

PLOT DATE: November 25, 2014 TIME: 1:17 PM FULL PATH AND FILENAME: U:\KEVIN\ORCMR\RCMP-SPEC.DWG PLOTSYLE TABLE: Ingenium.ctb

MECHANICAL SPECIFICATIONS

1. PRE-CONSTRUCTION AIR/WATER FLOW SYSTEM CLEANING / VERIFICATION: (REFER TO EXISTING HEATING WATER SCHEMATIC W-M104).
  - 1.1. HIRE A QUALIFIED AIR/WATER BALANCER TO VERIFY THE FOLLOWING INFORMATION:
    - 1.1.1. PUMPS P1&P2: MODEL NO, MAKE, FLOW AND TOTAL HEAD.
    - 1.1.2. REHEAT COILS RH-1 TO RH-5: FLOW, SUPPLY & RETURN TEMP, LIQUID PRESSURE DROP, AIR STATIC PRESSURE DROP.
    - 1.1.3. HRV-1 TO HRV-5: AIR FLOWS AND EXTERNAL STATIC PRESSURE, INLET AND OUTLET TEMPERATURE.
    - 1.1.4. BOILER B1&B2: HEAT TRANSFER RATE, FLUID FLOW RATE, ENTERING AND LEAVING TEMPERATURES, FLUID PRESSURE DROP.
    - 1.1.5. EXPANSION TANK: SIZE, CAPACITY, PRESSURE RATING, PRESSURE REDUCING VALVE SETTING AND PRESSURE RELIEF VALVE SETTING.
  - 1.2. AIR BALANCER IS REQUIRED TO CLEAN AND SERVICE ITEMS 2 AND 3 AS REQUIRED.
  - 1.3. PROVIDE A REPORT FOR AIR/WATER FLOW VERIFICATION AND OTHER FINDINGS FOR REVIEW OF THE ENGINEER.
2. GENERAL
  - 2.1. SUPPLY AND INSTALL ALL ARTICLES, ITEMS, AND MATERIALS AND SUPPLY ALL LABOUR EQUIPMENT, MATERIALS AND TOOLS NECESSARY TO COMPLETE THE SYSTEMS SHOWN ON THE DRAWINGS, RENDERING EACH A COMPLETE AND FUNCTIONAL INSTALLATION.
  - 2.2. VISIT AND INSPECT THE SITE, REVIEW OTHER TRADES DRAWINGS. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
  - 2.3. BE RESPONSIBLE FOR CARE OF THE BUILDING. CLEAN UP ALL DEBRIS ON A DAILY BASIS AND UPON COMPLETION OF YOUR WORK.
  - 2.4. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND WITH THE APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION.
  - 2.5. THE MECHANICAL DRAWINGS ARE GENERALLY SCHEMATIC AND INDICATE INTENDED OVERALL ARRANGEMENT. EXACT LOCATIONS SHALL SUIT FINAL LAYOUTS AND SITE CONDITIONS.
  - 2.6. PROVIDE A CERTIFICATE OF WARRANTY OF WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM DATE OF ACCEPTANCE.
  - 2.7. SUBMIT ONE ELECTRONIC COPY OF SHOP DRAWINGS FOR REVIEW OF ALL EQUIPMENT. CONSULTANT'S REVIEW IS FOR ARRANGEMENT ONLY. CERTIFY THAT SHOP DRAWINGS HAVE BEEN REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO CONSULTANT FOR REVIEW.
  - 2.8. ABIDE BY THE REQUIREMENTS OF THE RECOMMENDED STANDARDS OF THE CANADIAN STANDARDS ASSOCIATION, LOCAL FIRE AUTHORITY, THE LOCAL BUILDING/PLANNING DEPARTMENT, AND THE BUILDING CODE. SINCE THERE MAY HAVE BEEN RECENT CHANGES IN THE REQUIREMENTS OF THESE AUTHORITIES, ABIDE BY ALL RULES THAT ARE CURRENTLY IN FORCE.
  - 2.9. SUBMIT DRAWINGS AND SPECIFICATIONS TO ALL AUTHORITIES AND OBTAIN APPROVAL BEFORE COMMENCING ANY WORK.
  - 2.10. PAY FOR FEES AND CHARGES LEVIED BY THE MUNICIPALITY, UTILITIES AND OTHER GOVERNING AUTHORITY FOR PERMITS, INSPECTIONS AND CERTIFICATES, AND WORK PERFORMED BY THE MUNICIPALITY OR UTILITIES IN CONNECTION WITH THE MECHANICAL WORK. ARRANGE AND CO ORDINATE SUCH WORK AND OBTAIN PERMITS.
  - 2.11. KEEP A COPY OF ALL SUCH PERMITS AND CERTIFICATES ON THE JOB SITE DURING THE PROJECT DURATION.
  - 2.12. MAINTAIN A SET OF WHITE PRINTS MARKED UP "AS BUILT CONDITION" ON SITE, UPDATED ON AN ONGOING BASIS THROUGHOUT THE COURSE OF THE PROJECT. PURCHASE, FROM THE CONSULTANT, SET OF CADD FILES OF THE MECHANICAL CONTRACT DRAWINGS AND TRANSFER ALL INFORMATION ONTO THE CADD DRAWINGS. HAND OVER 2 SETS OF WHITE PRINTS AND CD WITH CADD FILES SHOWING THE "AS BUILT" CONDITION TO THE CONSULTANT FOR FINAL REVIEW PRIOR TO FINAL INSPECTIONS.
  - 2.13. SUPPLY AND INSTALL ALL SUPPORTS, SLEEVES, HANGERS AND THE LIKE FOR THIS WORK.
  - 2.14. ALL ELECTRICALLY OPERATED ITEMS SHALL CONFORM TO CSA REQUIREMENTS AND BEAR CSA LABEL.
  - 2.15. INSTALL ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS WITH ADEQUATE ACCESS.
  - 2.16. FILL VOIDS BETWEEN PIPES AND SLEEVES WITH MATERIALS AND CAULKING SEALANTS TO SUIT THE APPLICATION AND FIRE RATING.
  - 2.17. PERFORM CUTTING AND PATCHING OF EXISTING BUILDING FOR THE INSTALLATION OF MECHANICAL WORKS. PERFORM ALL CUTTING IN A NEAT AND TRUE FASHION, WITH PROPER TOOLS AND EQUIPMENT TO OWNER'S AND CONSULTANT'S APPROVAL. PATCHING SHALL, WHERE REQUIRED, EXACTLY MATCH EXISTING FINISHES AND BE DONE BY TRADESMEN SKILLED IN THE PARTICULAR TRADE OR APPLICATION TO THE ENGINEER'S AND OWNER'S APPROVAL. CO ORDINATE ALL WORK TO MINIMIZE AMOUNT OF CUTTING AND PATCHING REQUIRED. NOTE THAT YOU WILL BE RESPONSIBLE FOR DAMAGE DONE TO EXISTING BUILDING AND SERVICES CAUSED BY CUTTING AND PATCHING.
  - 2.18. PROVIDE A COMPLETE BREAKDOWN OF MATERIALS, EQUIPMENT AND LABOUR COSTS WITH EACH SUBMISSION FOR EXTRA OR DELETED WORK.
  - 2.19. SUBMIT ONE SET OF OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT SUPPLIED ON COMPLETION OF WORK. MANUALS SHALL BE IN 3-RING BINDERS WITH PROJECT NAME PRINTED ON COVER. INCLUDE ALL SHOP DRAWINGS OF EQUIPMENT SUPPLIED WITH MANUALS.
  - 2.20. ALTERNATE EQUIPMENT MAY BE PROPOSED PRIOR TO COMMENCEMENT OF WORK PROVIDING THE QUALITY AND PERFORMANCE CHARACTERISTICS ARE EQUAL TO THE SPECIFIED PRODUCTS. THE USE OF ALTERNATE EQUIPMENT IS SUBJECT TO THE APPROVAL OF THE ENGINEER AND ARCHITECT AND ON SATISFACTORY SUBMISSION OF DETAILED SHOP DRAWINGS.
  - 2.21. ASSUME RESPONSIBILITY AND PAY FOR ANY ADDITIONAL INSTALLATION COSTS INCURRED BY ALL DIVISIONS RESULTING FROM THE ALTERNATES AND/OR SUBSTITUTIONS, MAKE REVISIONS TO RECORD DRAWINGS INCORPORATING ALL ALTERNATES AND/OR SUBSTITUTIONS AND ALL RELATED CHANGES.
3. HVAC SYSTEM
  - 3.1. ALL DUCTWORK AND HANGERS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST ASHRAE AND SMACNA RECOMMENDATIONS AND STANDARDS. ALL DUCTWORK SHALL BE SEALED.
  - 3.2. NOTE THAT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. WHERE ACOUSTIC INSULATION IS INSTALLED, INCREASE DIMENSIONS ACCORDINGLY.
  - 3.3. PROVIDE 1" (25MM) ACOUSTIC INSULATION (4.5 LB./FT<sup>3</sup>, 72 KG/M<sup>3</sup> DENSITY, NEOPRENE FACED FIBREGLASS DUCT LINER) FOR NEW SUPPLY, AND RETURN DUCTWORK FOR A MINIMUM OF 12 FEET FROM UNIT OR WHERE INDICATED.
  - 3.4. GRILLES & DIFFUSERS SHALL BE STANDARD RESIDENTIAL GRADE, SUBJECT TO APPROVAL BY ARCHITECT AND ENGINEER.
  - 3.5. COORDINATE FINAL LOCATION OF SUPPLY AIR DIFFUSERS AND REGISTERS & RETURN AND EXHAUST AIR GRILLES WITH ARCHITECTURAL PLANS.
4. HYDRONIC FAN COIL INSTALLATION
  - 4.1. PROVIDE ONE NEW HYDRONIC HEATING DUCTED FAN COIL TO SERVE EACH DOG UNIT. LOCATE FAN COIL IN ATTIC SPACE ABOVE UNIT C/W VIBRATION ISOLATION.
  - 4.2. FAN COIL TO BE COMPLETE WITH FOIL FACED INSULATION, 3 SPEED SWITCH WITH OFF POSITION, INTEGRAL TOGGLE DISCONNECT SWITCH, MAIN FUSING, BOTTOM HINGED ELECTRICAL ENCLOSURE & 1" PLEATED MERV & FILTER.
  - 4.3. PROVIDE ACOUSTICALLY LINED INLET AND DISCHARGE DUCTWORK, AND CUT IN NEW SUPPLY AND RETURN GRILLES, SIZE DUCTWORK AND GRILLES FOR ADEQUATE THROW AND COVERAGE, MAINTAINING LOW NOISE IN SPACE.
  - 4.4. PROVIDE ONE NEW WALL-MOUNT THERMOSTAT, HONEYWELL MODEL T775A2009 COMPLETE WITH REMOTE WATER PROOF SENSOR T775-SENS-OAT FOR EACH FAN COIL UNIT; CONTROL HEATING COIL OF FAN COIL FROM THIS THERMOSTAT.
  - 4.5. FURNISH AND INSTALL ENVIRO-TECH MODEL HLP 30 HORIZONTAL CONCEALED DIRECT DRIVE FAN COIL UNITS WHERE INDICATED ON THE PLANS AND IN THE SPECIFICATIONS.
  - 4.6. UNITS SHALL BE COMPLETELY FACTORY ASSEMBLED, TESTED AND SHIPPED AS ONE PIECE.
  - 4.7. ALL UNITS SHALL BE CAPABLE OF MEETING OR EXCEEDING THE SCHEDULED CAPACITIES HEATING AND AIR DELIVERY.
  - 4.8. ALL UNIT DIMENSIONS FOR EACH MODEL AND SIZE SHALL BE CONSIDERED MAXIMUMS. UNITS SHALL BE ETL LISTED IN COMPLIANCE WITH UL/ANSI STANDARD 1995, AND BE CERTIFIED AS COMPLYING WITH THE LATEST EDITION OF ARI STANDARD 440.
  - 4.9. ALL CONCEALED UNITS SHALL HAVE A MINIMUM 1-1/2" DUCT COLLAR ON THE DISCHARGE. PLENUM AND EXPOSED UNITS SHALL HAVE A MINIMUM 3/4" DUCT COLLAR PM THE RETURN.
  - 4.10. ALL EXPOSED UNITS SHALL HAVE EXTERIOR PANELS FABRICATED OF GALVANNEALED STEEL. THE FAN AND FILTER BOTTOM ACCESS PANEL SHALL BE ATTACHED WITH QUARTER TURN QUICK OPEN FASTENERS TO ALLOW FOR EASY REMOVAL AND ACCESS FOR SERVICE.
  - 4.11. PROVIDE APPROPRIATE VIBRATION ISOLATORS TO MINIMIZE NOISE & VIBRATION TRANSFER FROM FAN COIL UNITS.

- 4.12. PROVIDE A STANDARD FACTORY ASSEMBLED VALVE PIPING PACKAGE TO CONSIST OF A 2 OR 3 WAY, ON /OFF, MOTORIZED ELECTRIC CONTROL VALVE AND TWO BALL ISOLATION VALVES.
- 4.13. CONTROL VALVES ARE PIPED NORMALLY CLOSED TO THE COIL, MAXIMUM ENTERING WATER TEMPERATURE 200F, AND MAXIMUM CLOSE-OFF PRESSURE IS 40PSIG (1/2") OR 40 PSIG (3/4")
5. CONTROLS
  - 5.1. PROVIDE ALL CONTROLS AND WIRING INCLUDING APPURTENANCES NECESSARY FOR COMPLETE AND OPERATING SYSTEM.
  - 5.2. PROVIDE NEW THERMOSTATS WHERE SHOWN ON DRAWING; COORDINATE PLACEMENT WITH ARCHITECTURAL.
  - 5.3. MOUNT THERMOSTATS AT 5'-6" ABOVE FINISHED FLOOR, NOT ABOVE SWITCHES OR IN DOWN LIGHT BEAMS.
6. PLUMBING SYSTEM
  - 6.1. PROVIDE DI ELECTRIC COUPLINGS/UNION UNIONS WHERE COPPER PIPING CONNECTS TO FERROUS METAL AND PLUMBING EQUIPMENT SUCH AS STEEL STORAGE TANKS, PRVS AND /OR STEEL, BLACK IRON, CAST IRON OR GALVANIZED IRON PIPING.
  - 6.2. PROVIDE ACCESS DOORS FOR ALL PLUMBING EQUIPMENT, VALVES WHERE INDICATED AND /OR REQUIRED. SIZE OF ACCESS DOORS SHALL BE NO SMALLER THAN 300MMX300MM (12"X12").
  - 6.3. PROVIDE SLEEVES FOR ALL NEW PIPING THROUGH EXISTING SLAB, BEAMS, WALLS, ETC. OBTAIN BASE BUILDING STRUCTURAL ENGINEER'S APPROVAL PRIOR TO COMMENCEMENT OF WORK.
  - 6.4. ROUTE NEW HEATING WATER SUPPLY AND RETURN LINES FROM THE BOILER TO EACH NEW FAN COIL; CUT IN NEW BRANCHES AT BOILER ROOM HEADER, RUN INSULATED AND JACKETED PIPES IN ATTIC SPACE, PROVIDE MODULATING CONTROL VALVE ALONG WITH ISOLATION AND BALANCING VALVES IN ACCESSIBLE SPACE.
  - 6.5. PROVIDE 1" (25MM) THERMAL INSULATION FORMED FINE FIBEROUS GLASS OR MINERAL FIBER PIPE INSULATION, WITH FACTORY APPLIED GENERAL PURPOSE JACKET, FACTORY MOULDED TO CONFIRM TO PIPING, "K" VALUE MAXIMUM 0.00169 BTU/IN.HOUR'F AT 24'C.

DATE	ISSUED FOR	REV
2014-09-12	60% REVIEW	1
2014-11-12	90% REVIEW	2
2014-11-25	TENDER	3

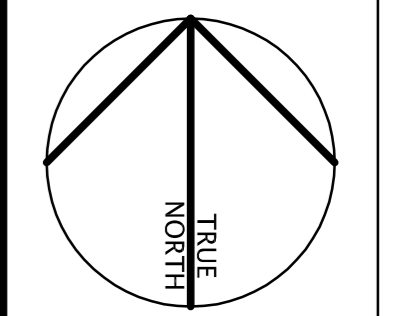
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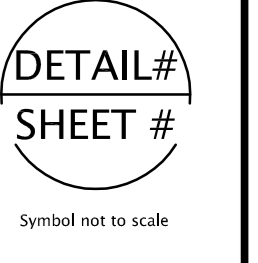
Project Component

Keyplan

North Arrow



Detail Symbol



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 221-10 Ave SE,  
 Suite 100,  
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 A. Silvio Babinzani, Architect, AIA, R.Arch, M.Arch.

Project Manager	Drawn
K. SCOTT	N.ALY
Project Leader	Checked
A. REEDS	M.ALVIRI

Client

RCMP PDSTC

Project

INNISFAIL DOG TRAINING CENTRE WHELPING PODS  
 INNISFAIL, AB

Drawing Title

MECHANICAL SPECIFICATIONS

Check Scale (may be photo reduced)  
 0 1inch 0 10mm

Project No. NCCA-14-0074

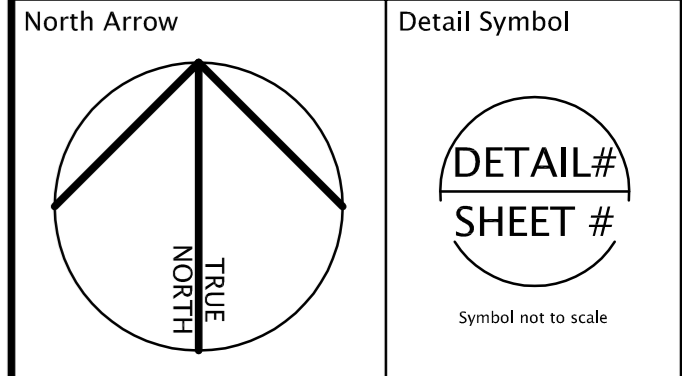
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Project Component  
Keyplan



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Project Manager  
K. SCOTT  
Project Leader  
A. REEDS

Drawn  
N.ALY  
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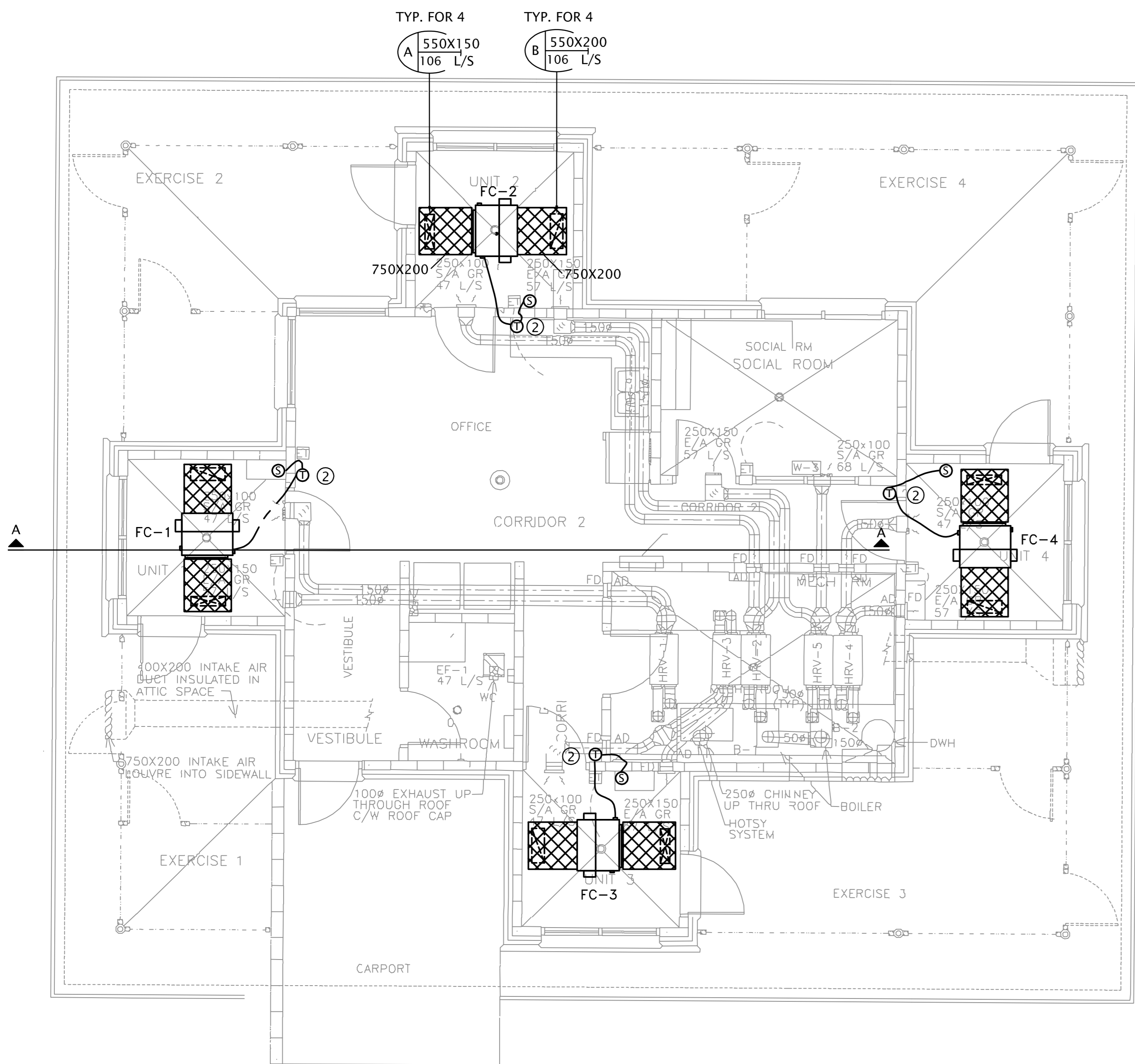
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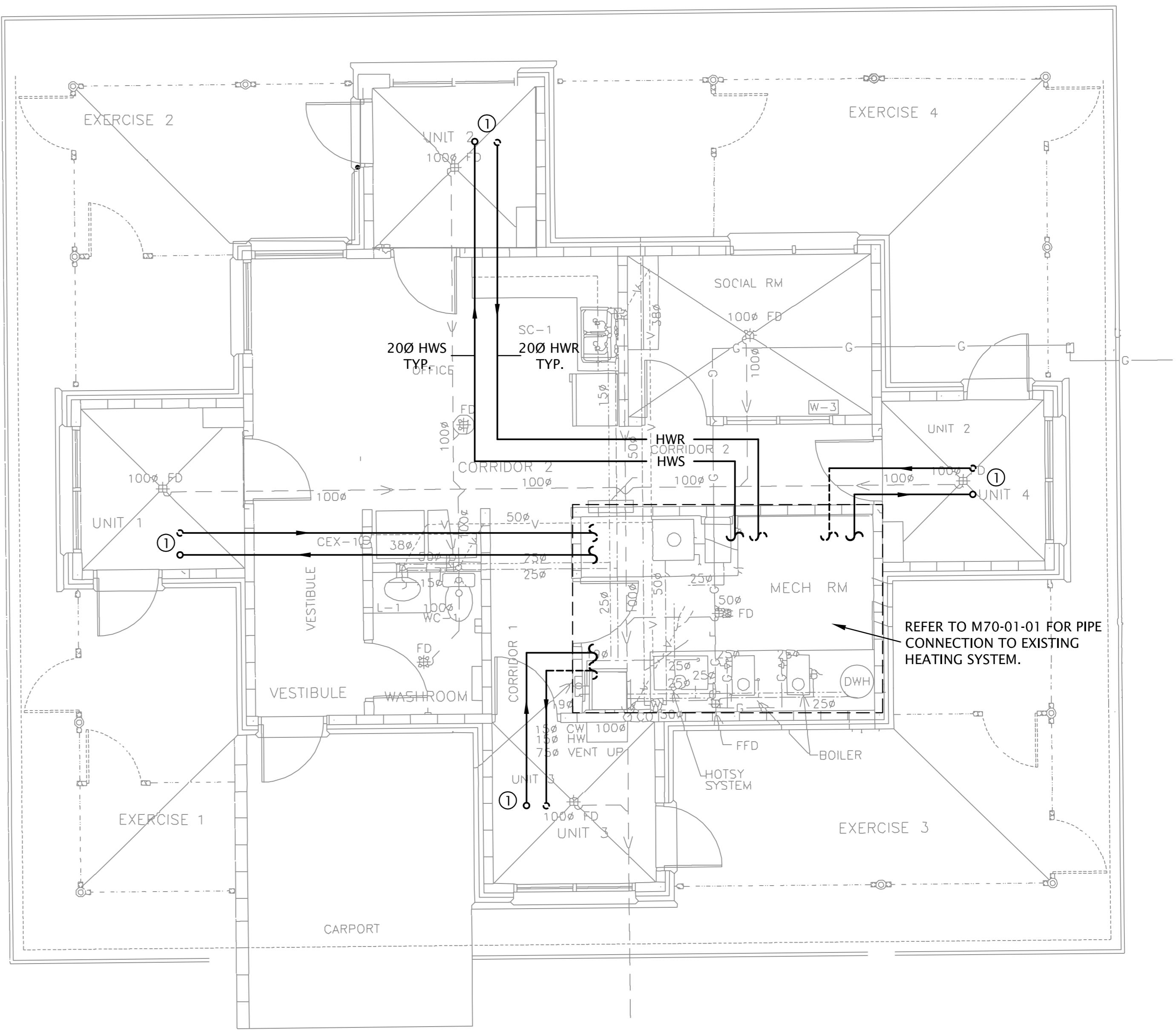
Drawing Title  
**FLOOR PLAN MECHANICAL LAYOUT**

Check Scale (may be photo reduced)  
0 1 inch 0 10mm

Project No. NCCA-14-0074  
Drawing No. M50-01-01



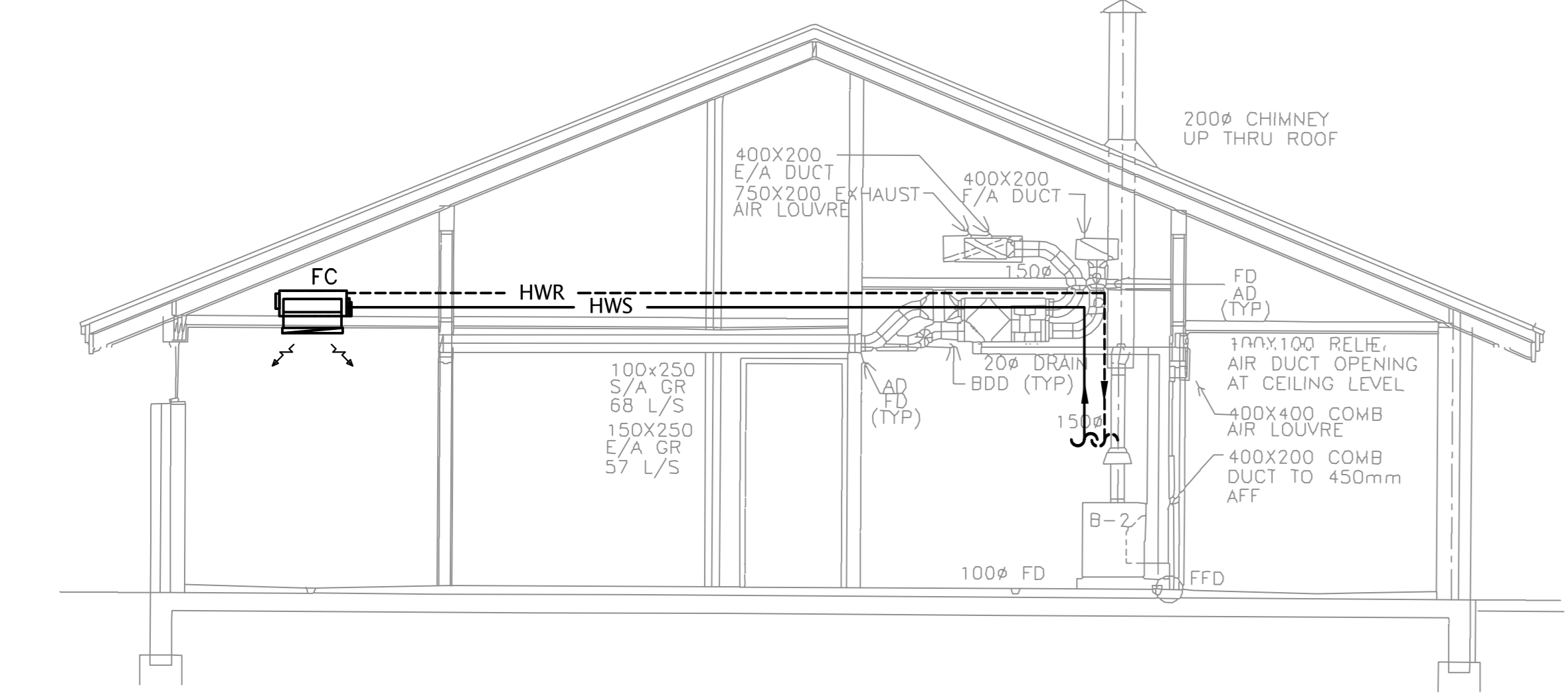
1 FLOOR PLAN: HVAC LAYOUT  
M50-01-01 1:50



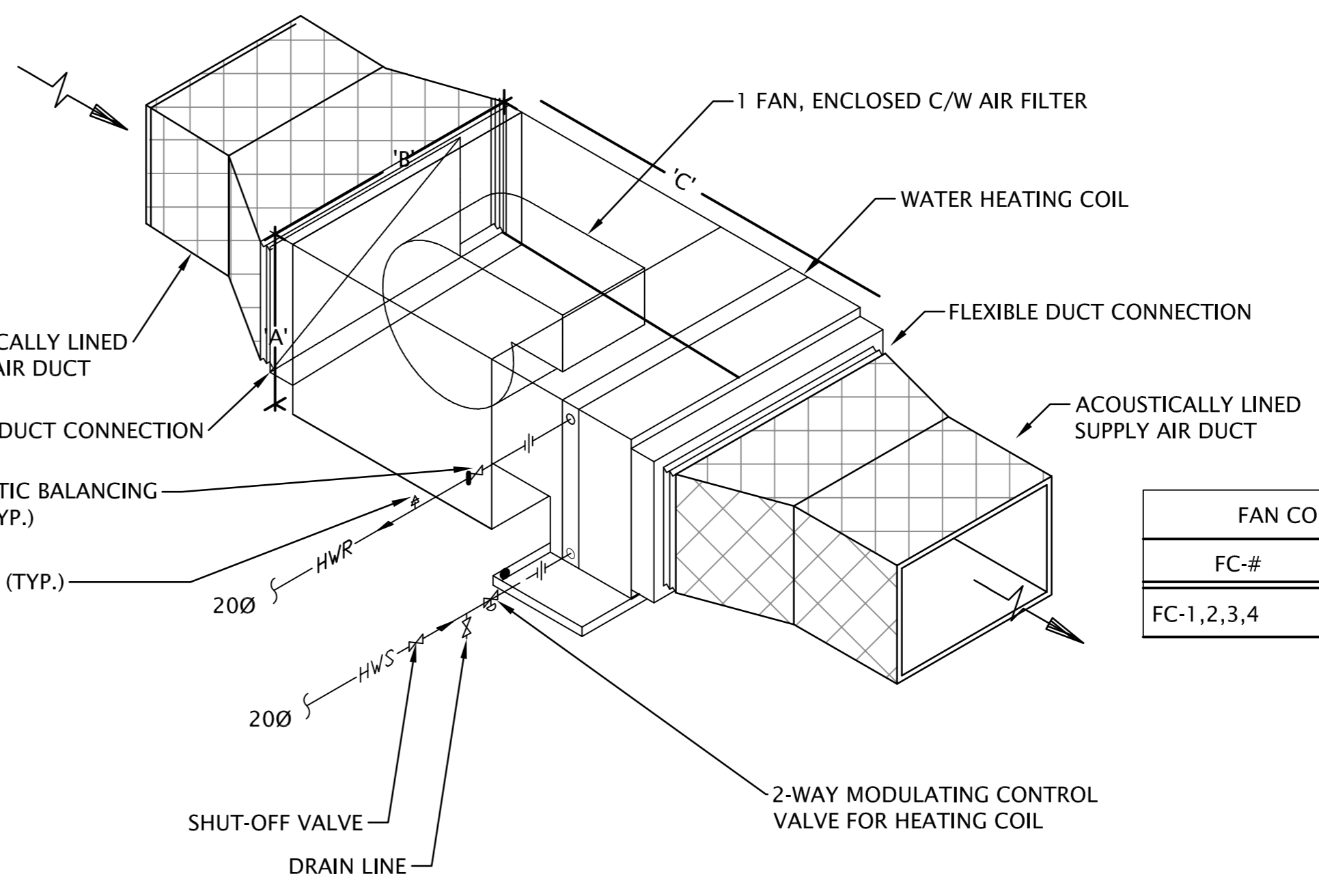
2 FLOOR PLAN: HEATING PIPING LAYOUT  
M50-01-01 1:50

NOTES:  
1. VERIFICATION OF ROOF FRAMING IE PRE-ENGINEERED TRUSSES OR STICK FRAMING IS REQUIRED PRIOR TO CONSTRUCTION FOR INSTALLATION OF FAN COIL UNITS. STRUCTURAL CONSULTANT TO REVIEW AND PROVIDE RECOMMENDATIONS PRIOR TO INSTALLATION.

KEY NOTES:  
1. CONNECT NEW HWS, HWR TO FAN COILS REFERS TO 1/M50-01-01  
2. PROVIDE WATER PROOF, SURFACE MOUNT SENSOR C/W REMOTE THERMOSTAT.



3 SECTION A-A  
M50-01-01 1:50



4 FAN COIL - PIPING & CONTROL SCHEMATIC  
M50-01-01 NTS

FAN COIL DIMENSIONS			
FC-#	'A'	'B'	'C'
FC-1,2,3,4	254	813	1016

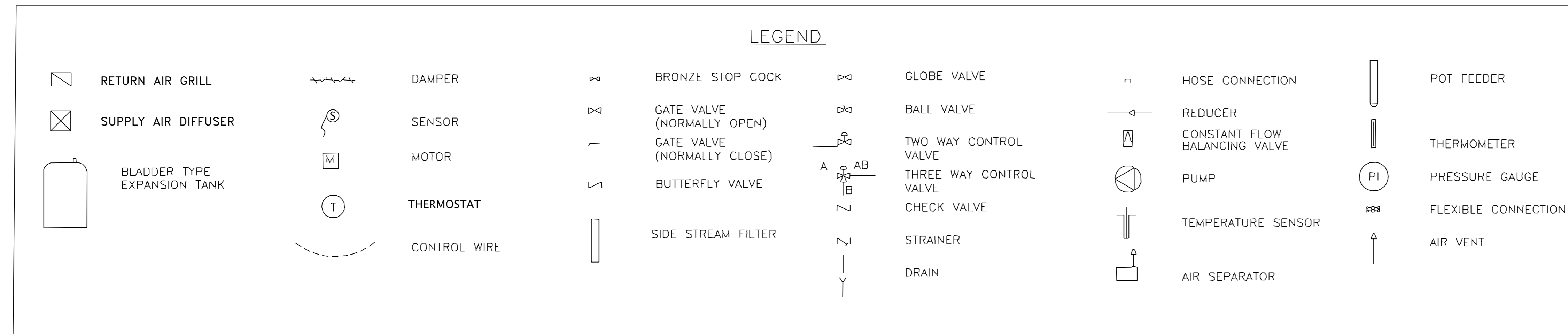
FAN COIL SCHEDULE													
TAG	SERVICE	MANUF. AND MODEL	HEATING CAPACITY (KW)	AIR FLOW (L/S)	EXT. SP (PA)	ENT. AIR TEMP (C)	LVG. AIR TEMP (C)	WATER FLOW (L/S)	ENT FLUID (C)	LVG. FLUID (C)	V/P/HZ	FLA	NOTES
FC-1	UNIT 1	ENVIRO TEC - HLP 30	3.3	106	50	21	49	0.08	93	82	115/1/60	1.6	1 TO 7
FC-2	UNIT 2	ENVIRO TEC - HLP 30	3.3	106	50	21	49	0.08	93	82	115/1/60	1.6	
FC-3	UNIT 3	ENVIRO TEC - HLP 30	3.3	106	50	21	49	0.08	93	82	115/1/60	1.6	
FC-4	UNIT 4	ENVIRO TEC - HLP 30	3.3	106	50	21	49	0.08	93	82	115/1/60	1.6	

NOTES:  
 1. 50% PROPYLENE GLYCOL.  
 2. FOIL FACED INSULATION.  
 3. 3 SPEED, UNIT SELECTION AT LOW SPEED.  
 4. INTEGRAL DISCONNECT SWITCH.  
 5. BOTTOM HINGED ELECTRICAL ENCLOSURE.  
 6. 25MM PLEATED MERVS FILTER.  
 7. MAX NOISE LEVEL FOR BARE UNIT 53 DB ( BAND 2, FREQUENCY 125).

GRILL AND DIFFUSER SCHEDULE			
TAG	MANUF. AND MODEL/SERIES	TYPE	NOTES
A	PRICE - 500 SERIES	450X200/520/F/L/A/B12	
B	PRICE - 500 SERIES	600X200/530/F/L/A/B12	

PLOT DATE: November 25, 2014, TIME: 4:02 PM, FULL PATH AND FILENAME: U:\KEVIN Q\RCMP\RCMP-MECH-FLOOR-PLAN.DWG, PLOT STYLE TABLE: Ingenium.ctb

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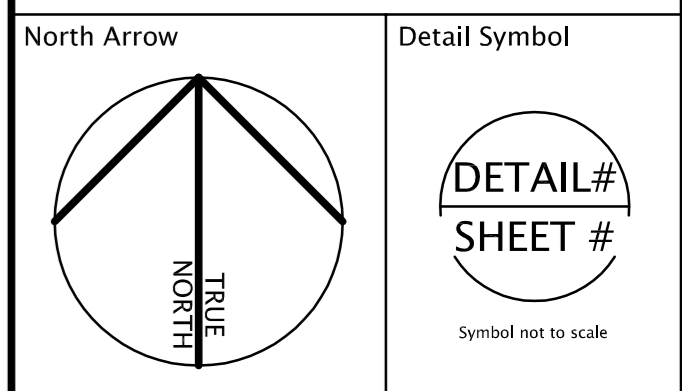


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Project Component

Keyplan



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Project Leader A. REEDS	Checked M.ALVIRI

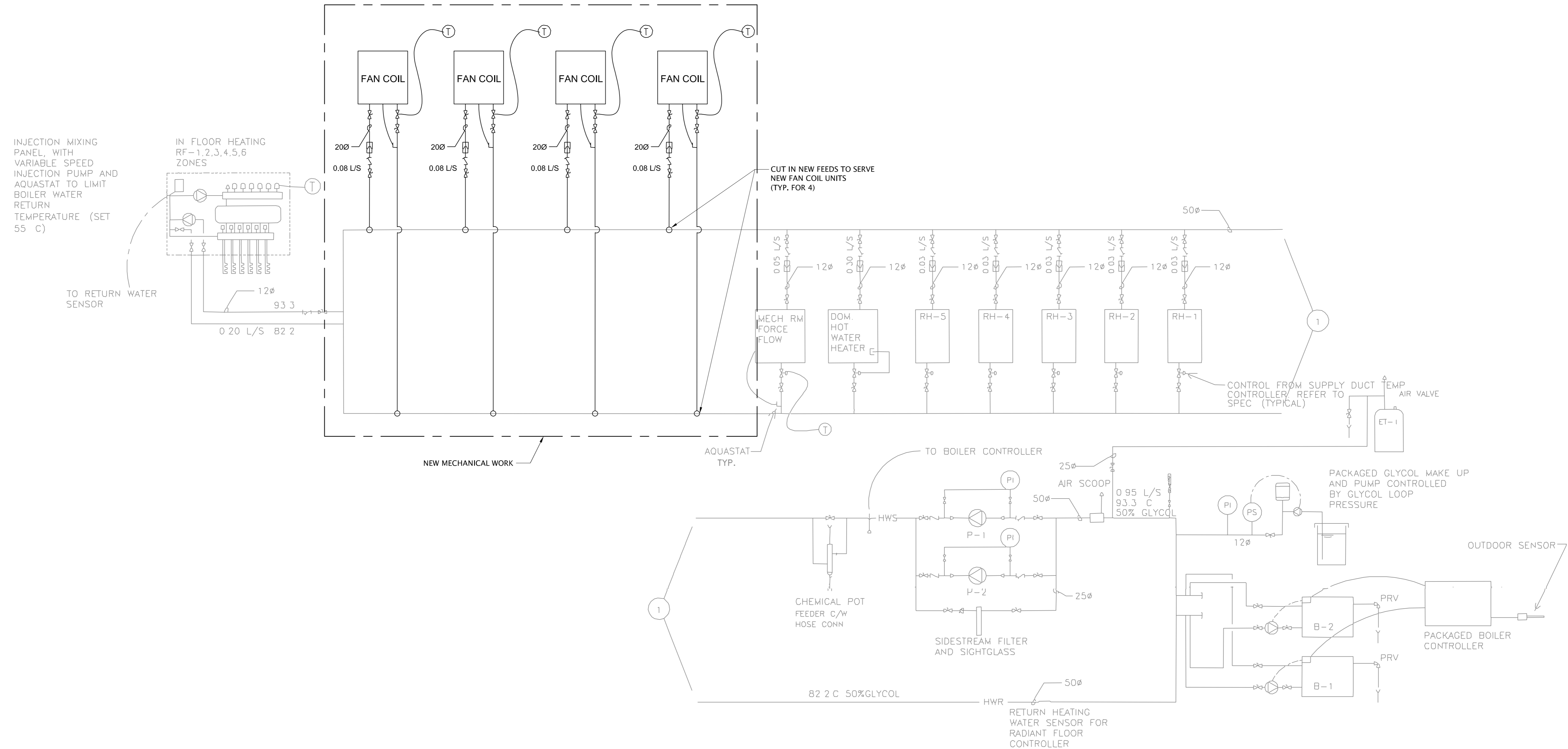
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INNISFAIL DOG TRAINING CENTRE WHELPING PODS  
INNISFAIL, AB

Drawing Title  
HVAC SCHEMATIC

Check Scale (may be photo reduced)  
0 1 inch 0 10mm

Project No. NCCA-14-0074  
 Drawing No. M70-01-01



**1 HEATING WATER SYSTEM SCHEMATIC**  
 M70-01-01 NTS

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