

DRAWING LEGEND			
SYMBOL	DEFINITION	SYMBOL	DEFINITION
	SUPPLY DIFFUSER		RETURN GRILLE
	AIR DEVICE DESIGNATOR		THERMOSTAT
	SIDEWALL GRILLE (REINFORCED A.I.F. HEIGHT IS TO BOTTOM OF GRILLE FACE)		DUCTWORK OFFSETS
	HUMIDISTAT		CARBON DIOXIDE SENSOR
	SPIN-IN WITH VOLUME DAMPER		MANUAL VOLUME DAMPER
	ROOFTOP UNIT		FIRE DAMPER
	DUCTLESS SPLIT FAN COIL		VARIABLE REFRIGERANT UNIT
	DUCTLESS SPLIT HEAT PUMP		SUPPLY/RETURN FAN
	ELECTRIC HEATER		VARIABLE FREQUENCY DRIVE
	UNLESS NOTED OTHERWISE		ABOVE FINISHED FLOOR

SAFETY NOTES:
 REFER TO ARCHITECTURAL DOCUMENTS FOR WALL RATINGS. PROVIDE FIRE AND/OR FIRE/SMOKE DAMPER WHERE REQUIRED. REFER TO SPECIFICATIONS FOR LIFE SAFETY DAMPER REQUIREMENTS.

CONTROL NOTES:
 • EXISTING BUILDING AUTOMATION SYSTEM (BAS) SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. NEW AND RENOVATED PORTIONS OF BUILDING SHALL BE TIED INTO EXISTING BAS.
 • EACH ITEM OF MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH WALL MOUNTED CONTROLLER. REFER TO SPECIFICATIONS.
 • PROVIDE CONTROL POINTS FOR ALL ELECTRICAL LIGHTING CONTROL PANELS. REFER TO ELECTRICAL DRAWINGS.
 • PROVIDE CONTROL POINTS FOR ALL TRAP PRIMER UNITS AND CIRCULATING PUMPS. REFER TO PLUMBING DRAWINGS.

CONDENSATE DRAIN PIPING SIZING CHART	
NO. OF UNITS SERVED	MINIMUM PIPE SIZE
1	1"
2	1"
3	1-1/4"
4	1-1/2"
5 OR MORE	2"

NOTES:
 1. SINGLE UNIT SIZE SHALL NOT BE LESS THAN UNIT CONNECTION SIZE.
 2. COORDINATE ACTUAL DRAIN LOCATIONS WITH PLUMBING TRADE.

- GENERAL NOTES:**
- ALL DUCT PENETRATIONS THROUGH WALLS SHALL BE SEALED. THE INTERSTITIAL SPACE BETWEEN THE DUCT AND WALL SHALL BE SEALED WITH CALK. WHEN FIRE, SMOKE, OR FIRE-SMOKE DAMPERS ARE USED, REFER TO THE MANUFACTURER'S REQUIREMENTS FOR SEALING.
 - EXISTING UNITS UTILIZE THE CEILING SPACE FOR A RETURN PLENUM AND ALL EXPOSED MATERIALS SHALL BE NON-COMBUSTIBLE OR A MAXIMUM FLAME SPREAD INDEX OF 25 AND A MAXIMUM SMOKE DEVELOPMENT INDEX OF 50.
 - ALL FIRE DAMPERS AND FIRE-SMOKE DAMPERS SHALL HAVE A MINIMUM FIRE RESISTANCE RATING OF 1-1/2 HOURS U.N.O.
 - ALL MECHANICAL EQUIPMENT SHALL BE CONTROLLED BY A COMPUTORIZED ENERGY MANAGEMENT SYSTEM.
 - ALL ROOF MOUNTED EQUIPMENT SHALL BE LOCATED A MINIMUM OF 10' FROM EDGE OF ROOF OR PROVIDED WITH A RAIL OF APPROPRIATE HEIGHT.
 - TRANSITION FROM SHOWN DUCT SIZE TO WALL GRILLE NECK SIZE.
 - MECHANICAL CONTRACTOR SHALL COORDINATE AND PROVIDE ACCESS PANELS TO THE GENERAL CONTRACTOR TO INSTALL AS REQUIRED IN SPECIFICATION.
 - THE BID DOCUMENTS ARE DESIGNED BASED ON THE BASIS OF DESIGN. IF A LISTED "EQUAL" IS USED IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO MAKE ANY REVISIONS AND MODIFICATIONS REQUIRED TO ACCOMMODATE THE "EQUAL" MANUFACTURER AT NO ADDITIONAL COST TO THE OWNER.
 - MINIMUM 10' SEPARATION BETWEEN O.A. INTAKES AND EXHAUST OR PLUMBING VENTS.
 - COORDINATE THE EXACT LOCATION OF WALL MOUNTED SWITCHES AND SENSORS WITH DIVISION 26. EXISTING WALL MOUNTED SENSORS SHALL BE MAINTAINED AND REUSED UNO.
 - PROVIDE & INSTALL STEPDOWN TRANSFORMERS AS REQUIRED WHEN 120V IS PROVIDED FOR A 24V DEVICE.
 - ALL SUPPLY AND EXHAUST BRANCH DUCTS SHALL BE PROVIDED WITH VOLUME DAMPERS - ROUND AND RECTANGULAR DAMPERS SHALL BE PROVIDED WITH CONTINUOUS SQUARE SHAFT, END BEARINGS, 2" STANDOFF BRACKET AND LOCKING QUADRANTS.
 - WHERE DUCT MOUNTED SMOKE DETECTOR ARE REQUIRED FOR HVAC EQUIPMENT SHUT DOWN, THE DUCT MOUNTED SMOKE DETECTOR SHALL BE INSTALLED IN THE SUPPLY DUCT OF UNIT SERVED PRIOR TO ANY BRANCH DUCTS.
 - VOLUME DAMPERS SHALL ACCESSIBLE VIA A STEP LADDER AND REACHING ABOVE THE CEILING.
 - BRANCH DUCTWORK SHALL BE THE SAME SIZE AS THE AIR DISTRIBUTION DEVICE SERVED UNO.
 - HVAC SYSTEM COMPONENT LOCATIONS ARE DIAGNOSTIC IN NATURE. COORDINATE EQUIPMENT LOCATIONS WITH DUCTWORK, PIPING, CONDUIT, CABLING, & STRUCTURAL MEMBERS TO ENSURE THAT ALL MANUFACTURER'S RECOMMENDED CLEARANCES ARE MAINTAINED. COORDINATE ROOF MOUNTED EQUIPMENT LOCATIONS WITH STRUCTURAL MEMBERS TO AVOID DUCTWORK THROUGH STRUCTURE CONNECTIONS. CONTRACTOR SHALL COORDINATE EQUIPMENT VOLTAGES WITH THE ELECTRICAL CONTRACTOR AND ELECTRICAL TRADE PRIOR TO ORDERING.
 - ALL PENETRATIONS THROUGH A SMOKE PARTITION SHALL BE FIRE CALKED AROUND THE PENETRATION. SMOKE TIGHTNESS SHALL BE ARCHITECTURAL LIFE SAFETY PLANS FOR WALL RATINGS.
 - ROUTE CONDENSATE DRAIN PIPING TO NEAREST DRAIN. DRAIN LINE SHALL BE INSULATED COPPER PIPING AT UNIFORM MIN 1/8" SLOPE. ALL CONDENSATE DRAINS SHALL BE ROUTED AS CLOSE TO THE WALL AS POSSIBLE. SEE PLUMBING DRAWINGS FOR LOCATION OF DRAINS.
 - WHERE MULTIPLE SPACES ARE SERVED BY A SINGLE UNIT ALL EXHAUST AND RETURN AIR PATHS SHALL BE PROVIDED WITH A MANUAL BALANCING DAMPER. WHERE BALANCING DAMPER IS NOT SHOWN ON PLAN, THE EXHAUST RETURN DAMPER SHALL BE PROVIDED WITH AN O.B.D. ROUND AND RECTANGULAR DAMPERS SHALL BE PROVIDED WITH CONTINUOUS SQUARE SHAFT, END BEARINGS, 2" STANDOFF BRACKET AND LOCKING QUADRANTS.
 - RETURN GRILLES OPENING TO A RETURN AIR DUCT PLUMB SHALL BE PROVIDED WITH A SOUND BOOT. SEE DETAIL.
 - ALL ENERGY RECOVERY UNITS EXHAUST ROOF EXHAUST TAKEOFFS SHALL BE SPIN-IN CONNECTIONS TO THE MAIN WITH VOLUME DAMPER SIMILAR TO SUPPLY DUCT SPIN-INS BUT WITHOUT SPOOP.
 - WHERE MULTIPLE SENSORS (TEMP, HUMIDITY, AIR QUALITY) ARE INSTALLED IN ONE ROOM, SINGLE MULTIFUNCTION SENSOR SHALL BE PROVIDED BY THE BUILDING CONTROLS PROVIDER.
 - ALL EQUIPMENT SHALL BE LABELED PER SPECIFICATION REQUIREMENTS. EQUIPMENT LABELS SHALL INCLUDE UNIT NUMBER AND ROOM NAME AND NUMBER OF THE SPACE SERVED.
 - DIFFUSERS LOCATED ADJACENT TO TEMPERATURE SENSORS SHALL BE LOW FLOW TYPE PER DETAIL.
 - WHERE RETURN DUCTWORK STUBS ARE MECHANICALLY CONNECTED TO THE PERIMETER OF THE RETURN DUCT SHALL BE SEALED AT THE WALL PENETRATION.
 - ROUTE ROOF MOUNTED CONDENSATE DRAINS TO NEAREST ROOF DRAIN OR GUTTER. CONDENSATE DRAINS SHALL BE COPPER. REFER TO DETAIL.
 - ALL DUCTWORK PIPING SHALL BE CONCEALED, LOCATED ABOVE CEILING OR IN CHASE UNO.
 - ALL EXHAUST FANS, RELIEF VALVES AND PLUMBING VENTS SHALL BE A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKES.
 - CONTROL PANELS SHALL BE LOCATED IN ACCORDANCE WITH ELECTRICAL REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR.
 - WHERE DUCTWORK PIPING IS NOT CONCEALED ABOVE A CEILING, THEY SHALL BE PAINTED. COORDINATE COLOR WITH GENERAL CONTRACTOR AND ARCHITECT.
 - WHERE DAMPERS, VALVES, EQUIPMENT ARE LOCATED ABOVE A HARD CEILING, ACCESS PANELS SHALL BE PROVIDED AND INSTALLED. ACCESS PANELS SHALL BE A MINIMUM OF 18"x18" BUT SHALL BE LARGE ENOUGH TO PROVIDE ACCESS TO CONCEALED DEVICES. IF ACCESS PROVIDED IS NOT LARGE ENOUGH TO PROVIDE ACCESS TO CONCEALED DEVICE, THE ACCESS PANEL SHALL BE REPLACED WITH THE APPROPRIATE ACCESS PANEL. CONTRACTOR SHALL DEMONSTRATE ADEQUATE ACCESS HAS BEEN ACHIEVED TO THE OWNER.
 - MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK NOTED TO BE ROUTED IN THE JOIST BAY AND WEB WITH THE GENERAL CONTRACTOR FOR COORDINATION WITH THE STRUCTURAL FABRICATOR. THE GENERAL CONTRACTOR SHALL COORDINATE CROSS BRACING BETWEEN JOIST AND ROUTING OF DUCTWORK WITHIN JOIST.

1 OVERALL FLOOR PLAN-LEVEL 01
 1" = 20'-0"

PERKINS + WILL

1315 Peachtree St. NE
 Atlanta, GA 30309
 404.873.2300
 404.922.5523
 www.perkinswill.com

CONSULTANTS

ARCHITECT
 Bredove Land Planning
 15 Simpson St. NW, Atlanta, GA 30309

STRUCTURAL
 Utzun-Casas
 1220 Peachtree St. NE, Suite 2500, Atlanta, GA 30309

MEP
 Matheson Ball & Associates
 11285 Elkins Rd., Suite F3, Roswell, GA 30076

LANDSCAPING
 Perkins+Will

KITCHEN
 Camacho
 3103 Medlock Bridge Road, Norcross, GA 30071

KIPP Metro Atlanta Schools 1448
 Maynard Road, NW Atlanta, GA 30331

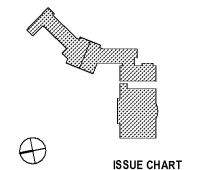
FACILITY
 CONTRACTOR



PROJECT

KIPP ATLANTA COLLEGIATE - Addition and Renovations

KEYPLAN



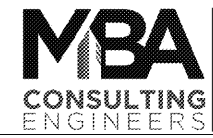
ISSUE CHART

DATE	ISSUE	DATE
	Job Number	
	Drawn	MSK
	Checked	GC
	Approved	GC
	TITLE	

OVERALL FLOOR PLAN - FIRST FLOOR

SHEET NUMBER

M10-01



MBA # 19002
 MATHESON BALL & ASSOCIATES, INC.
 11285 ELKINS RD., SUITE F3
 ROSWELL, GEORGIA 30076
 PHONE: (770) 761-0713
 WWW.MATHESONBALL.COM

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