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T: 603 643 2002 P Petersen Engineering, Inc. 228 0423 mouth, NH 03802 603 436 4233 T 603 436 4294 F

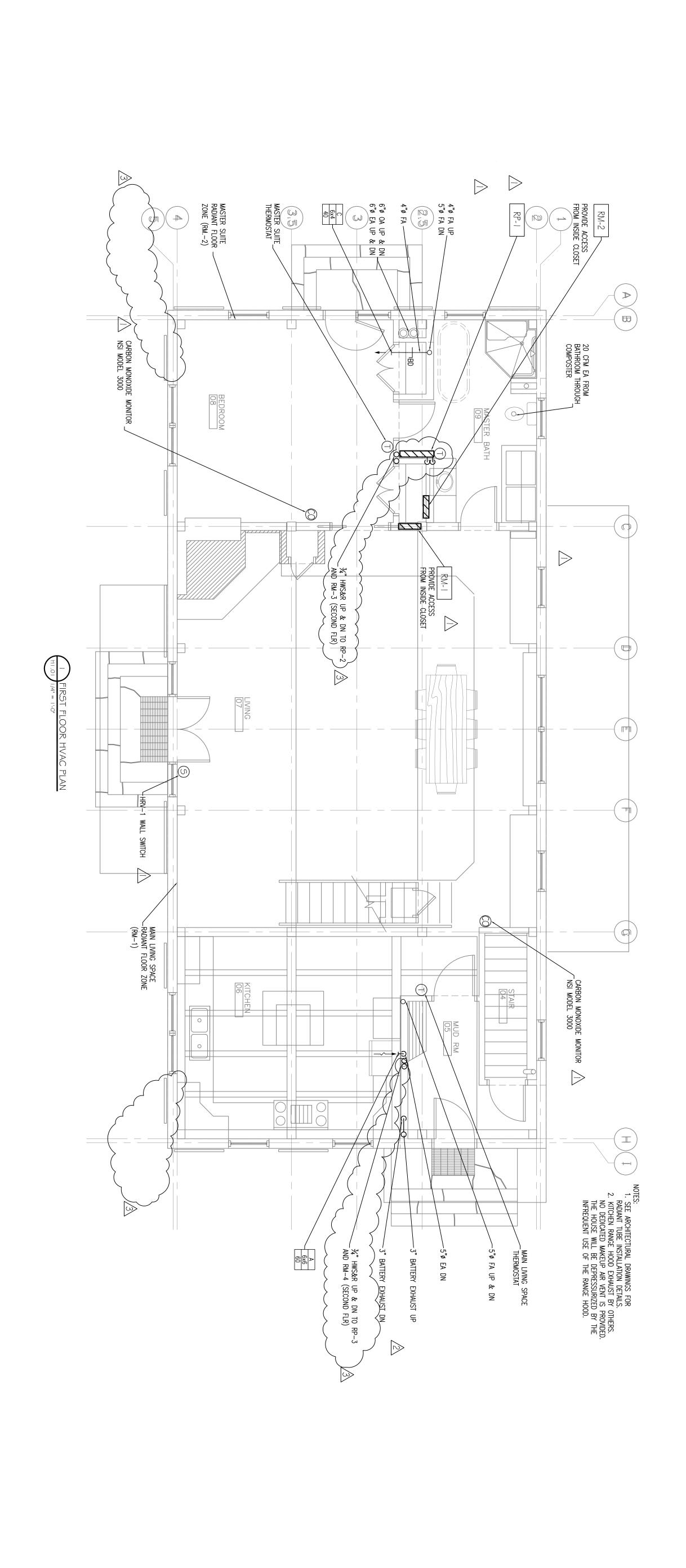
GREEN WOODLANDS BARN/HOUSE PROJECT

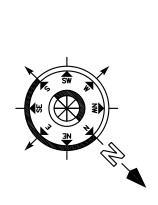
DRAWING TITLE: CONSTRUCTION DOCUMENTS

BASEMENT HVAC PLAN

07/31/06

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GREEN WOODLANDS BARN/HOUSE PROJECT

FIRST FLOOR HVAC PLAN

570 DATE:

07/31/06

CONSTRUCTION DOCUMENTS

REVISION DATE COMMENTS

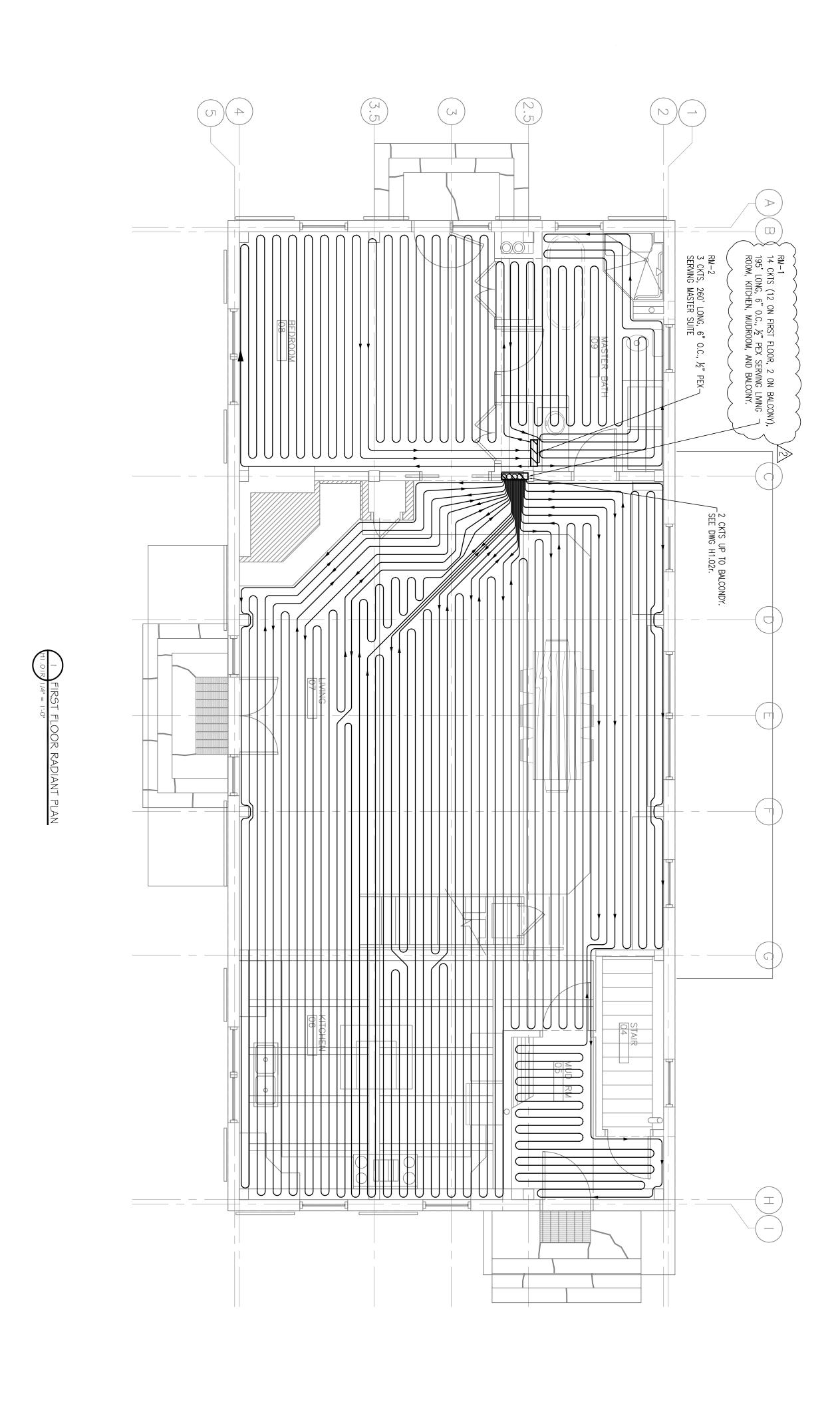
1 8/31/06 ADDENDUM #1
2 9/28/06 ADDENDUM #2
3 12/1/06 ADDENDUM #3

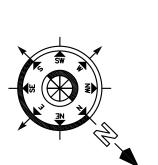
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P Fetersen Engineering, Inc.

Building Mechanical Systems Consultar





GREEN WOODLANDS BARN/HOUSE PROJECT

FIRST FLOOR RADIANT PLAN

CONSTRUCTION DOCUMENTS

PROJECT NO: 570 DATE: SHEET NUMBER:

07/31/06

KEY PLAN: 8/31/06 12/1/06 COMMENTS
ADDENDUM #1
ADDENDUM #3

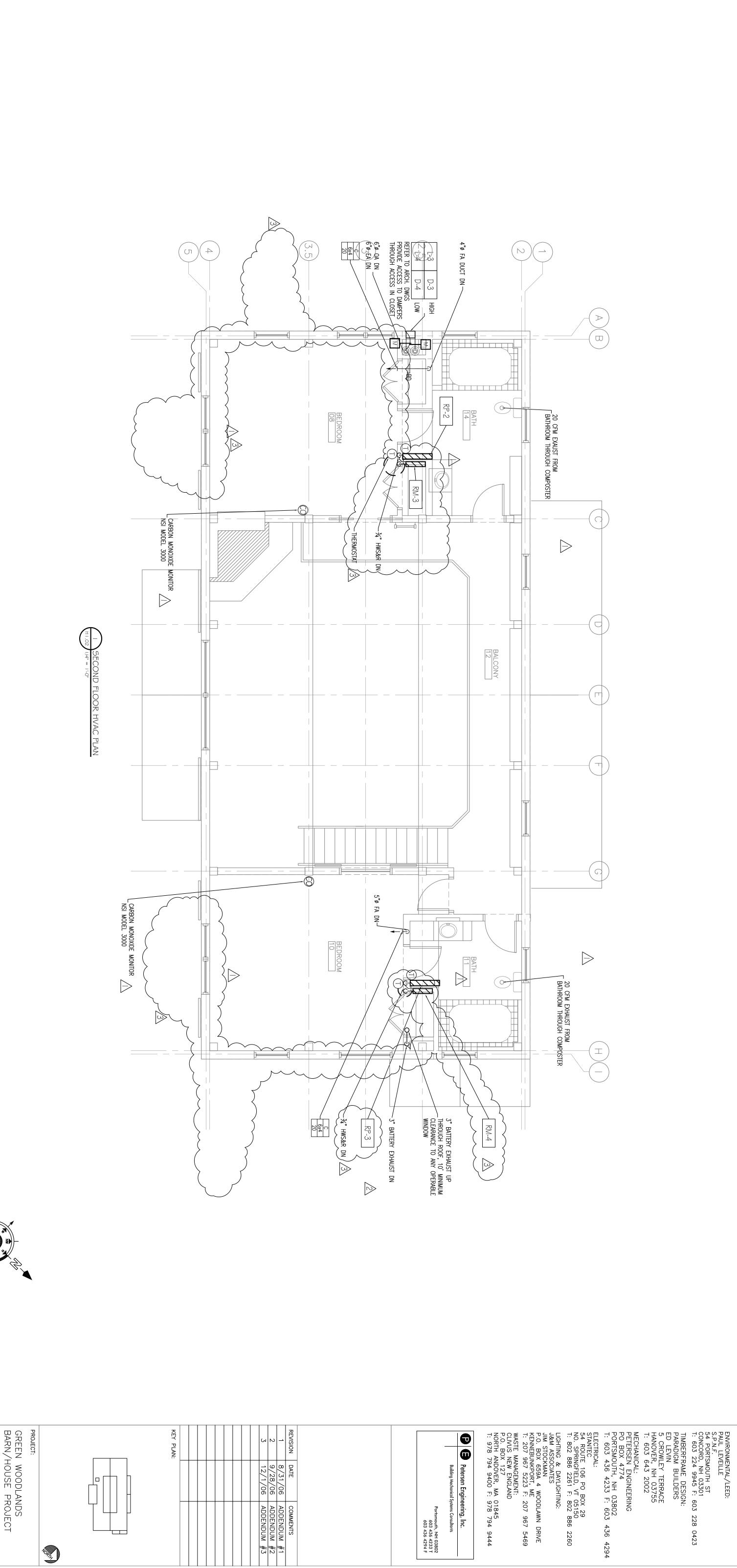
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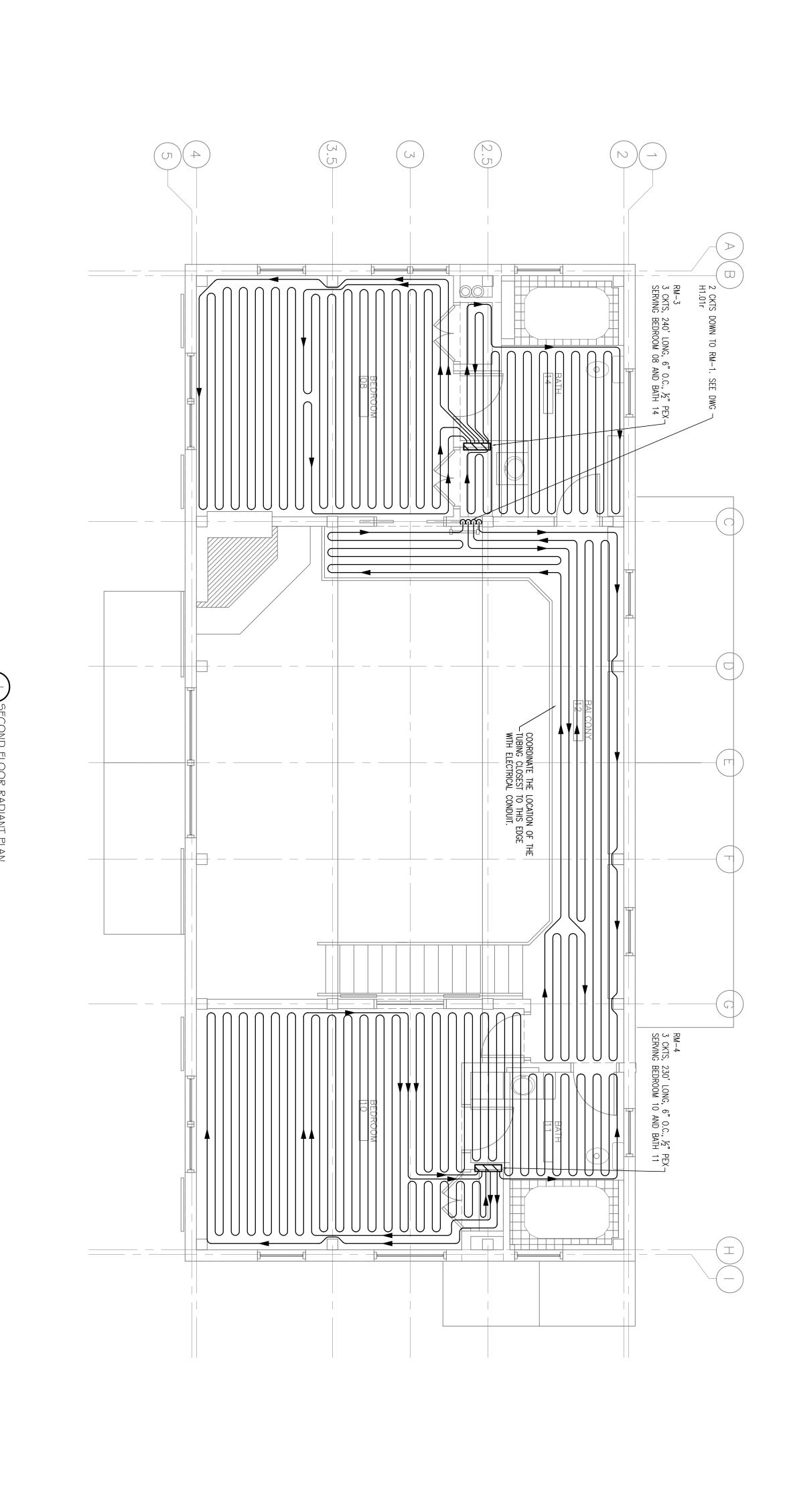
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SECOND FLOOR HVAC PLAN

570 DATE:

07/31/06

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Building Mechanical Systems Consultar mouth, NH 03802 603 436 4233 T 603 436 4294 F

KEY PLAN:

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12/1/06

SECOND FLOOR RADIANT PLAN

CONSTRUCTION DOCUMENTS

GREEN WOODLANDS BARN/HOUSE PROJECT

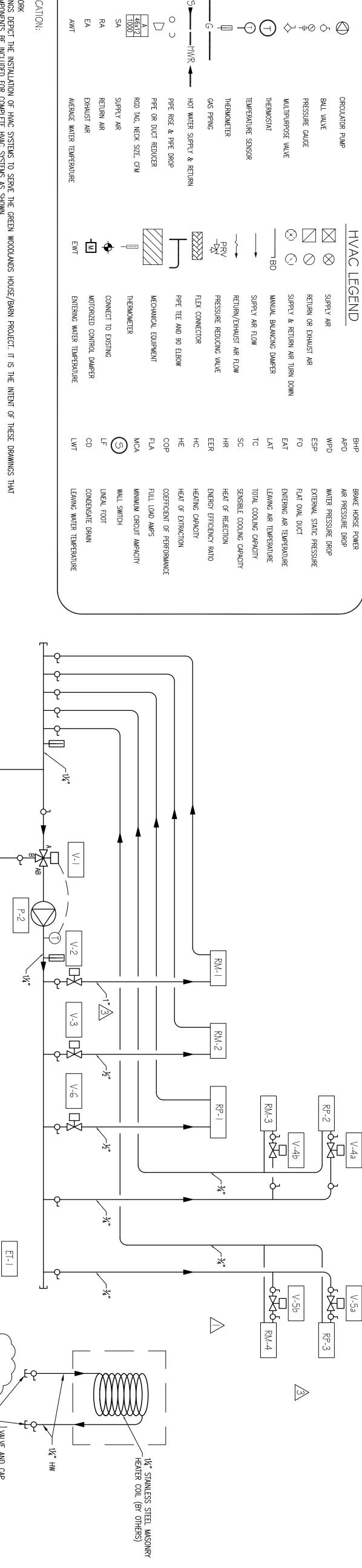
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GENERAL SPECIFICATION:

1. SUMMARY OF WORK

THESE DRAWINGS DEPICT THE INSTALLATION OF HVAC SYSTEMS TO SERVE THE GREEN WOODLANDS HOUSE/BARN PROJECT. IT IS THE INTENT OF THESE DRAWINGS THAT ALL NECESSARY COMPONENTS BE INCLUDED FOR COMPLETE HVAC SYSTEMS AS SHOWN.

2. COMPLETE SYSTEMS
IT IS NOT THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT EVERY ITEM NECESSARY FOR COMPLETE SYSTEMS BE SHOWN. THE CONTRACTOR'S WORK SHALL INCLUDE LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A HIGH QUALITY, COMPLETE INSTALLATION. OFFSETS AND/OR CHANGES IN ELEVATION OF PIPES AND DUCTS DUE TO UNFORESEEN INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.

SHOP DRAWINGS SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL FOR ALL EQUIPMENT AND MATERIALS.

PERMITS, FEES AND REGULATIONS
THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND CERTIFICATES.

5. OPERATION AND MAINTENANCE MANUALS AND INSTRUCTIONS
PRIOR TO SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL PROVIDE THREE (3) BOUND COPIES OF PRINTED OPERATIONS INSTRUCTIONS AND MAINTENANCE INFORMATION FOR EQUIPMENT AND SYSTEMS PROVIDED UNDER THIS CONTRACT, INCLUDING PREVENTATIVE MAINTENANCE PROCEDURES.

6. DRAWINGS
THE DRAWINGS SHOW APPROXIMATE LOCATION OF EQUIPMENT, DUCTS AND PIPES. THE EXACT LOCATION SHALL BE DETERMINED BASED ON FIELD CONDITIONS.
EQUIPMENT, DUCT WORK AND PIPING SHALL FIT INTO THE SPACES SHOWN ON THE DRAWINGS ALLOWING FOR ACCEPTABLE CLEARANCES FOR INSTALLATION, REPLACEMENT AND MAINTENANCE. IT IS NOT INTENDED THAT THE DRAWINGS SHOW IN DETAIL EVERY FITTING, DEVICE, ETC. ALL MATERIAL NECESSARY TO SATISFY REGULATIONS, THE BEST PRACTICES OF THE TRADE AND TO THE COMPLETE SATISFACTION OF THE ENGINEER SHALL BE FURNISHED WITHOUT ADDITIONAL RECOMPENSE.

STORAGE OF MATERIALS
THE CONTRACTOR SHALL COORDINATE STORAGE OF HIS MATERIALS AND EQUIPMENT WITH THE GENERAL CONTRACTOR AND SHALL BE RESPONSIBLE FOR ALL LOSS AND

3. GUARANTEE
THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL REPAIR OR CORRECT WORK WITHIN TEN (10) DAYS OF WRITTEN NOTIFICATION. IF THE CONTRACTOR DOES NOT COMPLY, THE OWNER MAY HAVE THE WORK CORRECTED AND CHARGE ALL SUCH THE CONTRACTOR.

9. REFERENCE STANDARDS AND INDUSTRY SPECIFICATIONS
ANY MATERIAL OR OPERATION SPECIFIED BY REFERENCE TO PUBLISHED SPECIFICATIONS OF A MANUFACTURER, SOCIETY, ASSOCIATION, CODE OR OTHER PUBLISHED
STANDARD, SHALL COMPLY WITH REQUIREMENTS OF THE LISTED DOCUMENT. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF STATE, LOCAL AND OTHER CODES WHICH
APPLY TO THIS PROJECT OR HAVE JURISDICTION.

2000 INTERNATIONAL MECHANICAL CODE (IMC).

2000 INTERNATIONAL MECHANICAL CODE (IPC).

2001 INTERNATIONAL PLUMBING CODE (IPC).

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).

AMERICAN SOCIETY OF TESTING MATERIALS (ASTM).

MATIONAL ELECTRICAL CODE (INC).

AMERICAN SOCIETY OF TESTING MATERIALS (ASTM).

MATIONAL ELECTRICAL CODE (INC).

ASSOCIATED AIR BALANCE COUNCIL (AABC).

NATIONAL FILE PROTECTION ASSOCIATION (INFPA).

SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA).

AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE).

10. WORKMANSHIP ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER, BY EXPERIENCED MECHANICS OF THE TRADE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND THE MOST MODERN TRADE PRACTICE AND SHALL PRESENT A NEAT APPEARANCE.

11. SITE INSPECTION

BEFORE BEGINNING WORK, THE CONTRACTOR SHALL INSPECT THE SITE AND SURVEY THE CONDITIONS TO BE ENCOUNTERED IN THE PERFORMANCE OF FAILURE TO FAMILIARIZE HIMSELF WITH THE CONDITIONS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR FULL COMPLETION OF THE WORK IN A THESE DOCUMENTS.

12. COORDINATION IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THEIR WORK WITH ALL OTHER TRADES SUCH THAT ALL BUILDING SYSTEMS AND COMPONENTS CAN BE ASSEMBLED WITHOUT CONFLICT AND IN CONFORMANCE WITH ALL CONSTRUCTION DOCUMENTATION, INCLUDING THOSE OF OTHER TRADES.

13. DISCREPANCIES AND CLARIFICATIONS
IN THE EVENT OF A DISCOVERED DISCREPANCY OR AMBIGUITY, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IN WRITING AND IN A TIMELY FASHION. THE CONTRACTOR SHALL NOT PROCEED WITH RELATED WORK WITHOUT A WRITTEN RESOLUTION CLARIFICATION FROM THE ARCHITECT.

14. ON-SITE SUPERVISION THE CONTRACTOR SHALL MAINTAIN ON-SITE SUPERVISION OF HIS OWN WORK FORCE AND HIS SUB-SUBCONTRACTORS

DUCTWORK SHALL BE G-90 GALVINIZED SHEETMETAL INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. DUCT CONSTRUCTION SHALL BE 2" PRESSURE CLASS WITH CLASS C SEALING (TRANSVERSE JOINTS). FLEXIBLE DUCT (INSULATED FOR SUPPLY DUCTS) SHALL BE LIMITED TO THREE (3) FEET MAXIMUM, INSTALLED STRAIGHT. ALL CHANGES IN DIRECTION SHALL BE MADE WITH LONG RADIUS SHEETMETAL ELBOWS.

HEATING HOT WATER PIPING SHALL BE ASTM B 88, TYPE L, DRAWN TEMPER COPPER WITH ASTM B 32 LEAD-FREE-ALLOY SOLDER JOINTS OR PEX TUBING WITH AN OXYGEN BARRIER, ASTM F 876 AND F 877.

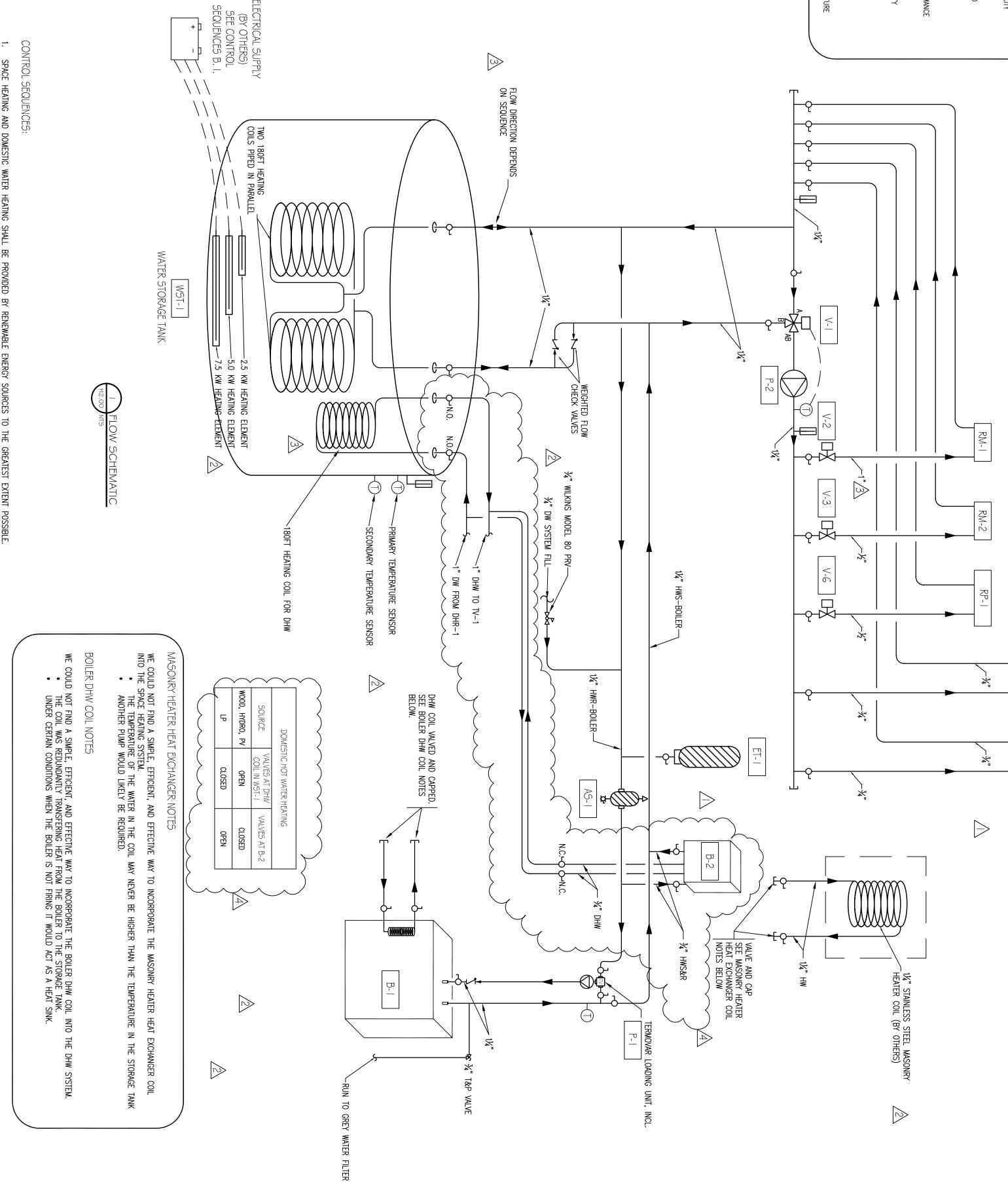
ALL EXPOSED PIPES TO BE LABELED USING SETON SETMARK PRECOILED MARKERS OR SIMILAR. ALL EXPOSED DUCTS TO BE LABELED USING SETON OPTI-CODE CUSTO SELF ADHESIVE LABELS. custom

16. INSULATION
OUTSIDE AND EXHAUST AIR PLENUMS & DUCTS FROM THE LOUVERS TO HRV-1 SHALL BE INSULATED WITH 1-1/2" FIBERGLASS BLANKET OR BOARD WITH FSK JACKET. HEATING HOT WATER PIPING SHALL BE INSULATED WITH 1-1/2" TYPE I, PREFORMED FIBERGLASS INSULATION WITH ALL SERVICE JACKET. PEX TUBING DOES NOT REQUIRE INSULATION. INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS AS TESTED IN ACCORDANCE WITH ASTM E

17. CONTROLS
THE BUILDING CONTROLS SHALL BE DIRECT DIGITAL CONTROLS (DDC) WITH GRAPHIC FLOOR PLANS. LOAD SOFTWARE ONTO THE OWNER'S COMPUTER. THE CONTROL SYSTEM MUST BE FULLY ACCESSIBLE THROUGH THE INTERNET (PASSWORD PROTECTED) AND ALARMS MUST BE SENT TO A LIST OF EMAIL ADDRESSES SINCE THE BUILDING WILL BE UNOCCUPIED FOR EXTENDED PERIODS.
REFER TO THE SEQUENCES OF OPERATION FOR ADDITIONAL INFORMATION.

18. BALANCING BALANCE AIR AND WATER SYSTEMS TO QUANTITIES SHOWN ON THE DRAWINGS. PROVIDE SIX (6) BALANCE REPORTS ON CONTRACTOR'S STANDARD FORMS.

19. EQUIPMENT SCHEDULED EQUIPMENT IS BASIS OF DESIGN. ALTERNATE MANUFACTURERS WILL BE CONSIDERED, BUT MUST BE EQUAL (AS DETERMINED BY PETERSEN ENGINEERING)



SPACE HEATING AND DOMESTIC WATER HEATING SHALL BE PROVIDED BY RENEWABLE ENERGY SOURCES TO THE GREATEST EXTENT POSSIBLE.

THE TEMPERATURE OF THE WATER STORAGE TANK (WST-1) SHALL BE MAINTAINED BETWEEN A MINIMUM TEMPERATURE OF 112°F AND A MAXIMUM TEMPERATURE

I. IF PRIMARY TANK TEMPERATURE SENSOR REACHES 178°F, STOP ENERGIZING THE TANK.

II. IF SECONDARY TANK TEMPERATURE SENSOR REACHES 180°F,

(i) STOP ENURGIZING THE TANK

(ii) ACTIVATE PUMP P-2

(iii) OPEN VALVES V-2, V-3, V-40, V-40, V-50, AND V-6

(iv) OPEN VALVES V-2, V-3, V-40, V-40, V-50, AND V-6

(iv) OPEN VALVE V-1 B-AB TO PULL HEAT FROM WST-1

(v) GENERATE AN ALARM.

TANK HEATING SOURCES:

1. IF THERE IS EXCESS RENEWABLE ELECTRICAL ENERGY AVAILABLE AND WST-1 IS BELOW ITS MAXIMUM TEMPERATURE, PROVIDE POWER TO THE TANK'S ELECTRICAL ENERGIZE ITS PUMP (P-1) AND DIRECT THE HEAT TO THE TANK.

(i) WHEN B-1 IS OPERATING, DAMPERS D-1 & D-2 SHALL BE OPEN. WHEN B-1, IS NOT OPERATING, DAMPERS D-1 & D-2 SHALL BE CLOSED.

III. DELETED. 우 IPERATURE IS 85°F

TO DETERMINE APPROPRIATE ELEMENT(S)).

UNTIL THE BOILER LOW LIMIT CONTROL IS REACHED. THE MINIMUM

THE TANK DROPS TO ITS MINIMUM TEMPERATURE, ENERGIZE THE LP BOILER (B-2) UNTIL THE TANK TEMPERATURE EN THE BOILER IS STOPPED, THE ASSOCIATED PUMP SHALL CONTINUE TO SPERATE UNTIL THE BOILER LOW LIMIT HEATING ED SPACE TEMPERATURE IS 70°F. UNOCCUPIED SPACE TEMPERATURE IS 45°F.

"ALL FOR HEATING FROM ANY OF THE HEATING ZONES, PUMP P-2 SHALL BE ENERGIZED AND VALVE V-1 SHALL 60°F OAT, THE SUPPLY WATER TEMPERATURE SHALL BE 112°F.

60°F OAT, THE SUPPLY WATER TEMPERATURE SHALL BE 80°F.

60°F OAT, THE SUPPLY WATER TEMPERATURE SHALL BE 80°F.

OCCUPIED SUPPLY WATER TEMPERATURE IS 85°F.

NES NEEDING HEAT SHALL HAVE THEIR ASSOCIATED VALVE POWERED OPEN. ZONES NOT NEEDING HEAT SHALL HAVE THEIR ASSOCIATED VALVE POWERED OPEN. ZONES NOT NEEDING HEAT SHALL HAVE THEIR ASSOCIATED VALVE POWERED OPEN. ZONES NOT NEEDING HEAT SHALL HAVE THEIR ASSOCIATED VALVE POWERED OPEN. ZONES NOT NEEDING HEAT SHALL HAVE THEIR ASSOCIATED VALVE POWERED OPEN. ZONES NOT NEEDING HEAT SHALL HAVE THEIR ASSOCIATED VALVE POWERED OPEN. ZONES NOT NEEDING HEAT SHALL HAVE THEIR ASSOCIATED VALVE POWERED OPEN. ZONES NOT NEEDING HEAT SHALL HAVE THEIR ASSOCIATED VALVE POWERED OPEN. ZONES NOT NEEDING HEAT SHALL HAVE THEIR ASSOCIATED VALVE POWERED OPEN. ZONES NOT NEEDING HEAT SHALL HAVE THEIR ASSOCIATED VALVE POWERED OPEN. MODULATE TO MAINTAIN FOLLOWING OUTDOOR AIR RESET SCHEDULE.

VENTILATOR (HRV-1) SHALL BE OPERATED BY A MANUAL WALL SWITCH AND SHALL RUN WHEN THE PERATING, DAMPERS D-3 & D-4 SHALL BE OPEN. WHEN HRV-1 IS NOT OPERATING, DAMPERS D-3 ERATURE DROPS TO 42'F IN UNOCCUPIED MODE, GENERATE AN ALARM.

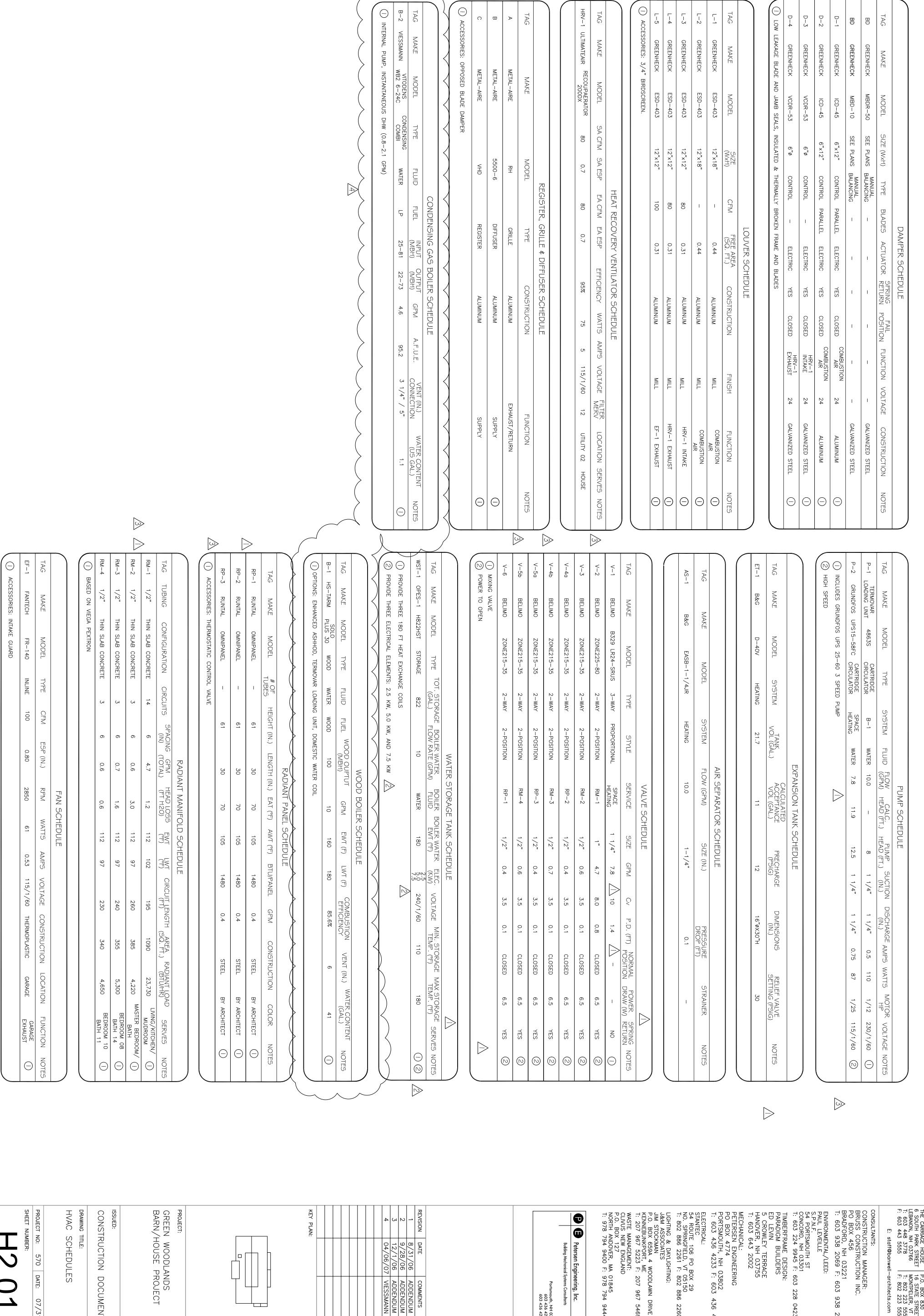
Ř PLAN

GREEN WOODLANDS BARN/HOUSE PROJECT

CONSTRUCTION DOCUMENTS

HVAC FLOW SCHEMATIC,
SPECIFICATIONS, CONTROL
SEQUENCES, & LEGEND

PROJECT NO: 570 DATE: 07/31/ 07/31/06



KEY PLAN:

DATE COMMENTS

8/31/06 ADDENDUM #1

9/28/06 ADDENDUM #2

12/1/06 ADDENDUM #3

04/06/07 VIESSMANN

HVAC

SCHEDULES

570 DATE:

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