

HVAC LEGEND AND SYMBOLS			
A.F.F.	ABOVE FINISHED FLOOR		VALVE ACTUATORS: MANUAL, NON-RISING STEM
AMB.	AMBIENT		ELECTRIC MOTOR
B.F.C.	BELOW FINISHED CEILING		ELECTRIC SOLENOID
CFM	CUBIC FEET PER MINUTE		CAP
EA	EXHAUST AIR		ELBOW, FACING TOWARD VIEWER
E.A.D.B.	ENTERING AIR DRY BULB TEMPERATURE		ELBOW, FACING AWAY FROM VIEWER
E.A.W.B.	ENTERING AIR WET BULB TEMPERATURE		REDUCER, CONCENTRIC
E.S.P.	EXTERNAL STATIC PRESSURE		REDUCER, ECCENTRIC, FLAT ON BOTTOM
FD-2	2-HOUR FIRE DAMPER		REDUCER, ECCENTRIC, FLAT ON TOP
GPM	GALLONS PER MINUTE		TEE, FACING TOWARD VIEWER
MBH	THOUSAND BTU/HOUR		TEE, FACING AWAY FROM VIEWER
MODB	MEAN COINCIDENT DRY BULB TEMP.		UNION, SCREWED
MCWB	MEAN COINCIDENT WET BULB TEMP.		UNION, FLANGED
MUA	MAKE-UP AIR		STRAINER
N.C.	NORMALLY CLOSED		STRAINER, BLOW OFF
N.O.	NORMALLY OPEN		PET'S PLUG
N/A	NOT APPLICABLE		PRESSURE GAGE AND COCK
N.I.C.	NOT IN CONTRACT		THERMOMETER
N.T.S.	NOT TO SCALE		PUMP
OA	OUTSIDE AIR		DIRECTION OF FLOW
RA	RETURN AIR		RECTANGULAR DUCTWORK; DIMENSIONS SHOWN ARE NET INTERNAL DIMENSIONS
RH	RELATIVE HUMIDITY		ROUND DUCTWORK; DIMENSION SHOWN IS NET INTERNAL DIMENSION
SA	SUPPLY AIR		FLAT OVAL DUCTWORK; DIMENSION SHOWN IS NET INTERNAL DIMENSION
CHWS	CHILLED WATER SUPPLY		FLEXIBLE DUCTWORK (MAX. LENGTH = 4 FEET)
CHWR	CHILLED WATER RETURN		EXISTING DUCTWORK TO BE REMOVED
HWS	LOW-TEMPERATURE HOT WATER SUPPLY		EXISTING DUCTWORK TO REMAIN IN PLACE
HWR	LOW-TEMPERATURE HOT WATER RETURN		NEW DUCTWORK
H/C S	HOT/CHILLED WATER SUPPLY		
H/C R	HOT/CHILLED WATER RETURN		
CWS	CONDENSER WATER SUPPLY		
CWR	CONDENSER WATER RETURN		
HPWS	HEAT PUMP WATER SUPPLY		
HPWR	HEAT PUMP WATER RETURN		
RL	REFRIGERANT LIQUID		
RS	REFRIGERANT SUCTON		
CD	CONDENSATE DRAIN ABOVE FLOOR/GRADE		
CD	CONDENSATE DRAIN BELOW FLOOR/GRADE		
	BALL VALVE		
	BUTTERFLY VALVE		
	CHECK VALVE		
	GATE OR GLOBE VALVE		
	THREE-WAY VALVE		

NOTE: NOT ALL SYMBOLS SHOWN IN LEGEND MAY BE ON THE DRAWINGS.

MECHANICAL SPECIFICATIONS:

INTENT: IT IS THE INTENT OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR FURNISH AND INSTALL ALL MATERIALS AND SYSTEMS, WITH NECESSARY AND INCIDENTAL APPURTANCES, FOR A COMPLETE, FUNCTIONAL INSTALLATION, READY AND SUITABLE FOR THE OWNER'S USE.

CODES: WORK UNDER THIS CONTRACT SHALL BE GOVERNED BY ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES. THE INTERNATIONAL MECHANICAL ENERGY CONSERVATION, AND PLUMBING CODES SHALL FORM THE BASIS FOR MINIMUM CONSTRUCTION STANDARDS FOR THIS PROJECT.

FEES, PERMITS, AND TAXES: CONTRACTOR SHALL MAKE ARRANGEMENTS FOR INSPECTIONS AND PAY ALL LAWFUL FEES AND PERMITS REQUIRED BY LOCAL AUTHORITIES. CONTRACTOR SHALL PAY TAXES LEVIED FOR LABOR AND MATERIALS ASSOCIATED WITH WORK ON THIS PROJECT.

INSPECTION OF SITE: THE DRAWINGS ARE PREPARED FROM THE BEST INFORMATION AVAILABLE AND REFLECT THE CONDITIONS COMMENSURATE WITH THIS INFORMATION. HOWEVER, THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A PROPOSAL AND SHALL VERIFY THE LOCATIONS, SIZES, DEPTH, PRESSURE, ETC., OF ALL EXISTING UTILITIES; AND FAMILIARIZE HIMSELF WITH WORKING CONDITIONS, HAZARDS, EXISTING GRADES, SOIL CONDITIONS, OBSTRUCTIONS, ETC. IF IT BECOMES EVIDENT THAT EXISTING SITE CONDITIONS WILL IMPAIR THE PROPER OPERATION OF THE UTILITIES, OR THE CONSTRUCTION PROCESS, THE ARCHITECT SHALL BE NOTIFIED IN WRITING. ALL PROPOSALS AND BIDS SHALL TAKE THESE EXISTING CONDITIONS AND ANY REVISIONS REQUIRED INTO ACCOUNT, AND THE LACK OF SPECIFIC SITE INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY.

DATA AND SHOP DRAWINGS: PRIOR TO ORDERING, SUBMIT CERTIFIED PRINTS AND/OR DESCRIPTIVE DATA FOR MAJOR PIECES OF EQUIPMENT, FIXTURES, VALVES, INSULATION, CONTROLS, ETC. STAMP, SIGN, AND CERTIFY TO BE CORRECT AND IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. EACH DRAWING SUBMITTED FOR REVIEW. DRAWINGS SUBMITTED WITHOUT SIGNED CERTIFICATION WILL BE RETURNED WITHOUT REVIEW. ANY DEVIATION IN SUBMITTAL FROM CONTRACT DOCUMENTS OF MATERIALS, CAPACITIES, SPACE REQUIREMENTS IN ITEMS FURNISHED, ETC., SHALL BE LISTED IN A LETTER ACCOMPANYING SUBMITTAL STATING DEVIATION AND REASON REQUESTED FOR CONSIDERATION OF ACCEPTANCE. SUBMITTALS SHALL INCLUDE ONE PAPER COPY (IF REQUESTED) AND ONE ELECTRONIC COPY, CLEARLY MARKED, AND IN ORDER AS INDICATED IN DRAWINGS. ITEMS SUBMITTED PARTIALLY AND IN AN UNORGANIZED MANNER SHALL BE RETURNED WITHOUT REVIEW. SUBMITTAL SHALL SHOW: MANUFACTURER'S CATALOG NUMBER, PERFORMANCE DATA WITH INDICATED OPERATING POINTS, FINISHES, OPTIONAL FEATURES AND MODIFICATIONS. EACH SHEET OF PRINTED SUBMITTAL DATA SHALL BE CLEARLY MARKED (USING ARROWS, UNDERLINING, CIRCULING, OR HIGHLIGHTING) TO SHOW THE PARTICULAR SIZE, TYPE, MODEL NUMBER, RATINGS AND OPTIONS ACTUALLY PROPOSED. WHEN WORK IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION IS SPECIFIED, A COPY OF THESE RECOMMENDATIONS SHALL BE KEPT IN THE JOB OFFICE. SHOP DRAWINGS SHALL SHOW SIZES AND DETAILS OF REQUIRED CONCRETE AND STEEL MACHINE FOUNDATION, LOCATION OF ANCHOR BOLTS, PHYSICAL DIMENSION OF EQUIPMENT, EQUIPMENT WEIGHT OR OTHER PERTINENT DATA REQUIRED FOR EQUIPMENT SUPPORT OR INSTALLATION. APPROVED SHOP DRAWINGS DO NOT MEAN THAT DRAWINGS HAVE BEEN CHECKED IN DETAIL; SAID APPROVAL DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY OR NECESSITY OF FURNISHING MATERIAL OR PERFORMING WORK AS REQUIRED BY THE CONTRACT DRAWINGS OR SPECIFICATIONS.

GUARANTEE: WORK AND MATERIALS TO BE GUARANTEED FOR ONE (1) YEAR AFTER PROJECT COMPLETION. HVAC REFRIGERATION SYSTEM COMPONENTS SHALL HAVE AN ADDITIONAL 4-YEAR WARRANTY. EACH PIECE OF EQUIPMENT SHALL MEET PERFORMANCE SPECIFICATIONS AFTER ONE (1) YEAR'S ACTUAL OPERATION. THE CONTRACTOR SHALL REPAIR, OR MAKE GOOD, ANY DEFECT DUE TO FAULTY WORKMANSHIP OR MATERIAL, WHICH SHALL DEVELOP WITHIN ONE (1) YEAR FROM DATE OF ACCEPTANCE AT NO COST TO THE OWNER. THIS GUARANTEE SHALL COVER BOTH MATERIAL AND LABOR AND SHALL INCLUDE: (A) REFRIGERANT AND OIL REPLACEMENT, (B) ANY ADJUSTMENTS OR SERVICE REQUIRED, AND (C) ANY NECESSARY ADJUSTMENTS IN SYSTEM CONTROL SET POINTS WHEN REQUIRED, BUT NO FILTER MAINTENANCE. THE CONTRACTOR IS RESPONSIBLE TO REPLACE WORK FOUND NOT IN COMPLIANCE WITH THE CONTRACT AT ANY TIME DURING THE LIFE OF THE INSTALLATION. REPLACEMENT OF NON-COMFORMING WORK IS NOT SUBJECT TO THE ONE-YEAR WARRANTY LIMITATION.

WHERE THE WORK OF VARIOUS TRADES WILL BE INSTALLED IN CLOSE PROXIMITY TO ONE ANOTHER, OR WHERE THERE IS EVIDENCE THAT THE WORK OF ONE TRADE WILL INTERFERE WITH WORK OR REQUIRED ACCESS/CLEARANCE SPACE OF OTHER TRADES, COORDINATE ADJUSTMENTS PRIOR TO INSTALLATION TO PROVIDE SATISFACTORY CLEARANCE. FOR ANY WORK INSTALLED WITHOUT COORDINATION AND/OR CAUSING CONFLICTS, PROVIDE ALL NECESSARY CHANGES TO CORRECT THE CONDITIONS. THE CONSTRUCTION WORK SHALL BE PERFORMED IN A MANNER ACCEPTABLE TO ARCHITECT AND ENGINEER AND SHALL BEAR NO ADDITIONAL COSTS.

LOCATE ALL EQUIPMENT REQUIRING SERVICING, OPERATIONAL, OR MAINTENANCE CLEARANCES IN A FULLY ACCESSIBLE POSITION. EQUIPMENT REQUIRING THESE CLEARANCES SHALL INCLUDE, BUT NOT BE LIMITED TO: DAMPERS, VALVES, TRAPS, CLEANOUTS, MOTORS, CONTROLLERS, DISCONNECTS, DRAIN

PANS, ETC. IF EQUIPMENT IS CONCEALED, PROVIDE ACCESS DOORS TO MAINTAIN ACCESSIBILITY. MINOR DEVIATIONS FROM THE CONTRACT DOCUMENTS MAY BE MADE TO ALLOW FOR BETTER ACCESSIBILITY. WHERE FIRE DAMPERS ARE REQUIRED, PROVIDE ACCESS PANELS TO ALLOW RE-LINKING OF DAMPER FUSIBLE LINKS. PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.

INSTALL ALL DUCTWORK AND HORIZONTAL PIPING AS HIGH AS POSSIBLE AND ABOVE THE FINISHED CEILING, UNLESS NOTED OTHERWISE. PROVIDE OFFSETS, AS REQUIRED, TO AVOID ALL OBSTRUCTIONS.

PIPING, CONDUITS, CABLES, ETC., SHALL BE RUN NEATLY, PARALLEL TO EXISTING AND NEW PIPING AND BUILDING WALLS AND FLOORS.

DO NOT SCALE DRAWINGS; USE GIVEN DIMENSIONS ONLY. IF NOT SHOWN, VERIFY AND DOCUMENT CORRECT DIMENSION WITH THE ARCHITECT OR ENGINEER. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE.

A TECHNICIAN, FACTORY TRAINED AND CERTIFIED BY THE MANUFACTURER OF THE HVAC EQUIPMENT PROVIDED, SHALL PERFORM PRE-START-UP CHECK AND SHALL SUBMIT A REPORT TO THE OWNER ON EACH SPLIT SYSTEM. THIS REPORT SHALL INCLUDE CERTIFICATION, IN WRITING, THAT THE EQUIPMENT IS CORRECTLY INSTALLED (INCLUDING PROPER DRAINAGE FROM DRAIN PANS AND SEALING OF AIR LEAKS); ELECTRICAL CONNECTIONS AND TERMINAL TIGHTNESS; INDOOR FILTERS ARE CLEAN, IN PLACE, AND EASILY REPLACEABLE; FANS AND COMPRESSORS ROTATE CORRECTLY; ELECTRICAL AMP LOADS SHALL BE RECORDED AND CERTIFIED WITHIN MANUFACTURER'S RECOMMENDED LIMITS; REFRIGERANT SUCTION AND DISCHARGE PRESSURES FOR ALL CIRCUITS WITH STATEMENT THAT SYSTEMS ARE CORRECTLY CHARGED.

ALL DUCTWORK DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.

DUCTWORK: RIGID – GALVANIZED SHEET METAL PER SMACNA. USE ROUND DUCTWORK WHERE CLEARANCES PERMIT. SEAL ALL SUPPLY AIR DUCTWORK JOINTS TO SMACNA CLASS "A" OR TO DUCT SEAL SCHEDULE IF PRESENT ON DRAWINGS; DUCT LEAKAGE SHALL NOT EXCEED 1 PERCENT OF THE SPECIFIED AIRFLOWS WHEN TESTED AT 1" W.G. ROUND DUCTWORK SHOWN EXPOSED IN THE LOBBY SHALL BE DOUBLE WALL SPIRAL LOCKSEAM DUCTWORK AS MANUFACTURED BY UNITED MCGILL OR APPROVED EQUAL. DUCTWORK TO BE CONSTRUCTED FROM PAINT GRIP STEEL.

DUCTWORK: FLEXIBLE – UL LISTED, CLASSIFIED AS A CLASS 1 AIR DUCT, TESTED UNDER UL STANDARD 181, AND MEET LOCAL CODE REQUIREMENTS. FLEXIBLE SUPPLY DUCTS SHALL HAVE FACTORY INSTALLED FIBERGLASS INSULATION AND A FIRE RETARDANT VAPOR BARRIER JACKET WITH A PERM RATING OF NOT OVER 0.1, A "C" FACTOR OF NOT OVER 0.23 (OR A "U" FACTOR OF NOT OVER 0.22 WITH 1000 FPM VELOCITY IN THE DUCT), AND WHICH COMPLY WITH NFPA-90A. CONNECT FLEXIBLE DUCTS TO DIFFUSERS AND RIGID DUCT USING STAINLESS STEEL CLAMPS, FLEXMASTER QUICK RELEASE-LS SERIES OR EQUAL. FLEXIBLE DUCT SHALL BE CUT TO EXACT LENGTH REQUIRED. FLEXIBLE DUCTWORK SHALL BE SUPPORTED IN ACCORDANCE WITH FIGURES 3-10 AND 3-11 IN THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE (3RD EDITION). FLEXIBLE DUCTWORK RUNNING THROUGH JOIST WEBBING SHALL NOT BE CRUSHED OR DEFORMED OUT OF ROUND.

DUCTWORK: DRYER EXHAUST VENT – DRYER EXHAUST DUCT SHALL BE CONSTRUCTED OF 4" SNAP-LOCK GALVANIZED DUCT, MINIMUM 0.016 INCH THICK. SUPPORT DUCT AT 4 FOOT INTERVALS AND SECURE IN PLACE. THE INSERT END OF THE DUCT SHALL EXTEND INTO THE ADJOINING DUCT SECTION OR FITTING IN THE DIRECTION OF AIRFLOW. DUCTS SHALL NOT BE JOINED WITH SCREWS OF SIMILAR FASTENERS THAT PROTRUDE INTO THE INSIDE OF THE DUCT. ALL ELBOWS USED SHALL BE SMOOTH RADIUS ELBOWS ONLY. THE MAXIMUM LENGTH OF THE EXHAUST DUCT (WITHOUT DRYER EXHAUST FAN) SHALL BE DETERMINED BY THE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS, OR 35 FEET MAXIMUM IF NO INSTALLATION INSTRUCTIONS ARE PRESENT. WHERE THE EXHAUST DUCT IS CONCEALED WITHIN THE BUILDING CONSTRUCTION, THE EQUIVALENT LENGTH OF THE EXHAUST DUCT SHALL BE IDENTIFIED ON A PERMANENT LABEL OR TAG, LOCATED WITHIN 6 FEET OF THE EXHAUST DUCT CONNECTION.

AIR DISTRIBUTION DEVICES: AS SCHEDULED ON DRAWINGS.

REFRIGERANT PIPING: HARD-DRAWN TYPE "K" SEAMLESS COPPER TUBING, ASTM B88-74. FITTINGS SHALL BE WROUGHT COPPER, ANSI B16-22-63, WITH A WORKING PRESSURE OF NOT LESS THAN 300 PSIG. REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED WITH THE EQUIPMENT MANUFACTURER'S WRITTEN RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION FROM THE EQUIPMENT MANUFACTURER AS TO THE CORRECTNESS OF THE LINE SIZES PRIOR TO INSTALLATION.

CONDENSATE DRAIN PIPING: SCHEDULE 40 PVC WITH DWV FITTINGS, EXCEPT IN RETURN AIR PLENUMS, WHERE TYPE "L" COPPER SHALL BE USED. PIPING SHALL BE INSTALLED WITHOUT ANY SAGGING TO ENSURE COMPLETE DRAINAGE. THE CONDENSATE DRAIN SHALL BE THE SAME SIZE AS THE UNIT DRAIN CONNECTION BUT SHALL NOT BE LESS THAN 3/4" DIAMETER PIPE. ALL CONDENSATE DRAIN PIPING SHALL SLOPE DOWN 1/8" IN 12" MINIMUM IN DIRECTION OF FLOW.

INSULATION: DUCTWORK; SUPPLY, RETURN, OUTSIDE AIR, OR MAKE-UP AIR (CONCEALED) – 2" THICK, 1 PCF DENSITY FIBERGLASS BLANKET WITH FIRE RATED VAPOR BARRIER (INSTALLED R-VALUE SHALL BE 5.0 MINIMUM). OVERLAP BUTTING EDGES, FOLD, SEAL AND TAPE, AND PROVIDE A CONTINUOUS VAPOR BARRIER. USE OF STAPLES SHALL NOT BE PERMITTED. RETURN AIR DUCT INSIDE THE CONDITIONED SPACE NEED NOT BE EXTERNALLY INSULATED. ALL SHEET METAL SURFACES, INCLUDING THE TOPS OF SUPPLY AIR DIFFUSERS EXPOSED ABOVE THE CEILING, SHALL BE INSULATED.

INSULATION: ALL DUCTWORK EXPOSED TO EXTERIOR CONDITIONS OR IN MECHANICAL ROOM OR ATTICS – 2" THICK DUCTBOARD INSULATION HAVING A DENSITY OF 6 PCF MINIMUM. A THERMAL CONDUCTIVITY OF NO GREATER THAN 0.23 BTU-IN/HR-FT²-F AT 75° F AND A MINIMUM INSTALLED R-VALUE OF 8.7. SEAL ALL INSULATION SEAMS AND BUTTING EDGES VAPOR TIGHT TO ENSURE A CONTINUOUS VAPOR BARRIER. SLOPE INSULATION ON TOP OF DUCTWORK FROM A HIGH POINT ON THE CENTERLINE OF THE DUCT TO THE SIDES, WITH A MINIMUM THICKNESS OF 2" AT THE SIDES, TO ENSURE NO WATER BUILDS UP ON TOP OF DUCT. INSTALL AN ALUMINUM JACKET OR VENTURECLAD PVC JACKET ON THE OUTSIDE OF THE INSULATION.

INSULATION: DUCTWORK; SUPPLY, RETURN, OUTSIDE AIR, OR MAKE-UP AIR (EXPOSED) – AS FOR CONCEALED DUCT INSULATION, WITH AN ALUMINUM JACKET OR VENTURECLAD PVC JACKET ON THE OUTSIDE OF THE INSULATION. EXPOSED ROUND DOUBLE WALL SPIRAL LOCKSEAM DUCTWORK SHALL BE INSULATED WITH 2" THICK FIBERGLASS INSULATION HAVING A THERMAL CONDUCTANCE VALUE OF NO GREATER THAN 0.13 BTU-IN/HR-FT²-F WITH A SOLID INNER DUCT LINER.

INSULATION: DUCTWORK; EXHAUST – NO INSULATION IS REQUIRED.

INSULATION: REFRIGERANT PIPING (EXTERIOR AND INTERIOR OF BUILDING) AND CONDENSATE DRAIN PIPING (INTERIOR OF BUILDING) – 1" THICK CLOSED CELL ELASTOMERIC FOAM INSULATION, ARMAFLEX 4P OR EQUAL, WITH MANUFACTURER'S RECOMMENDED ADHESIVE AT ALL JOINTS. INSULATION EXPOSED TO EXTERIOR CONDITIONS SHALL BE COVERED IN A FLEXIBLE PVC JACKET AND SEALED WEATHERPROOF.

HVAC EQUIPMENT: AS SCHEDULED ON DRAWINGS.

MOUNT TEMPERATURE SENSORS, REMOTE CONTROL PANELS, ETC., AS INDICATED ON PLANS 48" A.F.F. TO CENTER OF DEVICE UNLESS OTHERWISE NOTED OR AS REQUIRED FOR ACCESSIBILITY CODE COMPLIANCE. COORDINATE LOCATION OF SENSORS WITH CABINETS AND OTHER SERVICES. THE TEMPERATURE SENSORS SHALL NOT BE INSTALLED ON OUTSIDE WALLS, IN THE DIRECT AIR STREAM FROM ANY DIFFUSER, OR WHERE IT MAY BE INFLUENCED BY HEAT GIVEN OFF FROM EQUIPMENT.

ADJUSTING AND BALANCING: ALL EQUIPMENT AND SYSTEMS SHALL BE ADJUSTED AND BALANCED SO THAT THEY PERFORM TO THE SATISFACTION OF THE ARCHITECT. AIR DISTRIBUTION SYSTEM(S) SHALL BE ADJUSTED TO THE AIR QUANTITIES INDICATED AND TO ELIMINATE ANY TEMPERATURE GRADIENTS BETWEEN ROOMS OR WITHIN ROOMS GREATER THAN 3° F. CONTRACTOR SHALL ENGAGE THE SERVICES OF A TEST AND BALANCE AGENCY TO PERFORM THE ADJUSTING AND BALANCING OF THE MECHANICAL SYSTEM(S). ALL ADJUSTING AND BALANCING WORK SHALL BE PERFORMED BY THE PROCEDURAL STANDARDS AS SET FORTH BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB), THE ASSOCIATED AIR BALANCE COUNCIL (AABC), OR THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA). THE CONTRACTOR SHALL SUBMIT TAB REPORTS TO THE ENGINEER FOR REVIEW. ALL TAB REPORTS SHALL BE SUBMITTED ON FORMS AS SET FORTH BY THE ORGANIZATIONS LISTED ABOVE.

SEAL ALL DUCTWORK PER THE DUCT SEALANT SCHEDULE.

ALL SAFETY DEVICES SHALL BE CHECKED FOR PROPER OPERATION.

PRIOR TO COMPLETION AND FINAL ACCEPTANCE OF THE FACILITY, FURNISH TO THE ENGINEER CERTIFICATION THAT THE MECHANICAL SYSTEMS HAVE BEEN TESTED AND THAT THE INSTALLATION AND PERFORMANCE OF THOSE SYSTEMS CONFORM TO THE CONTRACT DOCUMENTS.

RECORD AND AS-BUILT DRAWINGS: MAINTAIN AT THE JOB SITE A SET OF CONTRACT RECORD DRAWINGS KEPT CURRENT BY INDICATING THEREON ALL CHANGES, SUBSTITUTIONS, ETC., BETWEEN WORK AS SPECIFIED AND AS INSTALLED. FURNISH THE ENGINEER WITH ONE (1) COMPLETE SET OF ELECTRONIC DRAWING FILES SHOWING INSTALLED LOCATION, SIZE, ETC., OF ALL WORK AND MATERIAL IN .PDF AND .DWG FORMAT. SHOW ON RECORD DRAWINGS ACTUAL AIR QUANTITIES, WATER FLOW RATES, VALVE AND/OR DAMPER POSITIONS AFTER BALANCING, ETC., ALSO SHOW, BY ACTUAL DIMENSION, LOCATION OF ALL UNDERGROUND WORK. FOR EACH PIECE OF EQUIPMENT, PROVIDE THE OWNER THREE (3) SETS OF: (A) MANUFACTURER'S PRINTED CATALOG PAGES, OPERATING AND MAINTENANCE INSTRUCTIONS, WIRING AND CONNECTION DIAGRAM, ETC.; (B) TEMPERATURE-HUMIDITY AND MOTOR INTERLOCK CONTROL AND WIRING DIAGRAMS SHOWING OPERATION INSTRUCTIONS FOR, AND NORMAL POSITION OF, EACH MOTOR AND CONTROLLER, CONTROL VALVE, THERMOSTAT, ETC.; AND (C) LUBRICATION CHART. BIND THIS INFORMATION INTO 8-1/2"x 11" BOOKLETS. ALL THREE (3) SETS SHALL BE ASSEMBLED IN HARDBACK BINDERS.

C&A No. 21-092



PICKENS COUNTY
AIRPORT TERMINAL
193 PICKENS AIRPORT RD
JASPER, GA 30143

JOB NO. 2219
DATE 5 AUG 22
DRAWN BY GSJ
REVISIONS

DRAWING TITLE

HVAC LEGEND
AND NOTES

SHEET NO.

M0.1