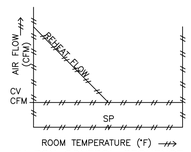
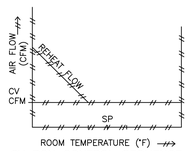


CV BOX CONTROL SEQUENCE

NO DEADBAND

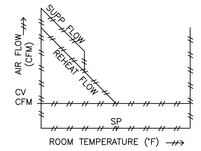
A. UPON FALL IN SPACE TEMPERATURE BELOW SET POINT VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5°, THE ADJUSTABLE TOLERANCE OF ± .5° HAS BEEN SELECTED TO PREVENT VALVE HUNTING
B. THE REVERSE SHALL OCCUR ON RISE IN SPACE TEMPERATURE.



CV BOX CONTROL SEQUENCE

W/DEADBAND

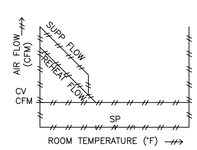
A. SET POINTS SHALL SET AS FOLLOWS:
COOLING 75° F (ADJ)
HEATING 70° F (ADJ)
DEADBAND OF 5° F BETWEEN HEATING AND COOLING SET POINT WILL BE MAINTAINED
B. UPON FALL IN SPACE TEMPERATURE BELOW SET POINT VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5°.THE ADJUSTABLE TOLERANCE OF ± .5° HAS BEEN SELECTED TO PREVENT VALVE HUNTING
C. THE REVERSE SHALL OCCUR ON RISE IN SPACE TEMPERATURE.



CV BOX CONTROL SEQUENCE

NO DEADBAND

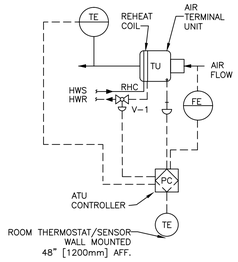
A. UPON FALL IN SPACE TEMPERATURE BELOW SET POINT VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5°, THE ADJUSTABLE TOLERANCE OF ± .5° HAS BEEN SELECTED TO PREVENT VALVE HUNTING
B. VALVE V-2 SHALL BE ENABLED WHEN OUTSIDE AIR FALLS BELOW 40° F (ADJ) AND VALVE V-1 HAS BEEN MODULATED OPEN ABOVE 30% (ADJ) V-2 SHALL THEN BE MODULATED TO MAINTAIN SET POINT ± .5° F. THE ADJUSTABLE TOLERANCE OF .5° F HAS BEEN SELECTED TO PREVENT VALVE HUNTING.
C. THE REVERSE SHALL OCCUR ON RISE IN SPACE TEMPERATURE.



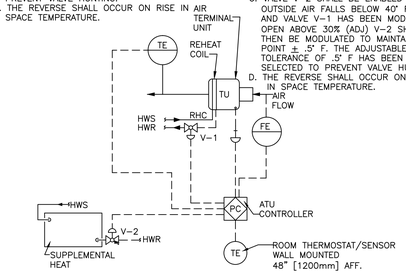
CV BOX CONTROL SEQUENCE

W/DEADBAND

A. SET POINTS SHALL SET AS FOLLOWS:
COOLING 75° F (ADJ)
HEATING 70° F (ADJ)
DEADBAND OF 5° F BETWEEN HEATING AND COOLING SET POINT WILL BE MAINTAINED
B. UPON FALL IN SPACE TEMPERATURE BELOW SET POINT VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5°,
THE ADJUSTABLE TOLERANCE OF ± .5° HAS BEEN SELECTED TO PREVENT VALVE HUNTING
C. VALVE V-2 SHALL BE ENABLED WHEN OUTSIDE AIR FALLS BELOW 40° F (ADJ) AND VALVE V-1 HAS BEEN MODULATED OPEN ABOVE 30% (ADJ) V-2 SHALL THEN BE MODULATED TO MAINTAIN SET POINT ± .5° F. THE ADJUSTABLE TOLERANCE OF ± .5° F HAS BEEN SELECTED TO PREVENT VALVE HUNTING.
D. THE REVERSE SHALL OCCUR ON RISE IN SPACE TEMPERATURE.



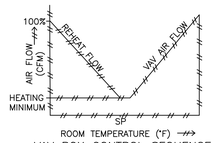
NO SUPPLEMENTAL HEATING



WITH SUPPLEMENTAL HEATING

1 M-506 CONSTANT VOLUME AIR TERMINAL UNIT CONTROL DIAGRAM

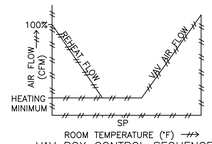
SCALE: NTS



VAV BOX CONTROL SEQUENCE

NO DEADBAND

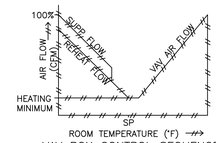
A. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.
B. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5° F. THE ADJUSTABLE TOLERANCE OF ± .5° F HAS BEEN SELECTED TO PREVENT VALVE HUNTING
C. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE.



VAV BOX CONTROL SEQUENCE

W/DEADBAND

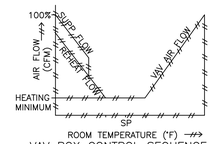
A. SET POINTS SHALL BE SET AS FOLLOWS:
COOLING 75°F (ADJ)
HEATING 70°F(ADJ)
DEADBAND OF 5° F BETWEEN HEATING AND COOLING SET POINTS WILL BE MAINTAINED.
B. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.
C. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5°. F. THE ADJUSTABLE TOLERANCE OF ± .5° F HAS BEEN SELECTED TO PREVENT VALVE HUNTING
D. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE.



VAV BOX CONTROL SEQUENCE

NO DEADBAND

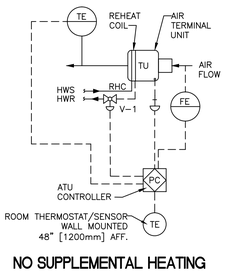
A. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.
B. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5° F. THE ADJUSTABLE TOLERANCE OF ± .5° F HAS BEEN SELECTED TO PREVENT VALVE HUNTING
C. VALVE V-2 SHALL BE ENABLED WHEN OUTSIDE AIR FALLS BELOW 40° F (ADJ) AND VALVE V-1 HAS BEEN MODULATED OPEN ABOVE 30% (ADJ). VALVE V-2 SHALL MAINTAIN SET POINT ± .5° F. THE ADJUSTABLE TOLERANCE OF ± .5°F HAS BEEN SELECTED TO PREVENT VALVE HUNTING. THE REVERSE SHALL OCCUR ON A RISE IN SPACE TEMPERATURE.



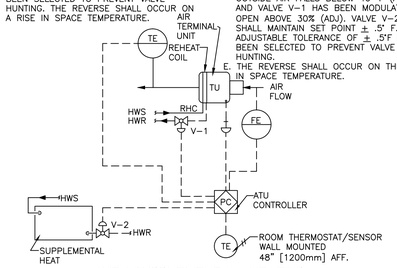
VAV BOX CONTROL SEQUENCE

W/DEADBAND

A. SET POINTS SHALL BE SET AS FOLLOWS:
COOLING 75°F (ADJ)
HEATING 70°F(ADJ)
DEADBAND OF 5° F BETWEEN HEATING AND COOLING SET POINTS WILL BE MAINTAINED.
B. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.
C. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5°. F. THE ADJUSTABLE TOLERANCE OF ± .5° F HAS BEEN SELECTED TO PREVENT VALVE HUNTING
D. VALVE V-2 SHALL BE ENABLED WHEN OUTSIDE AIR FALLS BELOW 40° F (ADJ) AND VALVE V-1 HAS BEEN MODULATED OPEN ABOVE 30% (ADJ). VALVE V-2 SHALL MAINTAIN SET POINT ± .5° F. THE ADJUSTABLE TOLERANCE OF ± .5°F HAS BEEN SELECTED TO PREVENT VALVE HUNTING.
E. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE.



NO SUPPLEMENTAL HEATING



WITH SUPPLEMENTAL HEATING

2 M-506 VARIABLE VOLUME AIR TERMINAL UNIT CONTROL DIAGRAM

SCALE: NTS

100% CONSTRUCTION DOCUMENTS

CONSTRUCTION DOCUMENTS	2/17/12
Revisions:	Date

CONSULTANTS:

Professional Engineer (Mechanical) JOHN MATHIS PE 13143 WYOMING Date 6/14/2013

ARCHITECT/ENGINEERS:

APOGEE Consulting Group, PA
www.acg-pa.com
Apogee Project # 2011 079
Raleigh, NC
Indianapolis, IN
Columbia, MD
Atlanta, GA

Drawing Title: CONTROL DETAILS

Approved: Project Director

Project Title: MODIFY AHU-18 FOR RETURN AIR DEPT. OF VETERAN AFFAIRS VAMC CHEYENNE

Location: CHEYENNE, WYOMING

Date: June 14, 2013 | Checked: JWM | Drawn: JWM

Project Number: 442-13-102

Building Number: AS NOTED

Drawing Number: M-504

Dwg. 11 of 20

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO ALL PROJECT SPECIFICATIONS, LOCAL, STATE, AND NATIONAL CODES. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
2. THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR HIS WORK.
3. ALL MATERIALS, EQUIPMENT AND PRODUCTS INCORPORATED IN THE WORK UNDER THE CONTRACT SHALL BE NEW, OF A SUITABLE GRADE FOR THE PURPOSES INTENDED, AND TO THE EXTENT POSSIBLE, STANDARD PRODUCTS OF THE VARIOUS MANUFACTURES EXCEPT WHERE SPECIAL CONSTRUCTION OR PERFORMANCE FEATURES ARE CALLED FOR.
4. ANY EQUIPMENT OR MATERIAL DEVIATIONS FROM THAT SPECIFIED OR DETAILED ON THIS DRAWING SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT/ENGINEER. ALL PROPOSED EQUIPMENT DEVIATIONS SUBMITTED SHALL BE SIMILAR BOTH IN QUALITY AND CAPACITY TO THAT EQUIPMENT SPECIFIED.
5. ALL MECHANICAL EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS LABORATORIES (U.L.).
6. THE MECHANICAL CONTRACTOR SHALL INSTALL EQUIPMENT AS SHOWN ON THE DRAWINGS ALLOWING FOR SUFFICIENT ACCESS AND CLEARANCE SPACE FOR EQUIPMENT MAINTENANCE, REPAIRS AND REPLACEMENT. PROVIDE PROPER CLEARANCES FOR REQUIRED PIPING AND ELECTRICAL SERVICES AND CONNECTIONS. INSTALL ALL EQUIPMENT WITH REQUIRED ACCESS AND CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS AND/OR WITH ALL APPLICABLE CODES AND STANDARDS.
7. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION AND ROUTING OF ALL PROPOSED DUCTWORK, PIPING AND EQUIPMENT WITH THE EXISTING BUILDING STRUCTURE.
8. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT EQUIPMENT. LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION.
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE EQUIPMENT PROVIDED UNDER THIS CONTRACT.
10. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING FOR HIS EQUIPMENT.
11. DUCTWORK AND PIPING LAYOUTS AND LOCATIONS ARE SCHEMATIC. DO NOT SCALE THESE DRAWINGS. EXACT ROUTING OF DUCTWORK AND PIPING MUST BE DETERMINED IN THE FIELD. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BY ACTUAL MEASUREMENT AND OBSERVATION BEFORE ORDERING OR FABRICATING ANY DUCTWORK, PIPING OR EQUIPMENT. ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS OR DIMENSIONS SHALL BE REPORTED TO THE ENGINEER BEFORE THE PERFORMANCE OF ANY WORK. FAILURE TO VERIFY AND REPORT SHALL CONSTITUTE THE CONTRACTOR'S ACCEPTANCE OF THE EXISTING CONDITIONS AS FIT FOR THE PROPER EXECUTION OF HIS WORK.
12. DUCTWORK AND PIPING SHALL BE KEPT AS CLOSE AND HIGH AS POSSIBLE TO THE BUILDING WALLS, CEILING AND FLOOR AND ROOF STRUCTURE IN ORDER THAT THE MAXIMUM AMOUNT OF SPACE IS AVAILABLE. ADDITIONAL OFFSETS, FITTINGS, ETC. NOT SHOWN BUT REQUIRED TO MAINTAIN MAXIMUM CLEARANCE SHALL BE PROVIDED AT NO ADDITIONAL COST.
13. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING, PAINTING AND CLEANING ASSOCIATED WITH THIS PROJECT UNLESS NOTED OTHERWISE.
14. PRIOR TO BIDDING, MECHANICAL CONTRACTOR IS TO VISIT SITE TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS.
15. PROVIDE A COMPLETE 1-YEAR WARRANTY ON ALL LABOR AND MATERIALS.
16. INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
17. THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, INCLUDING THE SCHEDULES AND DETAILS PRIOR TO INSTALLATION OF ANY MECHANICAL SYSTEMS AND SHALL RESOLVE ANY CONFLICTS WITH THE ENGINEER.
18. ALL DUCT SIZES SHOWN ARE FREE AREA SIZES.
19. THE HIGHEST OPERATING COMPONENT OF THE THERMOSTAT SHALL BE MOUNTED AT 48" MAX. A.F.F.
20. INSTALL FLEXIBLE DUCT CONNECTIONS AT THE SUPPLY AND RETURN DUCTWORK CONNECTIONS OF ALL AIR HANDLING UNITS.
21. PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH THE FIRE-RATED WALLS AS SHOWN ON PLANS OR AS REQUIRED. PROVIDE RADIATION DAMPERS AT ALL DIFFUSERS/GRILLES MOUNTED IN FIRE-RATED CEILINGS AND CEILING ASSEMBLIES AS SHOWN ON PLANS OR AS REQUIRED.
22. PROVIDE ACCESS PANELS IN THE DUCTWORK FOR ALL FIRE DAMPERS OR OTHER DUCT MOUNTED EQUIPMENT. LOCATE ACCESS PANEL SO THAT ACCESS TO EQUIPMENT IS EASILY ATTAINED.
23. OUTSIDE AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ALL EXHAUST DISCHARGE AND PLUMBING VENTS.
24. REPLACE ALL FILTERS JUST PRIOR TO ACCEPTANCE BY THE OWNER.
25. ALL WORK MUST BE DONE IN ACCORDANCE WITH THE CHEYENNE VA MEDICAL CENTER'S INFECTION CONTROL PROGRAM.
26. CONSTRUCTION DEBRIS SHALL BE HANDLED AS NOTED IN THE APPLICABLE SPECIFICATION SECTIONS. IN ADDITION CONTRACTOR SHALL INSURE THAT DURING REMOVAL DEBRIS IS PROPERLY SECURED, COMPLETELY ENCASED IN A CART, AND WRAPPED IN PLASTIC TO PREVENT SPILLAGE.

ABBREVIATIONS

AHU	AIR HANDLING UNIT
CFM	CUBIC FEET PER MINUTE
COND	CONDENSATE
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
CU	CONDENSING UNIT
EA	EXHAUST AIR
EF	EXHAUST FAN
EUH	ELECTRIC UNIT HEATER
EOR	ENGINEER OF RECORD
FD	FIRE DAMPER
FPM	FEET PER MINUTE
GUH	GAS UNIT HEATER
HP	HEAT PUMP
L	LOUVER
LP	LIQUID PROPANE
NG	NATURAL GAS
RA	RETURN AIR
RTU	ROOFTOP UNIT
OA	OUTDOOR AIR
PKG	PACKAGE UNIT
SA	SUPPLY AIR
LPS	LOW PRESSURE STEAM
LPSCR	LOW PRESSURE STEAM CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM
MPSCR	MEDIUM PRESSURE STEAM CONDENSATE RETURN
LSD	LINEAR SLOT DIFFUSER
LSRD	LINEAR SLOT RETURN DIFFUSER
SW	SIDE WALL DIFFUSER
RD	RETURN DIFFUSER

MECHANICAL LEGEND:

- T — THERMOSTAT
- CO2 — CO2 SENSOR
- LAY-IN CEILING SUPPLY DIFFUSER
- LAY-IN CEILING RETURN DIFFUSER
- GWB CEILING EXHAUST REGISTER
- LINEAR SLOT DIFFUSER
- LINEAR SLOT RETURN DIFFUSER
- SIDEWALL SUPPLY REGISTER
- RECTANGULAR DUCT
- ROUND DUCT
- DUCT TO BE DEMOLISHED
- BALANCING (VOLUME) DAMPER
- ROUND FLEX DUCT
- RECTANGULAR DUCT - RISER
- FIRE DAMPER
- DUCT SMOKE DETECTOR
- XX-XX / XX CFM — DIFFUSER MARK / DIFFUSER CFM
- H — HUMIDITY SENSOR
- SP — STATIC PRESSURE SENSOR

HVAC DESIGN DATA

DESIGN CONDITIONS	SUMMER TEMP °F	SUMMER TEMP [°C]	SUMMER WET BULB TEMP °F	SUMMER WET BULB TEMP [°C]	SUMMER % HUMIDITY	WINTER TEMP °F	WINTER TEMP [°C]	WINTER DEWPOINT TEMP °F	WINTER DEWPOINT TEMP [°C]	WINTER % HUMIDITY	LOWEST AVERAGE ANNUAL DEWPOINT °F	LOWEST AVERAGE ANNUAL DEWPOINT [°C]
OUTDOOR DESIGN CONDITIONS	89.2	[32]	58.6	[15]	N/A	-6.4	[-21]	0	[-18]	N/A	-13.2	[-25]
INDOOR AREA DESIGN CONDITIONS												
OPERATING ROOMS	66	[19]	58.8	[15]	60	75	[24]	31.4	[-]	20		
PATIENT BEDROOMS	75	[24]	65.2	[18]	60	70	[21]	27.7	[-2]	20		
OFFICE	75	[24]	65.2	[18]	60	70	[21]	27.7	[-2]	20		
EXAMINATION ROOM	75	[24]	65.2	[18]	60	70	[21]	27.7	[-2]	20		
TOILETS - PATIENTS (INTERIOR)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
CLEAN UTILITY / STORAGE ROOM	N/A	N/A	N/A	N/A	N/A	68	[20]	N/A	N/A	N/A		
CLEAN CORE	75	[24]	65.2	[18]	60	70	[21]	27.7	[-2]	20		
CONTROLS & COMMUNICATIONS CENTER	75	[24]	65.2	[18]	60	70	[21]	27.7	[-2]	20		
GAS CYLINDER STORAGE ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
SEMI-RESTRICTED CORRIDOR	75	[24]	65.2	[18]	60	70	[21]	27.7	[-2]	20		
SOILED HOLDING / DISPOSAL ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
HYDROTHERAPY / THERAPEUTIC POOL	75	[24]	65.2	[18]	60	70	[21]	27.7	[-2]	20		
ADMISSION AND MAIN WAITING	75	[24]	65.2	[18]	60	70	[21]	27.7	[-2]	20		
CORRIDORS	75	[24]	65.2	[18]	60	70	[21]	27.7	[-2]	20		
LOCKER ROOM (WITH TOILETS)	75	[24]	65.2	[18]	60	70	[21]	27.7	[-2]	20		
LOCKER ROOM (WITHOUT TOILETS)	75	[24]	65.2	[18]	60	70	[21]	27.7	[-2]	20		
LOUNGE	75	[24]	65.2	[18]	60	70	[21]	27.7	[-2]	20		
TOILETS - PUBLIC (INTERIOR)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
SOILED UTILITY AND STORAGE ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

100% CONSTRUCTION DOCUMENTS

CONSTRUCTION DOCUMENTS	2/17/12
Revisions:	Date

CONSULTANTS:

Professional Engineer (Mechanical) JOHN MATHERS PE 13143 WYOMING Date 12/4/2013

ARCHITECT/ENGINEERS:

APOGEE Consulting Group, PA
www.acg-pa.com
Apogee Project # 2011 079
Raleigh, NC
Indianapolis, IN
Columbia, MD
Atlanta, GA

Drawing Title: MECHANICAL LEGENDS, NOTES, AND SCHEDULES

Approved: Project Director

Project Title: MODIFY AHU-18 FOR RETURN AIR
DEPT. OF VETERAN AFFAIRS
VAMC CHEYENNE

Location: CHEYENNE, WYOMING

Date: June 14, 2013 | Checked: JWM | Drawn: JWM

Project Number: 442-13-102

Building Number: AS NOTED

Drawing Number: M-601
Dwg. 12 of 20

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

three inches = one foot 6" 1 0 6" 2
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

AIR FLOW MEASURING DEVICE SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	AIR FLOW				DUCT SIZE				APD		REMARKS
			MIN		MAX		WIDTH		HEIGHT				
			CFM	[L/s]	CFM	[L/s]	IN	[mm]	IN	[mm]	IN	[mm]	
1B-AFMD1	4-DL	1B-AHU-1	4650	[2200]	7880	[3700]	---	[ ]	---	[ ]	---	[ ]	MINIMUM OA DUCT - MOUNTED IN NEW PLENUM
1B-AFMD2	4-DL	1B-AHU-1	5735	[2700]	9880	[4700]	32	[800]	36	[900]	0.1	[3]	MAIN SUPPLY AIR
1B-AFMD3	4-DL	1B-AHU-1	3820	[1800]	8040	[3800]	---	[ ]	---	[ ]	---	[ ]	RETURN AIR - MOUNTED IN NEW PLENUM
1B-AFMD4	4-DL	1B-AHU-1	1915	[900]	1915	[900]	18	[450]	18	[450]	0.1	[3]	EXHAUST AIR

AIR TERMINAL UNIT SIZING SCHEDULE

SIZE	MIN ALLOWABLE AIR FLOW		MAX ALLOWABLE AIR FLOW		DUCT INLET SIZE		MAX APD		MAXIMUM SOUND POWER LEVEL (Re: 10^{-12} WATTS) FOR BOX DISCHARGE AT MAXIMUM INLET DUCT						HOT WATER HEATING COIL								REMARKS
									OCTAVE BANDS						EAT		EWT		FLOW		MAX WPD		PIPE RUNOUT SIZE TO COIL		
	CFM	[L/s]	CFM	[L/s]	IN	[mm]	IN WG	[Pa]	2	3	4	5	6	7	°F	[°C]	°F	[°C]	GPM	[L/m]	FT	[kPa]	IN	[mm]	
A	60	[28]	170	[80]	4	[100]	0.4	[100]	69	65	58	52	51	47	55	[13]	140	[60]	0.5	[2]	3	[9]	0.75	[19]	----
B	90	[42]	260	[120]	5	[130]	0.4	[100]	69	63	59	52	51	47	55	[13]	140	[60]	0.5	[2]	3	[9]	0.75	[19]	----
C	130	[61]	380	[180]	6	[150]	0.4	[100]	69	67	61	55	52	49	55	[13]	140	[60]	0.7	[3]	4	[12]	0.75	[19]	----
D	160	[76]	490	[230]	7	[180]	0.4	[100]	70	68	63	57	53	49	55	[13]	140	[60]	0.7	[3]	4	[12]	0.75	[19]	----
E	230	[110]	680	[320]	8	[200]	0.4	[100]	71	68	59	53	51	47	55	[13]	140	[60]	1	[4]	3	[9]	0.75	[19]	----
F	270	[130]	790	[370]	9	[230]	0.4	[100]	71	69	60	54	51	47	55	[13]	140	[60]	1.5	[6]	4	[12]	0.75	[19]	----
G	350	[170]	1050	[500]	10	[250]	0.4	[100]	74	68	61	57	54	52	55	[13]	140	[60]	1.5	[6]	4	[12]	0.75	[19]	----
H	500	[240]	1500	[710]	12	[300]	0.4	[100]	73	69	64	59	57	53	55	[13]	140	[60]	2.5	[10]	3	[9]	0.75	[19]	----
I	750	[350]	2250	[1100]	14	[350]	0.4	[100]	73	68	65	61	61	59	55	[13]	140	[60]	3.5	[13]	4	[12]	0.75	[19]	----
J	1000	[470]	3000	[1400]	16	[400]	0.4	[100]	73	68	66	60	58	55	55	[13]	140	[60]	4.5	[17]	4	[12]	1	[25]	----
K	500	[240]	1500	[710]	12	[300]	0.4	[100]	73	69	64	59	57	53	--	--	--	--	--	--	--	--	--	--	----

NOTES:

1. INLET STATIC BASED ON ARI BB5-95.
2. THIS SCHEDULE IS USED WITH THE TERMINAL UNIT SCHEDULE.
3. CONTROL SEQUENCE SHALL BE AS INDICATED ON THE AIR TERMINAL UNIT SCHEDULE.
4. PROVIDE SOUND ATTENUATION AFTER-SECTION AS REQUIRED TO MEET ROOM NC LEVEL.

FAN SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW		TSP		FAN								MOTOR ELECTRICAL							CONTROL SEQUENCE	REMARKS
								TYPE	WHEEL	CLASS	ARRANGEMENT, ROTATION, AND DISCHARGE	DIAMETER		MIN % EFF	DRIVE	FAN MAX RPM	NOMINAL POWER			PHASE	VOLT	RPM	SPEED CONTROL		
				CFM	[L/s]	IN	[Pa]					IN	[mm]				BHP	HP	[kW]						
1B-SF1	4-DL	B-WING 2ND & 3RD FLOORS	1B-AHU-1	9880	[4700]		[ ]	DRAW-THRU	PLUG	---	---	---	[ ]	---	BELT	2019	---	15	[11]	3	460	---	VARIABLE	VFC	EXISTING
1B-RF1	4-DL	B-WING 2ND & 3RD FLOORS	1B-AHU-1	8040	[3800]	2.5	[630]	IN-LINE	MF	---	---	22	[550]	68%	BELT	1839	4.76	5	[4]	3	208	1725	VARIABLE		NEW
1B-EF1	4-DL	B-WING 2ND & 3RD FLOORS	1B-AHU-1	1915	[900]	1.5	[380]	UTILITY	BW	---	CW,UB		[ ]	61%	BELT	1677	0.79	0.75	[1]	3	208	1725	VARIABLE		NEW

NOTE:

ALL SELECTIONS ARE BASED ON AN ALTITUDE OF 6062 FEET.

CHILLED WATER COOLING COIL SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW		MAX FACE VELOCITY		APD		EAT				LAT				TOTAL CAPACITY		SENSIBLE CAPACITY		CHILLED WATER								REMARKS
										Db		Wb		Db		Wb						FLOW		EWT		LWT		MAX WPD		
				CFM	[L/s]	FPM	[M/s]	IN WG	[Pa]	°F	[°C]	°F	[°C]	°F	[°C]	°F	[°C]	MBH	[kW]	MBH	[kW]	GPM	[L/s]	°F	[°C]	°F	[°C]	FT	[M]	
1B-CC1	4-DL	B-WING 2ND & 3RD FLOORS	1B-AHU-1	9880	[4700]	589	[3]	0.48	[120]	81.7	[28]	61.0	[16]	55	[13]	52.34	[11]	262.3	[77]	242.4	[71]	54.5	[3]	45	[7]	55	[13]	16.3	[5]	EXISTING COIL REBALANCE TO VALUES SHOWN

NOTES:

BOTH COILS ARE EXISTING.

100% CONSTRUCTION DOCUMENTS

CONSTRUCTION DOCUMENTS	2/17/12
Revisions:	Date

CONSULTANTS:

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Atlanta, GA

Drawing Title: MECHANICAL SCHEDULES

Approved: Project Director

Project Title: MODIFY AHU-18 FOR RETURN AIR
DEPT. OF VETERAN AFFAIRS
VAMC CHEYENNE

Location: CHEYENNE, WYOMING

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Drawing Number: M-602
Dwg. 13 of 20

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

three inches = one foot 6"
one and one half inches = one foot 1 6" 0
one inch = one foot 2 6" 0
three quarters inch = one foot 2 6" 0
one half inch = one foot 4 0
three eighths inch = one foot 4 0
one quarter inch = one foot 8 4 0
one eighth inch = one foot 16 8 4 0

AIR DEVICE SCHEDULE (SUPPLY)

MARK	TYPE	AIR FLOW MIN CFM	AIR FLOW MIN [L/s]	AIR FLOW MAX CFM	AIR FLOW MAX [L/s]	MAX APD IN WG	MAX APD [Pa]	MOUNTING	PANEL/FRAME SIZE IN x IN	PANEL/FRAME SIZE [mm x mm]	NECK SIZE IN	NECK SIZE [mm]	NC	DAMPER	FINISH	REMARKS
SD-37	LOUVERED FACE	51	[24]	150	[71]	0.06	[15]	CEILING	24 x 24	[600 x 600]	6	150		NONE	WHITE	-----
SD-38	LOUVERED FACE	85	[40]	250	[120]	0.06	[15]	CEILING	24 x 24	[600 x 600]	8	200		NONE	WHITE	-----
SD-39	LOUVERED FACE	85	[40]	250	[120]	0.06	[15]	CEILING	24 x 24	[600 x 600]	8	200		NONE	WHITE	-----
SD-40	LOUVERED FACE	95	[45]	115	[54]	0.06	[15]	CEILING	24 x 24	[600 x 600]	6	150		NONE	WHITE	-----
SD-41	LOUVERED FACE	135	[64]	150	[71]	0.06	[15]	CEILING	24 x 24	[600 x 600]	8	200		NONE	WHITE	-----
SD-42	LOUVERED FACE	145	[68]	145	[68]	0.06	[15]	CEILING	24 x 24	[600 x 600]	8	200		NONE	WHITE	-----
SD-43	LOUVERED FACE	165	[78]	430	[200]	0.05	[13]	CEILING	24 x 24	[600 x 600]	12	300		NONE	WHITE	-----
SD-44	LOUVERED FACE	160	[76]	420	[200]	0.05	[13]	CEILING	24 x 24	[600 x 600]	12	300		NONE	WHITE	-----
SD-45	LOUVERED FACE	100	[47]	100	[47]	0.06	[15]	CEILING	24 x 24	[600 x 600]	6	150		NONE	WHITE	-----
SD-46	LOUVERED FACE	110	[52]	110	[52]	0.06	[15]	CEILING	24 x 24	[600 x 600]	6	150		NONE	WHITE	-----
SD-47	LOUVERED FACE	115	[54]	300	[140]	0.065	[16]	CEILING	24 x 24	[600 x 600]	10	250		NONE	WHITE	-----
SD-48	LOUVERED FACE	150	[71]	395	[190]	0.065	[16]	CEILING	24 x 24	[600 x 600]	10	250		NONE	WHITE	-----
SD-49	LOUVERED FACE	165	[78]	165	[78]	0.06	[15]	CEILING	24 x 24	[600 x 600]	8	200		NONE	WHITE	-----
SD-50	LOUVERED FACE	180	[85]	440	[210]	0.05	[13]	CEILING	24 x 24	[600 x 600]	12	300		NONE	WHITE	-----
SD-51	LOUVERED FACE	100	[47]	100	[47]	0.06	[15]	CEILING	24 x 24	[600 x 600]	6	150		NONE	WHITE	-----
SD-52	LOUVERED FACE	100	[47]	100	[47]	0.06	[15]	CEILING	24 x 24	[600 x 600]	6	150		NONE	WHITE	-----
SD-53	LOUVERED FACE	105	[50]	260	[120]	0.065	[16]	CEILING	24 x 24	[600 x 600]	10	250		NONE	WHITE	-----
SD-54	LOUVERED FACE	103	[49]	115	[54]	0.06	[15]	CEILING	24 x 24	[600 x 600]	6	150		NONE	WHITE	-----
SD-55	LOUVERED FACE	150	[71]	390	[180]	0.065	[16]	CEILING	24 x 24	[600 x 600]	10	250		NONE	WHITE	-----
SD-56	LOUVERED FACE	220	[100]	585	[280]	0.09	[23]	CEILING	24 x 24	[600 x 600]	12	300		NONE	WHITE	-----
SD-57	LOUVERED FACE	250	[120]	620	[290]	0.09	[23]	CEILING	24 x 24	[600 x 600]	12	300		NONE	WHITE	-----
SD-58	LOUVERED FACE	135	[64]	385	[180]	0.065	[16]	CEILING	24 x 24	[600 x 600]	10	250		NONE	WHITE	-----
SD-59	LOUVERED FACE	210	[99]	560	[260]	0.09	[23]	CEILING	24 x 24	[600 x 600]	12	300		NONE	WHITE	-----
SD-60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	NOT USED
SD-61	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	NOT USED
SD-62	LOUVERED FACE	115	[54]	270	[130]	0.06	[15]	CEILING	24 x 24	[600 x 600]	8	200		NONE	WHITE	-----
SD-63	LOUVERED FACE	94	[44]	150	[71]	0.06	[15]	CEILING	24 x 24	[600 x 600]	6	150		NONE	WHITE	-----
SD-64	LOUVERED FACE	111	[52]	165	[78]	0.06	[15]	CEILING	24 x 24	[600 x 600]	6	150		NONE	WHITE	-----
SD-65	LOUVERED FACE	120	[57]	310	[150]	0.065	[16]	CEILING	24 x 24	[600 x 600]	10	250		NONE	WHITE	-----
SD-66	LOUVERED FACE	240	[110]	260	[120]	0.06	[15]	CEILING	24 x 24	[600 x 600]	8	200		NONE	WHITE	-----
SD-67	LOUVERED FACE	190	[90]	190	[90]	0.06	[15]	CEILING	24 x 24	[600 x 600]	8	200		NONE	WHITE	-----
SD-68	LOUVERED FACE	170	[80]	440	[210]	0.05	[13]	CEILING	24 x 24	[600 x 600]	12	300		NONE	WHITE	-----
SD-69	LOUVERED FACE	111	[52]	165	[78]	0.06	[15]	CEILING	24 x 24	[600 x 600]	6	150		NONE	WHITE	-----
SD-70	LOUVERED FACE	330	[160]	620	[290]	0.09	[23]	CEILING	24 x 24	[600 x 600]	12	300		NONE	WHITE	-----
SD-71	LOUVERED FACE	111	[52]	165	[78]	0.06	[15]	CEILING	24 x 24	[600 x 600]	6	150		NONE	WHITE	-----

NOTES:

1. SEE FLOOR PLAN FOR THROW PATTERN.
2. SEE DETAIL FOR DAMPER IN BRANCH DUCT SERVING EACH DIFFUSER.
3. PROVIDE SQUARE TO ROUND ADAPTER.

HOT WATER HEATING COIL SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	APPLICATION	AIR FLOW CFM	AIR FLOW [L/s]	MAX FACE VELOCITY FPM	MAX FACE VELOCITY [M/s]	APD IN WG	APD [Pa]	TEMPERATURES EAT °F	TEMPERATURES EAT [°C]	TEMPERATURES LAT °F	TEMPERATURES LAT [°C]	TOTAL MIN CAPACITY MBH	TOTAL MIN CAPACITY [kW]	HOT WATER FLOW GPM	HOT WATER FLOW [L/s]	HOT WATER EWT °F	HOT WATER EWT [°C]	HOT WATER LWT °F	HOT WATER LWT [°C]	HOT WATER WPD FT	HOT WATER WPD [kPa]	% GLYCOL	REMARKS
1B-HWHC1	4-DL	B-WING 2ND & 3RD FLOORS	1B-AHU-1	PREHEAT	9880	[4700]	589	[3]	0.17	[43]	30	[-1]	90	[32]	571.5	[2000]	57.2	[4]	180	[82]	160	[71]	8.0	[24]	50	EXISTING COIL REBALANCE TO VALUES SHOWN

AIR FILTER SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	MERV RATING	AIR FLOW CFM	AIR FLOW [L/s]	APD INITIAL IN	APD INITIAL [mm]	APD CHANGEOVER IN	APD CHANGEOVER [mm]	HOUSING TYPE	CARTRIDGES #	CARTRIDGES SIZE IN	CARTRIDGES SIZE [mm]	ARRANGEMENT	REMARKS
1B-PF1	4-DL	B-WING 2ND & 3RD FLOORS	1B-AHU-1	8	9880	[4700]	0.26	[7]	0.5	[13]	SIDE	---	---	---	---	EXISTING
1B-PF2	4-DL	B-WING 2ND & 3RD FLOORS	1B-AHU-1	8	9880	[4700]	0.26	[7]	0.5	[13]	SIDE	---	---	---	---	EXISTING
1B-FF1	4-DL	B-WING 2ND & 3RD FLOORS	1B-AHU-1	13	9880	[4700]	0.38	[10]	0.6	[15]	SIDE	---	---	---	---	EXISTING

100% CONSTRUCTION DOCUMENTS

CONSTRUCTION DOCUMENTS	2/17/12
Revisions:	Date

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Drawing Title: MECHANICAL SCHEDULES

Approved: Project Director

Project Title: MODIFY AHU-18 FOR RETURN AIR
DEPT. OF VETERAN AFFAIRS
VAMC CHEYENNE

Location: CHEYENNE, WYOMING

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Project Number: 442-13-102

Building Number: AS NOTED

Drawing Number: M-603
Dwg. 14 of 20

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

AIR DEVICE SCHEDULE (RETURN + EXHAUST)

MARK	TYPE	AIR FLOW MIN CFM	AIR FLOW MIN [L/s]	AIR FLOW MAX CFM	AIR FLOW MAX [L/s]	MAX APD IN WG	MAX APD [Pa]	MOUNTING	PANEL/FRAME SIZE IN x IN	PANEL/FRAME SIZE [mm x mm]	NECK SIZE IN x IN	NECK SIZE [mm x mm]	NC	DAMPER	FINISH	REMARKS
RG-24	LOUVERED FACE	165	[78]	165	[78]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 x 10	[250 x 250]		NONE	WHITE	
RG-25	LOUVERED FACE	150	[71]	395	[190]	0.1	25.000	CEILING	14 x 14	[340 x 340]	12 x 12	[300 x 300]		NONE	WHITE	-----
RG-26	LOUVERED FACE	95	[45]	235	[110]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 x 10	[250 x 250]		NONE	WHITE	-----
RG-27	LOUVERED FACE	141	[67]	415	[200]	0.1	25.000	CEILING	14 x 14	[340 x 340]	12 x 12	[300 x 300]		NONE	WHITE	-----
RG-28	LOUVERED FACE	100	[47]	100	[47]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 x 6	[150 x 150]		NONE	WHITE	-----
RG-29	LOUVERED FACE	115	[54]	300	[140]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 x 10	[250 x 250]		NONE	WHITE	-----
RG-30	LOUVERED FACE	110	[52]	110	[52]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 x 6	[150 x 150]		NONE	WHITE	-----
RG-31	LOUVERED FACE	100	[47]	100	[47]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 x 6	[150 x 150]		NONE	WHITE	-----
RG-32	LOUVERED FACE	160	[76]	430	[200]	0.1	25.000	CEILING	14 x 14	[340 x 340]	12 x 12	[300 x 300]		NONE	WHITE	-----
RG-33	LOUVERED FACE	165	[78]	430	[200]	0.1	25.000	CEILING	14 x 14	[340 x 340]	12 x 12	[300 x 300]		NONE	WHITE	-----
RG-34	LOUVERED FACE	145	[68]	145	[68]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 x 10	[250 x 250]		NONE	WHITE	-----
RG-35	LOUVERED FACE	135	[64]	155	[73]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 x 10	[250 x 250]		NONE	WHITE	-----
RG-36	LOUVERED FACE	95	[45]	115	[54]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 x 6	[150 x 150]		NONE	WHITE	-----
RG-37	LOUVERED FACE	36	[17]	40	[19]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 x 6	[150 x 150]		NONE	WHITE	-----
RG-38	LOUVERED FACE	105	[50]	260	[120]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 x 10	[250 x 250]		NONE	WHITE	-----
RG-39	LOUVERED FACE	100	[47]	100	[47]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 x 6	[150 x 150]		NONE	WHITE	-----
EG-14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		-----	-----	NOT USED
EG-15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		-----	-----	NOT USED
EG-16	LOUVERED FACE	75	[35]	75	[35]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 x 6	[150 x 150]		NONE	WHITE	-----
EG-17	LOUVERED FACE	115	[54]	115	[54]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 x 6	[150 x 150]		NONE	WHITE	-----
EG-18	LOUVERED FACE	75	[35]	75	[35]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 x 6	[150 x 150]		NONE	WHITE	-----
EG-19	LOUVERED FACE	180	[85]	180	[85]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 x 10	[250 x 250]		NONE	WHITE	-----
EG-20	LOUVERED FACE	75	[35]	75	[35]	0.1	0.000	CEILING	8 x 6	[190 x 140]	6 x 4	[150 x 100]		NONE	WHITE	-----
RG-40	LOUVERED FACE	191	[90]	510	[240]	0.1	25.000	CEILING	24 x 12	[590 x 290]	22 X 10	[550 x 250]		NONE	WHITE	-----
RG-41	LOUVERED FACE	250	[120]	620	[290]	0.1	25.000	CEILING	24 x 12	[590 x 290]	22 X 10	[550 x 250]		NONE	WHITE	-----
RG-42	LOUVERED FACE	290	[140]	545	[260]	0.1	25.000	CEILING	24 x 12	[590 x 290]	22 X 10	[550 x 250]		NONE	WHITE	-----
RG-43	LOUVERED FACE	126	[59]	310	[150]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 X 10	[250 x 250]		NONE	WHITE	-----
RG-44	LOUVERED FACE	109	[51]	310	[150]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 X 10	[250 x 250]		NONE	WHITE	-----
RG-45	LOUVERED FACE	210	[99]	560	[260]	0.1	25.000	CEILING	24 x 12	[590 x 290]	22 X 10	[550 x 250]		NONE	WHITE	-----
RG-46	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		-----	-----	NOT USED
RG-47	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		-----	-----	NOT USED
RG-48	LOUVERED FACE	77	[36]	180	[85]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 X 10	[250 x 250]		NONE	WHITE	-----
RG-49	LOUVERED FACE	162	[76]	250	[120]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 X 10	[250 x 250]		NONE	WHITE	-----
RG-50	LOUVERED FACE	91	[43]	235	[110]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 X 10	[250 x 250]		NONE	WHITE	-----
RG-51	LOUVERED FACE	194	[92]	210	[99]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 X 10	[250 x 250]		NONE	WHITE	-----
RG-52	LOUVERED FACE	115	[54]	115	[54]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 X 6	[150 x 150]		NONE	WHITE	-----
RG-53	LOUVERED FACE	158	[75]	235	[110]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 X 10	[250 x 250]		NONE	WHITE	-----
RG-54	LOUVERED FACE	141	[67]	365	[170]	0.1	25.000	CEILING	14 x 14	[340 x 340]	12 x 12	[300 x 300]		NONE	WHITE	-----
EG-21	LOUVERED FACE	75	[35]	75	[35]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 X 6	[150 x 150]		NONE	WHITE	-----
EG-22	LOUVERED FACE	75	[35]	75	[35]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 X 6	[150 x 150]		NONE	WHITE	-----
EG-23	LOUVERED FACE	80	[38]	80	[38]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 X 6	[150 x 150]		NONE	WHITE	-----
EG-24	LOUVERED FACE	75	[35]	75	[35]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 X 6	[150 x 150]		NONE	WHITE	-----
EG-25	LOUVERED FACE	75	[35]	75	[35]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 X 6	[150 x 150]		NONE	WHITE	-----
EG-26	LOUVERED FACE	75	[35]	75	[35]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 X 6	[150 x 150]		NONE	WHITE	-----
EG-27	LOUVERED FACE	75	[35]	75	[35]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 X 6	[150 x 150]		NONE	WHITE	-----
EG-28	LOUVERED FACE	75	[35]	75	[35]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 X 6	[150 x 150]		NONE	WHITE	-----
EG-29	LOUVERED FACE	140	[66]	140	[66]	0.1	25.000	CEILING	12 x 12	[290 x 290]	10 X 10	[250 x 250]		NONE	WHITE	-----
EG-30	LOUVERED FACE	75	[35]	75	[35]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 X 6	[150 x 150]		NONE	WHITE	-----
EG-31	LOUVERED FACE	75	[35]	75	[35]	0.1	25.000	CEILING	8 x 8	[190 x 190]	6 X 6	[150 x 150]		NONE	WHITE	-----

NOTES:

1. ALL EXISTING RETURNS AND EXHAUST GRILLES SHALL BE BALANCED TO THE VALUES SHOWN.
2. PROVIDE SQUARE TO ROUND ADAPTER.

AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	AIR FLOW	AIR FLOW SUPPLY CFM	AIR FLOW SUPPLY [L/s]	AIR FLOW MIN OA CFM	AIR FLOW MIN OA [L/s]	AIR FLOW RETURN CFM	AIR FLOW RETURN [L/s]	SUPPLY FAN MARK	RETURN OR RELIEF FAN MARK	EXHAUST FAN MARK	PREFILTER MARK	AFTER FILTER MARK	FINAL FILTER MARK	HEAT RECOVERY MARK	PREHEAT COIL MARK	COOLING COIL MARK	REHEAT COIL	HUMIDIFIER MARK	REMARKS
1B-AHU-1	4-OK	B-WING 2ND & 3RD FLOORS	DRAWTHRU	VAV	9880	[4700]	4650	[2200]	8040	[3800]	1B-SF1	1B-RF1	1B-EF1	1B-PF1	1B-AF1	1B-FF1	N/A	1B-HWHC1	1B-CC1	AT TU	1B-H1	EXISTING UNIT REBALANCE TO VALUES SHOWN

100% CONSTRUCTION DOCUMENTS

CONSTRUCTION DOCUMENTS	2/17/12
Revisions:	Date

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Approved: Project Director

Project Title: MODIFY AHU-18 FOR RETURN AIR DEPT. OF VETERAN AFFAIRS VAMC CHEYENNE

Location: CHEYENNE, WYOMING

Date: June 14, 2013 | Checked: JWM | Drawn: JWM

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Dwg. 15 of 20

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