HVAC LEGEND & ABBREVIATIONS

SYMBOL	DESCRIPTION
00x00	RECTANGULAR AIR DUCT – FIRST DIMENSION IS SIDE SHOWN
	ROUND DUCT (A"ø)
	LINED DUCTWORK, DIMENSIONS ARE OUTER METAL TO OUTER METAL
	AIR DUCT FLEXIBLE CONNECTOR
OR	SUPPLY OR OUTSIDE AIR RECTANGULAR DUCT RISE OR DROP
OR	RETURN AIR RECTANGULAR DUCT RISE OR DROP
OR	EXHAUST AIR RECTANGULAR DUCT RISE OR DROP
	45° BRANCH TAKE-OFF WITH SPLITTER DAMPER AND CONTROL ROD
M.O.	SINGLE BLADE DAMPER
	DOUBLE ELBOW WITH SPLITTER DAMPER WITH CONTROL ROD
FD	FIRE DAMPER
SDM	SMOKE DAMPER
F/SDM	COMBINATION FIRE/SMOKE DAMPER
MOD	MOTOR OPERATED DAMPER SAME SIZE AS DUCT UNLESS OTHERWISE NOTED
	DUCT-MOUNTED STATIC PRESSURE SENSOR
MD	MANUAL VOLUME DAMPER
RBD	REMOTE BALANCING DAMPER
SDT	SMOKE DETECTOR
AFS	AIR FLOW STATION
	IONIZATION UNIT
	SQUARE ELBOW WITH TURNING VANES
	DUCT TRANSITION, RECTANGULAR TO ROUND OR OVAL
	DUCT TRANSITION, RECTANGULAR TO RECTANGULAR
	FLEX DUCT AT DIFFUSER
OR	ECCENTRIC REDUCER FLAT SIDE ON BOTTOM OR FLAT SIDE ON TOP
	CONCENTRIC REDUCER
	PIPE RISE
	PIPE DROP
	CAP ON END OF LINE
	ISOLATION BALL VALVE
	PIPE FLOW ARROW
	BUTTERFLY VALVE
	TWO WAY MODULATING MOTORIZED CONTROL VALVE
	STRAINER
	THERMOMETER
	PRESSURE GAUGE
	DRIP LEG

HVAC LEGEND & ABBREVIATIONS

SYMBOL	DESCRIPTION
UP OR DN	GRADE ARROW-INDICATES RISE OR DROP IN DUCT OR PIPE
TWR	TEMPERED WATER RETURN
TWS	TEMPERED WATER SUPPLY
CWR	COOLING TOWER WATER RETURN
CWS	COOLING TOWER WATER SUPPLY
D	CONDENSATE DRAIN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
E	EMERGENCY FAN SHUTDOWN SWITCH
B	EMERGENCY BOILER SHUTDOWN SWITCH
H	BAS HUMIDITY SENSOR
C	BAS CARBON DIOXIDE SENSOR
T	BAS TEMPERATURE SENSOR
T	THERMOSTAT
P	SPACE STATIC PRESSURE SENSOR (WALL-MOUNTED)
	SPACE STATIC PRESSURE SENSOR (MOUNTED ABOVE CEILING)
M	CARBON MONOXIDE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
CFM	CUBIC FEET PER MINUTE
BAS	BUILDING AUTOMATION SYSTEM
DOAS	DEDICATED OUTSIDE AIR SYSTEM
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
EWT	ENTERING WATER TEMPERATURE
G.V.	GRAVITY VENTILATOR
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
OB	OPPOSED BLADE
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
	DUCTWORK TO BE REMOVED
	PIPING OR EQUIPMENT TO BE REMOVED
	EXTENT OF DEMO / CONNECT TO EXISTING

GENERAL NOTES (APPLICABLE TO ALL HVAC SHEETS)

1. PROVIDE INSULATED FLEXIBLE DUCT TO DIFFUSER SAME SIZE AS DIFFUSER NECK SIZE WITH SINGLE BLADE DAMPER AND STAND-OFF BRACKET AT DIFFUSER TAKE-OFF.
2. RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK, UNLESS OTHERWISE NOTED.
3. ROUTE DUCTWORK AS TIGHT TO STRUCTURE AS POSSIBLE, UNLESS OTHERWISE NOTED.
4. MAXIMUM FLEXIBLE DUCT RUNOUT TO BE SEVEN FEET. USE GALVANIZED STEEL DUCT FOR INDIVIDUAL RUNOUTS OVER SEVEN FEET.
5. BALANCE AIR DISTRIBUTION SYSTEMS AS NOTED.
6. UNLESS OTHERWISE NOTED, WALL MOUNTED THERMOSTATS AND SENSORS SHALL BE MOUNTED AT 4'-0" AFF.
7. COORDINATE ALL LAY-IN CEILING DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
8. PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE.
9. CONTRACTOR SHALL PAINT ALL DUCTWORK VISIBLE THROUGH SUPPLY AND RETURN AIR OPENINGS AND GRILLES FLAT BLACK.
10. FLEXIBLE DUCT SHALL NOT BE INSTALLED ABOVE INACCESSIBLE CEILINGS.
11. FLEXIBLE DUCT SHALL NOT BE INSTALLED IN EITHER RETURN OR EXHAUST AIR SYSTEMS.
12. ALL HVAC CONDENSATE PIPING SHALL BE 1" UNLESS OTHERWISE NOTED.
13. ALL SUPPLY AIR DIFFUSERS SHALL BE TYPE S-1 UNLESS OTHERWISE NOTED.
14. ALL RETURN AIR GRILLES SHALL BE TYPE R-1 UNLESS OTHERWISE NOTED.
14 EQUIPMENT ABOVE CEILINGS SHALL BE LOCATED WITH BOTTOM OF THE UNIT ACCESSIBLE FROM CEILING LEVEL; NOT TO EXCEED 24" ABOVE CEILING.
15. DUCT SIZES SHOWN ON DRAWINGS PROVIDE THE MINIMUM CROSS-SECTIONAL AREA REQUIRED. INCREASE OVERALL DUCT DIMENSIONS AS NECESSARY TO ACCOMMODATE DUCT LINER THICKNESS.

FOR PRICING

JSA CONSULTING ENGINEERS
Johnson, Spellman & Associates, Inc.

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BRITT ELEMENTARY SCHOOL
2503 SKYLAND DRIVE SW
SNELLVILLE, GEORGIA 30078
Facility Code
3050

FOREMAN | SEELEY | FOUNTAIN
architecture
3091 Governors Lake Drive, Suite 150, Peachtree Corners, Georgia 30071
(770) 729-8433 www.FSFarchitecture.com fax (770) 729-8466

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