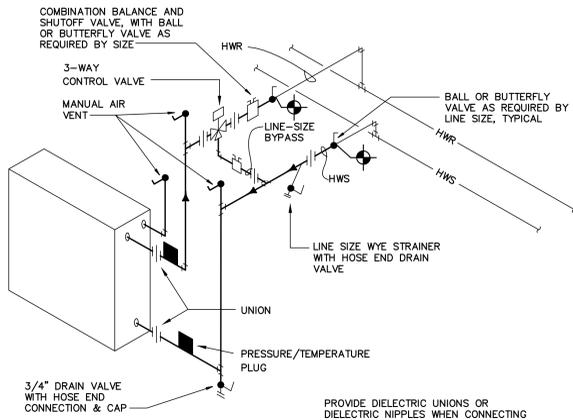
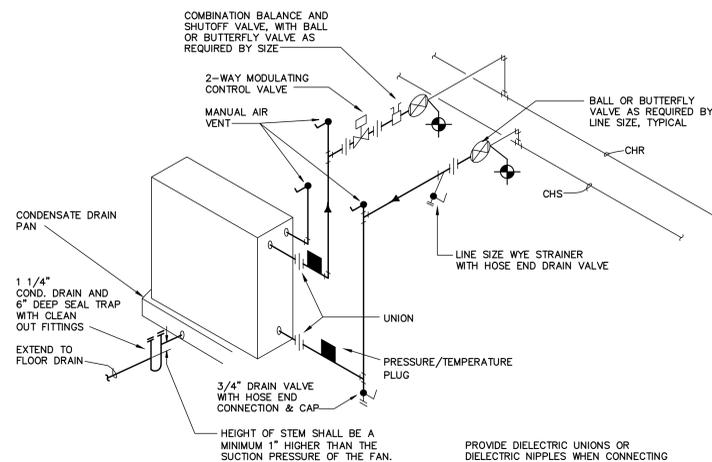


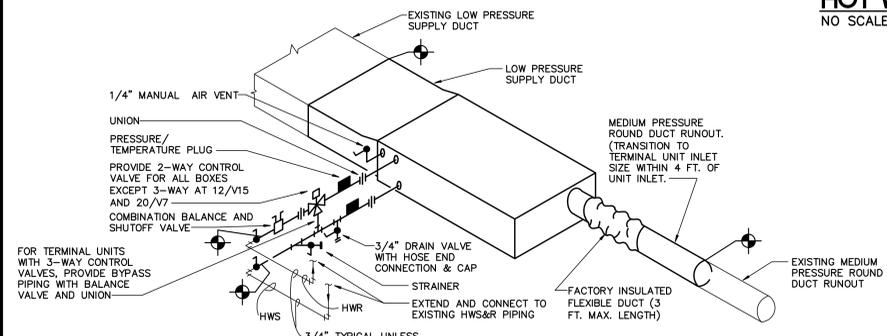
**PIPING AT VAV TERMINAL UNITS SERVED BY AHU-7E AND AHU-7I**  
NO SCALE



**HOT WATER HEATING COIL PIPING AT AHU'S**  
NO SCALE

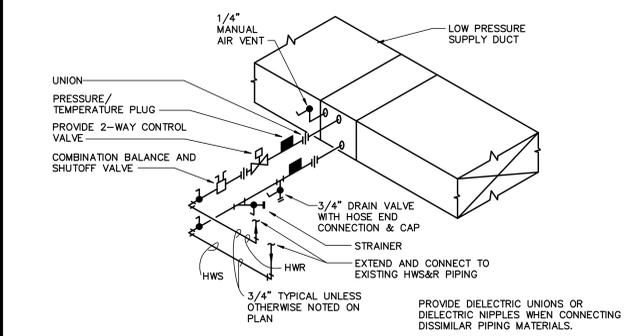


**CHILLED WATER COIL PIPING AT AHU'S**  
NO SCALE

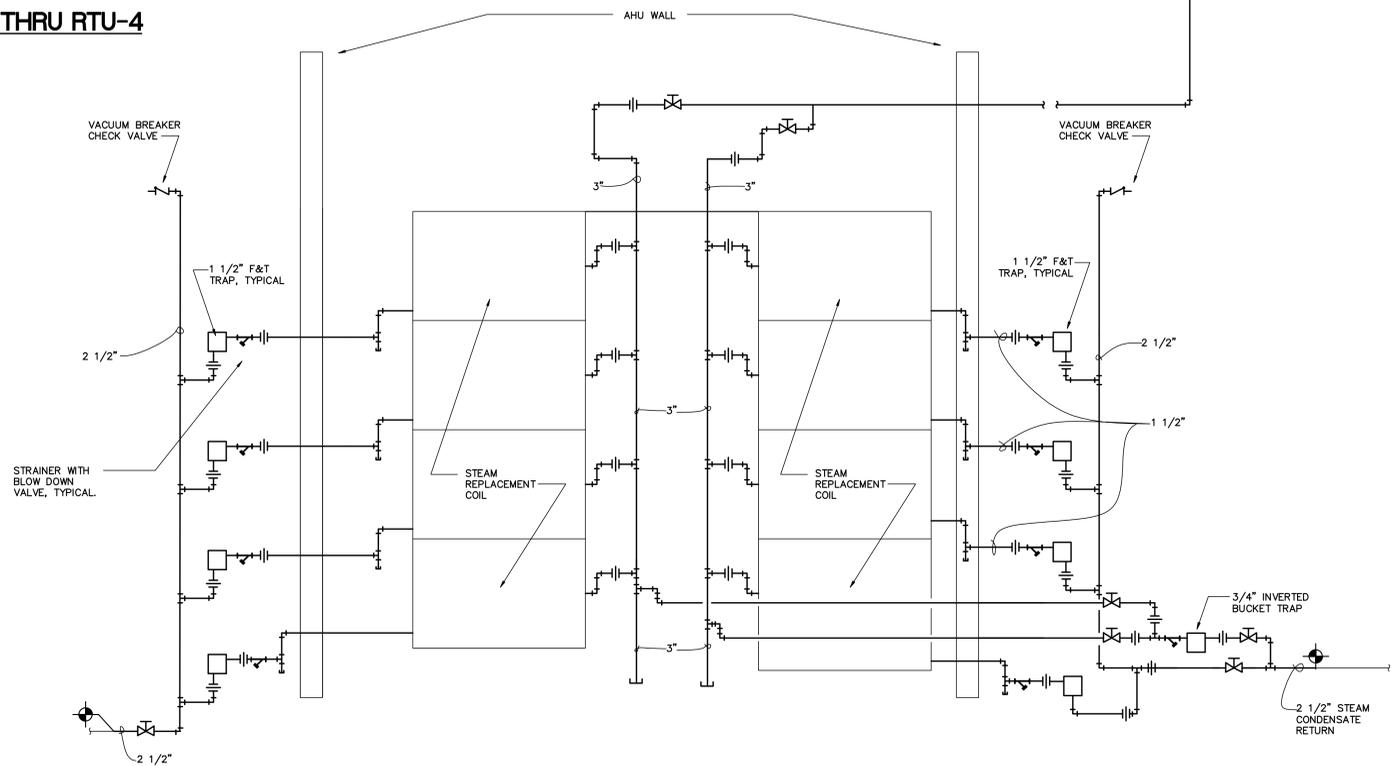


- NOTES**
1. REPLACE EXISTING TERMINAL UNIT, REPLACE EXISTING BRANCH HWS&R PIPING AND VALVING BETWEEN ISOLATION VALVES AND TERMINAL UNIT.
  2. REPLACE EXISTING BRANCH HWS&R PIPING AND VALVING BETWEEN ISOLATION VALVES AND TERMINAL UNIT.
  3. PROVIDE 3-WAY CONTROL VALVES FOR TERMINAL UNITS 3, 6, 9, 18, 24, AND 25. VERIFY EXISTING CONTROL VALVE CONFIGURATION (2-WAY OR 3-WAY) WITH EXISTING CONDITIONS.

**PIPING AT VAV TERMINAL UNITS SERVED BY RTU-1 THRU RTU-4**  
NO SCALE



**PIPING AT DUCT MOUNTED HEATING COILS**  
NO SCALE



REPLACE EXISTING STEAM AND STEAM CONDENSATE PIPING AND \*\*\* AND TRAPS. VERIFY ALL PIPE, TRAP, AND VALVE SIZES AND TYPES WITH EXISTING PIPING ARRANGEMENT. VERIFY PIPING ARRANGEMENT WITH FIELD CONDITIONS. STEAM AND CONDENSATE PIPING SHALL BE ROUTED THRU THE AHU ON THE DISCHARGE SIDE OF THE STEAM COIL.

**STEAM HEATING COIL PIPING AT AHU-22A, AHU-23A, AND AHU-24A**  
NO SCALE

LEGEND	
	PRESSURE REDUCING VALVE W/ DIRECTION OF REDUCTION
	STRAINER
	CHECK VALVE
	PNEUMATIC CONTROL VALVE
	PRESSURE RELIEF VALVE
	AUTO FLOW VALVE
	BALL VALVE
	GATE VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	FLOW MEASURING STATION
	THERMOMETER
	PRESSURE GAUGE
	AUTOMATIC AIR VENT
	PRESSURE SENSOR
	PT TEST PLUG
	WATER CIRCULATING PUMP
	AIR FLOW DIRECTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	FIRE DAMPER IN DUCT AT WALL
	AIR FLOW MEASURING STATION
	MOTORIZED DAMPER OPERATOR
	PNEUMATIC DAMPER ACTUATOR
	PHOTOELECTRIC SMOKE DETECTOR BY DIV. 26 (INSTALLED BY DIV. 23)
	CONNECT NEW WORK TO EXISTING
	THERMOSTAT
	FLEXIBLE CONNECTION
	NEW FIRE DAMPER
	EXISTING FIRE DAMPER
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	HOT WATER SUPPLY
	HOT WATER RETURN
	A.C. CONDENSATE DRAIN
	HIGH PRESSURE STEAM
	LOW PRESSURE STEAM
	HIGH PRESSURE CONDENSATE
	LOW PRESSURE CONDENSATE
	PUMPED CONDENSATE
	BUCKET TRAP
	FLOAT & THERMOSTATIC TRAP

REVISIONS:


PROJECT #: 24308.00  
DATE: APRIL 10, 2015  
DRAWN BY: JTC  
DESIGNER: JTC  
CHECKED BY: AMS

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Consulting Engineers

**SBI-000320**  
**HVAC RETROFIT PHASE II**  
**SHELBY COUNTY CRIMINAL JUSTICE CENTER**  
201 POPLAR AVENUE  
MEMPHIS, TENNESSEE 38103

SEAL:   
SHEET NUMBER:  
**M-701**  
DESCRIPTION:  
MECHANICAL DETAILS

4/7/2015 4:27 PM WSC 0208