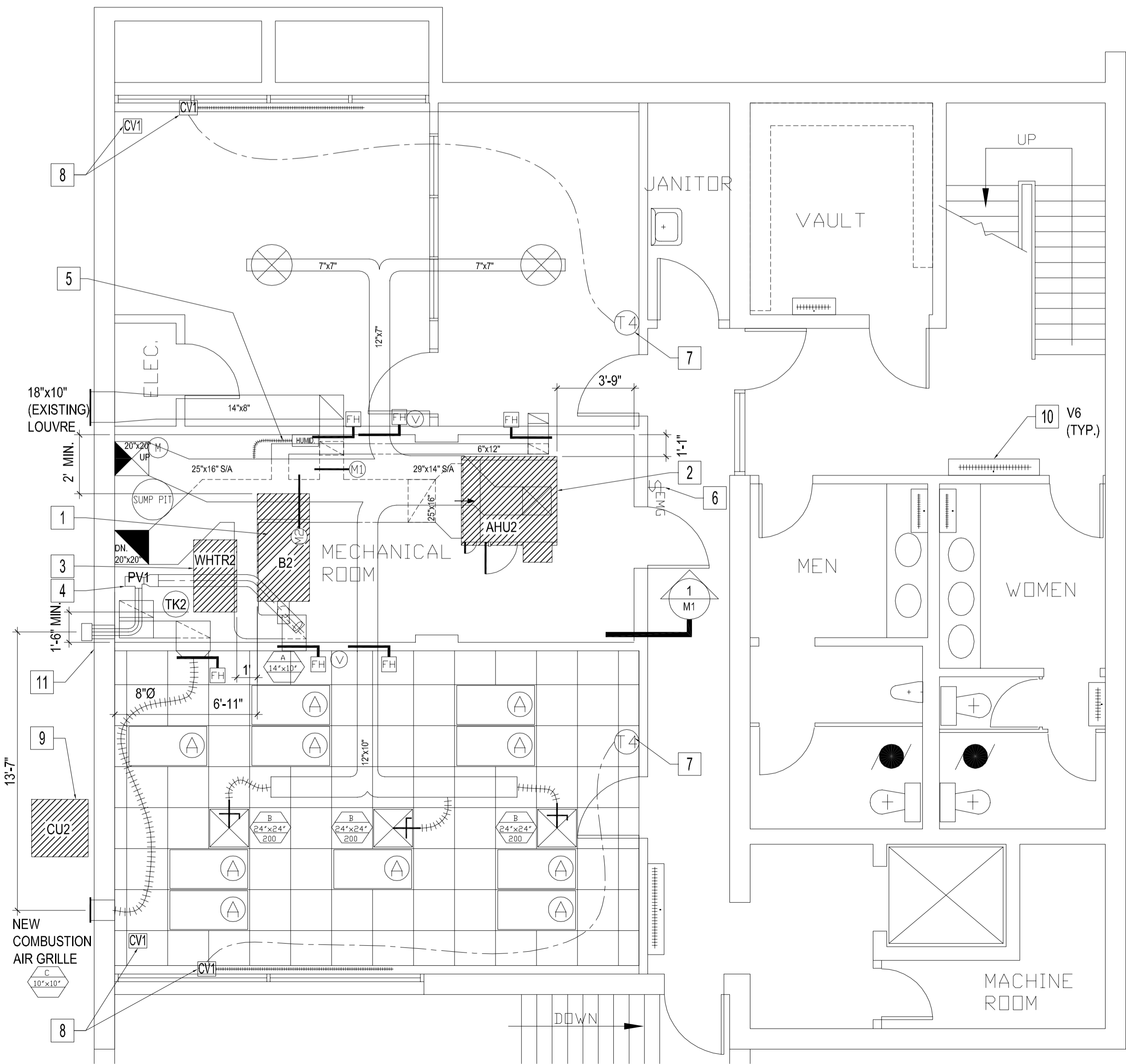


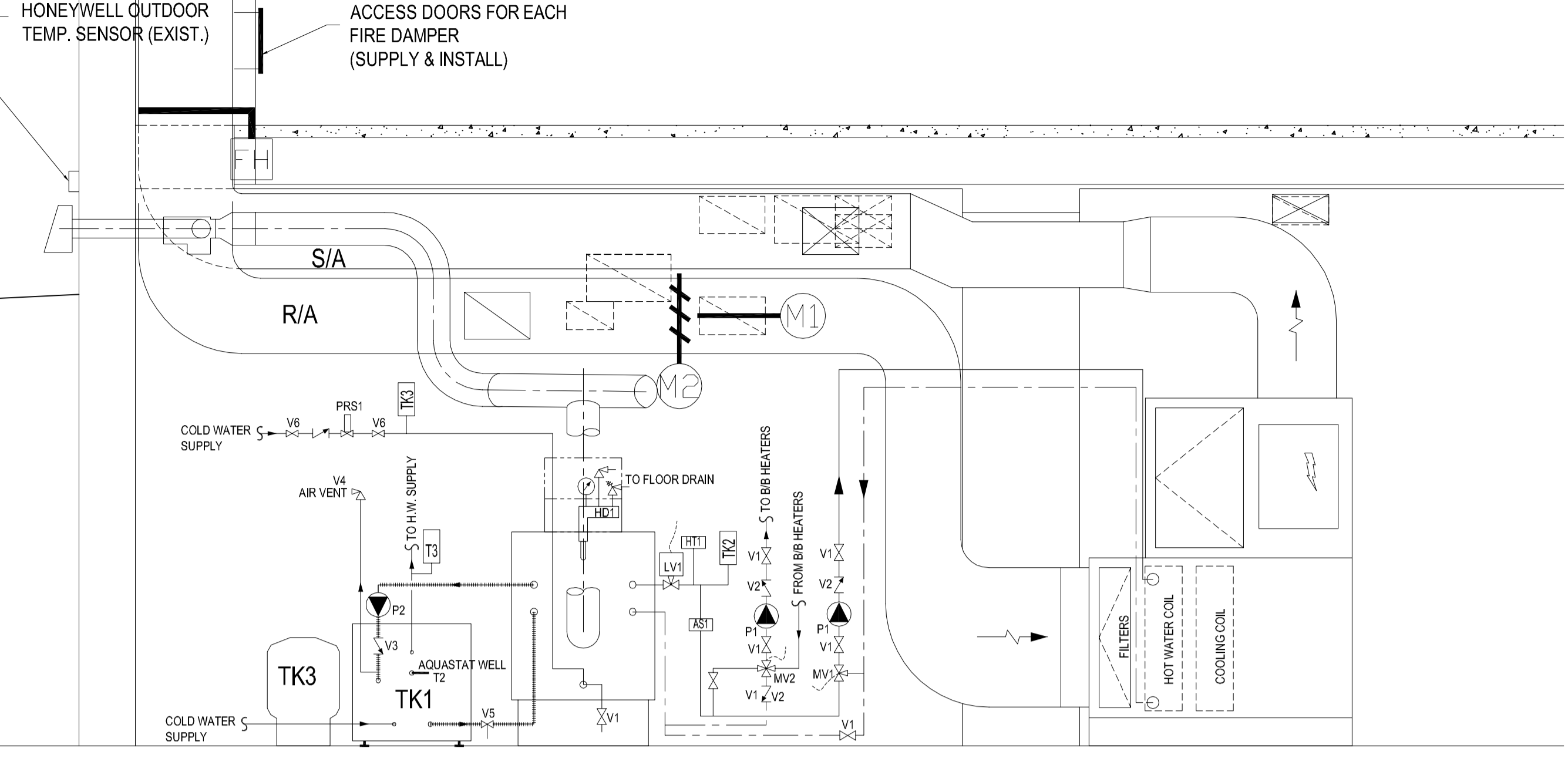
BASEMENT FLOOR PLAN - DEMOLITION
SCALE: 1/8"=1'-0"



BASEMENT FLOOR PLAN - RENOVATION
SCALE: 1/4"=1'-0"

MECHANICAL DEMOLITION NOTES - BASEMENT
DEMOLITION

- 1 REMOVE & DISPOSE EXISTING BOILER, CIRCULATION PUMP, ASSOCIATED PIPING, BOILER CONTROL & SENSORS WITHIN MECHANICAL ROOM.
- 2 REMOVE & DISPOSE EXISTING AIR HANDLING UNIT, DUCTS, DAMPERS, CONTROLS & SENSORS WITHIN MECHANICAL ROOM.
- 3 EXISTING HUMIDIFIER TO REMAIN. DISCONNECT HUMIDIFIER SUPPLY NOZZLE AND SENSOR CONNECTED TO EXISTING SUPPLY DUCT. DISCONNECT DRAIN LINE TO FLOOR DRAIN. BUNDLE ABOVE HUMIDIFIER COMPONENTS TO EXISTING WALL MOUNTED HUMIDIFIER TO PREVENT DAMAGE DURING RENOVATION. SEE "MECHANICAL RENOVATION NOTES - BASEMENT" TO REINSTALL HUMIDIFIER.
- 4 REMOVE & DISPOSE EXISTING EXPANSION TANK, ASSOCIATED VALVING, HANGERS AND PIPING.
- 5 REMOVE & DISPOSE EXISTING NATURAL GAS HOT WATER TANK AND VENTING. REMOVE & DISPOSE EXISTING 12" FLUE UP TO ROOF AND CAP AT EXISTING CHIMNEY BASE FLASHING. CHIMNEY CAPPING SHALL BE WATER-TIGHT & PERFORMED BY QUALIFIED ROOFER TO CONFORM WITH THE LATEST ROOFING STANDARDS.
- 6 EXISTING VERTICAL SUPPLY & RETURN DUCT TO MAIN FLOOR TO REMAIN.
- 7 REMOVE & DISPOSE EXISTING SUPPLY DUCTS & LOUVRES TO MEETING ROOM.
- 8 REMOVE EXISTING FRESH AIR GRILLE AND INSULATE WALL WITH 2" RIGID INSULATION/VAPOUR BARRIER. PATCH WALL HOLE TO MATCH EXTERIOR FINISH TO PREVENT INFILTRATION.
- 9 REMOVE EXISTING COMBUSTION AIR INLET GRILLE & INSULATE WALL WITH 2" RIGID INSULATION & VAPOUR BARRIER. PATCH WALL HOLE TO MATCH EXTERIOR FINISH TO PREVENT INFILTRATION.
- 10 REMOVE EXHAUST FAN & DUCTING FROM MEETING ROOM TO EXIT POINT IN MECHANICAL ROOM.
- 11 REMOVE & DISPOSE EXISTING KEEPRIE CONDENSING UNIT.
- 12 REMOVE REQUIRE CEILING TILES TO PERFORM HVAC DUCTWORK. IF MORE THAN 80% OF CEILING TILES ARE REQUIRE TO COMPLETE WORK, REPLACE ALL CEILING TILES. DO NOT DISTURB CEILING TILE TEES, IF POSSIBLE.



SECTION - MECHANICAL ROOM
SCALE: 1/2"=1'-0"

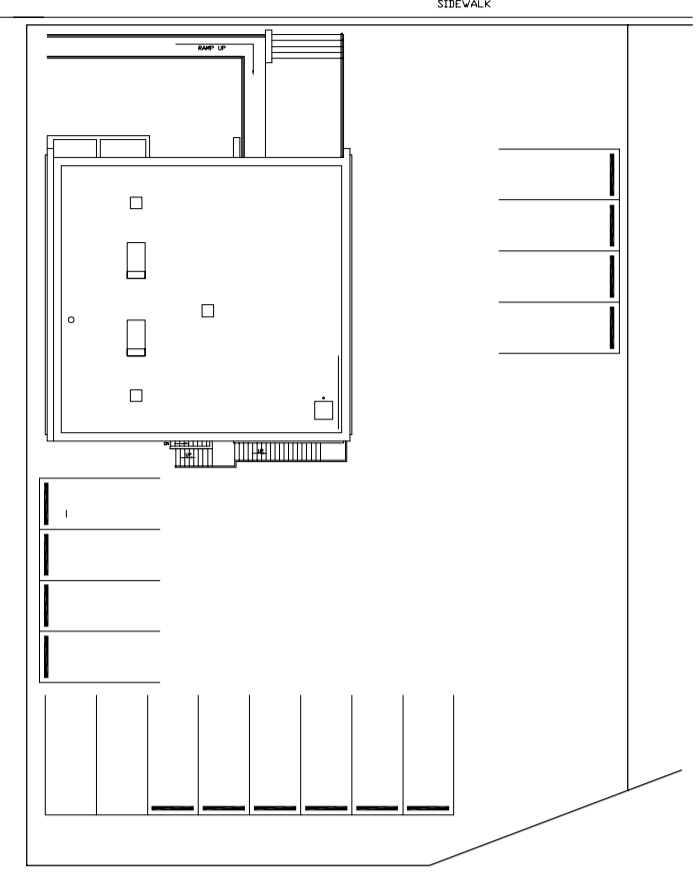
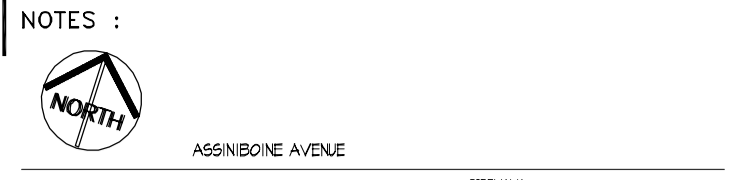
MECHANICAL RENOVATION NOTES - BASEMENT

- 1 NEW BOILER "B2" TO BE INSTALLED AS SHOWN & PER MANUFACTURER INSTALLATION INSTRUCTIONS & LATEST EDITION OF CODES. MANUFACTURER'S & CODE MINIMUM CLEARANCES FOR SERVICING SHALL BE MAINTAINED.
- 2 NEW AIR HANDLER UNIT "AHU2" TO BE INSTALLED AS SHOWN & PER MANUFACTURER INSTALLATION INSTRUCTIONS & LATEST EDITION OF CODES.
- 3 NEW INDIRECT-FIRED HOT WATER STORAGE TANK "WHTR2" TO BE INSTALLED AS SHOWN & PER MANUFACTURER INSTALLATION INSTRUCTIONS & LATEST EDITION OF CODES.
- 4 NEW POWER VENTER "PV1" FOR "B2" TO BE INSTALLED AS SHOWN & PER MANUFACTURER INSTALLATION INSTRUCTIONS & LATEST EDITION OF CODES.
- 5 RECONNECT EXISTING HUMIDIFIER SUPPLY NOZZLE & SENSOR TO NEW SUPPLY DUCT AS SHOWN. HUMIDIFIER SHALL BE INTERLOCKED TO "AHU2" FAN TO OPERATE.
- 6 EMERGENCY SWITCH OUTSIDE MECHANICAL ROOM SHALL BE CONNECTED TO "AHU2" & "B2".
- 7 REPLACE WITH NEW THERMOSTAT "T2".
- 8 REPLACE WITH ZONE CONTROL VALVE "CV1".
- 9 NEW CONDENSING UNIT "CU2" TO BE INSTALLED INSIDE FENCED ENCLOSURE & PER MANUFACTURER INSTALLATION INSTRUCTIONS & LATEST EDITION OF CODES.
- 10 ALL BASEBOARD RADIATORS IN THE BASEMENT AND MAIN FLOOR TO BE REFITTED WITH NEW AIR VALVE ASSEMBLY "V6".
- 11 EXISTING HONEYWELL OUTDOOR TEMPERATURE SENSOR TO BE REWIRED TO NEW BOILER CONTROLS, IF USABLE. RELOCATE SENSOR, IF REQUIRED.

LEGEND

- AHU2 AIR HANDLER UNIT (TRANE MODEL No. MCCB008) CW FILTER MODULE, HOT WATER & COOLING COIL MODULE & FAN MODULE. "AHU2" TO BE FULLY-FUNCTIONAL AS PER DESCRIPTION IN SEQUENCE OF OPERATION IN THE MECHANICAL SPECIFICATION.
AIRFLOW: 3500CFM
EXTERNAL STATIC PRESSURE: 1.5"H₂O
VOLTAGE: 200-208V/3PH
HOT WATER COIL
TOTAL CAPACITY: 220MBH
FLUID TYPE: WATER
ENTERING FLUID TEMP: 160°F
LEAVING FLUID TEMP: 150°F
STD FLUID FLOW RATE: 44 GPM
COOLING COIL
TOTAL CAPACITY: 133MBH
REFRIGERANT: R22
- CU2 CONDENSING UNIT, OUTDOOR(TRANE MODEL No.TTA120BW00)
COOLING CAPACITY: 10 TON
VOLTAGE: 208V/3PH.
- B2 LOW-TEMP. NATURAL GAS HOT WATER HEATING BOILER (VISSMANN VITOLA 200 MODEL No.VB2-63) CW
NATURAL GAS RIELLO BURNER (RVB263)
VISSMANN BOILER STAND (T13309)
VITOTRONIC 300 KW3 BOILER CONTROL 2001-051
T2 HONEYWELL AQUASTAT WITH WELL (L406A1009)
LV1 LOW-WATER CUT-OFF (McDONNELL-MILLER 64MCM)
(2) BRASS 3-WAY BALL VALVE (RED & WHITE 5045)
MIXING VALVES (WIRED TO EXISTING OUTDOOR TEMP. SENSOR)
MV1 (2) VISSMANN 1-1/4" 3-WAY MIXING VALVE (7133022)
MV2 (2) VISSMANN MIXING VALVE CONTROLLER WITH ACTUATOR KIT (7133392)
- CIRCULATION PUMP
P1 (2) GRUNDFOS CIRCULATION PUMP PREWIRED FOR VISSMANN CONTROL (UP26-99F)
V2 (2) CHECK VALVE, 1-1/4" #600 WATTS MAXI-FLO SCD BASEBOARD CONTROL
CV1 (4) VALVE BODY, DANFOSS 1-1/4" STRAIGHT (013G8032) CW OPER WIREMOUNT MOUNTED SENSOR & DIAL 6" 46" CAP (013G8564)
T4 ROOM THERMOSTAT, LED DISPLAY, WEEKDAY/WEEKEND SETBACK
- WHTR2 INDIRECT-FIRED HOT WATER 160 LITRES STORAGE TANK(VISSMANN VITOCELL-H 300, EHA-160)
P2 CIRCULATOR PUMP, BELL & GOSSETT (NRF-33) CW 1" CI FLANGES
V3 CHECK VALVE, 1" #600 WATT MAXI-FLO SCD
T3 (2) ANGLE THERMOMETER, WINTERS T150
TK3 POTABLE WATER EXPANSION TANK, HAMLET & GARNEAU HGTE-8
- AIR ELIMINATION SYSTEM
TK2 HYDRONIC EXPANSION TANK WITH STAND, H&G HGTV-60
AS1 1-1/4" BRASS AIR ELIMINATOR, SPIROVENT JUNIOR (VJR125TM)
1-1/2" BRASS AIR ELIMINATOR, SPIROVENT JUNIOR (VJR150TM)
(2) 1/2" QUICK AIR RELEASER, SPIROTOP (VTP050FT)
V6 (14) AIR VALVE ASSEMBLY, DOLE COIN #14A FOR BASEBOARD
- DIFFERENTIAL PRESSURE BYPASS VALVE FOR BASEBOARD LOOP
3/4" DIFFERENTIAL PRESSURE REGULATOR, HONEYWELL (D14M132)
- BALANCE DAMPER (SUPPLY & INSTALL)
- FIRE DAMPER (SUPPLY & INSTALL)
STATIC CURTAIN 1-1/2-HOUR HORIZONTAL
FUSIBLE LINK: UL LISTED 165 DEG. F
NCA MODEL FD-HB
- SUPPLY DUCT
- RETURN DUCT
- FLEX DUCT
- GRILLE TYPE (SEE GRILLE SCHEDULE)
SIZE
CFM
- M1 OUTSIDE AIR (O.A.) MOTORIZED DAMPER 14"x8". TO BE LINKED TO R/A DAMPER & OPERATE AS A ECONOMIZER. O.A. DAMPER TO BE SET AT 10% OUTSIDE AIR. (SUPPLY ALL COMPONENTS & CONTROLS TO ENABLE A FULLY FUNCTIONAL ECONOMIZER UNIT & INSTALL).
- M2 RETURN AIR (R.A.) MOTORIZED DAMPER 25"x16" (SUPPLY & INSTALL)
- HUMID. EXISTING HUMIDIFIER
- EXISTING EXHAUST FAN

GRILLE SCHEDULE		
TYPE	DESCRIPTION	MANUFACTURER
A	LOUVERED RETURN, EXTRUDED ALUMINUM 1/2" LOUVER SPACING	E.H. PRICE 60/70 SERIES
B	SQUARE PLAQUE DIFFUSER	E.H. PRICE 8"/24"x24"/SPD/B1/B2
C	EXTERIOR VENT HOOD, 10"x10" ALUMINUM	E.H. PRICE 80-FR/F/A
D	SAME SIZE AS ORIGINAL REPLACEMENT	E.H. PRICE 80-FR/F/A
E	T-BAR LAY-IN JET SLOT, 1" INSULATED x 48"	E.H. PRICE 48"/25"1210/1/23/B1/B2



SITE PLAN
SCALE: 1/32" = 1'-0"

NOTES:

1. THESE DRAWINGS SHALL NOT BE SCALED.
2. THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY ONESELF ALL DIMENSIONS, DATUM, AND DETAILED INFORMATION SHOWN ARE CORRECT.
3. THE CONTRACTOR IS TO REPORT ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
4. THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL OPENINGS THROUGH FLOORS, WALLS, AND CEILINGS FOR DUCT, PIPE & ELECTRICAL RISERS AND ALL OPENINGS NOT SHOWN ON DRAWINGS.
5. ALL OPENINGS THROUGH FIRE ASSEMBLIES ARE TO BE FIRE STOPPED AND SEALED WITH ULC APPROVED FIRE STOPPING TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION, AND PROVIDE A SMOKE-TIGHT BARRIER.
6. ALL PRODUCTS AND MATERIALS TO BE USED AND INSTALLED SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS & APPLICABLE CODES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND MAKE GOOD ALL EXISTING CONSTRUCTION AFFECTED BY THE REMOVAL OF ALL ITEMS FORMING THE PART OF THE RENOVATION WORK.
8. WHERE NEW FLOORING AND BASE IS TO BE INSTALLED IN EXISTING AREAS (REFER TO FLOOR PLAN AND ROOM SCHEDULE) THE EXISTING FLOORING SURFACE AND BASE MUST BE REMOVED, UNLESS OTHERWISE NOTED. ALL FLOOR SURFACES SHALL BE PREPARED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF NEW FLOOR.
9. WHERE PAINTING OF EXISTING WALLS IS INDICATED ON THE ROOM SCHEDULE, THESE WALLS MUST BE CLEANED OF ANY EXISTING WALL COVERING, PATCHED & PREPARED TO ACCEPT NEW MATERIAL, UNLESS OTHERWISE NOTED.

NO.	REVISION/DESCRIPTION	BY	DATE

SEALS

ORIGINAL STAMPED BY: DOUG PALEY, P.ENG.
DATE: 20040825

DRAWN BY	CHECKED BY	APPROVED
DTA	USER	APPROVAL

CITY OF WINNIPEG
PLANNING, PROPERTY & DEVELOPMENT DEPARTMENT
CIVIC ACCOMMODATIONS DIVISION
300 - 65 GARRY ST. R3C 4K4

PROJECT
**COMMUNITY COMMITTEE OFFICE
HEATING SYSTEM UPGRADE**

300 ASSINIBOINE AVENUE
SHEET TITLE

**BASEMENT FLOOR PLAN
MECHANICAL
DEMOLITION & RENOVATION**

SCALE	PROJECT NO.	SHEET NO.
AS SHOWN	2004-049	M1