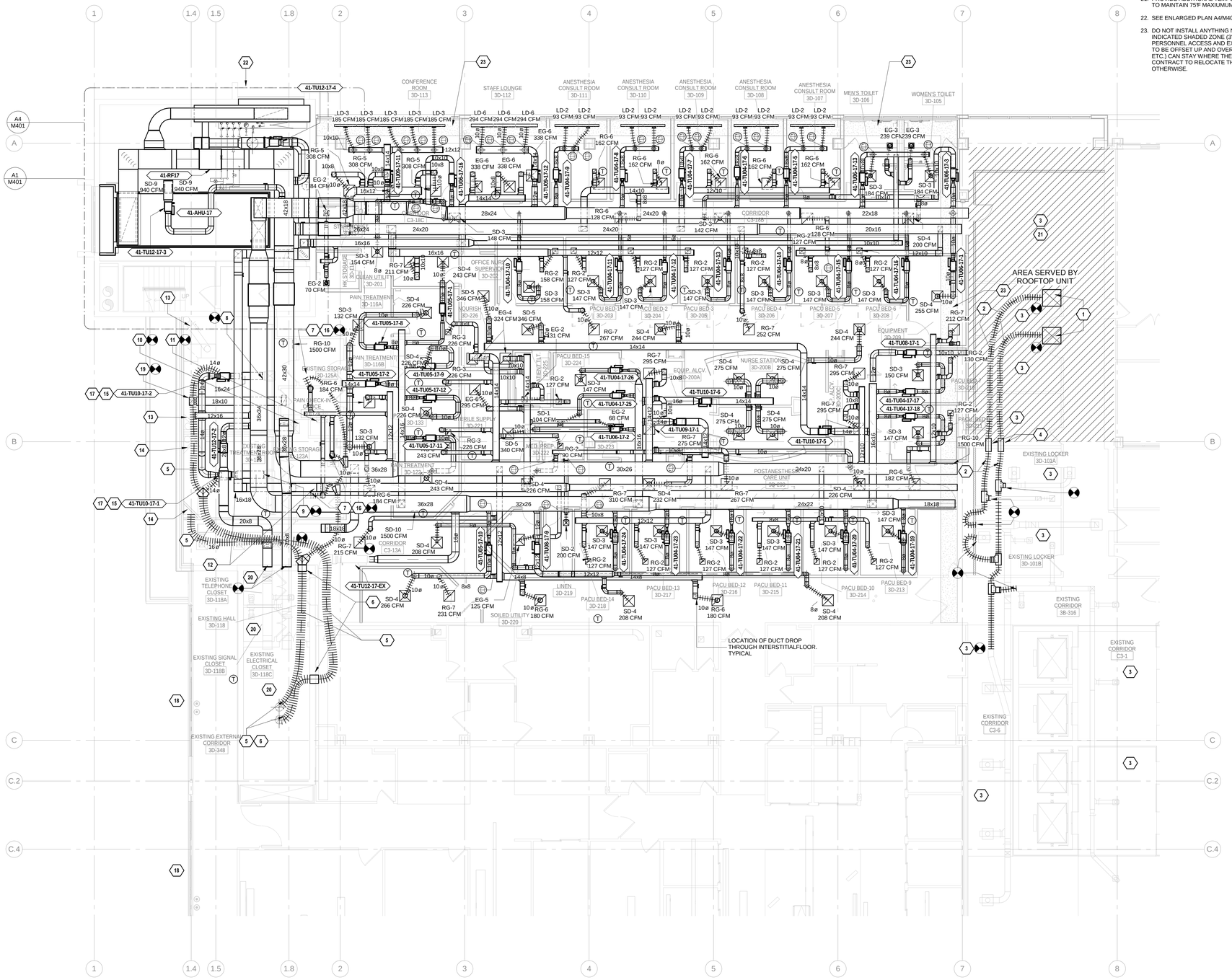


KEYED NOTES

21. PROVIDE ADDITIONAL TEMPORARY COOLING FOR WAITING AREA. USE SPOT COOLERS TO MAINTAIN 75ºF MAXIUMUM.

22. SEE ENLARGED PLAN A4/M401 AND A1/M401.

23. DO NOT INSTALL ANYTHING NEW (DUCTS, FITTINGS, TERMINAL UNITS ETC.) IN THE INDICATED SHADED ZONE (3' WIDE X 6' HIGH). THIS ZONE MUST STAY CLEAR FOR PERSONNEL ACCESS AND EXITING. ALL NEW ITEMS THAT MUST CROSS THIS ZONE ARE TO BE OFFSET UP AND OVER THIS ZONE. EXISTING ITEMS (DUCTS, TERMINAL UNITS ETC.) CAN STAY WHERE THEY ARE. IT IS NOT PART OF THE SCOPE OF WORK IN THIS CONTRACT TO RELOCATE THOSE EXISTING ITEMS OUT OF THIS ZONE UNLESS NOTED OTHERWISE.

GENERAL NOTES

A. PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE HARD SUSPENDED CEILING.

B. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.

C. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.

D. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.

E. FOR TYPICAL STEAM AND WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.

F. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.

G. ALL PRESSURES LISTED ARE GAGE PRESSURE UNLESS OTHERWISE NOTED

H. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.

I. HP STEAM HEADER SET PRESSURE: 60 PSIG NORMAL
60 PSIG LOW DEMAND PERIODS

J. ALTITUDE: 5300 FT. ABOVE SEA LEVEL

K. SEISMIC PROVISIONS REQUIRED - SEE SPECS

L. REPLACE THE TWO EXISTING AIR HANDLERS IN QUADRANT D AS PART OF PHASE 1.

M. EXTEND NEW DUCTWORK AND TERMINALS IN PHASE 1.

N. EXTEND BUILDING HEATING HOT WATER TO THE NEW TERMINAL UNITS.

O. MOST OF THE WORK SHOWN IN FLOOR PLANS IS INTENDED TO BE LOCATED IN THE INTERSTITIAL SPACE IN ACCORDANCE WITH VA STANDARDS. IN GENERAL, THE WORK LOCATED BELOW THE INTERSTITIAL FLOOR IS GENERALLY LIMITED TO DUCT MOUNTS, DUCT RUNOUTS , AND FINAL CONNECTIONS TO CEILING MOUNTED DIFFUSERS AHD GRILLES, AS DICTATED BY THE VA STANDARDS.

P. COORDINATE WORK WITH THAT OF ALL DISCIPLINES, INCLUDING BOTH THE NEW WORK AND THE EXISTING TO REMAIN. RELOCATE EXISTING TO REMAIN WORK AS REQUIRED TO ACCOMODATE THE PHASING REQUIREMENTS AND THE NEW WORK.

Q. COORDINATE SHUTDOWNS AND OUTAGES WITH VA COR 2 WEEKS PRIOR TO COMMENCEMENT OF WORK.

R. SMALLEST RECTANGULAR DUCT SIZE IS 8 X 8 UNLESS OTHERWISE SPECIFIED.

S. SMALLEST ROUND DUCT SIZE IS 8 Ø UNLESS OTHERWISE SPECIFIED.

T. SMALLEST FLEX DUCT SIZE IS 8 Ø UNLESS OTHERWISE SPECIFIED.

U. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED TO MEET THE FOLLOWING PRESSURE CLASSIFICATION REQUIREMENTS;

SUPPLY:

MAIN SUPPLY DUCT, BRANCH SUPPLY DUCT, TAKE OFF TO TERMINAL UNITS: 4 IN. W.G.

TERMINAL UNITS TO DIFFUSERS: 2 IN. W.G.

RETURN/EXHAUST:

MAIN RETURN AND EXHAUST DUCTS: -3 IN W.G.

BRANCH RETURN AND EXHAUST DUCTS, TAKE OFF TO TERMINAL UNITS: -2 IN W.G.

V. MAINTAIN EXISTING WALKWAY THAT EXTENDS AROUND THER PERIMETER OF THE INTERSTITIAL SPACE.

W. PROVIDE VOLUME BALANCING DAMPER IN EACH BRANCH DUCT THAT SERVES A CEILING DIFFUSER, UNLESS THERE IS ONLY ONE CEILING DIFFUSER ON THAT BOX. PROVIDE VOLUME BALANCING DAMPER IN EACH BRANCH DUCT THAT SERVES INDIVIDUAL RETURN AIR GRILLE OR EXHAUST AIR GRILLE.

KEYED NOTES

1. EXISTING SUPPLY AND RETURN MAIN DUCTS UP TO ROOFTOP AC UNIT. CONNECT TEMPORARY 12" Ø DUCTS TO EXISTING MAINS.

2. EXTEND TEMPORARY 12" Ø SUPPLY AND RETURN DUCTS AND CONNECT TO EXISTING.

3. REBALANCE SYSTEM TO PROVIDE ABOUT 1/2 CFM PER SQ FT IN ALL SPACES.

4. 14"x 14" SUPPLY AND RETURN DUCT SECTIONS THROUGH EXISTING INTERSTITIAL WALL. SECTIONS TO BE SHEET METAL. PROVIDE 2-HOUR FIRE DAMPER AT EACH WALL PENETRATION.

5. BEFORE AHU-5 IS TURNED OFF AND REMOVED, PROVIDE TEMPORARY 18" Ø SUPPLY AND RETURN DUCTS FOR EXISTING PAIN MANAGEMENT AREA. ROUTE THESE TEMPORARY 18" Ø DUCTS THROUGH THE ELECTRIC ROOMS AND DOWN THROUGH THE FLOOR AND CONNECT TO THE EXISTING AHU-2 SYSTEM LOCATED IN MECHANICAL ROOM 2D-222. SEE SHEET MH101 AND M201. MINIMIZE DOWNTIME FOR CHANGEOVER. SCHEDULE AND COORDINATE ANY DOWNTIME WITH VA COR.

6. AT WALL AND FLOOR PENETRATIONS, PROVIDE 2-HOUR FIRE DAMPER. DUCT SECTIONS AT PENETRATIONS TO BE SHEET METAL.

7. CONNECT TO EXISTING RETURN GRILLE. BALANCE TO 80 CFM.

8. CONNECT TO EXISTING 4-SLOT LINEAR DIFFUSER. BALANCE TO 650 CFM. PROVIDE BLANK OF PANELS FOR 2 OF THE 4 SLOTS.

9. CONNECT TO EXISTING 4-SLOT LINEAR DIFFUSER. BALANCE TO 550 CFM. PROVIDE BLANK OFF PANELS FOR 2 OF THE 4 SLOTS.

10. BALANCE EXISTING SUPPLY DIFFUSER TO 100 CFM.

11. BALANCE EXISTING SUPPLY DIFFUSER TO 80 CFM.

12. NEW EXHAUST DUCT MAIN MUST CROSS UNDERNEATH NEW SUPPLY MAIN AND RETURN TO ORIGINAL HEIGHT. PROVIDE RADIUS ELBOWS FOR ROUTING.

13. BALANCE EXISTING RETURN GRILLES TO 275 CFM

14. BALANCE EXISTING RETURN GRILLES TO 225 CFM.

15. CONNECT TEMPORARY 18" Ø SUPPLY TO EXISTING TERMINAL UNITS SERVING PAIN MANAGEMENT AREA.

16. CONNECT TEMPORARY 18" Ø RETURN TO EXISTING RETURN DUCTS FOR ROOMS 3D-123, 3D-123A, 3D-125, 3D-125A AND 3D-124.

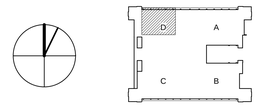
17. AFTER THE NEW AHU-17 SYSTEM AND BRANCH DUCTWORK SERVING PAIN MANAGEMENT TERMINAL UNITS HAS BEEN INSTALLED, REPLACE EXISTING TERMINAL UNITS WITH NEW SINGLE DUCT TERMINAL UNITS AND HWH & HWHR AND CONNECT TO THE NEW AHU-17 SYSTEM AND HWH & HWHR SYSTEM. MINIMIZE DOWNTIME FOR CHANGEOVER TO NEW SYSTEM. SCHEDULE AND COORDINATE ANY DOWNTIME WITH VA COR.

18. BEFORE SHUTDOWN OF AHU-17 REMOVE WINDOWS AND INSTALL TEMPORARY WINDOW COOLING UNITS TO SERVE CORRIDOR 3D-348, MAINTAIN 80ºF MAXIMUM. TEMPORARY COOLING UNITS SHALL REMAIN IN OPERATION UNTIL EXISTING TERMINAL UNIT 41-TU12-17-EX AND RETURN FOR 3D-348 CAN BE CONNECTED TO THE NEW AHU-17 SYSTEM. AFTER 41-TU12-17-EX IS CONNECTED TO THE NEW SYSTEM REMOVE TEMPORARY WINDOW UNITS AND REPLACE WINDOWS. REPAIR TO ORIGINAL CONDITION, MAINTAIN WARRANTY. SCHEDULE AND COORINATE ANY DOWNTIME WITH VA COR.

19. AFTER THE NEW AHU-17 SYSTEM AND RETURN BRANCH DUCTWORK HAS BEEN INSTALLED CONNECT TO EXISTING RETURN DUCTWORK SERVING PAIN TREATMENT ROOMS.

20. PROVIDE TEMPORARY SPOT COOLERS TO MAINTAIN 80°F MAXIMUM FOR ELECTRICAL ROOM AND TWO TELECOM ROOMS.SPOT COOLERS MUST BE OPERATIONAL BEFORE EXISTING AHU-17 IS TURNED OFF. COOLERS MUST REMAIN IN OPERATION UNTIL THESE ROOMS CAN BE SERVED FROM NEW SYSTEM.

KEY PLAN - 3RD FLOOR



A1 MECHANICAL HVAC PLAN - 3RD FLOOR - QUAD D - PACU - PHASE 1

1/8" = 1'-0"

COMPLETION ITEM NO. ____

FULLY SPRINKLERED

#	Revisions	Date
1	ADDENDUM #001	07-15-2014

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Drawing Title	MECHANICAL HVAC - QUAD D - PACU PHASE 1 FLOOR PLAN
Approved: Project Director	
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Location	NMVAHCS RAYMOND G. MURPHY VAMC
Date	SEPTEMBER 26, 2014
Checked	ROS
Drawn	CAK
Project Number	501-324
Building Number	BUILDING 41
Drawing Number	MH102
Dwg.	Of

Office of Construction and Facilities Management
Department of Veterans Affairs

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