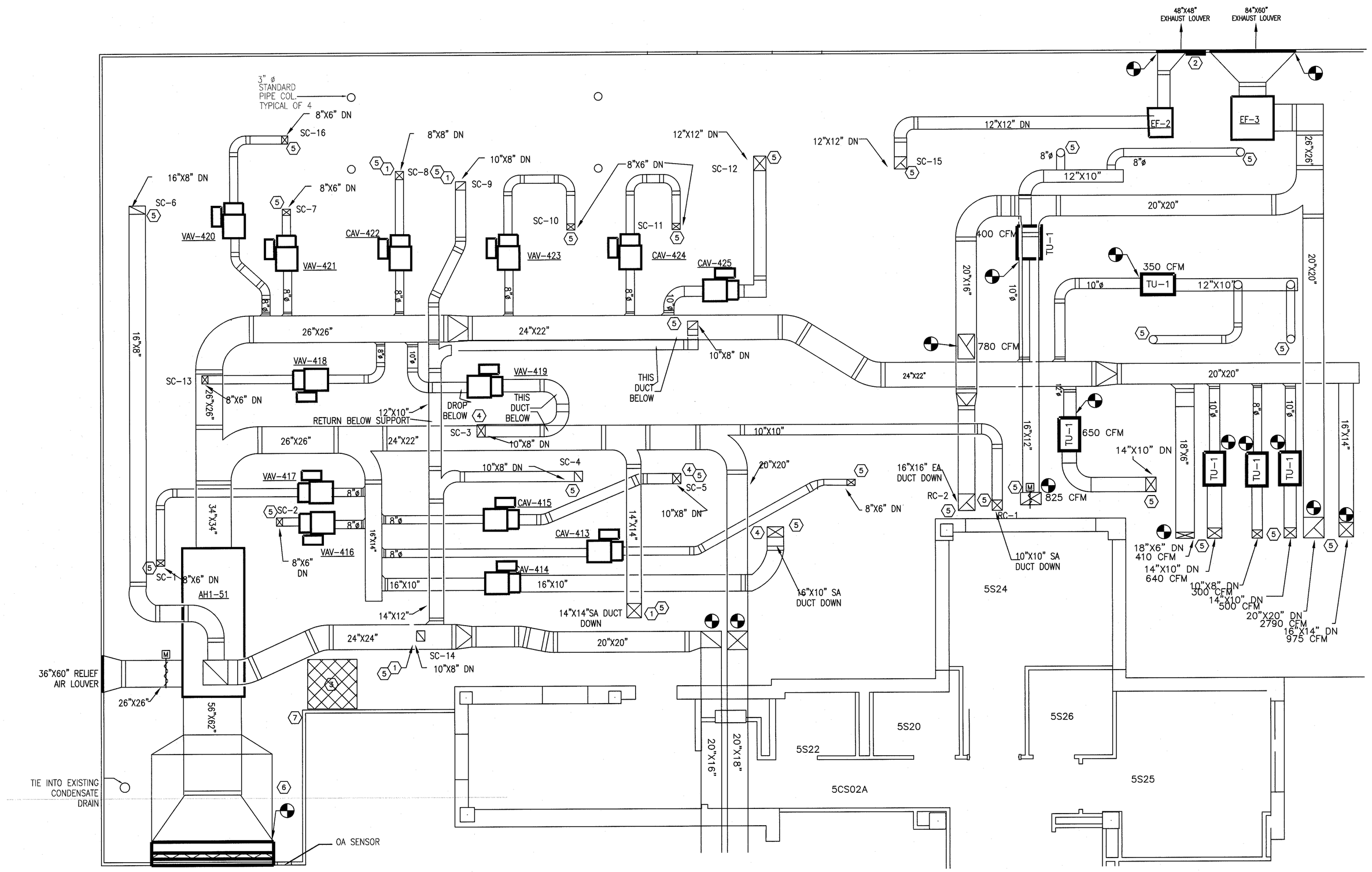


FIFTH FLOOR PLAN - NEW MECHANICAL WORK

1/4" = 1'-0"

1 / 1-H6

KEY NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIAL REQUIRED TO CREATE NEW PENETRATION IN DECK FOR DUCTWORK.
2. NEW EXHAUST DUCT FROM DEDICATION ISOLATION ROOM EXHAUST FAN SHALL BE CONNECTED TO EXISTING EXHAUST LOUVER. CONTRACTOR SHALL PROVIDE BLANK-OFF FOR PORTION OF LOUVER NOT UTILIZED WITH NEW DUCT CONNECTION. MINIMUM DISCHARGE VELOCITY SHALL BE 3500 FPM.
3. NEW RETURN DUCT SHALL BE ROUTED TO AVOID EXISTING LADDER IN PENTHOUSE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ENLARGING EXISTING PENETRATIONS OF SLAB TO ACCOMMODATE FOR NEW DUCT DIMENSIONS.
5. CONTRACTOR SHALL PROVIDE WATER-PROOFING MEASURES AT ALL DUCT AND PIPE PENETRATIONS IN SLAB. DUCT PENETRATIONS SHALL BE PROTECTED WITH 3" ANGLE IRON SECURELY ANCHORED TO THE FLOOR WITH ALL SEAMS SEALED WITH APPROVED MATERIALS.
6. MODIFY EXISTING STEEL BEAM PLATFORM AS NEEDED TO SUPPORT AHU.
7. INSTALL JCI LOCAL CONTROLLER DISPLAY IN THIS AREA. CONFIRM LOCATION WITH COTR OR VAMC MAINTENANCE PERSONNEL.

GENERAL NOTES

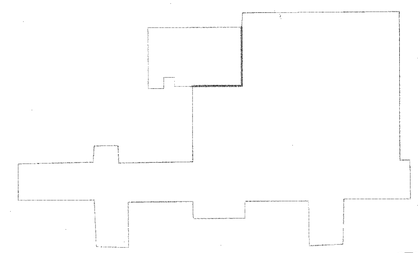
1. COORDINATE ALL WORK WITH EXISTING CONDITIONS, ALL OTHER TRADES, AND IN ACCORDANCE WITH ALL STATE, LOCAL AND NATIONAL CODES, AS WELL AS WITH ALL FEDERAL HEALTHCARE REGULATIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES, PERMITS AND LICENSES FOR THE COMPLETE INSTALLATION OF THEIR WORK.
3. CONTRACTOR SHALL VISIT AND EXAMINE THE SITE PRIOR TO SUBMITTING BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
4. BEFORE ANY WORK IS STARTED, THE CONTRACTOR SHALL MAKE A THOROUGH SURVEY WITH THE COTR IN WHICH ALTERATIONS OCCUR AND AREAS WHICH ARE ANTICIPATED ROUTES OF ACCESS, AND FURNISH A REPORT. REPORT SHALL BE SIGNED BY BOTH COTR AND CONTRACTOR, AND SHALL BE PROVIDED TO THE CONTRACTING OFFICER.
5. ALL NEW HVAC EQUIPMENT AND DDC CONTROLS SHALL BE TIED BACK INTO EXISTING CONTROL SYSTEM AT NEAREST ETHERNET HUB.
6. ALL EXISTING SPRINKLER HEADS, PIPES, ALARMS, ETC. ARE TO REMAIN INTACT FOR USE AFTER RENOVATION. SPRINKLER SYSTEM SHALL REMAIN IN OPERATION THROUGHOUT PERIOD OF WORK. CONTRACTOR SHALL ENSURE THAT NO DAMAGE IS DONE TO EXISTING SPRINKLER SYSTEM – I.E. PROTECTIVE CAGES SHALL BE INSTALLED OVER SPRINKLER HEADS DURING RENOVATION, ETC.
7. CARE SHOULD BE TAKEN BY ALL CONTRACTORS TO AVOID DAMAGING OR DISTURBING EXISTING CONSTRUCTION WHICH IS TO REMAIN. CONTRACTORS SHALL BE RESPONSIBLE FOR MAKING ANY REPAIRS NECESSARY TO RECTIFY DAMAGED AND RESTORE EXISTING CONSTRUCTION TO UNDAMAGED STATE UPON COMPLETION OF WORK AT NO EXPENSE TO OWNER.
8. ALL NEW SUPPLY AIR GRILLES, REGISTERS, DIFFUSERS, ETC. AND ALL RETURN AIR GRILLES, REGISTERS, ETC. SHALL HAVE FACTORY-STANDARD WHITE ENAMEL FINISH.
9. ALL ELBOWS IN DUCTWORK SHALL BE LONG RADIUS. RECTANGULAR ELBOWS SHALL BE SUPPLIED WITH TURNING VANES.
10. ALL PIPING EXPOSED TO THE OUTDOORS SHALL BE WRAPPED IN HEAT TAPE.
11. MANUAL DAMPERS TO BE PROVIDED AT SUPPLY, EXHAUST AND RETURN BRANCH DUCTWORK (TYPICAL). DAMPERS SHALL BE LOCATED AS FAR AWAY FROM AIR TERMINAL DEVICE (VAV, REGISTER, DIFFUSER, ETC.) AS POSSIBLE, BUT MUST BE LOCATED IN THE SAME ROOM AS THAT DEVICE.
12. ALL NEW DEVICES, EQUIPMENT, CONTROLS, ETC. (INCLUDING BUT NOT LIMITED TO: VAV'S, COILS, GRILLES, REGISTERS, AND DIFFUSERS, HOT WATER PIPING, ETC.) SHALL BE TESTED AND BALANCED AS PART OF THIS WORK. EXISTING EQUIPMENT TO REMAIN SHALL BE TESTED AND BALANCED AS NOTED ON DRAWINGS.
13. ALL EQUIPMENT, PIPING, THERMOMETERS, GAGES, VALVES, ETC. THAT ARE LOCATED OUTSIDE SHALL BE OF OUTDOOR-USE QUALITY. THE WINTER ENVIRONMENT IN IOWA CITY IS COLD, ICY, AND THE PRESENCE OF SALT DURING PERIODS OF SNOW RENDERS IT CORROSIVE – CONTRACTOR SHALL SEEK APPROVAL FROM VA ENGINEERING STAFF AND PARADIGM ENGINEERS AND CONSTRUCTORS BEFORE PURCHASING ANY EQUIPMENT.
14. ALL DUCT WORK RUNS SHOWN ARE REPRESENTATIVE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONDITIONS IN THE FIELD (EXISTING, OR PREDICATED BY LOCATION OF NEW EQUIPMENT) THAT MAKE NECESSARY ALTERNATE ROUTING OF DUCTWORK.
15. PIPING RUNS SHOWN ARE REPRESENTATIVE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONDITIONS IN THE FIELD (EXISTING, OR PREDICATED BY LOCATION OF NEW EQUIPMENT) THAT MAKE NECESSARY ALTERNATE ROUTING OF PIPING.
16. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE POWER CONNECTIONS FOR ALL EQUIPMENT INCLUDING, BUT NOT LIMITED TO: CONDENSING UNITS, FANS, VAV TERMINALS, ETC.
17. ALL VAV/CAV TERMINALS WITH HOT-WATER REHEAT SHALL HAVE 2-ROW HEATING COILS. SEE NEW EQUIPMENT SCHEDULES FOR MORE INFORMATION.
18. ALL DUCTWORK EXPOSED TO THE OUTDOORS SHALL BE FABRICATED FROM DOUBLE-WALL STAINLESS STEEL SHEET METAL WITH RIGID INSULATION. SEE LEGEND AND HATCHED DUCT ON NEW WORK PLANS FOR MORE INFORMATION.
19. ALL DIFFUSERS NOT SHOWN AS A FULL CEILING GRID (I.E. 24"X24") SHALL BE A MINIMUM OF 12"X12".
20. ALL NEW ROOM TEMPERATURE SENSORS SHALL BE TIED BACK IN TO THE EXISTING HVAC CONTROLS SYSTEM.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING (PATCHING, SEALING, FIRE-STOPPING, ETC.) ALL ABANDONED WALL PENETRATIONS AND ANY NEW PENETRATIONS CREATED FOR DUCT, PIPE, CONDUIT, ETC.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY ARCHITECTURAL WORK (INCLUDING, BUT NOT LIMITED TO: FLOORING, CEILING TILE AND GRID, SMOKE PARTITIONS ABOVE CEILING, GYPSUM WALL BOARD AND PAINTING, PLASTER, ETC.) THAT IS DAMAGED, DISTURBED, OR REMOVED INCIDENTAL TO THIS WORK.
23. SOME DUCTWORK, AIR TERMINAL UNITS, ETC. ARE LOCATED IN ATTIC SPACES.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ASBESTOS ABATEMENT ASSOCIATED WITH NEW AND DEMOLITION WORK.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SMOKE/FIRE DAMPERS AT ALL PENETRATIONS OF EXISTING AND/OR NEW SMOKE/FIRE RATED PARTITIONS. NEW SMOKE DAMPERS WITH AUTOMATIC CONTROLS SHALL BE INTEGRATED INTO THE EXISTING FIRE DETECTION AND ALARM SYSTEM. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENTS.

GENERAL NOTE:

ALL EXISTING PIPING, DUCTWORK, SPRINKLERS, CONDUIT, LIGHTING OR OTHER CONSTRUCTION SHALL BE RELOCATED AS NECESSARY FOR ALL DEMOLITION AND INSTALLATION WORK.

SYMBOLS/EQUIPMENT LEGEND

- WALL-MOUNTED THERMOSTAT
- CONNECTION BETWEEN NEW AND EXISTING
- CAV-B01 — CAV/VAV AIR TERMINAL UNIT



KEY PLAN
NOT TO SCALE

FULLY SPRINKLERED BUILDING
BID DOCUMENTS

Revisions:	Date

CONSULTANTS:

KERRY LEE PICKETT 36602-006 REGISTERED PROFESSIONAL ENGINEER — STATE OF WISCONSIN

ARCHITECT/ENGINEERS:

PARADIGM
ENGINEERS AND CONSTRUCTORS
PO BOX 436223 Louisville, Kentucky 40253 – PH: 502.339.8511 – www.paradigmusa.com

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BLAINE CAMIEL VAN GANSBEKE 24,788 LICENSED PROFESSIONAL ENGINEER — STATE OF KENTUCKY

Drawing Title: FIFTH FLOOR NEW MECHANICAL WORK

Approved: Project Director

Project Title: SURGICAL SUPPORT AND LOCKERS

Location: IOWA CITY VAMC, 601 HIGHWAY 6 WEST, IOWA CITY, IOWA 52246-2208

Date: 07-13-12 | Checked: KLP | Drawn: JEM

Project Number: 636A8-11-011

Building Number: 1

Drawing Number: 1-H6

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