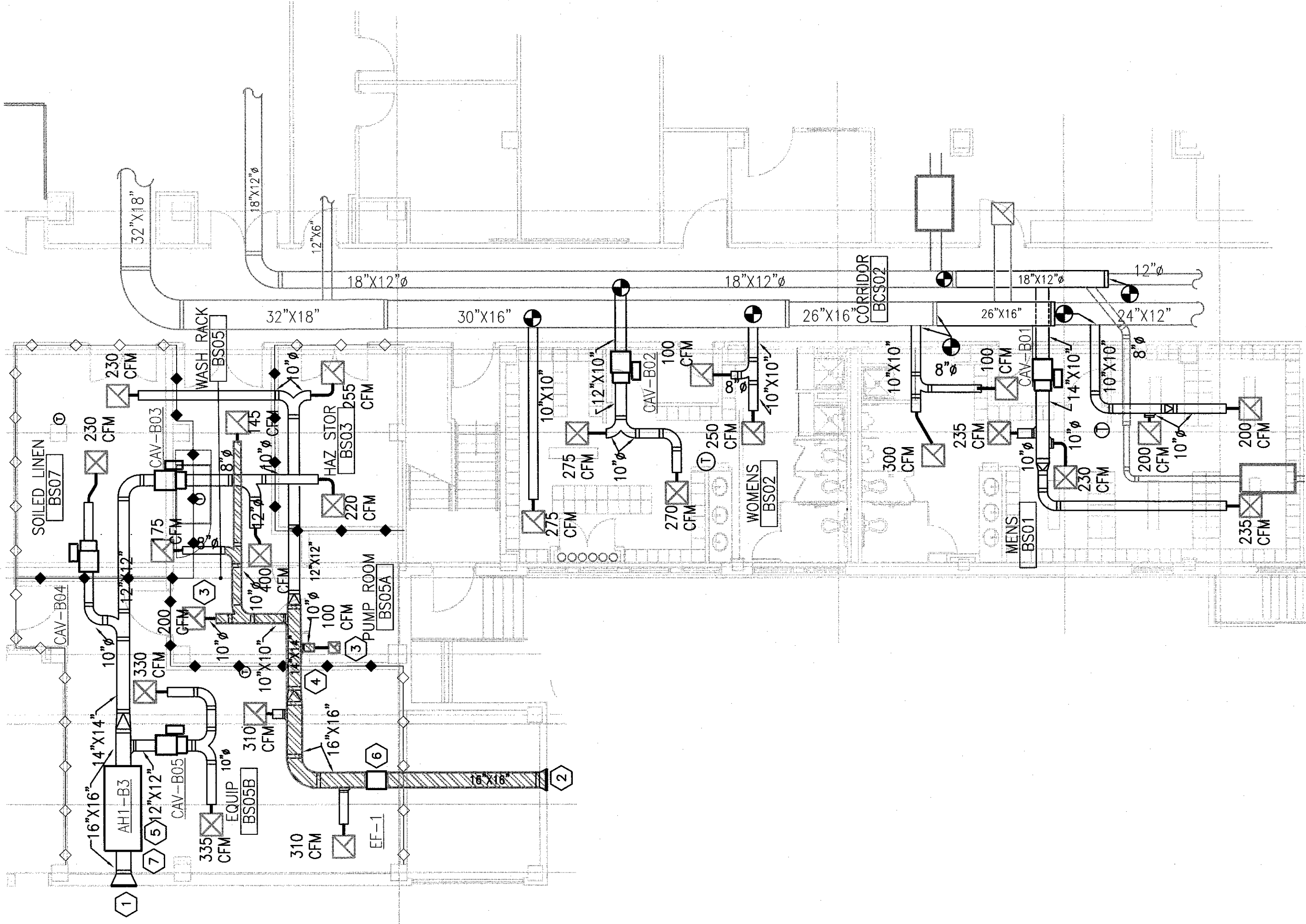


- SYMBOLS/EQUIPMENT LEGEND**
- WALL-MOUNTED THERMOSTAT
 - CONNECTION BETWEEN NEW AND EXISTING
 - CAV=B01 CAV/VAW AIR TERMINAL UNIT
 - S— 1-HOUR SMOKE PARTITION
 - STAINLESS STEEL DUCTWORK
 - SC-# SEE CONNECTION ON 1-H6

AIR BALANCE (PER PRE-DESIGN TAB)			
	SUPPLY	EXHAUST	NET
ORIGINAL AIRFLOW	1037	2472	-1435
NEW DESIGN AIRFLOW	1245	1425	-180
NET CHANGE	+208	-1047	-



BASEMENT FLOOR PLAN - NEW MECHANICAL WORK
1-H4

GENERAL NOTE:

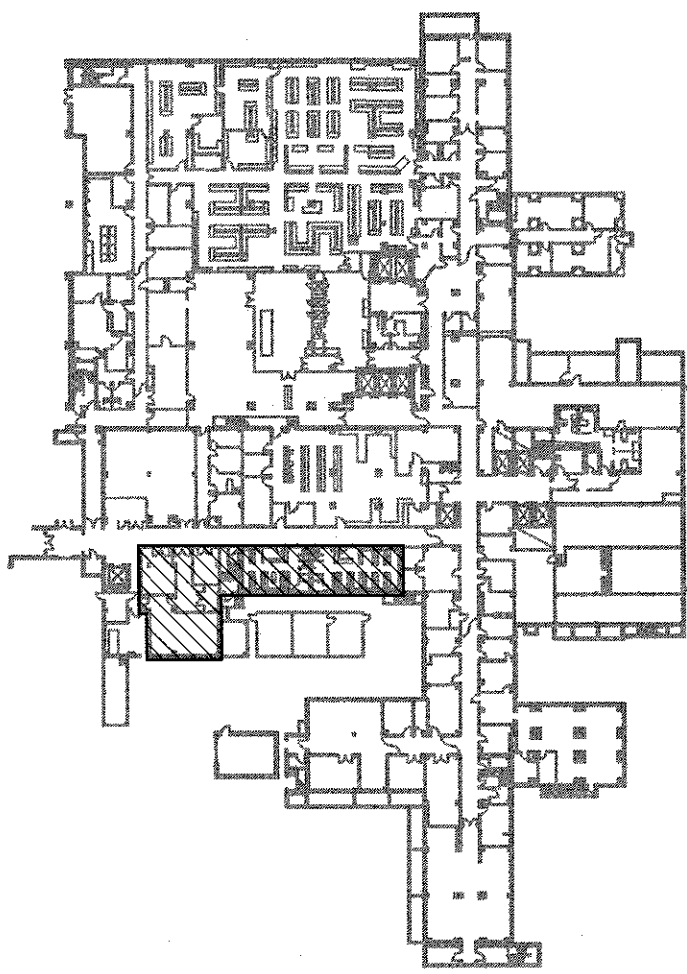
ALL EXISTING PIPING, DUCTWORK, SPRINKLERS, CONDUIT, LIGHTING OR OTHER CONSTRUCTION SHALL BE RELOCATED AS NECESSARY FOR ALL DEMOLITION AND INSTALLATION WORK.

KEY NOTES

- NEW 28"x28" OUTSIDE AIR LOUVER FOR AHU. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIAL REQUIRED FOR PROVIDING NEW PENETRATION AND SEALING SAME WEATHER-TIGHT. ANY DAMAGED BRICK AND MORTAR SHALL BE REPAIRED TO MATCH EXISTING.
- NEW 24"x24" EXHAUST AIR LOUVER FOR WET EXHAUST FAN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIAL REQUIRED FOR PROVIDING NEW PENETRATION AND SEALING SAME WEATHER-TIGHT.
- AIR DEVICES IN WASH RACK AND PUMP ROOM SHALL BE OF STAINLESS STEEL CONSTRUCTION.
- ALL DUCTWORK IN WASH RACK, AND DOWNSTREAM OF WASH RACK, SHALL BE OF STAINLESS STEEL CONSTRUCTION.
- NEW AIR HANDLING UNIT IN EQUIPMENT ROOM SHALL BE CEILING-SUSPENDED TYPE. MAINTAIN ALL SERVICE CLEARANCES WITH PLAN NORTH WALL. ROUTE NEW CONDENSATE DRAIN FROM AHU-1 TO DRAIN LINE FOR EMERGENCY SHOWEY/ETWASH.
- NEW EXHAUST FAN IN EQUIPMENT ROOM SHALL BE CEILING-SUSPENDED TYPE. MAINTAIN ALL SERVICE CLEARANCES WITH PLAN SOUTH WALL.
- INSTALL NEW JOI LOCAL CONTROLLER DISPLAY IN THIS AREA. COORDINATE WITH COTR OR VAMC MAINTENANCE PERSONNEL.

GENERAL NOTES

- 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.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES, PERMITS AND LICENSES FOR THE COMPLETE INSTALLATION OF THEIR WORK.
- CONTRACTOR SHALL VISIT AND EXAMINE THE SITE PRIOR TO SUBMITTING BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
- 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 OFFICE.
- ALL NEW HVAC EQUIPMENT AND DDC CONTROLS SHALL BE TIED BACK INTO EXISTING CONTROL SYSTEM AT NEAREST ETHERNET HUB.
- ALL EXISTING SPRINKLER HEADS, PIPES, ALARMS, ETC. ARE TO REMAIN INTACT FOR USE AFTER RENOVATION. SPRINKLER SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW SYSTEM IS INSTALLED. NO DAMAGE IS DONE TO EXISTING SPRINKLER SYSTEM - I.E. PROTECTIVE GLASS SHALL BE INSTALLED OVER SPRINKLER HEADS DURING RENOVATION, ETC.
- CARE SHOULD BE TAKEN BY ALL CONTRACTORS TO AVOID DAMAGING OR DISTURBING EXISTING CONSTRUCTION WHICH IS TO REMAIN. CONTRACTORS SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONSTRUCTION NECESSARY TO REPAIR DAMAGED AND RESTORE EXISTING CONSTRUCTION TO UNHARMED STATE UPON COMPLETION OF WORK AT NO EXPENSE TO OWNER.
- ALL NEW SUPPLY AIR GRILLES, REGISTERS, DIFFUSERS, ETC. AND ALL RETURN AIR GRILLES, REGISTERS, ETC. SHALL HAVE FACTORY-STANDARD WHITE ENAMEL FINISH.
- ALL ELBOWS IN DUCTWORK SHALL BE LONG RADIUS. RECTANGULAR ELBOWS SHALL BE SUPPLIED WITH TURNING VANES.
- MANUAL DAMPERS TO BE PROVIDED AT SUPPLY, EXHAUST AND RETURN BRANCH DUCTWORK (TYPICAL). DAMPERS SHALL BE LOCATED AS FAR AWAY FROM AIR TERMINAL DEVICE (NAV, REGISTER, DIFFUSER, ETC.) AS POSSIBLE, BUT MUST BE LOCATED IN THE SAME ROOM AS THAT DEVICE.
- 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.
- ALL EQUIPMENT, PIPING, THERMOMETERS, GAGES, VALVES, ETC. THAT ARE LOCATED OUTSIDE SHALL BE OF OUTDOOR-USE QUALITY. THE WATER ENVIRONMENT IN IOWA CITY IS COLD, ICE, 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.
- ALL DUCT WORK RINGS SHOWN ARE REPRESENTATIVE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONDITIONS IN THE FIELD (EXISTING, OR PREDICTED BY LOCATION OF NEW EQUIPMENT) THAT MAKE NECESSARY ALTERNATE ROUTING OF DUCTWORK.
- PIPING RUNS SHOWN ARE REPRESENTATIVE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONDITIONS IN THE FIELD (EXISTING, OR PREDICTED BY LOCATION OF NEW EQUIPMENT) THAT MAKE NECESSARY ALTERNATE ROUTING OF PIPING.
- 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.
- ALL VAV/CAV TERMINALS WITH HOT-WATER REHEAT SHALL HAVE 2-ROW HEATING COILS. SEE NEW EQUIPMENT SCHEDULES FOR MORE INFORMATION.
- 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.
- ALL DIFFUSERS NOT SHOWN AS A FULL CEILING GRID (I.E. 24"x24") SHALL BE A MINIMUM OF 12"x12".
- ALL NEW ROOM TEMPERATURE SENSORS SHALL BE TIED BACK IN TO THE EXISTING HVAC CONTROLS SYSTEM.
- 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.
- 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.
- SOME DUCTWORK, AIR TERMINAL UNITS, ETC. ARE LOCATED IN ATTIC SPACES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ASBESTOS ABATEMENT ASSOCIATED WITH NEW AND DEMOLITION WORK.



KEY PLAN
NOT TO SCALE
FULLY SPRINKLERED BUILDING
BID DOCUMENTS



CONSULTANTS:		ARCHITECT/ENGINEERS:								<p>19 JUL 2 012 STATE OF KENTUCKY BLAINE CAMEL VAM GANSBERG 24708 PROFESSIONAL ENGINEER Mechanical</p>		<p>Drawing Title: BASEMENT FLOOR NEW MECHANICAL WORK</p> <p>Approved Project Director</p>		<p>Drawing Title: SURGICAL SUPPORT AND LOCKERS</p>		<p>Project Number: 636A8-11-011</p> <p>Building Number: 1</p> <p>Drawing Number: 1-H4</p>		<p>Office of Construction and Facilities Management</p> <p>Department of Veterans Affairs</p>	
												<p>Location: IOWA CITY VAMC 601 HIGHWAY 6 WEST IOWA CITY, IOWA 52242-2208</p>		<p>Checked: KLP</p>		<p>Drawn: JEM</p>		<p>Date: 07-19-12</p>	