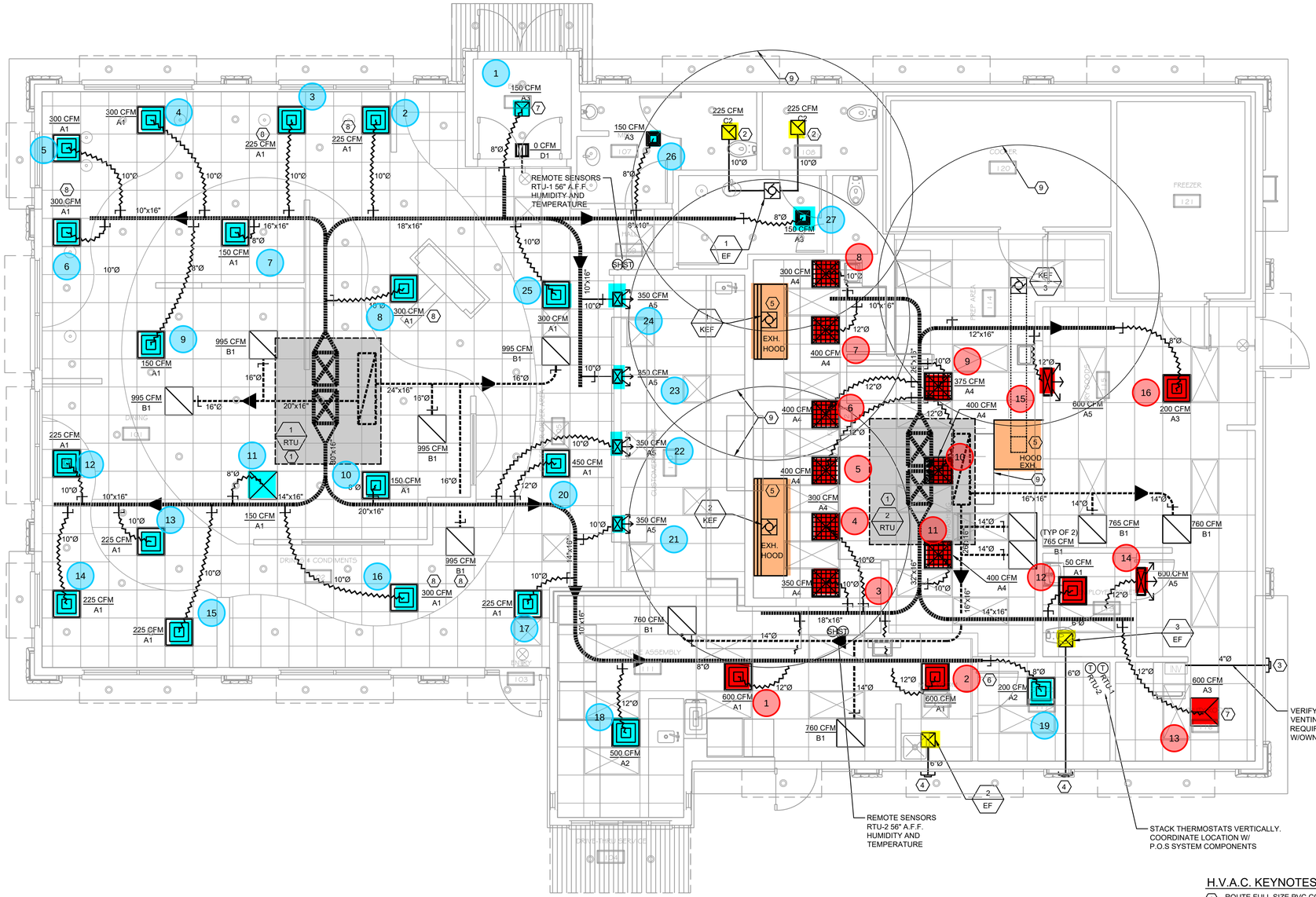

1 M101 FLOOR PLAN - H.V.A.C.
1/4" = 1'-0"

H.V.A.C. LEGEND:

- 2'x2' LAY-IN DIFFUSER
- 2'x2' LAY-IN PERF DIFFUSER
- 3-WAY SUPPLY DIFFUSER
- 1'x1' CEILING DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- TRANSFER GRILLE
- X" x X" RIGID DUCTWORK (WIDTH x DEPTH)
- DUCT SIZE TRANSITION
- X" FLEX DUCTWORK (DIAMETER)
- ELBOW WITH TURNING VANES
- MANUAL VOLUME DAMPER
- (T) THERMOSTAT MOUNTED 48" AFF
- (ST) (SH) TEMPERATURE AND HUMIDITY REMOTE SENSORS MOUNTED 56" AFF

H.V.A.C. KEYNOTES:

1. ROUTE FULL SIZE PVC CONDENSATE DRAIN LINE FROM RTU WITH P-TRAP TO NEAREST ROOF DRAIN OR GUTTER.
2. ROUTE GALV. STEEL EXHAUST DUCT FROM EXHAUST GRILLE TO FAN AT ROOF.
3. ROUTE 4" GALV. STEEL EXHAUST DUCT FROM DRYER TO CAP AT EXTERIOR WALL.
4. ROUTE GALV. STEEL EXHAUST DUCT FROM CEILING MOUNT EXHAUST FAN TO CAP AT EXTERIOR WALL.
5. REPRODUCTION OF THE KITCHEN CONSULTANT DRAWINGS IS PROVIDED ON SHEETS M40X. FINAL COORDINATION SHOULD BE WITH KITCHEN CONSULTANT DOCUMENTATION.
6. PROVIDE WITH 10" X 8" SIGHT TIGHT DOOR TRANSFER GRILLE MOUNTED AT BOTTOM OF DOOR EQUAL TO CARNES MODEL RFJAD (SIZED TO ALLOW 200 CFM AIR FLOW).
7. 3-WAY DIFFUSER.
8. PROVIDE DIFFUSER/GRILLE WITH FLAT BLACK FINISH.
9. MAINTAIN MIN. 10 FT SEPARATION BETWEEN ANY EXHAUST FAN DISCHARGE AND OUTSIDE AIR INTAKE.

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608-643-7980

METRO MIRROR M 2022

SHEET TITLE:
FLOOR PLAN - H.V.A.C.

PROJECT NO: 22004

M101

GAS-ELECTRIC PACKAGED ROOFTOP UNIT AIR CONDITIONING SCHEDULE

UNIT LABEL	AREA SERVED	MFG	MODEL	UNIT ORIENTATION	NOM. TON.	COOLING		COOLING				INDOOR FAN						CONDENSER FAN(S)			COMPRESSOR(S)				HEATING PERFORMANCE							MCA	MOCP	WEIGHT (LBS)	IEER [SEER]	NOTE(S)
						TC (MBH)	SC (MBH)	EA D.B. (°F)	EA W.B. (°F)	OA D.B. (°F)	OA W.B. (°F)	TOTAL CFM	OA CFM	E.S.P. (IN WC)	HP	V/Ø	FLA	QTY	V/Ø	FLA (EA)	QTY	V/Ø	RLA (EA)	LRA (EA)	TYPE	EA D.B. (°F)	OA D.B. (°F)	STG	INPUT (MBH)	OUTPUT (MBH)	EFF (%)					
RTU-1	DINING	LENNOX	LGH210H4B	DOWNFLOW	17.5	208.9	160.9	80.6	65.8	94.5	74.1	7,000	2000	0.8	5	208/3	16.7	6	208/1	2.4	3	208/3	19.6	136	NG	56.0	21.1	2	360	288	80%	87	100	2650	13.0	1 - 12
RTU-2	FOOD PREP	LENNOX	LGH210H4B	DOWNFLOW	17.5	208.9	160.9	80.7	65.9	94.5	74.1	6,800	2000	0.8	5	208/3	16.7	6	208/1	2.4	3	208/3	19.6	136	NG	55.6	21.1	2	360	288	80%	87	100	2650	13.0	1 - 12

NOTES:
1. PROVIDE SMOKE DETECTOR(S) IN SUPPLY AND RETURN DUCTWORK TO SHUT THE UNIT DOWN UNDER ALARM CONDITION AS REQUIRED BY LOCAL STATE CODES.
2. SMOKE DETECTORS SHALL BE FURNISHED AND FACTORY INSTALLED BY THE MANUFACTURER AND CONNECTED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR.
3. PROVIDE WITH ROOF CURB, DISCONNECT SWITCH AND 120 VOLT GFI OUTLET TO BE WIRED IN FIELD BY CONTRACTOR.
4. PROVIDE WITH R-410A REFRIGERANT AND TIME GUARD CONTROL CIRCUIT TO PREVENT SHORT-CYCLING OF THE COMPRESSOR.
5. PROVIDE WITH HONEYWELL OR EQUAL 77350 NIGHT SETBACK THERMOSTAT.
6. PROVIDE TWO STAGE CONTROL, DUCT DISCHARGE CONTROL, MIN. MERV 4 FILTERS AND LOOSE SHIPPED CONDENSATE TRAP.
7. PROVIDE WITH HUMIDITROL DEHUMIDIFICATION OPTION.
8. SEE CONTROL NOTES ON SHEET M001.
9. UNIT SHALL BE PROVIDED WITH STAINLESS STEEL HEAT EXCHANGER AND BELT TENSIONER WITH SPARE BELT.
10. PROVIDE WITH ENTHALPY ECONOMIZER WITH FD&D CONTROLS.
11. LOAD CALCS ARE BASED ON R-20 ROOF INSULATION, R-19 WALL INSULATION, 0.65 WINDOW U-VALUE AND 0.7 WINDOW SHGC. DEVIATIONS FROM THESE NUMBERS COULD REQUIRE EQUIPMENT RESIZING. NOTIFY THE ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES.
12. NO SUBSTITUTIONS ALLOWED. SEE NATIONAL ACCOUNT INFORMATION ON SHEET M001.

VENTILATION REQUIREMENT SCHEDULE

SERVED BY	ROOM	SPACE TYPE	NUMBER OF PEOPLE	OUTDOOR AIRFLOW RATE REQ'D PER PERSON (R_p)	AREA (sf)	OUTDOOR AIRFLOW RATE REQ'D PER SF (R_a)	$R_p \times P_z$	$R_a \times A_z$	BREATHING ZONE OUTDOOR AIRFLOW (V_{bz})	AIR DISTRIBUTION CONFIGURATION	ZONE AIR DIST. EFFECT. (E_z)	ZONE OUTDOOR AIRFLOW ($V_{oz}=V_{bz}/E_z$)	TOTAL OUTDOOR AIR INTAKE REQ'D (V_{ot})	TOTAL OUTDOOR AIR INTAKE PROVIDED
RTU-1	101 - DINING	CAFETERIA / FAST FOOD DINING	105	7.5	1791	0.18	788	323	1111	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	1490	**1490**	**2000**
	104 - DRIVE THRU	CAFETERIA / FAST FOOD DINING	5	7.5	142	0.18	38	26	64					
	106 - ENTRY	CORRIDORS	0	0	50	0.06	0	3	3					
	107 - MEN'S RESTROOM	NONE	0	0	87	0	0	0	0					
	108 - WOMEN'S RESTROOM	NONE	0	0	136	0	0	0	0					
	117 - OFFICE	OFFICE SPACE	2	5	67	0.06	10	5	15					
								UNIT TOTAL	**1192**					
RTU-2	111 - SUNDAE PREP	CAFETERIA / FAST FOOD DINING	2	7.5	163	0.18	15	30	45	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	329	**329**	**2000**
	112 - KITCHEN	KITCHEN (COOKING)	15	7.5	551	0.12	113	67	180					
	115 - DRY GOODS	STORAGE ROOMS	0	0	316	0.12	0	38	38					
	116 - UTILITY ROOM	NONE	0	0	70	0	0	0	0					
	118 - MOP ROOM	NONE	0	0	44	0	0	0	0					
	119 - EMPLOYEE TOILET	NONE	0	0	46	0	0	0	0					
								UNIT TOTAL	**263**					

NOTE:
REQUIRED OUTSIDE AIR CFM VALUES BASED ON ANSI/ASHRAE STANDARD 62.1-2019.

EXHAUST FAN SCHEDULE

UNIT LABEL	AREA SERVED	MFG	MODEL	LOCATION	DRIVE	TYPE	CFM	S.P. (IN WG)	MOTOR				NOTE(S)
									W	HP	RPM	V/Ø	
EF-1	RESTROOMS	ACCUREX	XRED-090-D	ROOF	DIRECT	DOWNBLAST	450	0.5	-	1/15	1550	120/1	1 - 2
EF-2	MOP ROOM	ACCUREX	XCR-B80	CEILING	DIRECT	CEILING	75	0.125	54	-	900	120/1	1 - 2
EF-3	EMPLOYEE TOILET	ACCUREX	XCR-B80	CEILING	DIRECT	CEILING	75	0.125	54	-	900	120/1	1 - 2
KEF-1	KITCHEN GRIDDLE	ACCUREX	XRUB-161XP-15	ROOF	BELT	UPBLAST	1500	1	-	1.5	1725	208/3	1 - 2
KEF-2	KITCHEN FRYER	ACCUREX	XRUB-141-7	ROOF	BELT	UPBLAST	1500	1	-	3/4	1725	208/3	1 - 2
KEF-3	KITCHEN	ACCUREX	XRED-090-D	ROOF	DIRECT	DOWNBLAST	350	0.5	-	1/15	1550	120/1	1 - 2

NOTES:
1. PROVIDE WITH FAN SPEED CONTROLLER, BACKDRAFT DAMPER AND DISCONNECT SWITCH.
2. SEE CONTROL NOTES ON SHEET M001.

BUILDING AIR BALANCE

EQUIPMENT	OUTSIDE	EXHAUST
RTU-1	2,000	
RTU-2	2,000	
KEF-1		1,500
KEF-2		1,500
KEF-3		350
EF-1		450
EF-2		75
EF-3		75
TOTALS	4,000	3,950
TOTAL BUILDING PRESSURE		**50**

GRILLE/DIFFUSER SCHEDULE

MARK	CFM	NECK SIZE	TYPE	MFG	MODEL	NOTES
A1	0-100 101-200 201-400 401-600 601-800	6" 8" 10" 12" 14"	FIXED STAMPED SQUARE LOUVERED DIFFUSERS	CARNES	SFTB24	2, 4, 5
A2	0-100 101-200 201-400 401-600 601-800	6" 8" 10" 12" 14"	ADJUSTABLE STAMPED SQUARE LOUVERED DIFFUSERS	CARNES	SJTB24	2, 4 - 6
A3	0-100 101-200 201-400	6" 8" 10"	BEVELED FRAME FIXED DISCHARGE LOUVERED FACE DIFFUSER	CARNES	SKSA	1, 4, 5, 7
A4	0-100 101-200 201-400 401-600 601-800	6" 8" 10" 12" 14"	PERFORATED SQUARE CEILING MOUNTED SUPPLY DIFFUSER	CARNES	SPRB224	1, 2, 4, 5
A5	0-350 351-600	12X6 24X6	DOUBLE DEFLECTION SUPPLY GRILLE	CARNES	RTDBH	3, 4, 5
B1	0-125 126-250 251-400 401-600 601-900 901-1350	6X6 8X8 10X10 12X12 15X15 18X18	EGGCRATE RETURN AIR GRILLE	CARNES	RAPAH	2, 3, 4, 5
C1	0-125 126-250 251-400	6X6 8X8 10X10	EGGCRATE EXHAUST AIR GRILLE	CARNES	RAPAH	1 - 5
C2	0-125 126-250 251-400	6X6 8X8 10X10	LOUVERED EXHAUST AIR GRILLE	CARNES	RTLAH	1, 3, 4, 5, 7
D1	150	12X4	45° FIXED DEFLECTION TRANSFER AIR GRILLE	CARNES	RSABH	4, 5, 8

NOTES:
1. PROVIDE WITH ADJUSTABLE OPPOSED BLADE DAMPER.
2. PROVIDE 24X24 NOMINAL FACE, T-BAR FRAME STYLE WHERE LOCATED IN LAYIN CEILING.
3. PROVIDE SQUARE TO ROUND NECK TRANSITION WHERE APPLICABLE.
4. COORDINATE BORDER TYPES WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
5. COORDINATE FINISH WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
6. PROVIDE KXDA EXTENSION ROD W/KNOB.
7. 12X12 NOMINAL PANEL SIZE.
8. MOUNT SO THE OCCUPANT CANNOT SEE INTO THE DUCT.

NOTE TO GENERAL CONTRACTOR (GC) AND SUB-CONTRACTORS:
MECHANICAL AND PLUMBING SUBMITTALS SHALL HAVE AN APPROVAL SIGNATURE FROM THE ELECTRICAL SUBCONTRACTOR INDICATING THAT THE ELECTRICAL CONTRACTOR HAS REVIEWED THE SUBMITTALS AND HAS COMPARED THE ELECTRICAL REQUIREMENTS OF THE SUBMITTED EQUIPMENT WITH THE PLANS AND HAS MADE ANY REQUIRED ADJUSTMENTS TO THE ELECTRICAL GEAR. ANY MECHANICAL OR PLUMBING SUBMITTAL THAT HAS A POWER REQUIREMENT THAT IS SUBMITTED WITHOUT THE SIGNATURE APPROVAL OF THE ELECTRICAL CONTRACTOR WILL BE RETURNED WITHOUT COMMENT.

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Project 22048.002 ©2022
COA#: PEF004211
EXPIRES: 6/30/2024

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR.
ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:
GEORGIA REGISTERED No. PE035480 PROFESSIONAL 8/3/22 ENGINEER RAMON G. VELAZQUEZ

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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION

DRAWN BY: RGV
CHK'D BY: RGV

PROJECT TITLE:
Location: CULVER'S
PART TRACT A PCB
PG 714 & 825
VALDOSTA, GA.

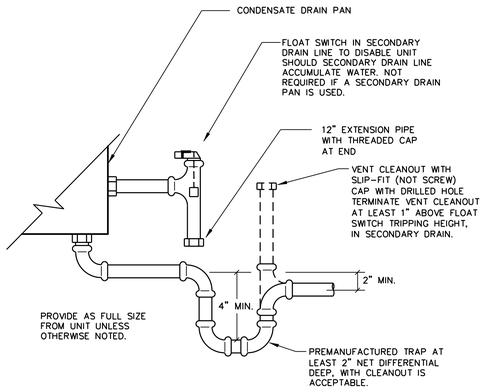
Culver Franchising System, Inc.
1240 Water Street
Prairie du Sac, WI 53578
608-643-7980

METRO MIRROR M 2022

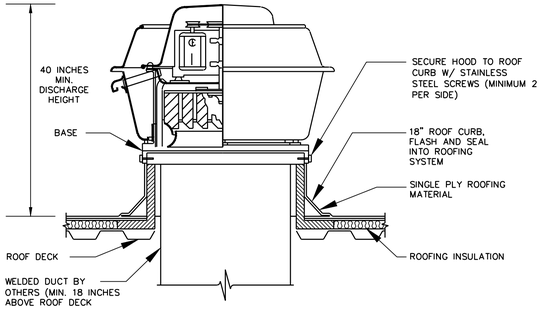
SHEET TITLE:
H.V.A.C. SCHEDULES

PROJECT NO: 22004

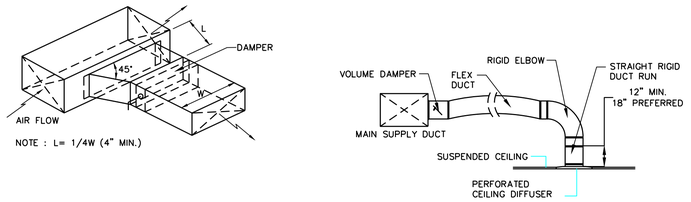
M201



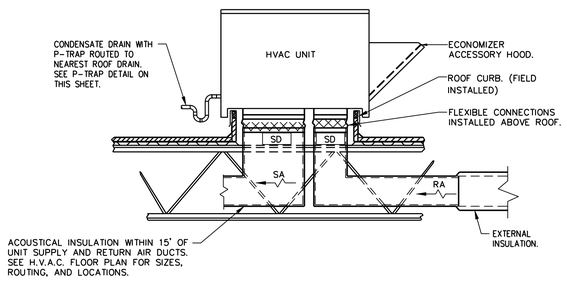
1 M301 CONDENSATE TRAP DETAIL
N.T.S.



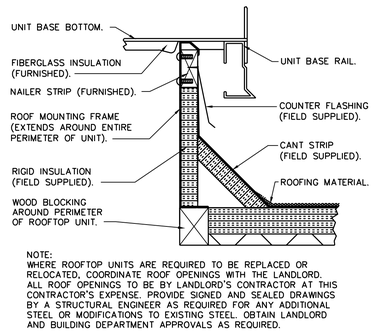
2 M301 ROOF MTD. KITCHEN EXHAUST FAN DETAIL
N.T.S.



3 M301 BRANCH DUCT TAKEOFF DETAILS
N.T.S.

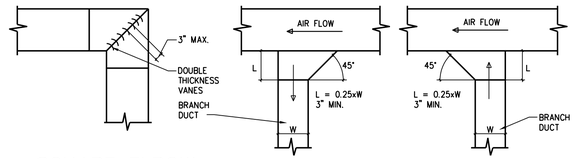


4 M301 ROOFTOP UNIT DETAIL
N.T.S.

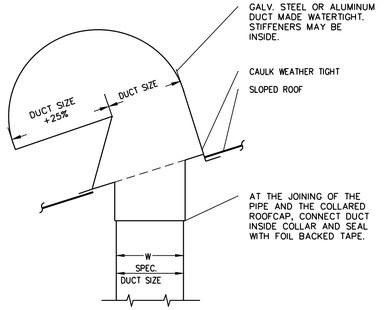


NOTE:
WHERE ROOFTOP UNITS ARE REQUIRED TO BE REPLACED OR RELOCATED, COORDINATE ROOF OPENINGS WITH THE LANDLORD. ALL ROOF OPENINGS TO BE BY LANDLORD'S CONTRACTOR AT THIS CONTRACTOR'S EXPENSE. PROVIDE SIGNED AND SEALED DRAWINGS BY A STRUCTURAL ENGINEER AS REQUIRED FOR ANY ADDITIONAL STEEL OR MODIFICATIONS TO EXISTING STEEL. OBTAIN LANDLORD AND BUILDING DEPARTMENT APPROVALS AS REQUIRED.

5 M301 ROOF CURB DETAIL
N.T.S.



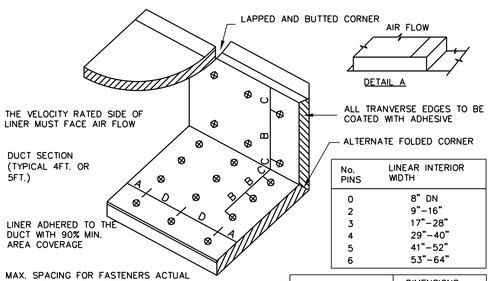
6 M301 DUCTWORK DETAILS
N.T.S.



NOTES:

1. PRIME COAT AND PAINT TO MATCH ROOF COLOR.
2. PROVIDE FLASHING AND COUNTER FLASHING.
3. PROVIDE BIRD SCREEN.
4. OUTSIDE AIR INTAKE SHALL BE A MINIMUM OF 10 FT. AWAY FROM ANY EXHAUST OR PLUMBING VENT.

7 M301 ROOF CAP DETAIL
N.T.S.



No. PINS	LINEAR INTERIOR WIDTH
0	8" DN
2	9"–16"
3	17"–28"
4	29"–40"
5	41"–52"
6	53"–64"

VELOCITY	DIMENSIONS			
	A	B	C	D
0–2500 FPM	3"	12"	4"	18"
2500–6000 FPM	3"	6"	4"	18"

8 M301 DUCT LINER INSTALLATION DETAIL
N.T.S.
NOTE: USE ONLY ON VERTICAL DROP FROM RTU TO WITHIN 9'–10" A.F.F., DUCT LINER WILL NOT BE PERMITTED ON ANY HORIZ. RUNS.

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H.V.A.C. DETAILS

PROJECT NO: 22004

M301

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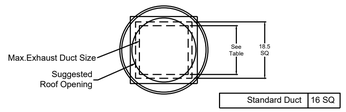
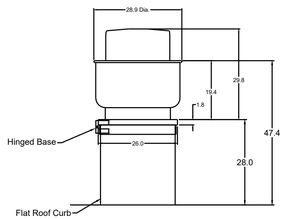
THE INFORMATION INDICATED HERE IS PROVIDED AS A COURTESY TO THE CONTRACTOR. KITCHEN HOODS AND ALL EQUIPMENT ASSOCIATED WITH THE HOODS, INCLUDING THE EXHAUST FANS SHALL BE PROVIDED BY OTHERS. EXHAUST FANS SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. COORDINATE REQUIREMENTS WITH ALL OTHER TRADES.

MARK: KEF-1



Standard Duct	16 SQ

TOP VIEW

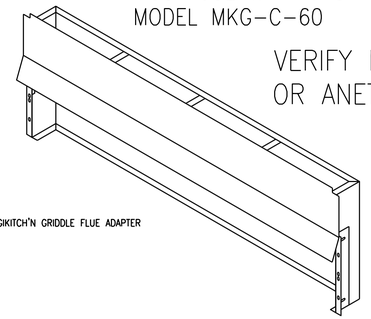


FRONT VIEW

NOTE: Overall height may be greater depending on motor

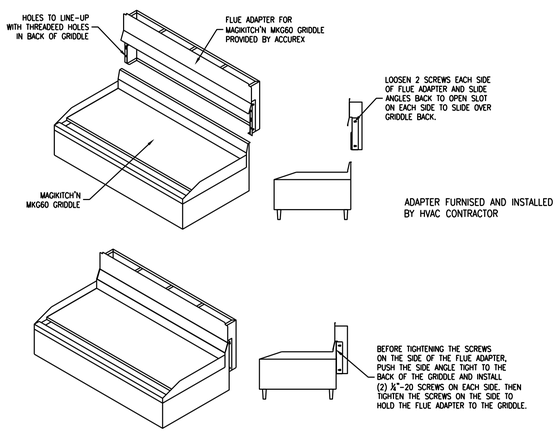
MUST USE WITH MAGIKITCH'N MODEL MKG-C-60

VERIFY MAGIKITCHEN OR ANETS GRILL

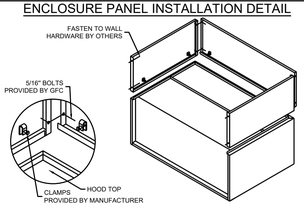


60" MAGIKITCH'N GRIDDLE FLUE ADAPTER

MAGIKITCH'N MKG-C-60 GRIDDLE FLUE ADAPTER MOUNTING INSTRUCTIONS



ENCLOSURE PANEL INSTALLATION DETAIL



HOOD HANGING HEIGHT FOR FIRE SYSTEMS

VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

☐ RECOMMENDED HANGING HEIGHT = 60" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.

☐ OTHER HANGING HEIGHT = _____" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

HOOD HANGER BRACKET DETAIL

FOR BACKSHELF HOODS

GENERAL DRAWING NOTES

Verify building entry conditions or limitations for equipment access to space.

Verify type and height of finished ceiling and if hood(s) may extend above finished ceiling (if required).

Seismic installation and bracing of equipment is by others.

Greenheck will not accept liability for problems that result from sub-standard installation. Including field electrical wiring that deviate from supplied diagrams, jobsite conditions (ductwork, fuel types and structural conditions) that GFC has not been notified of at the time of ordering. Or use of this equipment other than that for which it is designed.

It is the responsibility of the purchaser to hire qualified personnel for installation and start-up of all equipment. Installation and start-up information is shipped with all equipment via the Installation, Operation and Maintenance Manual (IOM), also included is a troubleshooting guide. Have all start-up info available prior to any warranty claims and/or factory technical support.

VENTILATION SYSTEM NOTES

Greenheck ventilators are designed in compliance with all national codes: NFPA # 96, national electric code. BOCA, uniform mechanical code, international mechanical code, and southern building conference. See national evaluation report #436 for allowable values, and/or conditions of use concerning material presented in this document. Local codes may vary. It is the responsibility of the purchaser to submit drawings to local authorities.

Exhaust and supply air volumes are to be maintained within -5% to +10% tolerance of values indicated. Static pressure(s) indicated are for the ventilator at the duct connection(s) only.

The grease filter face velocities are based on the filter manufacturers recommendations for maximum greaseextraction. Inlet opening air velocities for waterwash, dry cartridge and high velocity cartridge filters manufactured by Greenheck are designed to deliver maximum grease extraction.

Hoods installation (by others unless otherwise noted) shall be in accordance with NFPA # 96 and applicable building codes.

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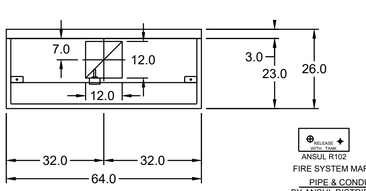
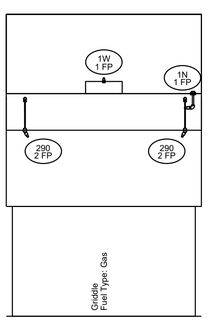


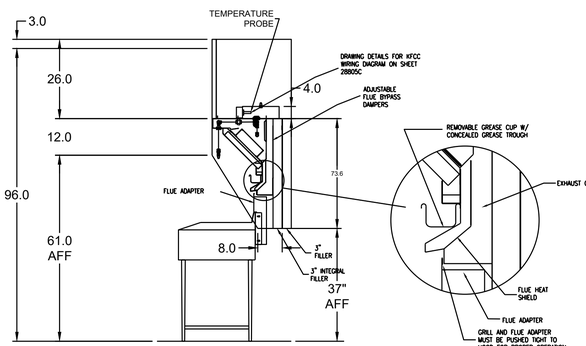
FIRE SYSTEM MARK: FS FOR GRILL HOOD

PIPE & CONDUIT BY ANSUL DISTRIBUTOR

MARK: ITEM #49
PLAN VIEW



MARK: ITEM #49
ELEVATION VIEW



MARK: ITEM #49
SECTION VIEW

EQUIPMENT SCHEDULE

TYPE 1 KITCHEN HOOD — MARK: ITEM#49

HOOD NO.	ACCUREX MODEL STYLE / CONFIGURATION	HOOD DIMENSIONS			GREASE CUP OR DRAIN	HOOD TEMP. RATING	TOTAL WEIGHT	SECTION LOCATION
		SECTION LENGTH	WIDTH	HEIGHT				
1	XQEP-64-S SINGLE WALL EXHAUST ONLY LOW PROXIMITY	64 IN.	TOP 23 IN. BOT 8 IN.	FRONT 12 IN. BACK 36 IN.	RIGHT	600 DEG F.	136.0 LBS.	SINGLE

HOOD NO.	ILLUMINATION DETAILS			GREASE FILTRATION DETAILS			
	FIXTURE TYPE BULB / LAMP INFO	QTY	INTENSITY FT CANDLES	TYPE / MODEL MATERIAL	QTY	LENGTH	HEIGHT
1	NONE	NA	0 / 0 IN. OC	GREASE GRABBER STAINLESS STEEL	4	16 IN.	16 IN.
					0	20 IN.	

HOOD SECTION # COLLAR #	EXHAUST PLENUM COLLARS						
	DISTANCE TO END (IN.)	WIDTH (IN.)	LENGTH (IN.)	DIAMETER (IN.)	VOLUME (CFM)	S.P. (IN. WC)	VELOCITY (FT/MIN)
1 / 1	32	12	12	NA	1500	1.918	1500
TOTAL EXHAUST CFM - SECTION 1					1500	=	281 CFM / FT

OPTIONS AND ACCESSORIES

430 STAINLESS STEEL WHERE EXPOSED
UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
BACK NON-INTEGRAL AIR SPACE - 3 IN WIDE
26 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
FACTORY MOUNTED EXHAUST COLLAR(S)
THIS HOOD IS PART OF A TEMPERATURE INTERLOCK CONTROL SYSTEM
INCLUDES PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH
EMBOSSED STAINLESS STEEL FINISH FOR HIGH CORROSION RESISTANCE
EQUIPMENT SPECIFIC SIS FLUE ADAPTER

SPECIAL DESIGN REQUESTS

SDR #K1100145 - FLUE BYPASS HOOD

FIRE SUPPRESSION SYSTEM — MARK: FS FOR GRILL HOOD

MANUFACTURER / MODEL SUPPRESSANT TYPE	FLOW POINTS	SUPPLY LINE	DETECTION	MOUNTING
ANSUL R-102 WET CHEMICAL	6 UTILIZED 11 AVAILABLE	CONTINUOUS	FUSIBLE LINK	RIGHT END REMOTE MOUNTED

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)
CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
SUPPRESSION AGENT - INCLUDED - 3 GAL. - [(1) 3 TANK(S)]
GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, SUPPLIED UP TO 2"
REMOTE PULL STATION - STANDARD - INSTALLATION AT SINGLE POINT OF EGRESS
METAL BLOW-OFF CAPS - INCLUDED
FIRE SYSTEM PERMIT - REQUIRED - FEE INCLUDED
360°F. FUSIBLE LINK OR AS TESTED AND INSTALLED BY LOCAL INSTALLER PER UL MANUAL

FIRE SYSTEM PROTECTED HOOD(S) (UL-300) (MARK NAME / SECTION#)

GRILL HOOD SECTION 1 - (LENGTH 64.0 IN.) - LOW PROXIMITY HOOD - GREASE GRABBER FILTRATION SYSTEM

Belt Drive Upblast Centrifugal Roof Exhaust Fan — MARK: KEF-1

Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Motor Information					
							Size (hp)	V/C/P	Encl:	Motor RPM	Windings	FLA
1	XRUB-161XP-15	1500	2.337	2411	1.29	171	1.5	208/60/3	OP	1725	1	6.6

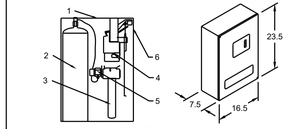
OPTIONS AND ACCESSORIES

UL/cUL 762 Listed - "Power Ventilators for Rest. Exh. Appliances"
Switch, NEMA-1, (PN:N1TSNO-3-30) Toggle, Shipped with unit
Larger curb cap size - 26" Square
Roof curb-Galv., GPF-26-G28, Under sized 1.5" Total
Hinged Base (Attached)
High Temp Curb Seal Rated for Continuous duty at 2000F (Attached)
Clean-out Port
Grease Trap with Drain Connection (PN 475538)
Heat Baffle (Attached)
Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC

CONTROL PANEL

1. STAINLESS STEEL ENCLOSURE
2. AGENT STORAGE TANK
3. EXPELLENT GAS CARTRIDGE
4. ANSUL AUTOMAN RELEASE
5. REGULATOR
6. KNOCKOUT FOR WIRING MICROSWITCH



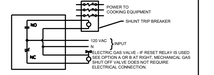
NOT TO SCALE

WIRING DIAGRAMS W/DPDT MICRO SWITCH

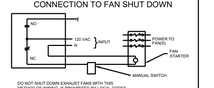
DPDT SWITCHES PROVIDED BY MANUFACTURER MAY BE WIRED PER TYPICAL EXAMPLES SHOWN. VERIFY WITH LOCAL CODES AND EQUIPMENT SUPPLIED AS THE CONNECTION NEEDED FOR YOUR INSTALLATION.

CONNECTION TO BUILDINGS ALARM

CONNECTION TO COOKING EQUIPMENT SHUT DOWN



CONNECTION TO FAN SHUT DOWN



NOTES:
1. ——— DENOTES FIELD INSTALLATION.
2. - - - DENOTES FACTORY INSTALLATION.
3. DO NOT USE BLACK WIRE ON SNAP-ACTION SWITCH IN NORMAL INSTALLATION. BLACK WIRE TO BE USED ONLY FOR EXTRANEOUS ALARM, LIGHT CIRCUITS, ETC.

NOTES:

Wet chemical fire protection system to be Ansul R-102, designed in compliance with UL 300 requirements.
-Verification of all cooking equipment make, model and location required for all fire protection systems.
-All fire system piping is standardly to the right end of the hood unless a wall is located on the right end.
-Ansul Automan Release to be located within 60" of hood.

The basic fire system will include the following:
-Gas shut-off valve, if required, to be supplied by Manufacturer (up to 2" diameter as standard), and installed by a licensed plumber.
-Micro switch to be supplied by Manufacturer for connection to, but not limited to, building alarm system(s), exhaust and supply fans and electrical power shut down. Field wiring and connections to be performed by a licensed electrician.

The basic fire system does NOT include the following:
-Full dump test other than wht is specified per the installation manual, or to satisfy a state or local code. Permit and testing fees are not included unless noted under the equipment schedule for the fire system.
-More then two trips to the jobsite or special transportation, or overnight lodging requirements in remote areas. Normal travel distance is first 50 mi. (80.5 km) from office.
- Special classes or additional labor for access to security sensitive areas.
-Installation of gas shut-off valve.
-Special drawings required to satisfy state or local code. Plan examination fees, PE or FS Approval Stamp.
-Union labor, Government labor, or Prevailing wages required for final field hook-up.
-Any and all electrical components/connections required to shut down fans, shut off device for electric cooking equipment (shunt trip breaker), or activate an alarm system, etc.
-Any dismantling or reassembly required to gain access to the fire suppression piping located on the top of the hood.
-Rough-in hidden conduit for remote pull station or gas valve (flush mounted pull station).
-Installation of more than (1) remote pull stations or distances greater than 20 ft (6.1M.)
-Parts or labor required to correct piping due to cooking equipment changes or deviation from plans, OR Any charges for missing or additional parts other then those indicated on the Fire Suppression Detail.

CONSTRUCTION COMPLIES WITH NFPA 96

Thank you for your interest in Accurex

SUBMITTAL

Please return one approved print to your Greenheck Representative including signature, date, and answers to all submittal "verify" notes and questions. Fabrication will not begin until after approved drawings are received.

☐ APPROVED AS SUBMITTED
☐ APPROVED AS NOTED
☐ REJECTED – REVISE AND RESUBMIT

SIGNATURE DATE

REV	DESCRIPTION	DATE

ACCUREX

DRAWN BY: GNH
ECO:
DATE: 01/31/17
ENG. REV.:
SUPERSEDES:
SCALE: 1/24
CAD DRAWING NO.: C28805A
D

TITLE: CULVER'S MASTER TEMPLATE

SAVANT Engineering, LLC
5064 Roswell Road, Suite D-301
Sandy Springs GA 30342 770.319.7400
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ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

MRP DESIGN GROUP
3450 Acworth Due West Road
Building 100, Suite 120
Kennesaw, Georgia 30144
P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION

DRAWN BY: RGV
CHK'D BY: RGV

PROJECT TITLE:

Location: CULVER'S
PART TRACT A PCB
PG 714 & 825
VALDOSTA, GA.

Culver Franchising System, Inc.
1240 Water Street
Prairie du Sac, WI 53578
608-643-7980

METRO MIRROR M 2022

SHEET TITLE:

H.V.A.C. HOOD, FAN & FIRE SUPPRESSION

PROJECT NO: 22004

M401

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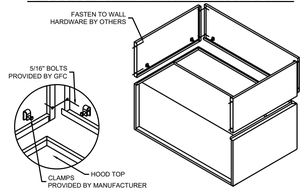
ENCLOSURE PANEL INSTALLATION DETAIL



HOOD HANGING HEIGHT FOR FIRE SYSTEMS

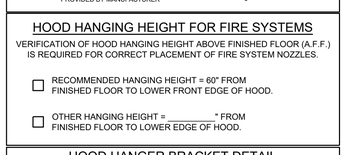
VERIFICATION OF HOOD HANGING HEIGHT ABOVE FINISHED FLOOR (A.F.F.) IS REQUIRED FOR CORRECT PLACEMENT OF FIRE SYSTEM NOZZLES.

☐ RECOMMENDED HANGING HEIGHT = 60" FROM FINISHED FLOOR TO LOWER FRONT EDGE OF HOOD.

☐ OTHER HANGING HEIGHT = _____" FROM FINISHED FLOOR TO LOWER EDGE OF HOOD.

HOOD HANGER BRACKET DETAIL

FOR BACKSHELF HOODS



GENERAL DRAWING NOTES

Verify building entry conditions or limitations for equipment access to space.

Verify type and height of finished ceiling and if hood(s) may extend above finished ceiling (if required).

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Hoods installation (by others unless otherwise noted) shall be in accordance with NFPA # 96 and applicable building codes.

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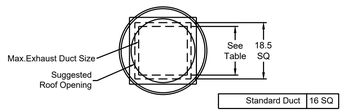
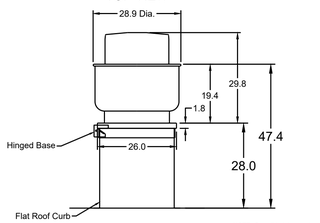
MARK: KEF-2



Standard Duct	16 SQ

TOP VIEW



FRONT VIEW

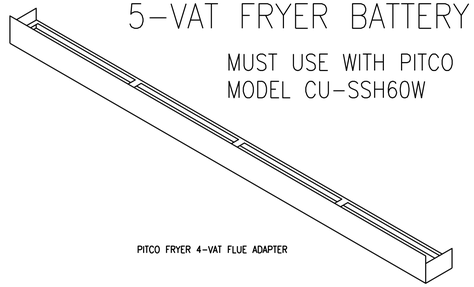
NOTE: Overall height may be greater depending on motor

THE INFORMATION INDICATED HERE IS PROVIDED AS A COURTESY TO THE CONTRACTOR. KITCHEN HOODS AND ALL EQUIPMENT ASSOCIATED WITH THE HOODS, INCLUDING THE EXHAUST FANS SHALL BE PROVIDED BY OTHERS. EXHAUST FANS SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. COORDINATE REQUIREMENTS WITH ALL OTHER TRADES.

FOOD SERVICE EQUIPMENT #59

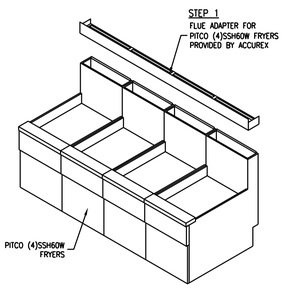
VERIFY 4-VAT OR 5-VAT FRYER BATTERY

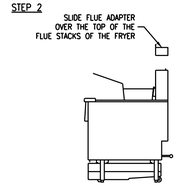
MUST USE WITH PITCO MODEL CU-SSH60W

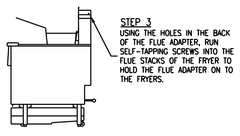


PITCO FRYER 4-VAT FLUE ADAPTER

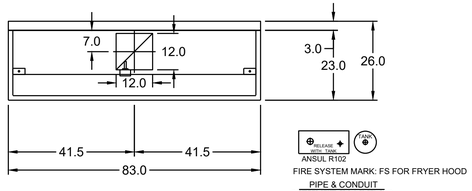
PITCO CU-SSH60W FRYERS FLUE ADAPTER MOUNTING INSTRUCTIONS







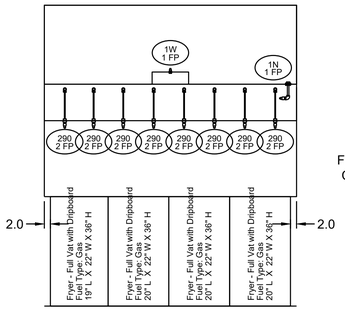
ADAPTER FURNISHED AND INSTALLED BY HVAC CONTRACTOR



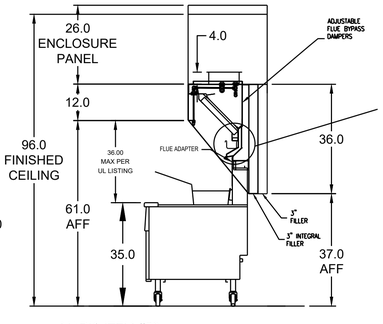
FIRE SYSTEM MARK: FS FOR FRYER HOOD

PIPE & CONDUIT BY ANSUL DISTRIBUTOR

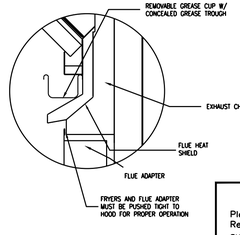
MARK: ITEM #59
PLAN VIEW



MARK: ITEM #59
ELEVATION VIEW



MARK: ITEM #59
SECTION VIEW



EQUIPMENT SCHEDULE

TYPE 1 KITCHEN HOOD — MARK: ITEM #59

HOOD NO.	ACCUREX MODEL STYLE / CONFIGURATION	HOOD DIMENSIONS: SECTION LENGTH	WIDTH	HEIGHT	GREASE CUP OR DRAIN	HOOD TEMP. RATING	TOTAL WEIGHT	SECTION LOCATION
1	XXEP-I03-S SINGLE WALL EXHAUST ONLY LOW PROXIMITY	83 IN.	TOP 23 IN. BOT 3 IN.	FRONT 12 IN. BACK 36 IN.	RIGHT	600 DEG F	169.0 LBS.	SINGLE

HOOD NO.	ILLUMINATION DETAILS: FIXTURE TYPE BULB / LAMP INFO	QTY	INTENSITY FT CANDLES	GREASE FILTRATION DETAILS: TYPE / MODEL MATERIAL	QTY	LENGTH	HEIGHT
1	NONE	NA	0 / 0 IN. OC	X-TRACTOR STAINLESS STEEL	5	16 IN.	16 IN.
					0	20 IN.	

HOOD SECTION # COLLAR #	EXHAUST PLENUM COLLARS: DISTANCE TO END (IN.)	WIDTH (IN.)	LENGTH (IN.)	DIAMETER (IN.)	VOLUME (CFM)	S.P. (IN. WC)	VELOCITY (FT/MIN)
1 / 1	41.5	12	12	NA	1500	0.518	1500

TOTAL EXHAUST CFM - SECTION 1: 1500 @ 217 CFM / FT

OPTIONS AND ACCESSORIES

430 STAINLESS STEEL WHERE EXPOSED
UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
BACK NON-INTEGRAL AIR SPACE - 3 IN WIDE
26 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
FACTORY MOUNTED EXHAUST COLLAR(S)
THIS HOOD IS PART OF A TEMPERATURE INTERLOCK CONTROL SYSTEM
INCLUDES PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH
EMBOSSED STAINLESS STEEL FINISH FOR HIGH CORROSION RESISTANCE
EQUIPMENT SPECIFIC S/S FLUE ADAPTER

SPECIAL DESIGN REQUESTS

SDR #K1100559 - NEW 4L FRYER SYSTEM

FIRE SUPPRESSION SYSTEM — MARK: FS FOR FRYER HOOD

MANUFACTURER / MODEL SUPPRESSANT TYPE	FLOW POINTS	SUPPLY LINE	DETECTION	MOUNTING
ANSUL R-102 WET CHEMICAL	18 UTILIZED 22 AVAILABLE	CONTINUOUS	FUSIBLE LINK	RIGHT END REMOTE MOUNTED

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)
CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED
SUPPRESSION AGENT - INCLUDED - 6 GAL. - ((2) 3.0 TANK(S))
GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, SUPPLIED UP TO 2"
REMOTE PULL STATION - STANDARD - INSTALLATION AT SINGLE POINT OF EGRESS
METAL BLOW-OFF CAPS - INCLUDED
FIRE SYSTEM PERMIT - REQUIRED - FEE INCLUDED
500°F. FUSIBLE LINK OR AS TESTED AND INSTALLED BY LOCAL INSTALLER PER UL MANUAL

FIRE SYSTEM PROTECTED HOOD(S) (UL-300) (MARK NAME / SECTION#)

FRYER HOOD SECTION 1 - (LENGTH 83.0 IN.) - LOW PROXIMITY HOOD

EQUIPMENT SCHEDULE

Belt Drive Upblast Centrifugal Roof Exhaust Fan — MARK: KEF-2

Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Motor Information: Size (hp)	V/C/P	Encl.	Motor RPM	Windings	FLA
1	XRUB-141-7	1500	1	1377	0.5	160	0.75	208/60/3	OP	1725	1	3.5

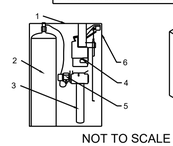
OPTIONS AND ACCESSORIES

UL/cUL 762 Listed - "Power Ventilators for Rest. Exh. Appliances"
Switch, NEMA-1, Toggle, Shipped with unit
Larger curb cap size - 26" square
Roof curb-Galv., GPF-26-G28, Undersized 1.5" total
Hinged Base (Attached)
Curb Seal (Attached)
Clean-out Port
Grease Trap with Drain Connection (PN 475538)
Heat Baffle (Attached)
Provide with ECM motor as required by IECC 2015.

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC

CONTROL PANEL

1. STAINLESS STEEL ENCLOSURE
2. AGENT STORAGE TANK
3. EXPELLENT GAS CARTRIDGE
4. ANSUL AUTOMAN RELEASE
5. REGULATOR
6. KNOCKOUT FOR WIRING MICROSWITCH



NOT TO SCALE

NOTES:

Wet chemical fire protection system to be Ansul R-102, designed in compliance with UL 300 requirements.
-Verification of all cooking equipment make, model and location required for all fire protection systems.
-All fire system piping is standardly to the right end of the hood unless a wall is located on the right end.
-Ansul Automan Release to be located within 60" of hood.

The basic fire system will include the following:
-Gas shut-off valve, if required, to be supplied by Manufacturer (up to 2" diameter as standard), and installed by a licensed plumber.
-Micro switch to be supplied by Manufacturer for connection to, but not limited to, building alarm system(s), exhaust and supply fans and electrical power shut down. Field wiring and connections to be performed by a licensed electrician.

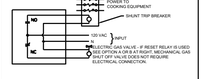
The basic fire system does NOT include the following:
-Full dump test other than wht is specified per the installation manual, or to satisfy a state or local code. Permit and testing fees are not included unless noted under the equipment schedule for the fire system.
-More then two trips to the jobsite or special transportation, or overnight lodging requirements in remote areas. Normal travel distance is first 50 mi. (80.5 km) from office.
- Special classes or additional labor for access to security sensitive areas.
-Installation of gas shut-off valve.
-Special drawings required to satisfy state or local code. Plan examination fees, PE or FS Approval Stamp.
-Union labor, Government labor, or Prevailing wages required for final field hook-up.
-Any and all electrical components/connections required to shut down fans, shut off device for electric cooking equipment (shunt trip breaker), or activate an alarm system, etc.
-Any dismantling or reassembly required to gain access to the fire suppression piping located on the top of the hood.
-Rough-in hidden conduit for remote pull station or gas valve (flush mounted pull station).
-Installation of more than (1) remote pull stations or distances greater than 20 ft (6.1M.)
-Parts or labor required to correct piping due to cooking equipment changes or deviation from plans. OR Any charges for missing or additional parts other than those indicated on the Fire Suppression Detail.

WIRING DIAGRAMS W/DPDT MICRO SWITCH

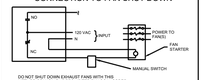
DPDT SWITCHES PROVIDED BY MANUFACTURER MAY BE WIRED PER TYPICAL EXAMPLES SHOWN. VERIFY WITH LOCAL CODES AND EQUIPMENT SUPPLIED AS THE CONNECTION NEEDED FOR YOUR INSTALLATION.

CONNECTION TO BUILDINGS ALARM

CONNECTION TO COOKING EQUIPMENT SHUT DOWN



CONNECTION TO FAN SHUT DOWN



NOTES:
1. ——— DENOTES FIELD INSTALLATION.
2. - - - - DENOTES FACTORY INSTALLATION.
3. DO NOT USE BLACK WIRE ON SNAP-ACTION SWITCH IN NORMAL INSTALLATION. BLACK WIRE TO BE USED ONLY FOR EXTRANEOUS ALARM, LIGHT CIRCUITS, ETC.

UL NSF
CONSTRUCTION COMPLIES WITH NFPA 96

Thank you for your interest in Accurex

SUBMITTAL

Please return one approved print to your Greenheck Representative including signature, date, and answers to all submittal "verify" notes and questions. Fabrication will not begin until after approved drawings are received.

☐ APPROVED AS SUBMITTED
☐ APPROVED AS NOTED
☐ REJECTED – REVISE AND RESUBMIT

SIGNATURE _____ DATE _____

REV	DESCRIPTION	DATE

ACCUREX

TITLE: CULVER'S MASTER TEMPLATE

DRAWN BY: GNH
DATE: 01/31/17
SUPERSEDES:
SCALE: 1/24
CAD DRAWING NO.: C28805B
ECO:
ENG. REV.:

SAVANT Engineering, LLC
5064 Roswell Road, Suite D-301
Sandy Springs GA 30342 770.319.7400
Project 22048.002 ©2022
COA#: PEF004211
EXPIRES: 6/30/2024

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR. ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

GEORGIA REGISTERED No. PE035480 PROFESSIONAL 8/2/24 ENGINEER RAMON G. VELAZQUEZ

MRP DESIGN GROUP
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DATE	DESCRIPTION

DRAWN BY: RGV
CHK'D BY: RGV

PROJECT TITLE:

Location: CULVER'S PART TRACT A PCB PG 714 & 825 VALDOSTA, GA.

Culver's Franchising System, Inc. 1240 Water Street Prairie du Sac, WI 53578 608-643-7980

METRO MIRROR M 2022

SHEET TITLE:

H.V.A.C. HOOD, FAN & FIRE SUPPRESSION

PROJECT NO: 22004

M402

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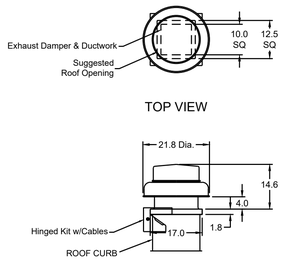
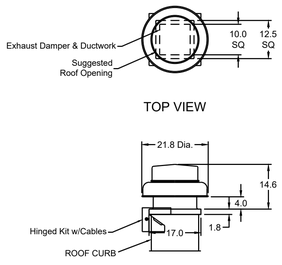
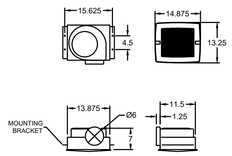
MARK: EF-1

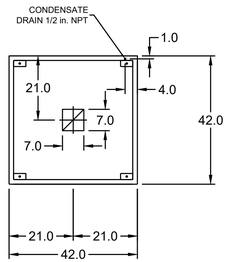


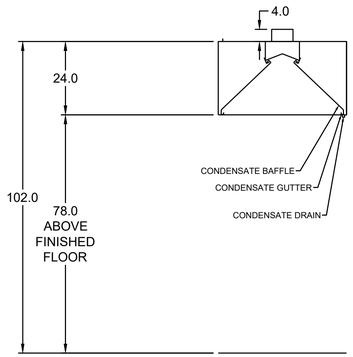
MARK: KEF-3



MARK: EF-2

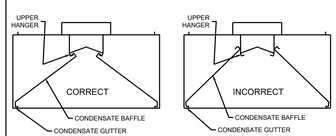






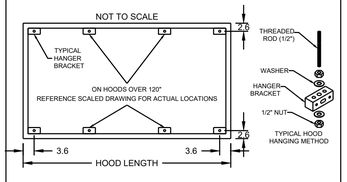
MARK: ITEM #25
SECTION VIEW

CONDENSATE HOOD BAFFLE INSTALLATION DETAIL



NOTES:
1. THE CONDENSATE BAFFLES MUST HOOK ONTO THE UPPER HANGER AND REST IN THE CONDENSATE GUTTER FOR PROPER OPERATION.

HOOD HANGER BRACKET DETAIL



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ACCUREX

MARK: CONTROLS

CAUTION

UNIT SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C. POWER MUST BE OFF WHILE SERVICING.

LISTED 43BM

COMMERCIAL APPLIANCE OUTLET CENTER ELECTRICAL RATINGS: 120V, 1PHASE, 60HZ, 15A BASE FILE #E200616, ML FILE #E313951

THESE DRAWINGS SHALL NOT BE REMOVED FROM THIS EQUIPMENT. USE COPPER CONDUCTORS RATED TO 90°C UNLESS SPECIFIED. TORQUE CONTROL & GROUND BLOCKS TO 8 LBS. IN. TORQUE POWER LUGS/SCREWS TO COMPONENT RATINGS LISTED. FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM. SEE IOM FOR ADDITIONAL INFORMATION, OR CALL ACCUREX AT 1-800-371-6858.
PRG VERSION: V2.00
FIELD WIRED
FACTORY SUPPLIED AND WIRED

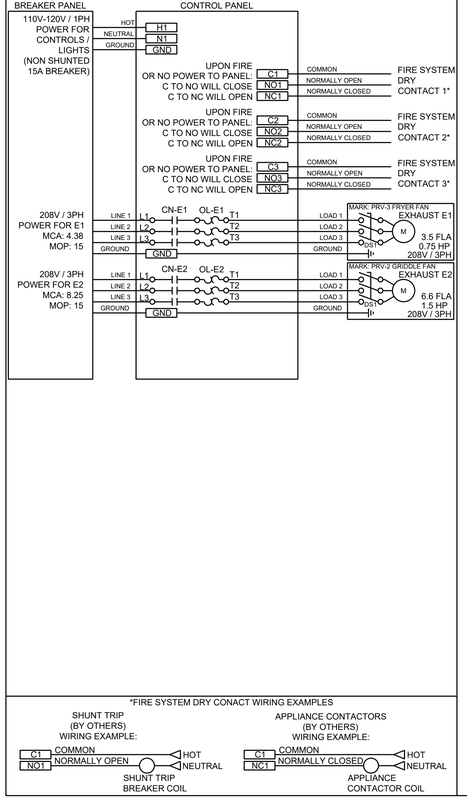
WIRING DIAGRAM CODE:

JOB NAME: CULVERS-METRO L NEW CONTROLS

MODEL: XKC-CV-S-21-2-1-0

SERIAL NUMBER:

POWER WIRING FOR KITCHEN CONTROLS
(WIRING TO BE DONE BY ELECTRICIAN)

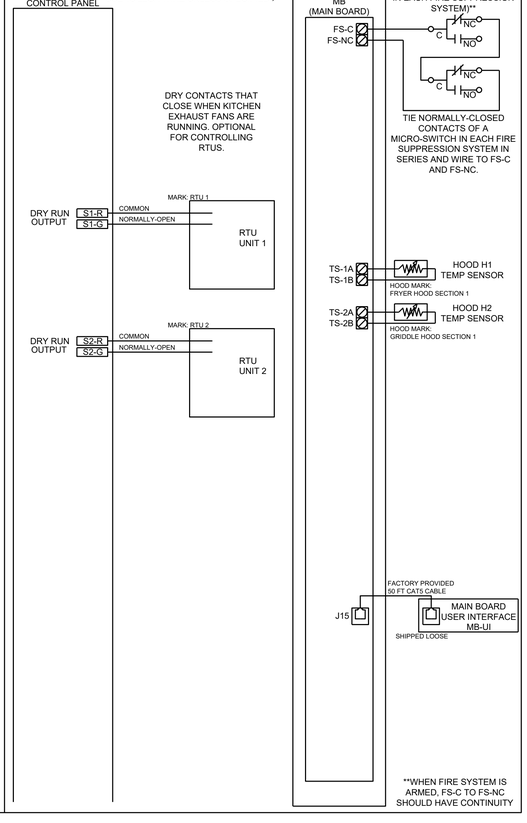


*FIRE SYSTEM DRY CONACT WIRING EXAMPLES

POWER WIRING FROM BREAKER PANEL DIRECT TO FANS
(WIRING TO BE DONE BY ELECTRICIAN)

WIRE RTU POWER DIRECTLY FROM BUILDING BREAKER PANEL TO RTU DISCONNECTS

CONTROL WIRING FOR KITCHEN CONTROLS
(WIRING TO BE DONE BY ELECTRICIAN, IF NO CONTROLS CONTRACTOR. USE 18-22GA WIRE UNLESS SPECIFIED.)



Thank you for your interest in Accurex

CONSTRUCTION COMPLIES WITH NFPA 96

SUBMITTAL

Please return one approved print to your Greenheck Representative including signature, date, and answers to all submittal "verify" notes and questions. Fabrication will not begin until after approved drawings are received.

☐ APPROVED AS SUBMITTED
☐ APPROVED AS NOTED
☐ REJECTED – REVISE AND RESUBMIT

SIGNATURE DATE

REV	DESCRIPTION	DATE

ACCUREX

TITLE: CULVER'S MASTER TEMPLATE

DRAWN BY: GNH
DATE: 01/31/17
SUPERSEDES
SCALE: 1/24
CAD DRAWING NO.: C28805C
ECO
ENG. REV.: D

EQUIPMENT SCHEDULE

ELECTRICAL CONTROL BOX — MARK: KFCC

DESCRIPTION / ACCUREX MODEL MOUNTING LOCATION (CONTROL PANEL / SWITCHES)	EXHAUST FAN QTY	SUPPLY FAN QTY	POWER FREQUENCY
KITCHEN FAN CONTROL CENTER / XFCC SHIP LOOSE / SHIP LOOSE FOR REMOTE MOUNTING	2	0	60 CYCLE

CONTROL PANEL ENCLOSURE - 16 GA 304 STAINLESS STEEL ENCLOSURE (NEMA-1) - DIMENSIONS 12 X 18 X 6
WIRING DIAGRAM #: T100- 2 - 20
STARTERS PROVIDED IN CONTROL PANEL - QTY 2
2 POSITION FAN SWITCH - QTY 1
INTEGRATED EXHAUST TEMPERATURE INTERLOCK SYSTEM
-FACTORY MOUNTED EXHAUST TEMPERATURE SENSORS - QTY 2
-COMPLIES WITH INTERNATIONAL MECHANICAL CODE 2006 SECTION 507.2.1.1
TURN ON EXHAUST IN FIRE
THERMAL OVERLOADS IN CABINET
1 SPEED FAN(S)

SPECIAL DESIGN REQUESTS
SDR #K0800240 - USE KIT #852883, WIRING DIAG. #ZZ905336

TYPE 2 KITCHEN HOOD — MARK: ITEM #25

HOOD NO.	ACCUREX MODEL STYLE / CONFIGURATION	HOOD DIMENSIONS: SECTION LENGTH	WIDTH	HEIGHT	GREASE CUP OR DRAIN	HOOD TEMP RATING	TOTAL WEIGHT	SECTION LOCATION
1	XD3-42-S CONDENSATE HOOD - DOUBLE BAFFLE	42.0 IN.	42 IN.	24 IN.	RIGHT	NA	224.0 LBS.	NA

HOOD SECTION # / COLLAR #	EXHAUST PLENUM COLLARS: DISTANCE TO END (IN.)	WIDTH (IN.)	LENGTH (IN.)	DIAMETER (IN.)	VOLUME (CFM)	S.P. (IN. WC)	VELOCITY (FT/MIN)
1 / 1	21	7	7	NA	350	0.127	1029
TOTAL EXHAUST CFM - SECTION 1					350.0	=	100.0 CFM / FT

OPTIONS AND ACCESSORIES
304 STAINLESS STEEL 100% CONSTRUCTION
FACTORY MOUNTED EXHAUST COLLAR(S)

EQUIPMENT SCHEDULE

Direct Drive Centrifugal Roof Exhaust Fan — MARK: EF-1

Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Motor Information: Size (hp)	V/C/P	Encl.	Motor RPM	Windings	FLA
1	XRED-090-D	375	0.5	1479	0.060	43	0.0667	115/60/1	OP	1550	1	NA

OPTIONS AND ACCESSORIES
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-1, Toggle, Shipped with unit
Hinged Curb Cap Kit w/Cables (PN 851018) (Shipped Loose)
Curb Seal (Attached)
Damper, WD-100-PB-10X10, Gravity Operated (Loose)
Solid State Speed Control, Shipped Loose (PN 5WSSC)
Roof Curb-Galv., GPI-17-10-G12, Undersized 1.5" total

EQUIPMENT SCHEDULE

Direct Drive Centrifugal Roof Exhaust Fan — MARK: KEF-3

Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Motor Information: Size (hp)	V/C/P	Encl.	Motor RPM	Windings	FLA
1	XRED-090-D	350	0.5	1455	0.07	43	0.0667	115/60/1	OP	1550	1	NA

OPTIONS AND ACCESSORIES
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-1, Toggle, Shipped with unit
Hinged Curb Cap Kit w/Cables (PN 851018) (Shipped Loose)
Curb Seal (Attached)
Damper, WD-100-PB-10X10, Gravity Operated (Loose)
Solid State Speed Control, Shipped Loose (PN 5WSSC)
Roof Curb-Galv., GPI-17-10G12, Undersized 1.5" total

EQUIPMENT SCHEDULE

Ceiling Exhaust Fan — MARK: EF-2

Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Motor Information: Size (hp)	V/C/P	Encl.	Motor RPM	Windings	FLA
1	XCR-B80	75	0.125	885	0.01	10	0.0	115/60/1	OP	900	1	NA

OPTIONS AND ACCESSORIES
UL/cUL 705 Listed - Electric fan
Solid State Speed Control. 6.0 amp, shipped loose
Round Hooded Wall cap, (PN: WC-6) Shiped loose)
Designer Grille
Round duct connection
Polypropylene Wheel Material
Energy Star Rated

THE INFORMATION INDICATED HERE IS PROVIDED AS A COURTESY TO THE CONTRACTOR. KITCHEN HOODS AND ALL EQUIPMENT ASSOCIATED WITH THE HOODS, INCLUDING THE EXHAUST FANS SHALL BE PROVIDED BY OTHERS. EXHAUST FANS SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. COORDINATE REQUIREMENTS WITH ALL OTHER TRADES.

SAVANT Engineering, LLC
5064 Roswell Road, Suite D-301
Sandy Springs GA 30342 770.319.7400
Project 22048.002 ©2022
COA#: PEF004211
EXPIRES: 6/30/2024

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F. 770-917-9470
www.mrpdesign.com

RELEASED for CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION

DRAWN BY: RGV
CHK'D BY: RGV

PROJECT TITLE:
Location: CULVER'S PART TRACT A PCB PG 714 & 825 VALDOSTA, GA.

Culver Franchising System, Inc.
1240 Water Street
Prairie du Sac, WI 53578
608-643-7980

METRO MIRROR M 2022

SHEET TITLE:
H.V.A.C. HOOD, FAN & FIRE SUPPRESSION

PROJECT NO: 22004

M403

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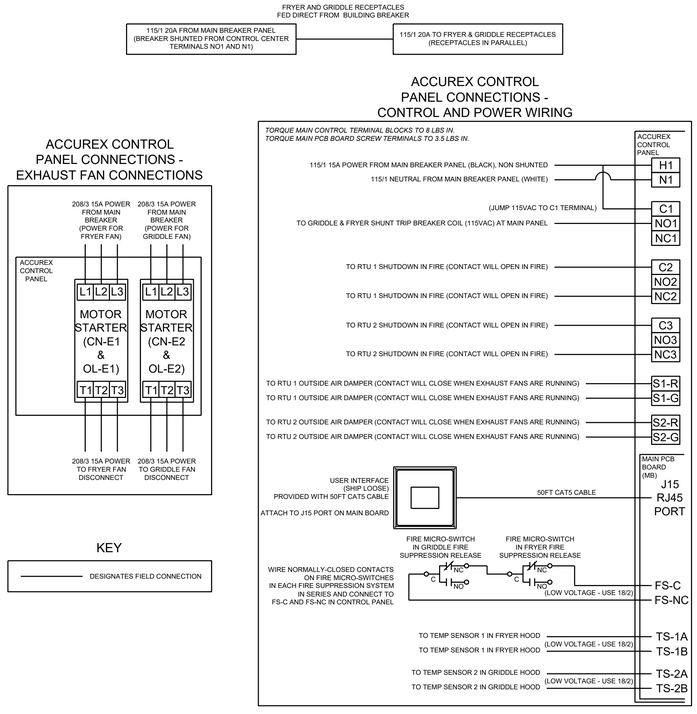
CULVER'S ELECTRICAL FIELD CONNECTION INSTALLATION INSTRUCTIONS



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SIGNATURE DATE

GREENHECK
P.O. BOX 410, SCHOFIELD WI 54476-0410

CULVER'S INSTALLATION AND OPERATION GUIDE

Accurex Control Panel, Fans, Appliance Receptacles

Mechanical Scope of Work

1) Mechanical Contractor to mount Accurex Control Panel (Model XKC, 18" W x 20" H x 6" D) in specified location above drop ceiling.
2) Assuming all electrical has been completed by Electrical Contractor, Mechanical Contractor to start up fans by pressing "Fans" button on user interface. Verify power to exhaust fans.

Electrical Scope of Work

1) Electrical Contractor shall provide one 115VAC 20A circuit with shunt trip breaker (115VAC trip coil) for fryer and griddle receptacles. This circuit will have thee receptacles, two for the fryers and one for the griddle. Circuit to be powered directly from circuit breaker.
2) Electrical Contractor to install Accurex user interface on wall (user interface provided by Accurex, recess into wall). Connect user interface back to Accurex control panel using factory-provided CAT5 cable (connect to J15 port on main board in Accurex control panel).
3) Electrical Contractor to run a separate 115VAC 15A circuit (from non-shunted breaker) to Accurex control panel terminal blocks H1 and N1 to power controls.
4) Electrical Contractor to run two 208/60/3 15A circuits from main breaker panel to each motor starter in the Accurex control panel (L1, L2, L3). Run power from T1, T2, T3 on each motor starter in Accurex control panel to kitchen exhaust fan disconnects.
5) Electrical Contractor to connect jumper wire from terminal block H1 to terminal block C1 in Accurex control panel, and then run wires from NO1 and N1 in Accurex control panel back to 115VAC shunt-trip breaker coil for fryer and griddle receptacles.
6) Electrical Contractor to wire a normally-closed contact off of a micro-switch in each fire suppression system release (one FS for fryer hood, and one FS for griddle hood) in series, and tie this series circuit loop back to FS-C and FS-NC on the main control board (MB) in the Accurex control panel.
7) Electrical Contractor to wire RTU 1 & 2 damper control to Accurex control panel terminal blocks S1-R / S1 - G and S2-R / S2-G as indicated on wiring diagram.
8) Electrical Contractor to wire RTU 1 & 2 control (8 amp max) circuits to Accurex control panel terminal blocks C2 and NC2 for RTU1 and C3 and NC3 for RTU 2 to shut down units in a fire.
9) Electrical Contractor to wire temp sensor in fryer hood collar back to Accurex control panel and land on TS-1A / TS-1B on main PCB board (use 18 to 22ga plenum rated cable)
10) Electrical Contractor to wire temp sensor in griddle hood collar back to Accurex control panel and land on TS-2A / TS-2B on main PCB board (use 18 to 22ga plenum rated cable)

Sequence of Operation

1) Make sure fryer and griddle receptacles are receiving power (breaker feeding appliance outlets is on).
2) Make sure RTU 1 & RTU 2 are both receiving power (breaker feeding RTUs are on and RTU disconnects are on).
3) Turn fans on via "Fans" button on user interface. Both fryer and griddle fans should turn on, and RTU 1 & 2 outside air dampers should open/adjust to bring in design OA.
4) Before fire system agent tanks are installed, manually trigger fire system while fan switch is on. This should accomplish the following:
   - Display on user interface should stated "FIRE DETECTED"
   - Shunt trip breaker will trip causing a loss of pwoer to fryer and griddle receptacles
   - Gas valve will close shutting gas off to the fryer and griddle
   - Exhaust fans will remain on
   - RTU 1 & 2 will shut down
5) Put fire system in the "cocked" position and reset shunt trip breaker. Breakers feeding appliance outlets should be able to be reset manually, and RTU's power should be restored.
6) Press "Fans" button on the user interface to turn the fans off. This will shut down power to the fans. RTU outside air dampers will close. RTUs will remain operational providing 100% return air only.

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