

**GENERAL HVAC NOTES**

- ALL HVAC WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE AND ALL APPLICABLE LOCAL CODES AND ORDINANCES. IF A CONFLICT IS FOUND BETWEEN APPLICABLE CODES THE MORE STRINGENT SHALL APPLY.
- THE SUBMISSION OF A PROPOSAL WILL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE DRAWINGS, THE BUILDING SITE AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, IF THEY COULD HAVE BEEN FORESEEN HAD A COMPLETE AND THOROUGH EXAMINATION BEEN MADE.
- THE EQUIPMENT ROUGH-IN ITEMS AND THEIR DIMENSIONED LOCATIONS FOR ALL CONNECTIONS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. IN SOME INSTANCES THE OWNER OR SUPPLIER MAY MAKE SUBSTITUTIONS OR THE EQUIPMENT ITEMS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS. THEREFORE, THESE ITEMS AND DIMENSIONS SHALL BE VERIFIED WITH THE EQUIPMENT SUPPLIER, OWNER AND/OR EQUIPMENT ROUGH-IN DRAWINGS. THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED, PRIOR TO CONSTRUCTION, OF ANY DEVIATIONS OF THAT SHOWN OR IMPLIED ON THESE DRAWINGS. FAILURE OF THE APPROPRIATE CONTRACTOR TO VERIFY ROUGH-INS OR LOCATIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION AND/OR ADDITIONAL ROUGH-INS DIRECTLY UPON THE CONTRACTOR.
- DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION.
- THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED OR FIELD ERRECTED, ALL FACTORY ASSEMBLED EQUIPMENT FOR WHICH NO SPECIFIC MANUFACTURER'S GUARANTEE IS FURNISHED AND ALL WORK IN CONNECTION WITH THE INSTALLATION OF MANUFACTURER'S GUARANTEED EQUIPMENT. THIS CONTRACTOR'S GUARANTEE SHALL EXIST FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL OWNER ACCEPTANCE OF THE WORK AND SHALL APPLY TO ALL DEFECTS IN MATERIALS AND/OR WORKMANSHIP OF ANY KIND.
- ALL PERMITS AND FEES REQUIRED FOR THE WORK SHALL BE SECURED AND PAID BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE BID PRICE.
- ALL EQUIPMENT AND MATERIAL SHALL BE NEW AND UNUSED AND SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. PROVIDE COMPLETE WITH ALL FITTINGS, OFFSETS AND OTHER ITEMS AS NEEDED BUT NOT NECESSARILY INDICATED ON THE DRAWINGS.
- WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OR NATURE OF THE WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES WILL BE MADE WITH THE EXPRESSED WRITTEN CONSENT OF THE OWNER.
- THE CONTRACTOR SHALL FULLY COOPERATE WITH ALL TRADES. FAILURE TO DO SO SHALL RESULT IN THE TERMINATION OF THE CONTRACT.
- THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER EIGHT COPIES OF MANUFACTURER'S SHOP DRAWING INFORMATION FOR APPROVAL SO THE QUALITY OF INTENDED MATERIALS OR EQUIPMENT CAN BE REVIEWED PRIOR TO INSTALLATION.
- ALL RECTANGULAR, ROUND AND FLEXIBLE DUCTS SHALL BE SIZED AS INDICATED ON THE DRAWINGS. MINIMUM INTERNAL FREE AREA DIMENSIONS ARE GIVEN. ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTS HAVE BEEN SIZED FOR VOLUME AND STATIC PRESSURE DROP WITHOUT INTERNAL INSULATION.
- ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTS SHALL BE INSULATED WITH CLASS 1 INSULATION WRAP, 2 INCH THICK AND 3/4 POUND PER CUBIC FOOT DENSITY. BACKING SHALL BE FOIL TYPE WITH REINFORCEMENT. INTERNAL DUCT LINER SHALL ONLY BE USED WHERE SPECIFICALLY REQUIRED. INSULATE THE METAL BACKS OF ALL GRILLS, DIFFUSERS AND PLENUM BOXES.
- ALL FLEXIBLE ROUND DUCT SHALL HAVE 2 INCH THICK FIBERGLASS INSULATION ENCASED IN A VAPOR BARRIER OR SEAMLESS, NON-COMBUSTIBLE, COPOLYMER PLASTIC. INSTALL METAL FLEX CLASS 1 TYPE 506 AIR DUCT OR UL LISTED AND ENGINEER APPROVED EQUAL FLEXIBLE DUCTS SHALL BE CONNECTED TO TRUNK OR BRANCH DUCTS WITH A MINIMUM OF THREE SHEET METAL SCREWS AT EACH CONNECTION AND CLAMPED (ZIP TIE OR EQUAL) AND DUCT TAPED FOR AN AIRTIGHT SEAL.
- MAXIMUM LENGTH OF FLEX DUCT IS 4 FEET UNLESS OTHERWISE NOTED. FLEX DUCT SHALL BE SUPPORTED USING 1 INCH WIDE METAL STRAPS SECURED TO THE STRUCTURE ABOVE WITH APPROPRIATE HARDWARE. MAXIMUM BEND IN FLEXIBLE DUCT IS 90 DEGREES OVER THE ENTIRE LENGTH OF DUCT.
- ALL FABRICATED DUCTWORK SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED ASHRAE & SMACNA STANDARDS. ALL FABRICATED DUCTS SHALL BE METAL, 26 GAUGE OR THICKER.
- INSTALL DOUBLE WALL TURNING VANES AT ALL 90 DEGREE ELBOWS AND TEES LARGER THAN 100 SQUARE INCHES.
- INSTALL ADJUSTABLE AIR VOLUME DAMPERS AT ALL DUCT TEES AND AT ALL BRANCH TAKE-OFFS.
- PRIOR TO ORDERING OR FABRICATING ANY NEW EQUIPMENT OR DUCT THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CLEARANCES AND REPORT ANY DISCREPANCIES BETWEEN THE INFORMATION ON THE DRAWING AND ACTUAL FIELD CONDITIONS TO THE ENGINEER. MANUFACTURER'S MINIMUM CLEARANCE RECOMMENDATIONS SHALL BE MAINTAINED ON ALL EQUIPMENT AND DUCT WORK.
- IN MOST CASES THE SPACE ABOVE THE CEILING OR IN CHASES IS EXTREMELY LIMITED. PIPES, DUCTS, CONDUIT, FIXTURES AND SOME EQUIPMENT MUST SHARE THE SPACE. IT IS THE RESPONSIBILITY OF THE VARIOUS TRADES TO COORDINATE THE EXACT LOCATION OF ALL ITEMS. NO ADDITIONAL MONEY WILL BE PAID FOR PROBLEMS CAUSED BY SPACE CONFLICTS.
- ALL GRILLS AND DIFFUSERS INSTALLED IN A CEILING GRID SHALL BE EASILY REMOVABLE FOR CLEANING.
- PROVIDE PROGRAMMABLE THERMOSTATS WHERE INDICATED ON THE DRAWINGS. AT A MINIMUM THE THERMOSTAT SHALL INCLUDE: DAY PROGRAMMING, HOLIDAY PROGRAMMING, OCCUPIED, UNOCCUPIED AND OVER RIDE SETTINGS. PROVIDE CLEAR ACRYLIC LOCKING OVER EACH THERMOSTAT. WHERE INDICATED PROVIDE REVOTE TEMPERATURE SENSING BULB AND CONNECT CONTROL WIRING TO THERMOSTAT ASSEMBLY.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING AND CONDUIT AND SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS TO ALL MECHANICAL EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT AND CONNECTION BOXES REQUIRED FOR THE MECHANICAL CONTROL SYSTEM. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL WIRING AND SHALL MAKE ALL FINAL CONTROL CONNECTIONS. CONTRACTOR SHALL VERIFY EXACT THERMOSTAT LOCATION PRIOR TO INSTALLATION. COORDINATE WITH MILL WORK AND ARCHITECTURAL FINISHES.
- WHERE INDICATED ON THE DRAWINGS AND WHERE REQUIRED BY APPLICABLE CODE PROVIDE AND INSTALL RETURN DUCT MOUNTED SMOKE DETECTORS. DETECTORS SHALL BE EQUAL TO ESL 800 SERIES. UNIT SHALL OPERATE ON 24 VOLT POWER FROM EQUIPMENT POWER CIRCUIT. PROVIDE CONTRACTOR FOR CONNECTION TO FIRE ALARM OR OTHER TYPE OF MONITORING SYSTEM. SAMPLING TUBE SHALL EXTEND ACROSS THE ENTIRE LENGTH OF THE RETURN DUCT. PROVIDE ACCESS DOOR SAMPLING TUBE FOR TESTING AND INSPECTION. CONNECT DETECTOR AUXILIARY CONTACT LEADS TO AUTOMATICALLY SHUT DOWN SUPPLY FAN IN THE PRESENCE OF COMBUSTION PRODUCTS IS SENSED WITHIN THE DUCT. SHUT DOWN DELAY RELAYS PROVIDED FOR REMEDIAL HEAT REMOVAL OR ANY OTHER REASON. MANUAL RESET IS REQUIRED. INSTALL AS PER NFPA 701.
- PROVIDE FLEXIBLE, VIBRATION ABSORPTION MOUNTING ON ALL SUPPLY AND RETURN DUCT CONNECTIONS AT EACH PIECE OF EQUIPMENT.
- PLENUM RATED WIRE SHALL BE NEATLY BUNDLED IN GROUPS AND SHALL BE COMBINED WHERE APPLICABLE TO FOLLOW A SINGULAR PATH BETWEEN DEVICES. BUNDLES SHALL BE SUPPORTED WITH APPROPRIATE STRAPS (ZIP TIES AT THE STRUCTURE) OR INSTALLED IN CABLE TRAYS. AT RATED WALL ASSEMBLIES THE TRAYS SHALL BE MOUNTED TO THE WALL WITH A MINIMUM OF ONE FOOT BEYOND THE WALL ON EACH SIDE. SEAL CONDUIT ENDS WITH FIRE PROTECTANT UPON COMPLETION OF WIRE INSTALLATION.
- AT ALL GAS BURNING APPLIANCES PROVIDE TYPE B FLUE SYSTEMS THRU THE ROOF. PROVIDE DECORATIVE FLUE CAP AND PAINT ALL FLUE MATERIAL ABOVE THE ROOF TO MATCH THE ROOF COLOR.
- ON GAS BURNING EQUIPMENT WITH AN EFFICIENCY OF GREATER THAN 90% OR WHERE THE EXHAUST GAS TEMPERATURE IS 105 DEGREES F OR LESS THE CONTRACTOR MAY USE SCHEDULE 40 PVC FLUE MATERIALS AS DIRECTED BY MANUFACTURER'S LITERATURE. TERMINATE WITH MANUFACTURER'S APPROVED FLUE CAP.
- INTERIOR AND EXTERIOR REFRIGERANT COILS SHALL INCLUDE A CONDENSATE PAN AS A PART OF THE EQUIPMENT. PROVIDE PRIMARY AND SECONDARY CONDENSATE PANS FROM ALL PANS TO INTERIOR FLOOR OR HUB DRAIN OR EXTERIOR GUTTER. CONDENSATE PIPE SHALL BE SCHEDULE 40 PVC AND SLOPED AT A MINIMUM OF 1/4 INCH PER FOOT. PROVIDE CLEAN OUTS ON EACH LINE AND AS REQUIRED TO COMPLETELY CLEAR CONDENSATE SYSTEM.
- ALL GRID MOUNTED EQUIPMENT SHALL SET ON A 4 INCH THICK CONCRETE HOUSEKEEPING PAD.
- ROOF MOUNTED EQUIPMENT SHALL BE SET ON A CURB TO MATCH ROOF CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF TYPE AND STRUCTURAL CONDITIONS.
- ALL FRESH AIR AND COMBUSTION AIR INTAKE LOUVERS AND ROOF CAPS SHALL INCLUDE STAINLESS STEEL, GALVANIZED OR ALUMINUM INSECT SCREEN. SCREEN SHALL BE REMOVABLE FOR CLEANING.
- ALL EXHAUST FANS AND EXHAUST LOUVERS SHALL INCLUDE GRAVITY OR POWERED BACKDRAFT DAMPERS AND BIRD SCREEN AT THE EXTERIOR OUTLET. REFER TO DRAWINGS AND DETAILS FOR EXACT CONFIGURATION.
- DO NOT SUPPORT INTERIOR EXHAUST FANS, GRILLS, DIFFUSERS, DUCT OR OTHER EQUIPMENT FROM CEILING STRUCTURE. INSTEAD SUPPORT EQUIPMENT FROM STRUCTURE ABOVE WITH APPROPRIATE HARDWARE.
- PROVIDE FIRE DAMPERS WHERE INDICATED ON THE DRAWINGS AND IN ALL RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR DESCRIPTION AND LOCATION OF ALL RATED ASSEMBLIES. INSTALL FIRE DAMPERS IN ACCORDANCE WITH APPLICABLE CODES AND AS PER MANUFACTURER'S AND NFPA INSTRUCTIONS. RATING OF ALL FIRE DAMPERS SHALL BE DETERMINED BY ASSEMBLY RATING.
- ALL EXTERIOR LOUVERS SHALL MATCH THE BUILDING COLOR SCHEME. COORDINATE WITH ARCHITECTURAL DRAWINGS AND SUBMIT SAMPLES FOR APPROVAL PRIOR TO ORDERING ANY LOUVERS.
- ALL MECHANICAL EQUIPMENT SHALL HAVE A MEANS OF ELECTRICAL DISCONNECT COMPLETELY ACCESSIBLE TO SERVICE PERSONNEL. COORDINATE WITH THE ELECTRICAL CONTRACTOR AS TO LOCATION.
- THE CONTRACTOR SHALL PROVIDE VIBRATION ISOLATION FOR ALL MOTORIZED EQUIPMENT. OBJECTIONABLE NOISE AND VIBRATION SHALL BE COMPLETELY ELIMINATED.
- THE ENTIRE MECHANICAL SYSTEM SHALL BE BALANCED TO THE FLOW NUMBERS INDICATED ON THE DRAWINGS PLUS OR MINUS FIVE PERCENT. A COMPLETE TABULATION OF ALL TEST RESULTS SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.

**MECHANICAL EQUIPMENT LIST**

PTAC	THROUGH THE WALL UNIT PACKAGE TERMINAL AIR CONDITIONER WITH HEAT SIZE AS REQUIRED.
FF-A	CEILING MOUNTED EXHAUST FAN, CONTROLLED BY WALL SWITCH. SIZE AS REQUIRED. PROVIDE FIRE DAMPER AS REQ'D.
FF-B	FLEXIBLE MOUNTED ROOM, HORIZONTAL CABINET TYPE EXHAUST FAN. SIZE PER FLEXIBLE MANUFACTURER REQUIREMENTS. CONTROLLED BY THERMOSTAT.
FF-C	HORIZONTAL CABINET TYPE EXHAUST FAN, CONTROLLED BY FAN CABINET MOUNTED VARIABLE SPEED CONTROLLER, SIZE AS REQUIRED (MIN. POOL ROOM CAPACITY 8 AIR CHANGES PER HOUR.)
FF-D	VERTICAL FLEXIBLE GRAVITY VENT PER CODE MIN. OF 3 SQUARE FEET PER LIFT, AS REQUIRED (PER FLEXIBLE CODE AND FLEXIBLE MANUFACTURER REQUIREMENTS.)
FF-E	WALL MOUNTED PROPRIETARY EXHAUST FAN WITH BACKDRAFT DAMPER CONTROLLED BY ROOM THERMOSTAT. CAPACITY AS REQUIRED.
FF-F	GUEST ROOM AND STORAGE TOILET EXHAUST FAN, WALL OR CEILING MOUNTED. SUPPLY WITH RADIATION DAMPER.
FF-G	VERTICAL DISCHARGE KITCHEN FAN SUITABLE FOR GREASE AIR HANDLING. INTERLOCK WITH SF-R. CONTROLLED BY WALL SWITCH. CAPACITY AS PER HOOD MANUFACTURER'S REQUIREMENTS.
FF-J	VENTING ROOM EXHAUST FAN, CEILING MOUNTED.
SF-A	HORIZONTAL CABINET TYPE SUPPLY AIR FAN FOR KITCHEN MAKE-UP AIR CAPACITY TO KITCHEN HOOD MANUFACTURER'S REQUIREMENTS. INTERLOCK WITH FF-H. CONTROLLED BY WALL SWITCH. SIZE AS REQUIRED.
SF-B	WALL MOUNTED PROPRIETARY SUPPLY AIR FAN WITH BACKDRAFT DAMPER CONTROLLED BY ROOM THERMOSTAT AND INTERLOCKED WITH WALL HEAT EXHAUST FAN. MINIMUM CAPACITY FOUR (4) CFM PER LINEAL FOOT OF HOOD.
FWH	SURFACE MOUNTED FLEXIBLE WALL HEATER, CAPACITY AS REQUIRED.
AHU-1	PACKAGED ROOM HEATING AND COOLING CONTROL UNIT. UNIT TO PROVIDE HEATING/COOLING/INDICATION AND POOL WATER HEATING. UNIT SHALL BE MANUFACTURED SPECIFICALLY FOR THIS PURPOSE. SUPPLY WITH MATCHING ACCU.
AHU-2	VERTICAL OR HORIZONTAL FAN COIL UNIT WITH DESIGNATION (S, R, B, C, D) AND FICTITIOUS HEAT. CAPACITY AS REQUIRED. CONTROLLED BY WALL MOUNTED THERMOSTAT.
ACCU	AIR COOLED CONDENSING UNIT. CAPACITY TO MATCH AHU.
ID	LINEAR SLOT DIFFUSER CONSTRUCTED OF EXTRUDED ALUMINUM WITH AIR PATTERN CONTROLLER ADJUSTABLE FOR 180 DEGREE AIR PATTERN. EACH AIR SLOT SHALL BE EQUIPPED WITH AN INDIVIDUALLY ADJUSTABLE VOLUME DAMPER. DIFFUSER SHALL BE METAL AIR SCREENS 6000. SEE PLANS FOR LENGTH AND FINISH SIZE.
CD	CEILING DIFFUSER, 4-WAY ADJUSTABLE AIR PATTERN. PROVIDE WITH OPPOSED RADIAL DAMPER, VOLUME DAMPER CONSTRUCTED OF EXTRUDED ALUMINUM AND OF COLORS SPECIFIED BY ARCHITECT. DIFFUSER SHALL BE METAL AIR SCREENS 5000 FURNISHED WITH MODEL TR TRANSITION FOR ROUND DUCT CONNECTION.
SR	SUPPLY REGISTER SHALL BE ONE WAY PATTERN WITH INDIVIDUALLY ADJUSTABLE CURVED RADIALS, CONSTRUCTED OF EXTRUDED ALUMINUM. REGISTERS TO BE METAL AIR 1" FOR CEILING AND VOLUME DEFLECTION MODEL FOR WALL.
RR	RETURN/EXHAUST REGISTER (CEILING - 0" DEFLECTION + WALL FIXED 45° CURVED DEFLECTION VANES), MANUFACTURED OF CORROSION RESISTANT ALUMINUM. REGISTERS TO BE METAL AIR SCREENS 6000.
UH	UNIT HEATER

**EQUIPMENT LIST NOTES**

- EQUIPMENT CAPACITIES FOR HVAC ITEMS LISTED SHALL BE DETERMINED BASED ON BUILDING LOCATION AND DESIGN CRITERIA AS SHOWN ON THIS SHEET.
- FINAL SELECTION OF FACTORIAL CHARACTERISTICS FOR EQUIPMENT SHALL BE DETERMINED BASED ON SITE VOLTAGE AVAILABILITY.
- SEE MARKING SPECIFICATIONS FOR LIST OF ACCEPTABLE EQUIPMENT MANUFACTURERS FOR MECHANICAL PRODUCTS.
- CONDENSATE LINES FOR PTAC/VTAC UNITS SHALL BE LOCATED INSIDE BUILDING AND SHALL DRAIN TO SANITARY OR SEWER LINE AS ALLOWED BY CODE.

**MECHANICAL SYMBOLS**

NOTE: ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS

SINGLE LINE	DESCRIPTION	DOUBLE LINE
	90 DEGREE SUPPLY AIR DOWN (RETURN SIM.)	
	90 DEGREE SUPPLY AIR UP (RETURN SIM.)	
	ROUND RADIUS FLOW	
	SIZE OR SHAPE TRANSITION	
	FIX AIR DUCT TAP	
	90 DEGREE SUPPLY AIR DOWN WITH RADIATION DAMPER	
	90 DEGREE SUPPLY AIR UP WITH RADIATION DAMPER	
	RECTANGULAR SUPPLY AIR FLOW	
	RECTANGULAR SUPPLY AIR FLOW WITH TURNING VANES	
	BRANCH TAKEOFF WITH ADJUSTABLE DAMPER	
	TEE WITH SQUARE FLOWS, TURNING VANES AND SPLITTER DAMPER	
	UNIDIRECTIONAL DUCTWORK	
	SIDEWALL SUPPLY GRILL OR REGISTER WITH AIR EXTRACTOR	
	NEW DUCTWORK	
	DUCT RISER UNDER POSITIVE PRESSURE	
	DUCT RISER UNDER NEGATIVE PRESSURE	
	DUCT RISER MAKE-UP AIR	
	SUPPLY AIR GRILL OR REGISTER	
	RETURN AIR GRILL OR REGISTER	
	EXHAUST FAN	
	VOLUME DAMPER	
	FIRE DAMPER	
	FIRE/SMOKE DAMPER	
	MOTORIZED DAMPER	
	THERMOSTAT	

**HVAC/EXHAUST DESIGN CRITERIA**

**OUTDOOR DESIGN TEMPERATURES:**  
 BASED ON BUILDING LOCATION AND DESIGN CRITERIA AS SHOWN ON THIS SHEET.  
 LOCATION WITH CITY LISTED IN 1997 ASHRAE FUNDAMENTALS, WEATHER DATA (CHAPTER 24) OR LOCAL AIRPORT CLIMATOLOGICAL DATA.

**WINTER DESIGN BASED ON 97.5% FREQUENCY**  
 SUMMER DESIGN BASED ON 2.5% FREQUENCY

**INDOOR DESIGN TEMPERATURES AND CONDITIONS:**

	SUMMER	WINTER
WORK ROOMS	76° DB/63° WR	70° DB
LOBBY AREA/BREAKFAST	76° DB/63° WR	72° DB
CORRIDORS	78° DB/67° WR	70° DB
POOL ROOM	80° DB/50° RH	80° DB/50% RH
GUEST ROOMS	75° DB/63° WR	72° DB
KITCHEN	80° DB/50° RH	70° DB
EXERCISE	76° DB/65° WR	72° DB

SFF RESIDENTIAL DESIGN & CONSTRUCTION STANDARDS FOR ADDITIONAL REQUIREMENTS.

HVAC EQUIPMENT SELECTIONS SHALL BE DETERMINED FROM HEATING/COOLING CALCULATIONS BASED ON ASHRAE LOAD CALCULATION MANUAL.

HVAC SYSTEM SHALL CONFORM TO THE FOLLOWING:  
 2009 INTERNATIONAL MECHANICAL CODE  
 2006 NFPA CODE  
 2009 INTERNATIONAL BUILDING CODE  
 LOCAL BUILDING AND HEALTH DEPARTMENT CODES & REGULATIONS

EXHAUST FAN CAPACITIES FOR INDIVIDUAL ROOMS OR SPACE TO BE BASED ON NATIONAL AND LOCAL CODE REQUIREMENTS AND EQUIPMENT LOAD REQUIREMENTS. OWNER TO VERIFY REQUIRED CAPACITIES. CAPACITIES SHOWN ARE FOR PURPOSES OF GUIDANCE ONLY.

THESE DRAWINGS ARE PRELIMINARY IN NATURE AND INTENDED FOR REVIEW AND PERMITTING. DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION WITHOUT ARCHITECT'S AND ENGINEER'S SIGNATURE AND THEIR DATE OF ISSUE FOR CONSTRUCTION.

RECORD

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John Sanford  
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**PROPOSED HOLIDAY INN LI 9383**  
 215 CRACKER BARREL DR., CLARKSVILLE  
 MONTGOMERY COUNTY, TENNESSEE

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No.	Description	Date

SHEET

**A006**  
 MECHANICAL  
 NARRATIVE