

BUILDING

ENVELOPE

WALLS  
WALL - SIMULATED STONE FINISH - U-VALUE = 0.078  
WALL - E.F.I.S. FINISH - U-VALUE = 0.080

FRONT  
WALL - SIMULATED STONE FINISH 75 FT. SQ.  
WALL - E.F.I.S. FINISH - 291 FT. SQ.

REAR  
WALL - SIMULATED STONE FINISH - 7 FT. SQ.  
WALL - E.F.I.S. FINISH - 360 FT. SQ.

LEFT SIDE  
WALL - SIMULATED STONE FINISH - 183 FT. SQ.  
WALL - E.F.I.S. FINISH - 749 FT. SQ.

RIGHT SIDE  
WALL - SIMULATED STONE FINISH - 165 FT. SQ.  
WALL - E.F.I.S. FINISH - 714 FT. SQ.

GLASS

WINDOW GLASS - U-VALUE WINTER = 0.29  
WINDOW GLASS - U-VALUE SUMMER= 0.27

FRONT  
WINDOW GLASS - 93 FT. SQ.

REAR  
WINDOW GLASS - 0.0 FT. SQ.

LEFT SIDE  
WINDOW GLASS - 68 FT. SQ.

RIGHT SIDE  
WINDOW GLASS - 99 FT. SQ.

ROOF  
SINGLE PLY POLYVINYL-CHLORIDE ROOFING W/ TWO  
SHEETS DURO-GUARD ISO II (FLAT), 2 PLYS ATLAS FR-10  
ON 1/2" PLYWOOD ROOF DECK. R-VALUE 30 (MIN)

TOTAL ROOF AREA - 2,030 FT. SQ.

GLASS

GLASS - U-VALUE = 0.45  
STEEL W/PAPER HONEY CONE CORE U-VALUE= 0.45

FRONT  
GLASS DOOR - 54.0 FT. SQ.

REAR  
STEEL DOOR - 26.0 FT. SQ.

LEFT SIDE  
NO DOOR - 0.0 FT. SQ.

RIGHT SIDE  
NO DOOR - 0.0 FT. SQ.

FLOOR

SLAB ON GRADE  
TOTAL FLOOR AREA - 2,143 FT. SQ.  
FLOOR PERIMETER - 212 FT.

EXHAUST HOOD DUCT NOTES (BY G.C.)

- FRYER EXHAUST DUCTWORK ARE SIZED TO MAINTAIN A MINIMUM 1660 FPM EXHAUST AIR VELOCITY. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA-96. GREASE EXHAUST DUCTWORK SHALL HAVE ALL SEAMS, JOINTS AND PENETRATIONS SEALED LIQUID TIGHT.
- ALL HORIZONTAL RUNS OF GREASE DUCT, EXHAUST AND CONDENSATE SHALL SLOPE BACK TOWARD THE HOOD, GRILLE OR DRAIN AT A SLOPE OF 1" PER FOOT.
- THE MECHANICAL CONTRACTOR IS TO PROVIDE CLEANOUTS, AS REQUESTED PER DETAIL ON M5 SHEET.
- THE DISCHARGE OF THE GREASE EXHAUST FAN SHALL BE UPWARD AND A MINIMUM OF 40" ABOVE THE ROOF SURFACE AND A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE.
- ALL GREASE EXHAUST DUCTS SHALL HAVE RADIUSUED ELBOWS. EXHAUST DUCT PROTECTION:
- GREASE EXHAUST DUCT SHALL BE CARBON STEEL 16 GAUGE WELDED DUCTS PER NFPA-96 PROTECTED WITH THE FOLLOWING: 1" AIR SPACE FROM DUCT TO 22 GA SHEET METAL COVERED WITH 1" MINERAL WOOL AND WIRE MESH SECURED TO COMBUSTIBLES WITH 1" NON COMBUSTIBLE SPACERS TO REDUCE CLEARANCE TO COMBUSTIBLES TO 3" PER NFPA 96 A-1-3.2.

OPTIONAL COMBUSTIBLE PROTECTION: USE FIRE MASTER GREASE DUCT FIRE PROTECTION SYSTEM BY "THERMAL CERAMICS" WHICH OFFERS ZERO CLEARANCE TO COMBUSTIBLE & 2 HR. RATING.

EXHAUST HOOD NOTES

- THE FOLLOWING EQUIPMENT SHALL BE SUPPLIED BY OWNER AND INSTALLED BY THE HVAC CONTRACTOR.
  - STAINLESS STEEL HOODS AS SPECIFIED PRE PIPED FOR FIRE PROTECTION SYSTEM, CEILING CLOSURE STRIP, AND ALL EXHAUST FANS AND CURBS.
- THE HVAC CONTRACTOR SHALL RECEIVE THE ABOVE EQUIPMENT, UNGRATE, BE RESPONSIBLE FOR REPORTING DAMAGE RECEIVED DURING SHIPMENT, AND BE RESPONSIBLE FOR LOSS OR DAMAGE TO THE ABOVE EQUIPMENT ONCE RECEIVED ON THE JOB.
- EXHAUST HOODS PROVIDED WILL MEET OR EXCEED THE FOLLOWING REQUIREMENTS, OR AS BY THE ACTIONABLE CODE:
  - NSF # 1362 BEAR THE NSF SEAL OF APPROVAL
  - U.L. CLASSIFICATION # 24N1
  - MEET OR EXCEED NFPA # 96, 1998 EDITION
  - 2006 IMC
- THE MECHANICAL ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING A SET OF SHOP DRAWINGS FROM THE HOOD MANUFACTURER. THE ENGINEER SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY LOCAL CODES WHICH WILL AFFECT THE HOOD MANUFACTURE OR INSTALLATION.
- THE HOOD MANUFACTURER SHALL PROVIDE PRE-PIPED AUTOMATIC FIRE CONTROL SYSTEMS FOR THE FRYER HOOD INCLUDING FIRE CONTROL CABINETS - AND FURNISH A 2 POLE MICRO SWITCH FURNISHED FOR EQUIPMENT SHUT OFF. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL INSTALLATION AND INSPECTIONS OF THE HOOD EXHAUST SYSTEM HOOD EXTINGUISHING SYSTEM BY CERTIFIED FIRE SUPPLY CONTRACTOR.
- THE PLUMBING CONTRACTOR SHALL INSTALL THE MECHANICAL GAS VALVE IN ACCORDANCE WITH THE APPLICABLE CODES. THE VALVE SHALL BE PROVIDED BY PLUMBING CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING IN ACCORDANCE WITH THE "HOOD WIRING DIAGRAM" SHEET AS DIRECTED BY THE ELECTRICAL ENGINEER.
- MANUAL PULL STATION SHALL BE PROVIDED BY HOOD CONTRACTOR AND INSTALLED BY FIRE SUPPLY CONTRACTOR.

SECTION 15B - HEATING, VENTILATION, AIR

CONDITIONING AND REFRIGERATION

GENERAL PROVISIONS

- SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING HEATING, VENTILATING, AIR CONDITIONING, REFRIGERATION SYSTEMS BY OTHERS. WORK UNDER THIS SECTION INCLUDES, BUT IS NOT NECESSARILY LIMITED TO:
  - FURNISH AND INSTALL THE FOLLOWING: ROOFTOP UNITS AND CURBS, INSULATION, DUCT WORK FOR AIR DEVICES, HVAC CONTROLS AND PROPER LOW VOLTAGE COMPONENTS FOR COMPLIANCE WITH NFPA 96 AND 72.
  - INSTALL THE FOLLOWING: - EXHAUST FANS, HOODS, AND GREASE RISER, ICE MACHINE AIR COOLED CONDENSER ON ROOF BY OTHERS.
  - GENERAL REQUIREMENTS: ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES. WHERE THESE PLANS AND SPECIFICATIONS ARE IN CONFLICT WITH SUCH CODES, THE CODES SHALL GOVERN. PAY FOR AND OBTAIN NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.

NOTE:

WHERE ENERGY CALCULATIONS ARE REQUIRED, THESE SHALL BE PREPARED BY THE MECHANICAL ENGINEER AT THE DIRECTION OF THE ARCHITECT. A COPY OF THE CALCULATION SHALL BE FORWARDED TO POPEYES DEVELOPMENT FOR THEIR RECORDS.

COORDINATION:

COORDINATE WORK WITH OTHER TRADES. LOCATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. FIELD LOCATE ROOF CURBS BASED ON THE GENERAL DIRECTIONS GIVEN ON CONSTRUCTION DOCUMENTS.

MATERIALS AND PERFORMANCE:

- MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER FIRST-LINE MANUFACTURERS MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING BY POPEYES DEVELOPMENT. A SUBSTITUTIONS LIST SHALL BE SUBMITTED IN TRIPPLICATE FIVE (5)DAYS BEFORE THE CONTRACT IS TO BE LET.
- NATIONAL ACCOUNTS: ROOFTOP HVAC EQUIPMENT, TOILET EXHAUST FANS, HVAC DUCT SYSTEMS, AND HVAC DIFFUSERS, GRILLS, AND PLENUM BOXES ARE AVAILABLE FROM NATIONAL ACCOUNTS INDICATED ON THE DRAWING COVER SHEET. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH PLANS AND MANUFACTURERS' INSTRUCTIONS. FOR NATIONAL ACCOUNTS INFO REFER TO DIRECTORY
- ROUTING OF DUCT SYSTEMS: COORDINATE ROUTING OF DUCT SYSTEMS WITH OTHERS. LINE UP WORK TRUE TO ADJACENT SPACES AND IN A WORKMANLIKE MANNER, AND USE STANDARD RADIUS 90 ELBOWS. WHERE REQUIRED, DUCTWORK IS TO BE STURDILY SUPPORTED AND SEPARATED IN ACCORDANCE WITH ASHRAE & SMACNA STANDARDS.
- DUCTWORK FOR HVAC SYSTEM:

NOTE:

A LICENSED TEST AND BALANCE CONTRACTOR SHALL PROVIDE ALL TOOLS AND TEST EQUIPMENT NECESSARY FOR BALANCING ALL HVAC AND EXHAUST AIR SYSTEMS. A "DIGITAL" ANEMOMETER MODEL DA 4000 WITH A 275 PROBE IS RECOMMENDED FOR MEASURING HOOD EXHAUST.

- GENERAL NOTES:
  - VOLUME DAMPERS SHALL BE INSTALLED AT ALL BRANCH RUNOUTS.
  - DUCT DIMENSIONS INDICATED ARE INSIDE DIMENSIONS DIMENSIONS.
  - DUCT WORK SHALL BE BUILT IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.
  - DUCT BOARD IS NOT ALLOWED.
- METAL DUCT WORK:
  - DUCT WORK SHALL BE CONSTRUCTED OF G-90 GALVANIZED SHEET METAL.
  - THE GALGUES OF METAL TO BE USED AND THE CONSTRUCTION AND BRACING OF JOINTS SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.
  - METAL DUCT SHALL BE SUPPORTED FROM BUILDING STRUCTURE ON STRIP HANGERS NOT OVER 5'-0" APART.
- EXTERNAL S/A, R/A DUCT WRAP:
  - INSULATION SHALL BE FURNISHED BY NCA CONSULTANTS AND INSTALLED IN ACCORDANCE WITH DETAILS ON SHEET M2. COORDINATE WITH ROOF CONTRACTOR. RTU/S SHALL BE INSTALLED SUCH THAT ROOF DECK IS CONTINUOUS BENEATH, AND OPEN PLENUM CURBS FLANGE TO FLANGE. SEE M2 SHEET.
  - INSULATION SHALL HAVE A FLAME SPREAD OF TWENTY FIVE(25)OR LESS AND A SMOKE DEVELOPED RATING OF FIFTY(50)OR LESS.
  - INSULATION SHALL BE OWENS-CORNING FRK25 OR EQUAL.
  - INSULATION SHALL BE LIGHTLY LAPPED WITH 2" WIDE VAPOR BARRIER PRESSURE-SENSITIVE TAPE. SEE DETAIL ON M4 SHEET.
  - DUCT WRAP SHALL BE INSTALLED IN A NEAT AND COMPETENT MANNER WITH ALL EDGES COVERED WITH APPROVED METALLIC DUCT TAPE TO VAPOR-PROOF THE ENTIRE DUCT.
- FLEX CONNECTORS/FLEX DUCT:
  - INSULATION AND VAPOR BARRIERS PRESENT ON ALL FLEX CONNECTORS SHALL BE FITTED OVER THE CORE CONNECTION AND SHALL BE SUPPLEMENTALLY SECURED WITH A DRAW BAND AND TAPED. SEE DETAIL ON M4 SHEET.
- TEMPERATURE SETTINGS:
  - AT CONCLUSION OF PROJECT, SET POINTS SHALL BE APPROXIMATELY COOLING 78 DEGREES F/ HEATING 68 DEGREES F, AND INSTRUCT OWNER HOW TO RESET.
- ROOF CURBS:
  - CURBS TO BE FURNISHED BY NCA CONSULTANTS AND INSTALLED IN ACCORDANCE WITH DETAILS ON SHEET M2. COORDINATE WITH ROOF CONTRACTOR. RTU/S SHALL BE INSTALLED SUCH THAT ROOF DECK IS CONTINUOUS BENEATH, AND OPEN PLENUM CURBS FLANGE TO FLANGE. SEE M2 SHEET.
- TESTING AND ADJUSTING OF HVAC SYSTEM:
  - UPON COMPLETION OF THE INSTALLATION, THE PROJECT SHALL BE TESTED AND ADJUSTED AS FOLLOWS:
    - ADJUST FAN DRIVES TO ACHIEVE REQUIRED AND RATED CFM.
    - ADJUST TEMPERATURE AND FAN CONTROL SEQUENCE.
    - ADJUST THE ENTIRE INSTALLATION AS TO MINIMIZE NOISE AND VIBRATION FROM FANS.
    - ELIMINATE ANY DUCT PULSATION BY USE OF STIFFENERS OR ADDITIONAL SUPPORTS AS REQUIRED.
    - CORRECT ANY EQUIPMENT OR COMPONENT WHICH IS GENERATING OBJECTIONABLE NOISE IN THE OPINION OF THE OWNER OR BY LOCAL AUTHORITIES.
    - BALANCE EXHAUST AND OUTSIDE AIR TO QUANTITIES INDICATED ON THE PLANS. REFER TO BUILDING AIR BALANCE SCHEDULE.
    - PROVIDE OWNER AND ENGINEER OF RECORD TWO(2)COPIES OF A WRITTEN AIR BALANCE REPORT INDICATING ALL FINAL EXHAUST, SUPPLY, AND OUTSIDE AIR FLOWS.

- PIPING TO BE HERMETICALLY SEALED.
  - CONTROLS: FURNISH AND INSTALL AS INDICATED ON DRAWINGS. FURNISH AND INSTALL ALL CONTROL WIRING AND CABLES FROM HVAC UNITS, TEMPERATURE SENSORS, PHOTOCCELL, AND CONTRACTOR PANEL IF USED. ROUTE CONTROL WIRING IN RACEWAY IN EQUIPMENT IF PROVIDED.
  - HOOD EXHAUST FANS AND DUCTWORK: INSTALL ALL HOOD EXHAUST FANS IN ACCORDANCE WITH THE PLANS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. COOKING EXHAUST FANS ARE SUPPLIED BY OWNER. VENTILATOR EXHAUST DUCT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 96.
  - CLEANUP: AFTER COMPLETION OF THE WORK BEFORE FINAL INSPECTION CLEAN HVAC EQUIPMENT.
  - FILTERS: PROVIDE CLEAN SET OF FILTERS FOR EACH HVAC UNIT WHEN TURNED OVER TO THE OWNER.
  - HVAC OPERATOR'S MANUAL AND DIAGRAMS:
    - PROJECTS PARTICIPATING IN THE NATIONAL ACCOUNTS PROGRAM SHALL FOLLOW THE PROCEDURE OUTLINED IN THE NATIONAL ACCOUNT.
    - PROJECTS NOT PARTICIPATING IN THE NATIONAL ACCOUNT SHALL FOLLOW THE FOLLOWING PROCEDURE:
      - PREPARE IN DUPLICATE A MANUAL DESCRIBING THE PROPER MAINTENANCE AND OPERATION OF THE SYSTEM. THIS MANUAL SHALL NOT CONSIST OF STANDARD FACTORY-PRINTED INSTRUCTIONS, ALTHOUGH THESE MAY BE INCLUDED, BUT SHALL BE PREPARED TO DESCRIBE THIS PARTICULAR PROJECT.
      - THE MANUALS SHALL BE BOUND, INDEXED, DATED, AND SIGNED BY THE GENERAL CONTRACTOR. ONE (1)COPY SHALL BE SENT TO POPEYES DEVELOPMENT AND THE OTHER TO THE OWNER. QUALIFIED REPRESENTATIVES OF THE AIR CONDITIONING CONTRACTOR SHALL MEET WITH THE DESIGNATED REPRESENTATIVE OF THE OWNER. THE OWNER'S REPRESENTATIVE SHALL BE INSTRUCTED IN THE PROPER OPERATION AND MAINTENANCE OF THE HVAC AND CONTROL SYSTEM.
  - GUARANTEE: MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE (1)YEAR FROM DATE OF COMPLETION. IN ADDITION, ALL REFRIGERATION COMPRESSORS SHALL BEAR A NON-PRORATED 5-YEAR FACTORY WARRANTY, AND ALL EXTENDED WARRANTIES.
  - SERVICE ACCESS:
    - PROVIDE SERVICE ACCESS AS REQUIRED IN MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF SUCH ACCESS IS NOT AVAILABLE, NOTIFY OWNER AND ATTEMPT TO SEE IF NECESSARY CHANGES CAN BE WORKED OUT WITH OTHER TRADES. IF NOT, DO NOT INSTALL EQUIPMENT WHICH DOES NOT MEET MANUFACTURER'S REQUIREMENTS FOR ACCESSIBILITY. IN NO CASE BID, SUBMIT, OR INSTALL EQUIPMENT IN SITUATIONS THAT DO NOT MEET THE MANUFACTURER'S WARRANTY REQUIREMENTS.
  - ENVIRONMENTAL CORROSION PROTECTION: CONDENSER, COOLING/HEATING COILS:
    - REQUIRED FACTORY DIPPED COATING WITHIN ONE MILE OF ANY SALT WATER BODY. FACTORY PRE-COAT WITHIN ONE TO FIVE MILES OF ANY SALT WATER BODY.
- GENERAL NOTES:
- HVAC CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, ETC.
  - ALL ROOF MOUNTED EQUIPMENT AND PENETRATIONS SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. PROVIDE AMPLE CURBS.
  - ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FAN OR PLUMBING VENT. REFER TO ROOF PLAN.
  - THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS, AND OTHER ITEMS FURNISHED BY OTHERS AS WELL AS THOSE FURNISHED BY HIM.
  - CONDENSATE DRAINAGE FROM ROOF TOP HVAC UNITS SHALL BE TRAPPED, REFER TO ROOF PLAN.
  - PROVIDE VIBRATION ISOLATION GASKETS AT FLANGE MARRIAGES. SEE DETAIL ON M4 SHEET.
  - ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
  - MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUTS AS REQUIRED.
  - THE CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
  - THIS CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS, WALLS AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
  - THERMOSTATS SHALL BE LOCATED GENERALLY AS SHOWN BUT THEIR EXACT LOCATION SHALL BE FIELD COORDINATED TO AVOID NTERFERENCE WITH WALL MOUNTED ITEMS. MOUNT 54" AFF.
  - MECHANICAL CONTRACTOR TO INSULATE BACKSIDE OF ALL DIFFUSERS.
  - DAMAGED COIL FINS SHALL BE COMBED STRAIGHT.

HVAC CONTROL NOTES:

THE HVAC CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING DIAGRAMS FOR THE HVAC EQUIPMENT. 24 VOLT WIRING AND CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE ADDITIONAL 24 VOLT TRANSFORMERS AS REQUIRED.

ROOFTOP AIR CONDITIONING UNITS  
THE AIR CONDITIONING UNIT FANS, HEATING AND COOLING SHALL BE CONTROLLED FROM 24 VOLT ROOM THERMOSTATS LOCATED APPROXIMATELY AS SHOWN ON THE PLANS. THE THERMOSTATS SHALL BE MOUNTED BY THIS CONTRACTOR 54" A.F.F.

SMOKE DETECTORS  
PROVIDE EACH AIR CONDITIONING UNIT WITH A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN AIR DUCT SYSTEM PRIOR TO MIXTURE OF OUTSIDE AIR CAPABLE OF SHUTTING DOWN ITS RESPECTIVE AIR CONDITIONING UNIT UPON ACTIVATION. THE SMOKE DETECTOR SHALL CONSIST OF A SIMPLEX DUCT DETECTOR WITH PHOTOELECTRIC DETECTOR, AND SAMPLING TUBE. ALL LINE VOLTAGE WIRING AND CONDUIT SHALL BE BY THE ELECTRICAL CONTRACTOR AND ALL OTHER WORK SHALL BE BY THE HVAC CONTRACTOR. ACTIVATION OF A DUCT SMOKE DETECTORS SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

HOOD OPERATION

- ONCE ALL REQUIRED CONNECTIONS HAVE BEEN COMPLETED AS INDICATED ON THE SCHEMATIC, POWER CAN BE APPLIED TO THE PANEL. THE ECPM03 CIRCUIT BOARD AND LCD SCREEN WILL POWER UP AND BEEP.

-THE LCD SCREEN (CASHMI) HAS (4) BUTTONS WITH THE FUNCTION DISPLAYED ADJACENT TO THE BUTTON. LIGHTS AND FANS ARE SHOWN ON THE BOTTOM 2 BUTTONS. AN EMPTY BOX AROUND FANS OR LIGHTS MEANS THAT THESE ARE OFF. A DARK BOX AROUND THE FANS OR LIGHTS MEANS THAT THESE ARE ON.

- A THERMISTOR WILL BE INSTALLED IN EVERY HOOD EXHAUST RISER. A 2-WIRE PLENUM RATED THERMISTOS CABLE (18 GA TYPICAL), RUN IN CONDUIT, SHOULD BE USED TO WIRE THE SENSORS BACK TO THE CONTROLLER.

- A ROOM TEMPERATURE SENSOR IS PROVIDED WITH THE PANEL AND SHOULD BE INSTALLED IN A SAFE LOCATION, FREE OF INFLUENCE FROM EXTERNAL HEAT SOURCES. IT SHOULD BE INDICATIVE OF THE AVERAGE TEMPERATURE AWAY FROM THE APPLIANCES.

SEQUENCE OF OPERATION

FANS ON: TURN ON THE COOKING APPLIANCES AND ALLOW THEM TO REACH IDLE TEMPERATURE. THE FANS SHOULD AUTOMATICALLY BE ENERGIZED AS THE COOKING APPLIANCES HEAT UP. THE FACTORY SET ACTIVATION POINT FOR DUCT TEMPERATURE OVERRIDE OF THE FAN SWITCH IS 10" ABOVE KITCHEN ROOM TEMPERATURE. THIS FUNCTION ALLOWS THE SYSTEM TO MEET THE REQUIREMENTS OF IMC 507.2.1.1, WHICH REQUIRE EXHAUST FANS TO ACTIVATE WHEN COOKING IS OCCURRING. LIGHTS WILL AUTOMATICALLY BE TURNED ON AS WELL. LIGHTS CAN BE TURNED ON AND OFF MANUALLY BY PRESSING THE LIGHTS BUTTON.

FANS OFF: IF THE SYSTEM WAS IN AUTOMATIC OPERATION, THE FANS WILL TURN OFF WHEN THE DUCT TEMPERATURE GOES BELOW THE ACTIVATION POINT MINUS THE TEMPERATURE HYSTERESIS OF 2 DEGREES. FOR EXAMPLE, IF THE ACTIVATION TEMPERATURE IS AT 85°F AND TEMPERATURE HYSTERESIS IS SET TO 2°F, THEN THE FANS WILL TURN OFF AT 83°F







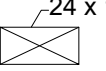

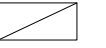
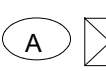
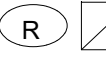
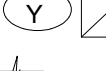
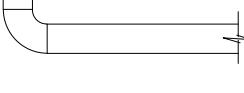
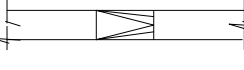

NOTE: THE HYSTERESIS TIMER, FACTORY SET AT 30 MINUTES, IS USED TO PREVENT THE FANS FROM CYCLING ON AND OFF TOO OFTEN DUE TO SMALL APPLIANCES GENERATING JUST ENOUGH EAT TO TURN ON THE FANS BUT NOT ENOUGH TO KEEP THEM ON FOR A LONG TIME. THE HYSTERESIS TIMER WILL MAINTAIN THE FANS ON AFTER THEY HAVE BEEN ACTIVATED BY TEMPERATURE FOR A MINIMUM TIME SET BY THIS TIMER, EVEN IF THE TEMPERATURE IN THE DUCT COOLS BACK DOWN.

HVAC SEQUENCE OF OPERATIONS

RTU-1,2,3 MOTORIZED OA DAMPER SHALL BE INTERLOCKED WITH KITCHEN HOOD EXHAUST FANS EF-1,2,3 AND SHALL BE IN OPEN POSITION WHEN IN OPERATION. RTU EVAPORATOR FANS SHALL RUN CONTINUOUSLY.

RESTROOM EXHAUST FAN EF-4 SHALL BE CONTROLLED BY LIGHT SWITCH / MOTION SENSOR.

HVAC SYMBOL LEGEND

AFF	ABOVE FINISHED FLOOR
CFM	CUBIC FEET PER MINUTE
HP	HORSEPOWER
KW	KILOWATT
OA	OUTSIDE AIR
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
	SUPPLY AIR (SA) DUCTWORK
	RETURN AIR (RA) DUCTWORK
	EXHAUST AIR (EA) DUCTWORK
WB	WET-BULB
	WALL MOUNTED THERMOSTAT FOR UNIT INDICATED
	REMOTE DUCT TEMPERATURE SENSOR
	FUSIBLE LINK
	DUCT SECTION, POSITIVE PRESSURE, FIRST FIGURE IS ARROW SIDE
	DUCT SECTION, EXHAUST
	DUCT SECTION, NEGATIVE PRESSURE, RETURN
	CEILING DIFFUSER
	CEILING RETURN
	CEILING EXHAUST
	RADIUS ELBOW - INSIDE RADIUS MINIMUM ONE HALF DUCT WIDTH
	SQUARE TO ROUND TRANSITION
	REMOTE HOOD PULL STATION

NOTE:  
GENERAL CONTRACTOR SHALL  
COORDINATE TRUSS SPACING PLUM  
TO ACCOMMODATE STRAIGHT GREASE  
RISERS FROM HOOD TO FAN INLET.

APPROVED HVAC NATIONAL ACCOUNT  
APPROVED VENDORS:  
CARRIER  
TRANE  
LENNOX

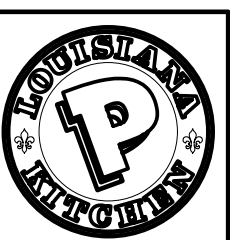
ARCHITECTURE  
ENGINEERING

ARCHITECT/ENGINEER  
**LIS**  
LAND INVESTMENT SERVICES, LLC

21430 Palm Beach Blvd  
Suite 206, Orlando, FL 32835  
Phone: (321) 463-3920  
Faxline: (321) 463-3928

CLIENT NAME  
INTERFACE PROPERTIES

1001 E. TELECOM DRIVE  
BOCA RATON, FL 33431



POPEYES

PROJECT NAME  
PLK 1930-28-DL SAILORMEN  
2401 NORTH COLUMBIA STREET  
MILLEDGEVILLE, GA 31061

SHEET TITLE  
MECHANICAL DATA SHEET AND SEPCIFICATIONS

SEAL

SUBMITTAL  
CHECKSET  
10/25/19

ROBERT W. CASE  
GEORGIA PE #020594

RELEASE	DATE
1	
2	
3	
4	
5	
6	

PROJECT NO.  
2019-208

ISSUE DATE  
10-25-2019

DRAWN  
KB

CHECKED  
KB

SHEET NO.  
MO  
MECHANICAL DATA SHEET  
AND SEPCIFICATIONS

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