

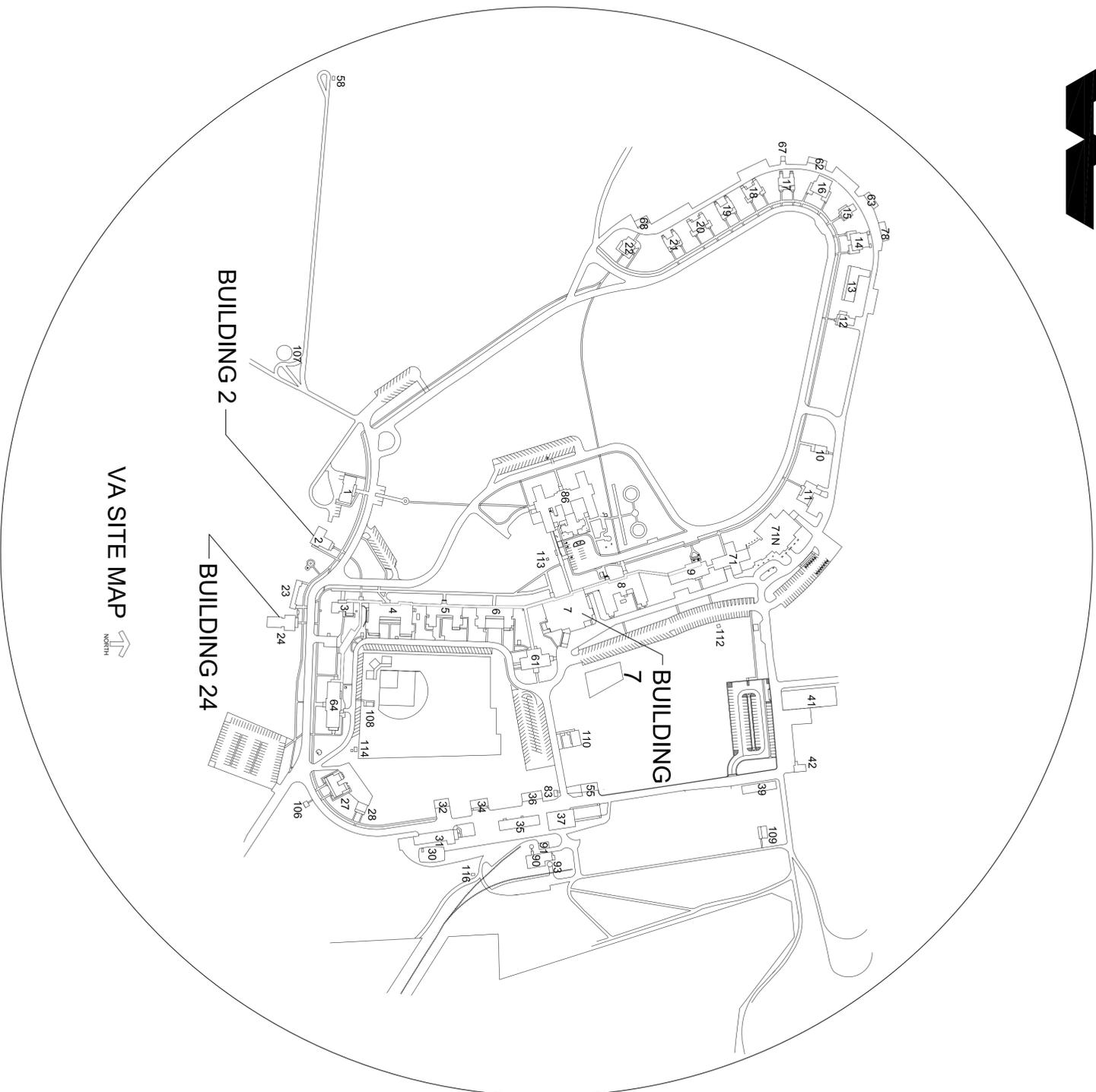


MECHANICAL WORK B7, 24, 3-6

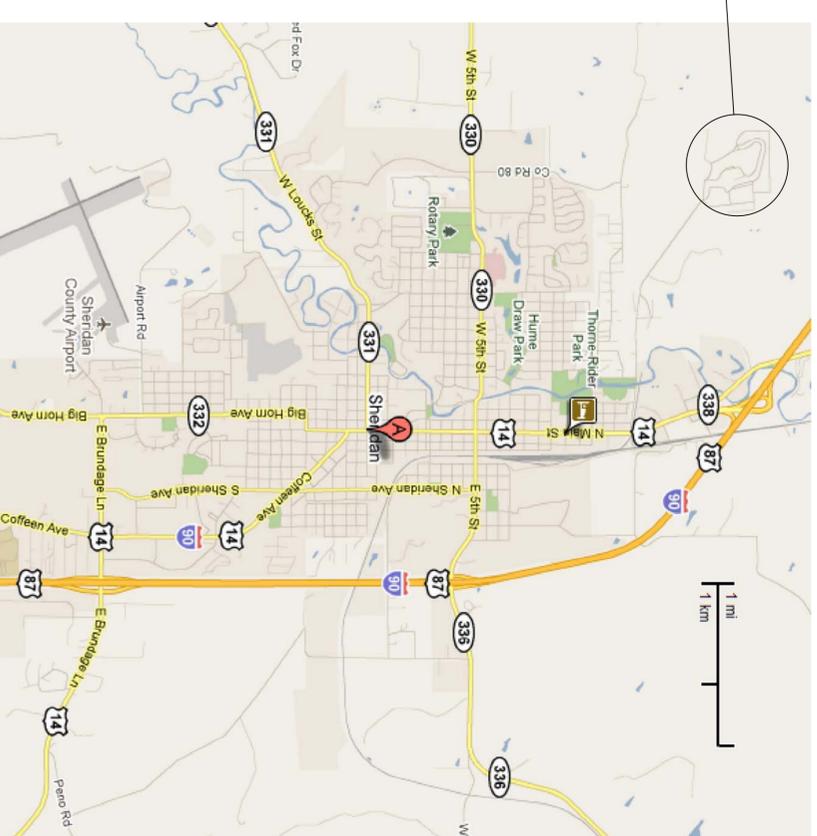
JANUARY 29, 2013

SHEET INDEX

- COVER – AREA AND SITE MAPS AND SHEET INDEX
M1 – CHILLED WATER LOOP PLAN
M2 – CHILLED WATER LOOP DETAILS
M3 – LIBRARY AHU PLAN AND DETAILS
M4 – LIBRARY AHU PIPING
M5 – LIBRARY AHU CONTROLS
M6 – B24 WATER HEATER



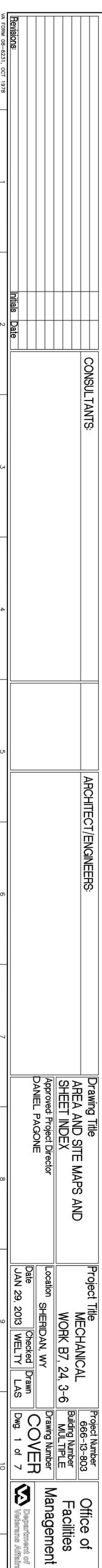
VA SITE MAP



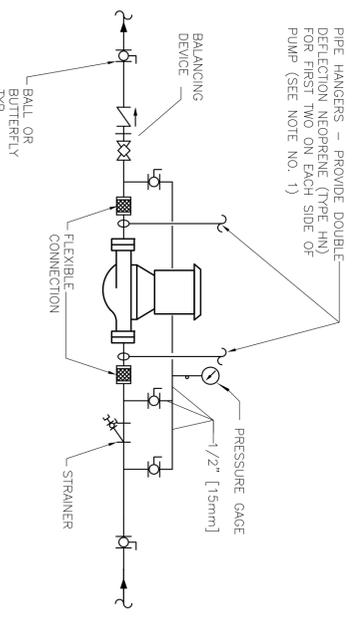
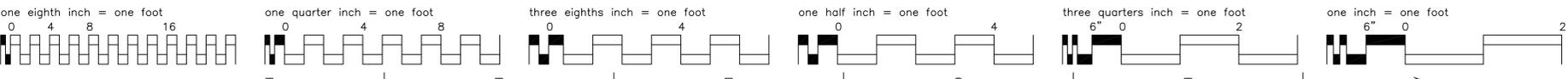
AREA MAP



Revisions:		CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title AREA AND SITE MAPS AND SHEET INDEX		Project Title MECHANICAL WORK B7, 24, 3-6		Project Number 666-13-803 Building Number MULTIPLE		Office of Facilities Management Department of Veterans Affairs	
1							Approved: Project Director DANIEL PAGONE	Location SHERIDAN, WY	Date JAN 29, 2013	Checked WELTY	Drawn LAS	Dwg. 1 of 7	
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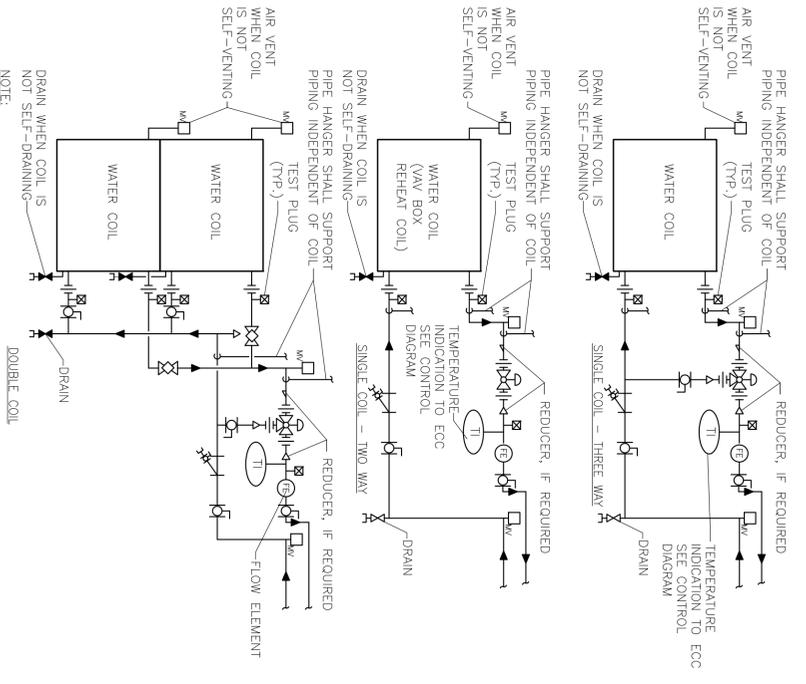


VA FORM 08-6231, OCT 1978



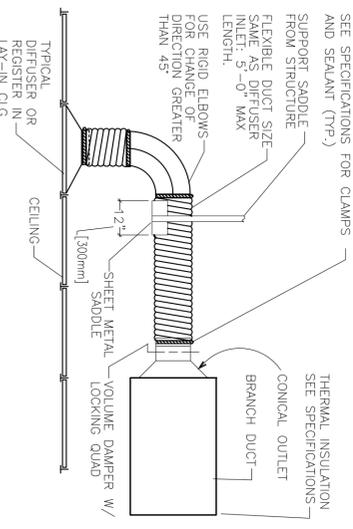
NOTES:
1. SUPPORT PUMP FROM PIPING ONLY. DO NOT SUPPORT PUMP FROM MOTOR.

1 INLINE PUMP DETAIL
SCALE: NTS



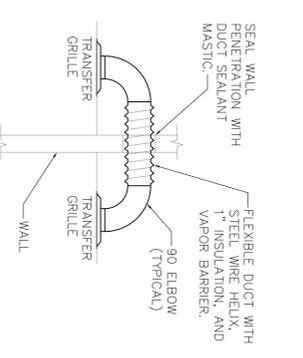
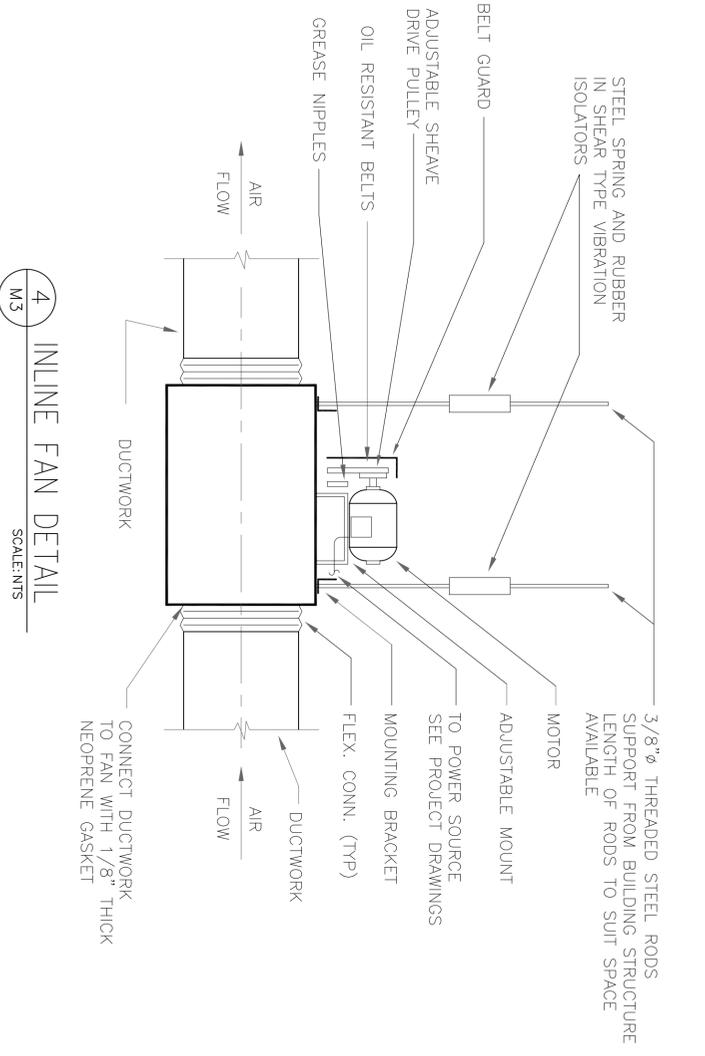
1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATORS THE FIRST 2. HANGERS FOR EACH PIPE SHALL BE SPRING & NEOPRENE TYPE. TYPE "H" FOR 4" (100mm) PIPE & SMALLER. TYPE "H-P" FOR 3" (75mm) PIPE & LARGER.
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SERVING OF FILTERS, VALVES, OR EQUIPMENT.
3. THE FLOW ELEMENT MAY BE INSTALLED IN THE SUPPLY PIPING IF THE REQUIRED MINIMUM UPSTREAM AND DOWNSTREAM DIMENSIONS CANNOT BE OBTAINED IN THE RETURN PIPING.
4. PROVIDE THREE WAY CONTROL VALVES ON AIR HANDLER COILS.

2 WATER COILS - PIPING CONNECTIONS
SCALE: NTS



NOTE:
THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE.

3 FLEXIBLE AIR DUCT CONNECTOR
SCALE: NTS



5 TRANSFER DUCT DETAIL
SCALE: NTS

VARIABLE AIR VOLUME SCHEDULE										MAX							
PLAN CODE	MGR	MODEL NO.	MAX ACFM	MIN ACFM	SIZE	HEATING COIL		FLOW		COIL		EAT (DEG F)	LAT (DEG F)	COIL/BOX APD (IN)	PIPING R/O SIZE (IN)		
						OUTPUT (BTU/H)	SIZE (IN)	ROWS	HW (GPM)	WPD (FT)	EMT (DEG F)					LMT (DEG F)	EAT (DEG F)
V-1	TEMPMASTER	HSW	2715	1100	M	24	49,769	10x36	1	5.00	2.4	180	160	55	100	0.36	1
V-2	TEMPMASTER	HSW	175	80	A	5	5,000	10x9	1	0.50	0.1	180	160	55	118	0.03	1/2
V-3	TEMPMASTER	HSW	275	110	A	5	6,080	10x9	1	0.75	0.2	180	164	55	110	0.06	1/2
V-4	TEMPMASTER	HSW	200	80	A	5	5,000	10x9	1	0.50	0.1	180	160	55	118	0.03	1/2
V-5	TEMPMASTER	HSW	2650	1100	M	24	49,769	10x36	1	5.00	2.4	180	160	55	100	0.34	1
V-6	TEMPMASTER	HSW	235	95	A	5	5,663	10x9	1	0.75	0.2	180	165	55	115	0.04	1/2

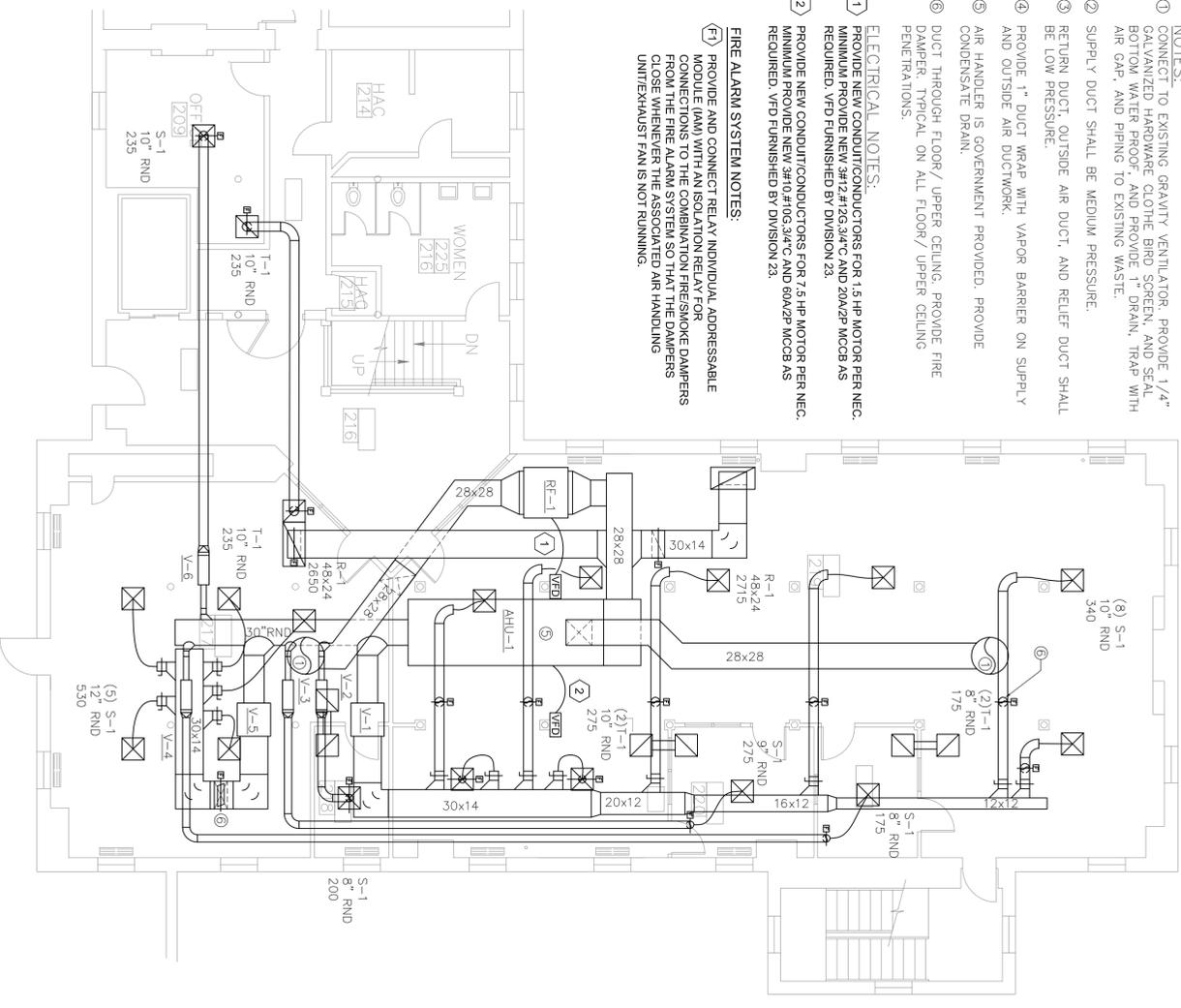
SCHEDULES:
S-1 SHALL EQUAL KRUEGER MODEL 1240
R-1 SHALL EQUAL KRUEGER MODEL S90H
T-1 SHALL EQUAL KRUEGER MODEL 6690.

RF-1 SHALL EQUAL COOK MODEL 330SQ-HP, 1.5 HP, 208/60/3, 6250 CH. PROVIDE VFD. HANG FROM STRUCTURE ABOVE WITH SPRING AND RUBBER/NEOPRENE VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTIONS ON EACH SIDE OF FAN.

NOTES:
① CONNECT TO EXISTING GRAVITY VENTILATOR. PROVIDE 1/4" GALVANIZED HARDWARE CLOTH BIRD SCREEN, AND SEAL BOTTOM WATER PROOF, AND PROVIDE 1" DRAIN, TRAP WITH AIR GAP, AND PIPING TO EXISTING WASTE.
② SUPPLY DUCT SHALL BE MEDIUM PRESSURE.
③ RETURN DUCT, OUTSIDE AIR DUCT, AND RELIEF DUCT SHALL BE LOW PRESSURE.
④ PROVIDE 1" DUCT WRAP WITH VAPOR BARRIER ON SUPPLY AND OUTSIDE AIR DUCTWORK.
⑤ AIR HANDLER IS GOVERNMENT PROVIDED. PROVIDE CONDENSATE DRAIN.
⑥ DUCT THROUGH FLOOR / UPPER CEILING. PROVIDE FIRE DAMPER, TYPICAL ON ALL FLOOR / UPPER CEILING PENETRATIONS.

ELECTRICAL NOTES:
① PROVIDE NEW CONDUIT/CONDUCTORS FOR 1.5 HP MOTOR PER NEC. MINIMUM PROVIDE NEW #2 #12G.3/4"C AND 50A/2P MCCB AS REQUIRED. VFD FURNISHED BY DIVISION 23.
② PROVIDE NEW CONDUIT/CONDUCTORS FOR 7.5 HP MOTOR PER NEC. MINIMUM PROVIDE NEW #4 #16G.3/4"C AND 80A/2P MCCB AS REQUIRED. VFD FURNISHED BY DIVISION 23.

FIRE ALARM SYSTEM NOTES:
① PROVIDE AND CONNECT RELAY INDIVIDUAL ADDRESSABLE MODULE (AM) WITH AN ISOLATION RELAY FOR CONNECTIONS TO THE COMBINATION FIRE/SMOKE PAMPERS FROM THE FIRE ALARM SYSTEM SO THAT THE DAMPERS CLOSE WHENEVER THE ASSOCIATED AIR HANDLING UNIT/EXHAUST FAN IS NOT RUNNING.



A B7 ATTIC HVAC FLOOR PLAN
SCALE: 1" = 8'-0"

Regions:	1	2	3	4	5	6	7	8	9	10					
Initials															
Date															
CONSULTANTS:															
ARCHITECT/ENGINEERS:															
Drawing Title	LIBRARY AHU PLAN					Project Title					MECHANICAL				
Approved: Project Director	DANIEL PAGONE					Location					SHERIDAN, WY				
Date	JAN 29, 2013					Checked					WELTY				
						Drawn					LAS				
						Dwg. 4 of 7					M3				
						Project Number					666-13-803				
						Building Number					MULTIPLE				
						Drawing Number					M3				
						Office of Facilities Management					Department of Veterans Affairs				

