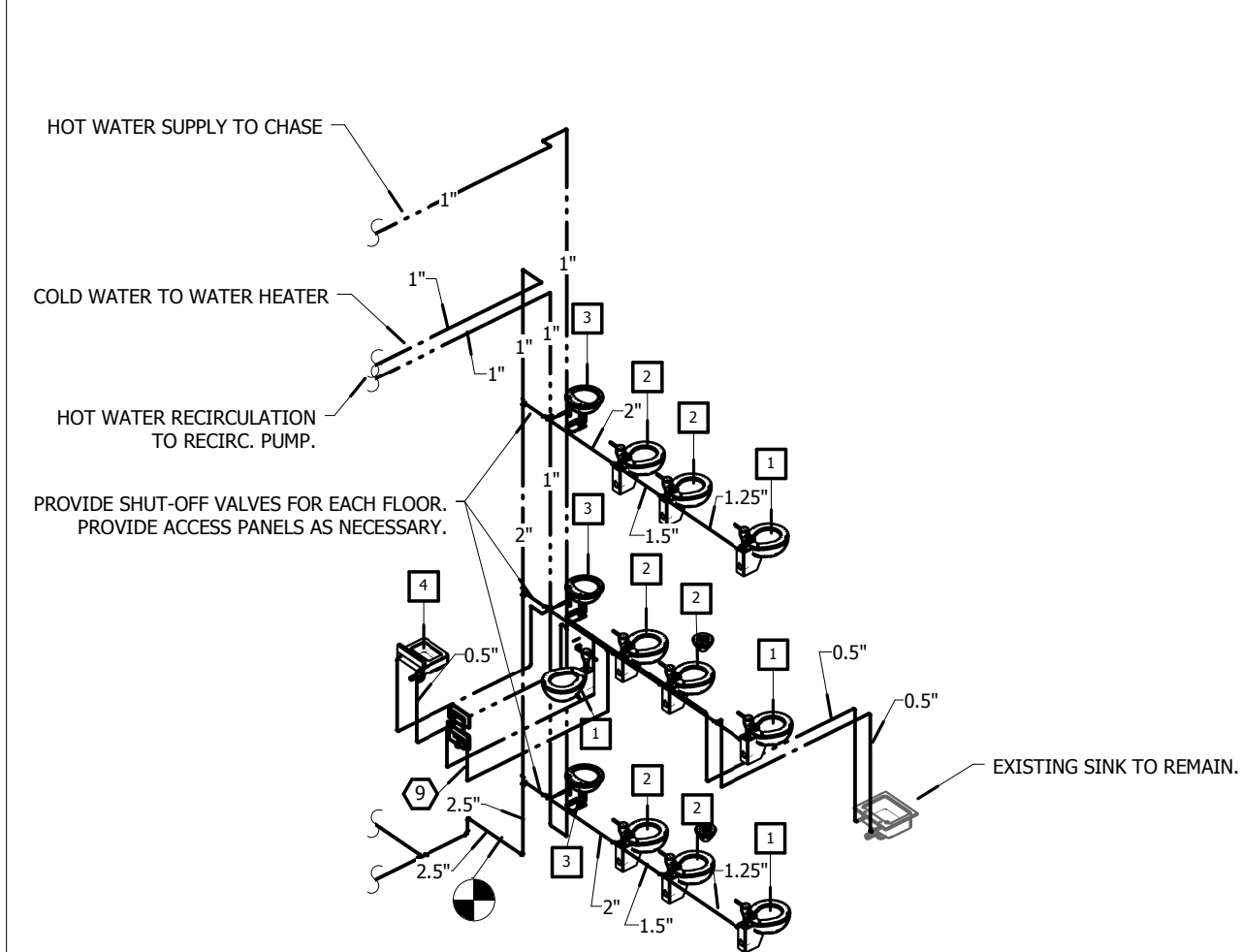
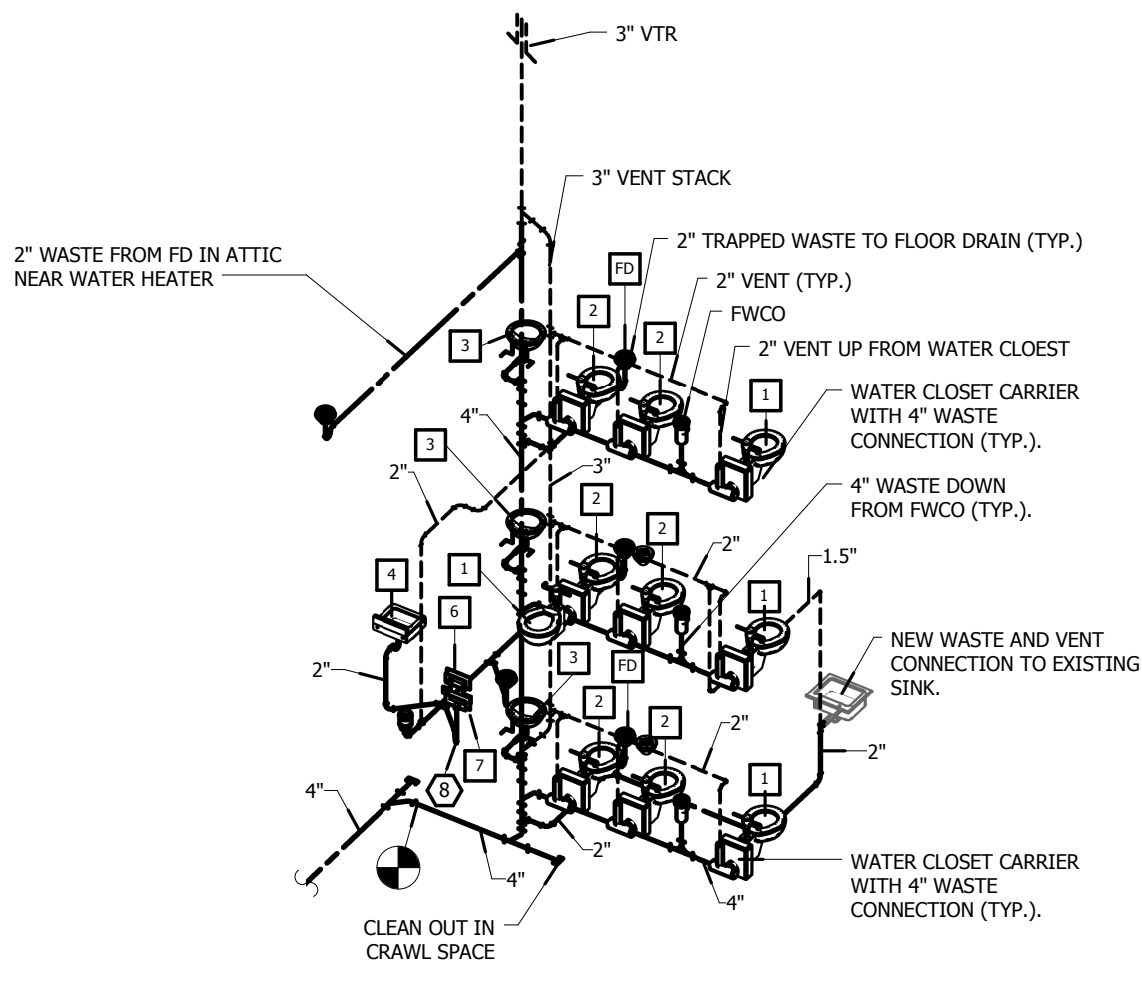
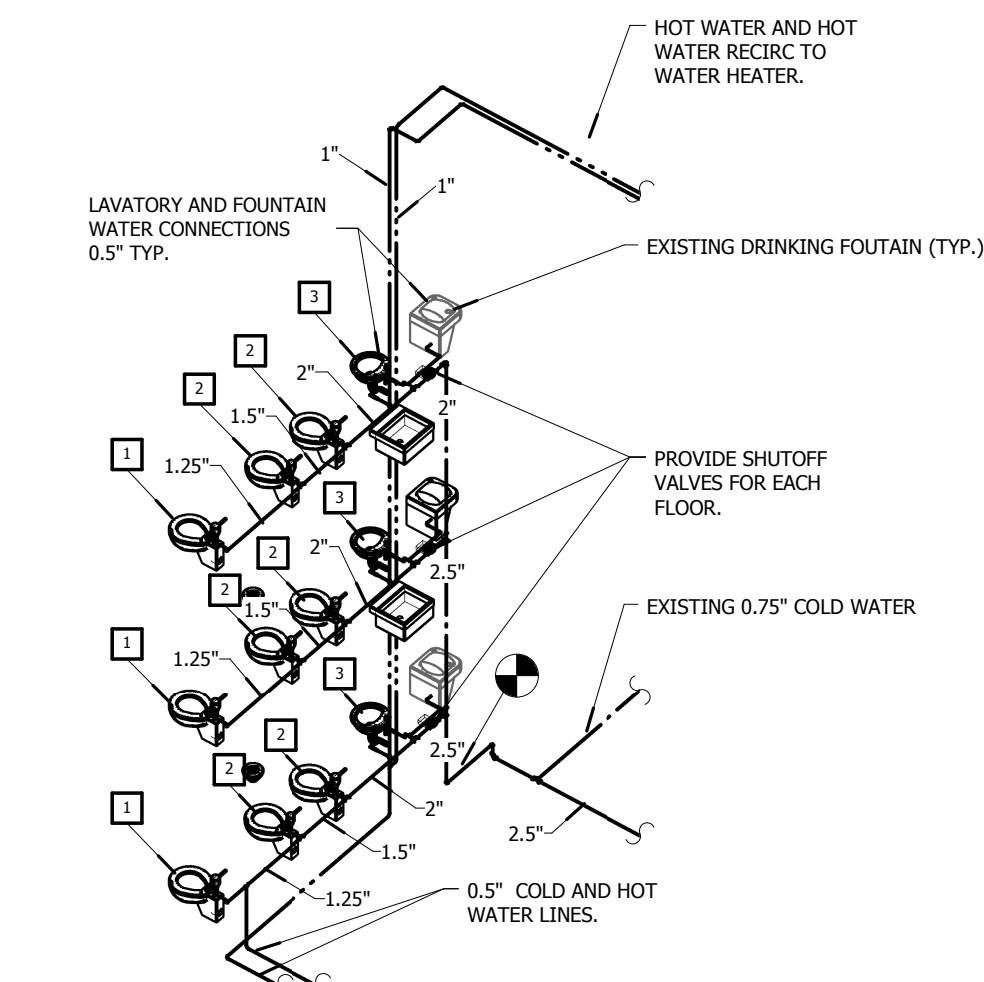




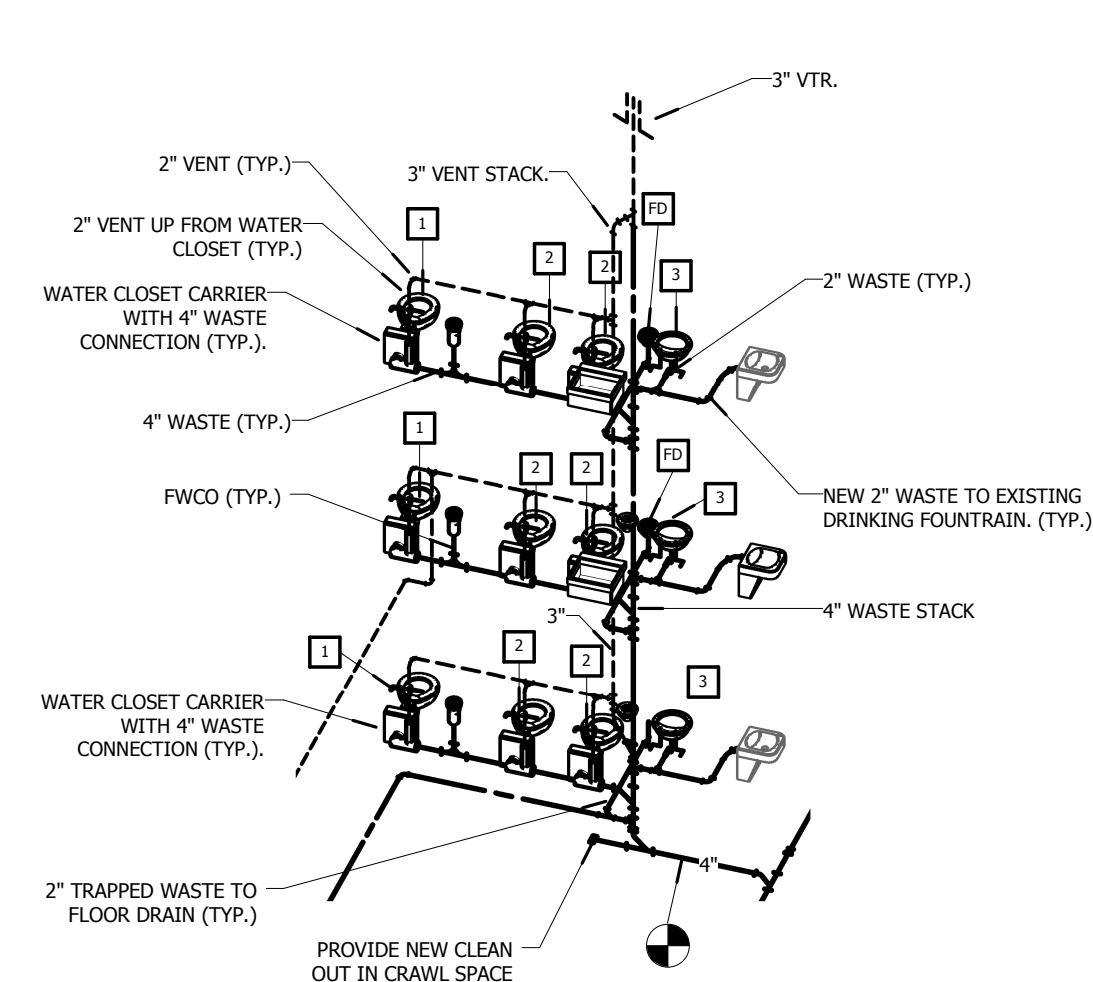
CONTRACTOR HAS THE OPTION TO REUSE EXISTING WASTE AND VENT RISERS WHERE APPLICABLE. ALL BRANCH PIPING FROM RISERS SHALL BE NEW.



CONTRACTOR HAS THE OPTION TO REUSE EXISTING WASTE AND VENT RISERS WHERE APPLICABLE. ALL BRANCH PIPING FROM RISERS SHALL BE NEW.



CONTRACTOR HAS THE OPTION TO REUSE EXISTING WASTE AND VENT RISERS WHERE APPLICABLE. ALL BRANCH PIPING FROM RISERS SHALL BE NEW.



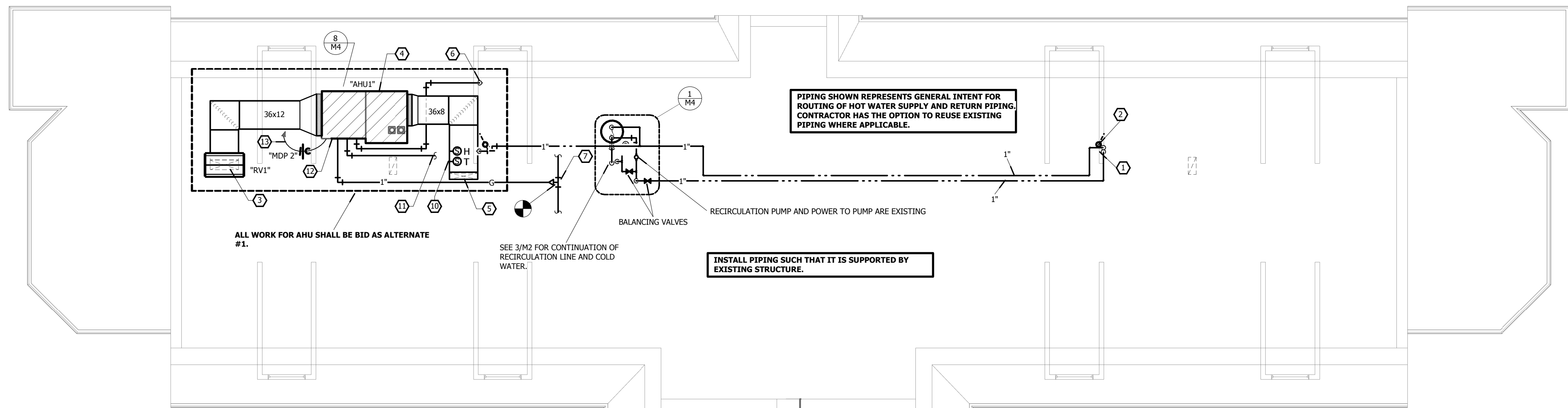
CONTRACTOR HAS THE OPTION TO REUSE EXISTING WASTE AND VENT RISERS WHERE APPLICABLE. ALL BRANCH PIPING FROM RISERS SHALL BE NEW.

6 WOMEN'S DOMESTIC WATER RISER
SCALE: NTS

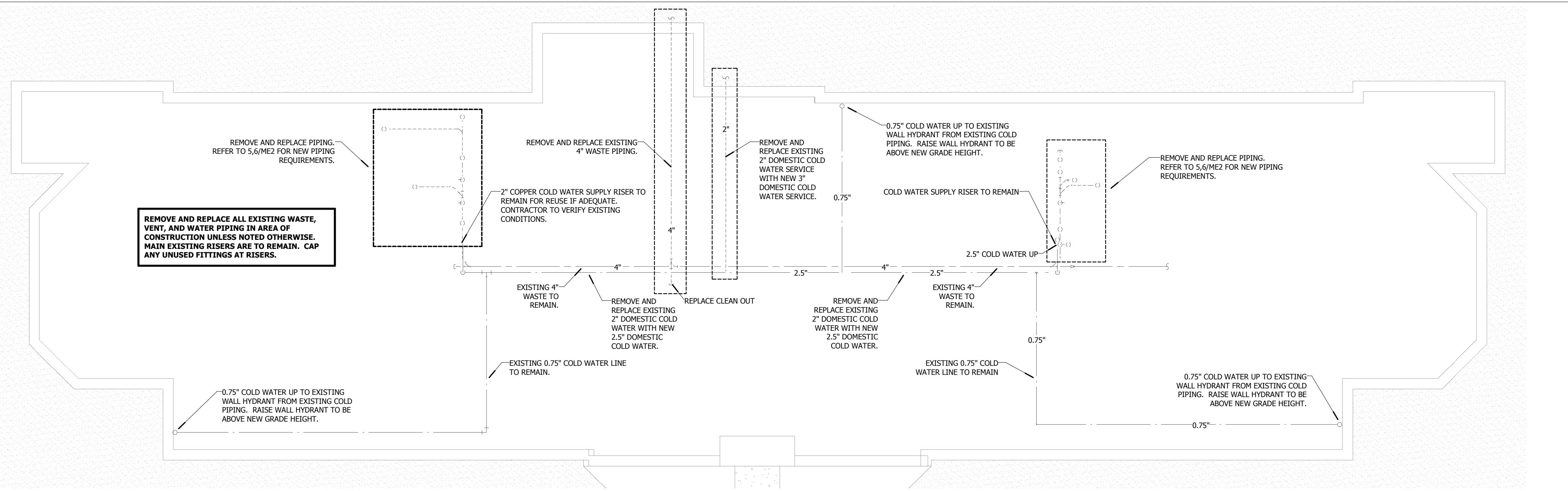
5 WOMEN'S WASTE AND VENT RISER
SCALE: NTS

4 MEN'S DOMESTIC WATER RISER
SCALE: NTS

3 MEN'S WASTE AND VENT RISER
SCALE: NTS



2 ATTIC MECHANICAL / ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



1 CRAWL SPACE MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

HEX NOTES:	
1	1" HOT WATER RECIRCULATION LINE UP FROM MEN'S CHASE. SEE 4/ME2.
2	1" HOT WATER LINE UP FROM MEN'S CHASE. SEE 4/ME2.
3	36x12 O.A. DUCT UP TO ROOF VENTILATOR. PROVIDE MOTORIZED DAMPER AND INTERLOCK WITH "AHU1". UNIT SHALL OPERATE DURING OCCUPIED HOURS. SEAL ROOF PENETRATION WEATHER-TIGHT. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE TO FLUE EXHAUSTS, PLUMBING VENTS, ETC.
4	EXTEND FLUE / INTAKE UP THROUGH ROOF AND TERMINATE WITH CONCENTRIC VENT KIT. SEAL ROOF PENETRATION WEATHER-TIGHT. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE TO ALL OUTSIDE AIR INTAKES.
5	36x6 O.A. DUCT DOWN IN CHASE.
6	ROUTE REFRIGERATION PIPING DOWN IN CHASE TO HEAT PUMP ON GROUND.
7	EXTEND 1" GAS PIPING TO EXISTING 1" GAS (OR LARGER) PIPING IN ATTIC. FIELD VERIFY EXISTING GAS PIPING PRIOR TO INSTALLATION.
8	PROVIDE 2" WASTE UP TO NEW WASHER BOX IN FAMILY RESTROOM 204. WASHER BOX WALL SHALL BE MOUNTED 4" ABOVE FINISHED FLOOR.
9	PROVIDE 0.75" HOT AND 0.75" COLD WATER PIPING UP TO WALL HYDRANT IN FAMILY RESTROOM 204. WALL HYDRANT BOX TO BE MOUNTED IN A STACKED FORMATION JUST ABOVE THE NEW WASHER BOX. COORDINATE AND MAINTAIN ALL CLEARANCES REQUIRED BY DIAPER CHANGING STATION.
10	PROVIDE TEMPERATURE AND HUMIDITY SENSOR IN S.A. DUCT.
11	ROUTE CONDENSATE DRAIN TO NEW FLOOR DRAIN IN THIS AREA AND TERMINATE WITH AIR-GAP.
12	COORDINATE "AH1" MOUNTING AND WEIGHTS WITH EXISTING STRUCTURE PRIOR TO INSTALLATION.
13	CONNECT TO EXISTING TIME SWITCH FOR EXHAUST FANS FOR "OCCUPIED" HOURS, INCLUDE RELAY OR OTHER COMPONENT TO WIRE TO AHU1 CONTROLLER

GENERAL NOTES	
A	INSULATE ALL DOMESTIC WATER AND HVAC CONDENSATE DRAIN PIPING WITH 1/2" AP ARMAFLEX. ALL INSULATION MATERIALS SHALL HAVE A FLAME SPREAD RATING NO GREATER THAN 25 AND A SMOKE DEVELOPED RATING NO GREATER THAN 50.
B	ALL RECTANGULAR DUCTWORK RUN WITHIN THE UNCONDITIONED ATTIC, CRAWLSPACE OR OTHER UNCONDITIONED SPACES SHALL HAVE 1" OF 2.0 LB. DUCT LINER PLUS 1.5" OF 1.0 LB. FIBERGLASS DUCT WRAP WITH FOIL-SCREEN-KRAFT FACING.
C	BRANCH DUCTS SHALL BE THE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
D	M/C SHALL BE RESPONSIBLE FOR ALL FIELD INSTALLED TEMPERATURE AND HUMIDITY SENSOR AND CONTROLS FOR "AHU1" FOR NEUTRAL AIR DISTRIBUTION TO SPACE. PROVIDE TIME CLOCK WITH UNIT AND PROGRAM PER SPECIFICATIONS.
E	HOT AND COLD DOMESTIC WATER BRANCH LINES AND PLUMBING FIXTURE CONNECTIONS SHALL BE PEX; ALL OTHER LINES AND RISERS SHALL BE TYPE L COPPER FOR ABOVE GRADE AND TYPE K FOR BELOW GRADE. REFER TO THE PIPING MATERIAL SCHEDULE FOR GUIDANCE.
F	PROVIDE SHUT-OFF VALVE ON ALL BRANCH LINES STEMMING FROM THE MAIN DOMESTIC WATER RISERS (HOT AND COLD). SHUT-OFF VALVES SHALL BE INSTALLED IN A LOCATION THAT IS EASILY ACCESSIBLE AND OPERABLE FROM THE CHASE ACCESS POINT AND IS STILL WITHIN ANY PREVIOUS STATED GUIDELINES.

MISSOURI STATE CERTIFICATE OF AUTHORITY #2010011426

STATE OF MISSOURI
JENNIFER A. LUCE
NUMBER E-2001018772
PROFESSIONAL ENGINEER
2.14.16

Copyright 2016 ©
THESE PRINTS ARE THE PROPERTY OF PARAGON ARCHITECTURE AND
SHALL BE USED ONLY FOR THE PROJECT REFERENCED BELOW

PARAGON
ARCHITECTURE
430 S. GLENSTONE AVE. SPRINGFIELD, MO 65802
PH: 417.885.0002 FAX: 417.888.0072
www.paragonarchitecture.com

Consulting Engineers
3333 East Bartfield Road, Suite 1000
Springfield, Missouri 65804
Phone: 417.885.0002
Fax: 417.888.0073
mefc.com

mefc
Michael E. Fiedler & Collins, Inc.
Civil & Mechanical State Certificate of Authority #0101075