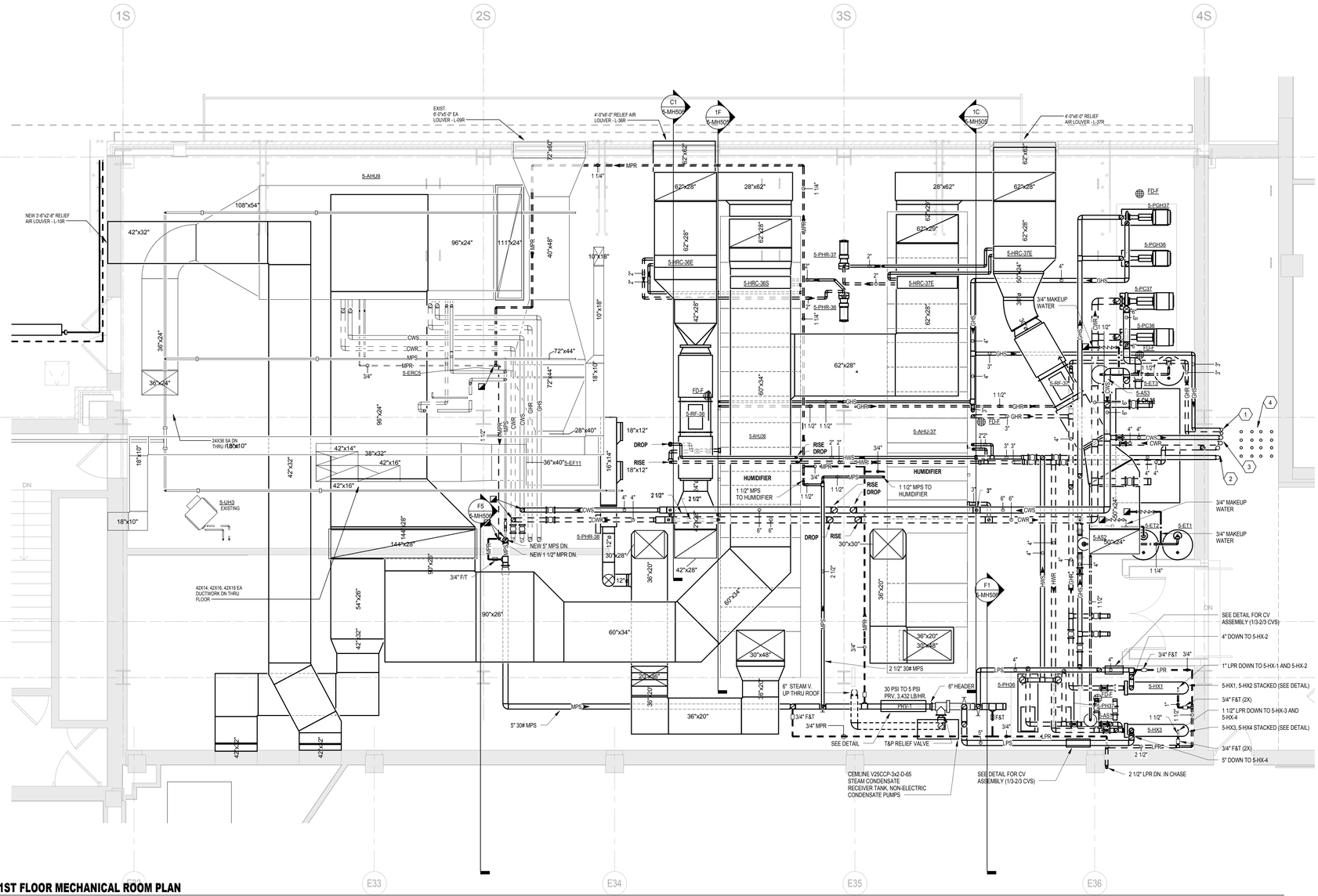


1F ENLARGED 1ST FLOOR MECHANICAL ROOM PLAN

1/4" = 1'-0"

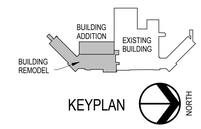
HVAC PLAN GENERAL NOTES

1. MATERIALS AND EQUIPMENT SHOWN ON PLANS SHALL BE NEW AND SHALL BE FURNISHED BY THIS CONTRACTOR UNLESS OTHERWISE INDICATED.
2. IN GENERAL, DUCTWORK SHALL BE RUN CONCEALED IN SUSPENDED CEILING SPACES AND IN SHAFTS PROVIDED UNLESS NOTED OR OTHERWISE INDICATED. CERTAIN ROOMS HAVE NO SUSPENDED CEILINGS, AND DUCTWORK IN THESE ROOMS SHALL BE EXPOSED.
3. DUCTWORK IS INTENDED TO BE CONCEALED IN WALLS AND PARTITIONS UNLESS SPECIFICALLY NOTED OTHERWISE. SOME ITEMS MAY APPEAR NOT TO BE CONCEALED DUE TO DIGITAL REGISTRATION AND ALIGNMENT ISSUES ASSOCIATED WITH THE DUPLICATION PROCESS.
4. COOPERATE WITH THE OTHER TRADES TO AVOID ANY CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK.
5. DETAILS, SCHEMATICS, DIAGRAMS, DESIGNATE GENERAL ARRANGEMENT ONLY.
6. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON FLOOR PLANS, REFER TO ELEVATIONS, DETAILS, RISERS AND SCHEDULES.
7. THIS CONTRACTOR IS RESPONSIBLE FOR ALL SLEEVES AND/OR OPENINGS WHERE REQUIRED TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOOR SLABS, WALLS, BRIDGING AND BEAMS EXCEPT WHERE OTHERWISE INDICATED.
8. CONSULT REFLECTED CEILING PLAN FOR EXACT LOCATION OF SPRINKLER HEADS, GRILLES, REGISTERS, AND DIFFUSERS.
9. CEILING ACCESS IS REQUIRED AT ALL REHEAT COILS, VALVES, FIRE DAMPERS, MANUAL AND MOTORIZED DAMPERS LOCATED ABOVE CEILING. CEILING ACCESS PANELS WILL BE PROVIDED UNDER THE GENERAL SECTION OF CONSTRUCTION AND SHALL BE MINIMUM OF 24" X 24" UNLESS OTHERWISE INDICATED. COORDINATE WITH GENERAL CONTRACTOR.
10. THERMOSTATS LOCATED AT OUTSIDE WALLS SHALL BE MOUNTED ON INSULATED BACKING TO MINIMIZE WALL EFFECT.
11. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY THE A/E IMMEDIATELY OF ANY DISCREPANCIES.
12. WHERE NEW SERVICES ARE SHOWN CONNECTING TO EXISTING, VERIFY EXACT LOCATION AND SIZE OF EXISTING.
13. EXISTING SERVICES SHALL BE MAINTAINED UNLESS OTHERWISE INDICATED.
14. ALL DUCTS WHICH ARE DASHED AND/OR INDICATED BY NOTE ON DEMOLITION PLANS SHALL BE REMOVED.
15. DIFFUSERS IN ROOMS WITHOUT FINISHED CEILINGS SHALL BE INSTALLED WITH THE BOTTOM OF THE DIFFUSER AT 9'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
16. VERIFY DUCT CONNECTIONS SIZES TO POWER ROOF VENTILATORS.
17. WHERE SHEET METAL HOUSING, PLENUMS AND DUCTWORK ARE FASTENED TO GENERAL CONSTRUCTION. TAKE SPECIAL CARE TO MAKE AN AIRTIGHT SEAL AT THIS POINT.
18. DUCTWORK AND CONNECTIONS BETWEEN THE 4-INCH PRESSURE DUCTWORK AND THE VAV BOXES SHALL BE THE SIZE OF THE BOX INLET. DO NOT USED FLEXIBLE DUCTWORK.
19. FLEXIBLE DUCTWORK AND CONNECTIONS BETWEEN THE LOW PRESSURE DUCTWORK AND THE DIFFUSERS SHALL BE THE SIZE OF THE DIFFUSER INLET. CONNECTION TO THE 2-INCH DUCT SHALL BE MADE THROUGH A CONNECTOR DAMPER ASSEMBLY.
20. FOR FLEXIBLE DUCTWORK CONNECTIONS, NYLON DUCT STRAPS SHALL BE USED. USE A DUCT STRAP ON INNER DUCT AND ON OUTER INSULATION COVERING.
21. BUTTER AND SEAL ALL SHEET METAL DUCTWORK JOINTS.
22. WHERE MATERIAL IS INDICATED TO BE REMOVED, IT SHALL REMAIN THE PROPERTY OF THE OWNER. THIS CONTRACTOR SHALL DISPOSE OF MATERIAL AS DIRECTED BY THE OWNER.
23. BALANCING OF AIR AND HYDRONIC SYSTEMS SHALL BE PERFORMED BY AN NEBB OR AABC CERTIFIED TEST AND BALANCE AGENCY.
24. DUCT PENETRATIONS OF SMOKE PARTITION WALLS SHALL BE PROPERLY SEALED TO RESIST THE PASSAGE OF SMOKE AS REQUIRED BY THE LOCAL AUTHORITY.
25. MECHANICAL CONTRACTOR SHALL PROVIDE BALANCING DAMPERS WHERE INDICATED. IN ADDITION CONTRACTOR SHALL PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFFS TO DIFFUSERS, GRILLES, AND REGISTERS, REGARDLESS OF WHETHER DAMPERS ARE SPECIFIED AS PART OF THE DIFFUSER, GRILLE, OR REGISTER ASSEMBLY. THE BALANCING DAMPER SHALL BE LOCATED IN THE DUCT IMMEDIATELY AFTER THE DUCT TAKE-OFF AT THE MAIN DUCT CONNECTION.
26. SEE SPECIFICATIONS FOR DUCT INSULATION AND DUCT LINER REQUIREMENTS.
27. SEE SHEET 5-MH401 ENLARGED FIRST FLOOR MECHANICAL ROOM PLAN FOR ADDITIONAL INFORMATION.
28. PROVIDE TURNING VANES FOR ALL MITERED ELBOWS.

MECHANICAL ENLARGED KEYNOTES

1. 3" GHWS & CHWR UP TO SECOND FLOOR.
2. 4" HWS & HWR UP IN CHASE.
3. 4" CWS & CWR UP IN CHASE.
4. 2 1/8" REFRIGERANT LINES FROM CHILLER 5-CH-36 UP TO CONDENSERS ON ROOF.
5. -
6. -
7. -
8. -
9. -
10. -

NOTE: NOT ALL KEYNOTES MAY BE USED ON EACH PLAN



KEYPLAN

FULLY SPRINKLERED
100% CONSTRUCTION DOCUMENTS

MARK	REVISION DESCRIPTION	DATE

CONSULTANTS:

REGISTERED PROFESSIONAL ENGINEER — REG. NO. 9068 — BRIAN S. WEBSTER — SOUTH DAKOTA — DATE 8/06/2012

ARCHITECTS/ ENGINEERS:

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Drawing Title: ENLARGED 1ST FLOOR MECHANICAL ROOM PLAN

Approved: Project Director

Project Title: Sioux Falls VA Health Care System Acute Inpatient Medical Unit Addition and Renovation

Location: VA Medical Center, 2501 W. 22nd Street, PO Box 5046, Sioux Falls, SD 57117-5046

Date	Checked	Drawn
08/06/2012	BSW	JTC

Project Number: 04100857

Building Number: 5

Drawing Number: 5-MH401

Dwg. 92 of 123

Office of Construction and Facilities Management

Department of Veterans Affairs

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