

MECHANICAL SYMBOLS	
	RECTANGULAR DUCT X" WIDE BY Y" DIMENSION IS VIEW FACE
	ROUND DUCT
	SUPPLY DUCT IN SECTION
	RETURN OR EXHAUST DUCT IN SECTION
	VOLUME CONTROL DAMPER
	SUPPLY AIR DIFFUSER WITH ROUND SUPPLY DUCT
	RETURN OR EXHAUST AIR DIFFUSER WITH ROUND DUCT
	DIFFUSER OR GRILLE TYPE BRANCH DUCT & NECK SIZE CFM
	CONNECT TO EXISTING
	ABOVE FINISHED FLOOR
	SUPPLY AIR WALL REGISTER
	CEILING SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	EXISTING TO REMAIN
	THERMOSTAT
	ROOFTOP UNIT SENSOR
	SENSOR
	ELBOW WITH TURNING VANES
	CONDENSATE (CD)
	REFRIGERANT PIPING

CONTROLS NOTE:
VENSTAR CONTRACTOR WILL REPLACE THERMOSTATS AND FURNISH AND INSTALL PERMANENT SENSORS AT TIME OF VENSTAR INSTALLATION.

HVAC CONTRACTOR TO PROVIDE A STANDARD THERMOSTAT FOR INITIAL COMMISSIONING OF HVAC SYSTEM.

ELECTRICAL CONTRACTOR WILL PROVIDE A WALL-MOUNTED, SINGLE GANG BOXES FOR MOUNTING SENSORS.

HVAC CONTRACTOR WILL FURNISH AND INSTALL SENSOR WIRE, THERMOSTATS, AND MAKE FINAL WIRING CONNECTIONS.

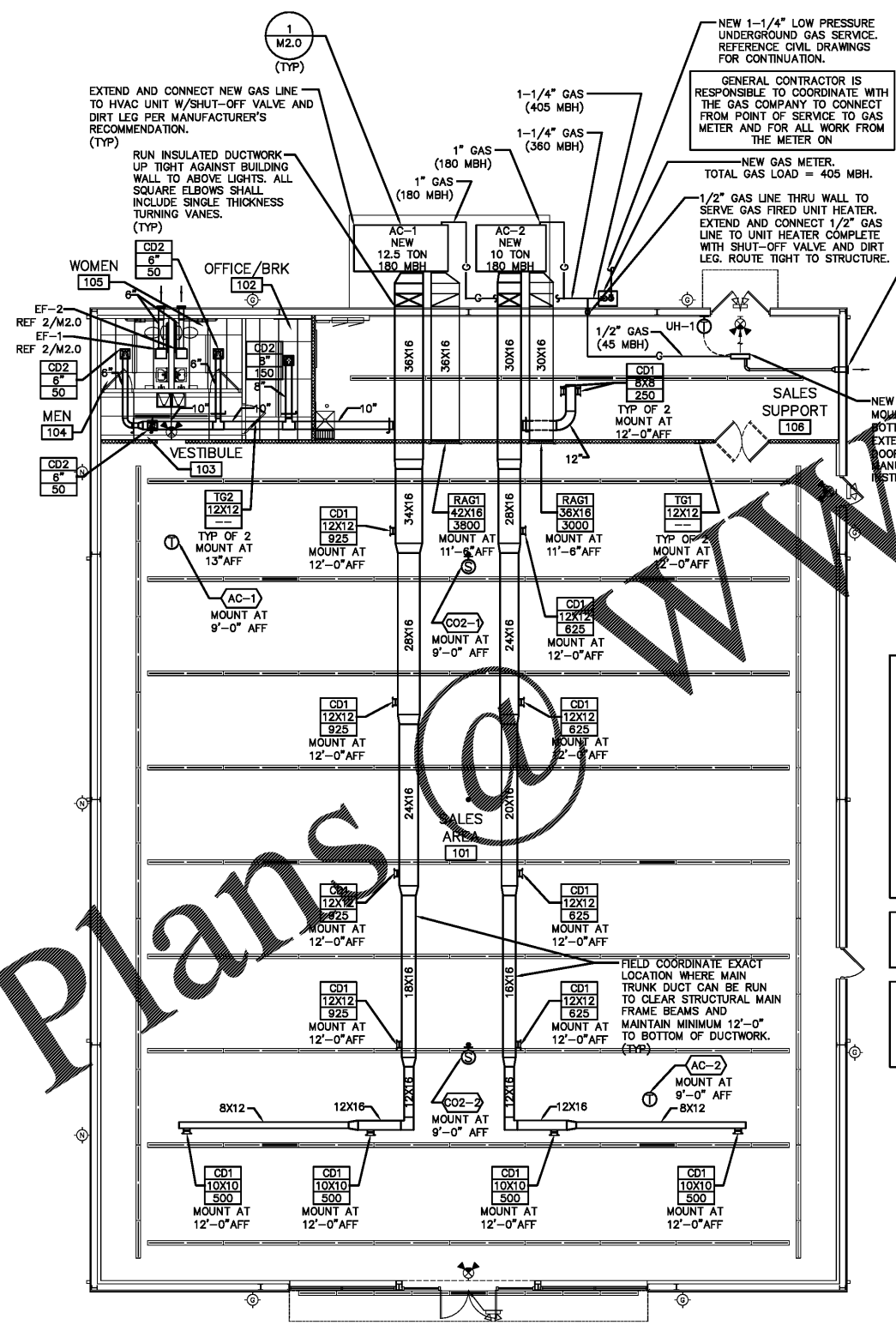
ALL TRADES TO CONFIRM LOCATIONS ON SITE WITH GENERAL CONTRACTOR AND WALL-MOUNTED EQUIPMENT.

HVAC EQUIPMENT NATIONAL ACCOUNT NOTE:
FAMILY DOLLAR HAS A NATIONAL ACCOUNT HVAC AGREEMENT WITH YORK INTERNATIONAL AND CARRIER CORPORATION. THE HVAC EQUIPMENT SHALL BE PURCHASED THROUGH THE NATIONAL ACCOUNTS PROGRAM - NO EXCEPTIONS. NO OTHER MANUFACTURERS WILL BE ACCEPTED. THE HVAC MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ACCEPTING THE EQUIPMENT, VERIFYING THE PROPER QUANTITIES AND VOLTAGE, LABOR, 1ST YEAR WARRANTY, INSTALLATION MATERIAL, AND TEMPORARY STORAGE. MECHANICAL CONTRACTOR SHALL PROVIDE VOLTAGE, HEAT AND ANY SITE SPECIFIC REQUIREMENTS FOR THE HVAC EQUIPMENT AT TIME OF PLACING ORDER. MECHANICAL CONTRACTOR SHALL PROVIDE EQUIPMENT SCHEDULE TO EQUIPMENT CONTACT PERSONS WITH QUOTE REQUEST. ALL MODEL NUMBER AND CONTACT INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

FOR YORK NATIONAL ACCOUNTS, CALL 800-481-9738, FAX 866-406-9675 OR EMAIL TO BE-NA-FAMILYDOLLAR@YI.COM.

GENERAL NOTES

- NOTES APPLY TO ALL MECHANICAL SHEETS.
- PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY THIS WORK.
- EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.
- PROVIDE SEISMIC BRACING BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER SMACNA PUBLISHED SEISMIC DETAILS, LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.
- ALL MAIN AND BRANCH DUCTWORK SHALL BE GALVANIZED STEEL AS RECOMMENDED IN THE LATEST EDITION OF SMACNA. MANUAL DUCTWORK SHALL BE INSTALLED PER SMACNA STANDARD.
- ALL DUCT SIZES NOTED INDICATE THE ACTUAL AREA DUCT SIZE. ADDITIONAL CLEARANCE FOR INTERNAL OR EXTERNAL INSULATION.
- PROVIDE MINIMUM PIPE SPACING METERS OF FIVE TIMES THE LEAST DIMENSION FOR RECTANGULAR DUCT WITH ONE 90° TURN AT THE END OF THIS DISTANCE. THIS CONDITION SHALL APPLY WHERE RETURN AIR TRANSFER DUCT ABOVE CEILING RISE FROM CEILING DIFFUSERS/GRILLES ARE SHOWN ON THE PLAN.
- COORDINATE LOCATION OF AIR COOLED CONDENSING UNIT FAN MOTORS, AND OTHER ARCHITECTURAL ITEMS WITH GC.
- FIELD VERIFY FRAMING, CEILING HEIGHTS, MAJOR COMPONENTS, ETC. BEFORE ORDERING OR FABRICATING DUCTWORK.
- MAKE EVERY DUCT BEND WITH A CENTERLINE RADIUS NOT LESS THAN ONE AND A HALF (1-1/2) TIMES ITS WIDTH.
- MAKE EVERY CHANGE IN SIZE AND SHAPE WITH A TAPERED SECTION WITH AN ANGLE NOT TO EXCEED 15° FOR PARALLEL OR PERPENDICULAR JOINTS. ANGLE BETWEEN THE SIDES OF THE TRANSITION NOT TO EXCEED 45° (DIVERGING) OR 60° (CONVERGING).
- TYPICAL BRANCH FITTING DETAILS ARE APPLICABLE THROUGHOUT. PROVIDE FULL-FLOW THROAT AND BALANCING DAMPERS AT ALL BRANCH TAKE-OFFS. PROVIDE VOLUME/BALANCE WITH READILY ACCESSIBLE OPERATING LEVERS. LOCATE DAMPERS ABOVE CEILING. PROVIDE ACCESS DOORS AS REQUIRED.
- FLEXIBLE DUCTWORK IS ACCEPTABLE FOR DUCT CONNECTION TO REGISTER, GRILLES AND/OR DIFFUSERS FOR ABOVE CEILING ONLY. OUTLET DEVICES SHALL BE FITTED WITH RIGID ELBOWS OR PLENUMS. BENDING RADIUS SHALL NOT BE LESS THAN INDICATED IN SMACNA STANDARDS FOR RIGID DUCT. FLEXIBLE DUCT SHALL NOT BE USED IN PLACE OF ELBOWS. MAXIMUM RUN OF FLEX DUCT SHALL NOT EXCEED 5 FEET.
- COORDINATE LOCATION OF ALL ABOVE-CEILING MATERIALS, DEVICES, EQUIPMENT AND CEILING MOUNTED GRILLES, REGISTERS AND DIFFUSERS WITH LIGHTING AND FIRE PROTECTION. LIGHTING AND FIRE PROTECTION TAKE PRECEDENCE OVER MECHANICAL DEVICES.
- PROVIDE TESTING AND BALANCING OF THE MECHANICAL AIR SYSTEMS TO MEET DESIGN INDICATED. TESTING AND BALANCING WORK SHALL BE DONE PER AISC NATION STANDARDS FOR TOTAL SYSTEM BALANCE.
- COORDINATE CONDENSATE DRAINS WITH CONTRACT PLUMBING DRAWINGS.
- GC SHALL PAINT THE FOLLOWING HVAC COMPONENTS TO MATCH ARCHITECTURAL COLOR SCHEME: LOUVER EXHAUST AND AIR INTAKE CAPS OF THE GOOSENECK AND WALL CAP VARIETY EXTERIOR PIPING, AND ANY EXPOSED DUCTWORK.
- MECHANICAL CONTRACTOR SHALL INSTALL ALL LOW VOLTAGE WIRING FOR HVAC SYSTEM, AND COMPLETE ALL LINE VOLTAGE CONTROL WIRING AS RELATED TO THE HVAC SYSTEMS.
- CLEAN ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THE MECHANICAL CONTRACT BEFORE COMPLETION.
- GUARANTEE AGAINST DEFECTIVE WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL PAYMENT. GUARANTEE INCLUDES ALL LABOR AND MATERIAL.
- PROVIDE EQUIPMENT IN SCHEDULED PER EQUIPMENT.
- REFER TO SPECIFICATIONS FOR REQUIRED DUCT INSULATION.
- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWING AND REFLECTED CEILING PLAN FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSERS.
- MECHANICAL CONTRACTOR SHALL REPAIR, REPLACE AND PAINT TO MATCH EXISTING SURFACES DAMAGED BY THE MECHANICAL CONTRACTOR DURING INSTALLATION OF MECHANICAL EQUIPMENT.
- MECHANICAL CONTRACTOR SHALL REMOVE FROM THE JOBSITE ANY MATERIALS NOT ECONOMICALLY RECOVERABLE. ANY MATERIALS REMOVED FROM THE JOBSITE AND SOLD FOR SALVAGE SHALL BE CREDITED TO THE OWNERS ACCOUNT.
- MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE AND/OR SMOKE DAMPERS WHERE INDICATED ON THE PLANS AND IN SUCH LOCATIONS AS REQUIRED BY APPLICABLE CODES. INSTALLATION AS REQUIRED BY APPLICABLE CODES. INSTALLATION OF FIRE AND/OR SMOKE DAMPERS SHALL BE IN STRICT ACCORDANCE WITH THE DAMPERS MANUFACTURER'S RECOMMENDATIONS.
- ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THROUGH THE WALL SHALL BE FLASHED AND COUNTER FLASHED IN A WATERPROOF MANNER.
- MECHANICAL CONTRACTOR SHALL CHANGE OUT THE EQUIPMENT FILTERS AT THE TIME OF POSSESSION OF THE PROJECT BY THE OWNER, USING ONLY NEW FILTERS OF THE PROPER SIZE AND TYPE.
- SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT.
- AS-BUILTS ARE TO BE COMPLETED AND TURNED INTO THE GENERAL CONTRACTOR AT COMPLETION OF JOB.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL HIGH VOLTAGE ELECTRICAL WIRING, CONDUIT, DISCONNECT SWITCHES, FUSES, ETC. TO PACKAGE UNITS. ALL FINAL ELECTRICAL CONNECTIONS ARE BY ELECTRICAL CONTRACTOR.
- MECHANICAL FAILURE OF NEW ROOFTOP UNITS PRIOR TO ACCEPTANCE BY OWNER SHALL BE REPAIRED OR REPLACED BY CONTRACTOR THROUGH WARRANTY AGREEMENT WITH RTU MANUFACTURER.
- PROVIDE A GAS SHUT-OFF VALVE AT ALL GAS FIRED EQUIPMENT. GAS SHUT-OFF VALVES SHALL BE AIA APPROVED BALL VALVE. INSTALLATION AND COMPONENTS PER NFPA 54.
- PROVIDE A SIX (6) INCH DIRT LEG BETWEEN EACH GAS APPLIANCE AND GAS SHUT-OFF VALVE.
- A COPY OF THE HVAC AUTOMATIC SHUTOFF TEST REPORT SHALL BE SUBMITTED TO LOCAL AHH.
- SPECIAL INSPECTIONS SHALL BE PERFORMED FOR HVAC DUCT DETECTORS. SUBMIT COPY OF THE REPORT TO LOCAL AHH.



1 FLOOR PLAN-HVAC
1/8" = 1'-0"

Order Plans
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STATE OF SOUTH CAROLINA

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6/22/17

MECHANICAL PLANS

SHEET: M1