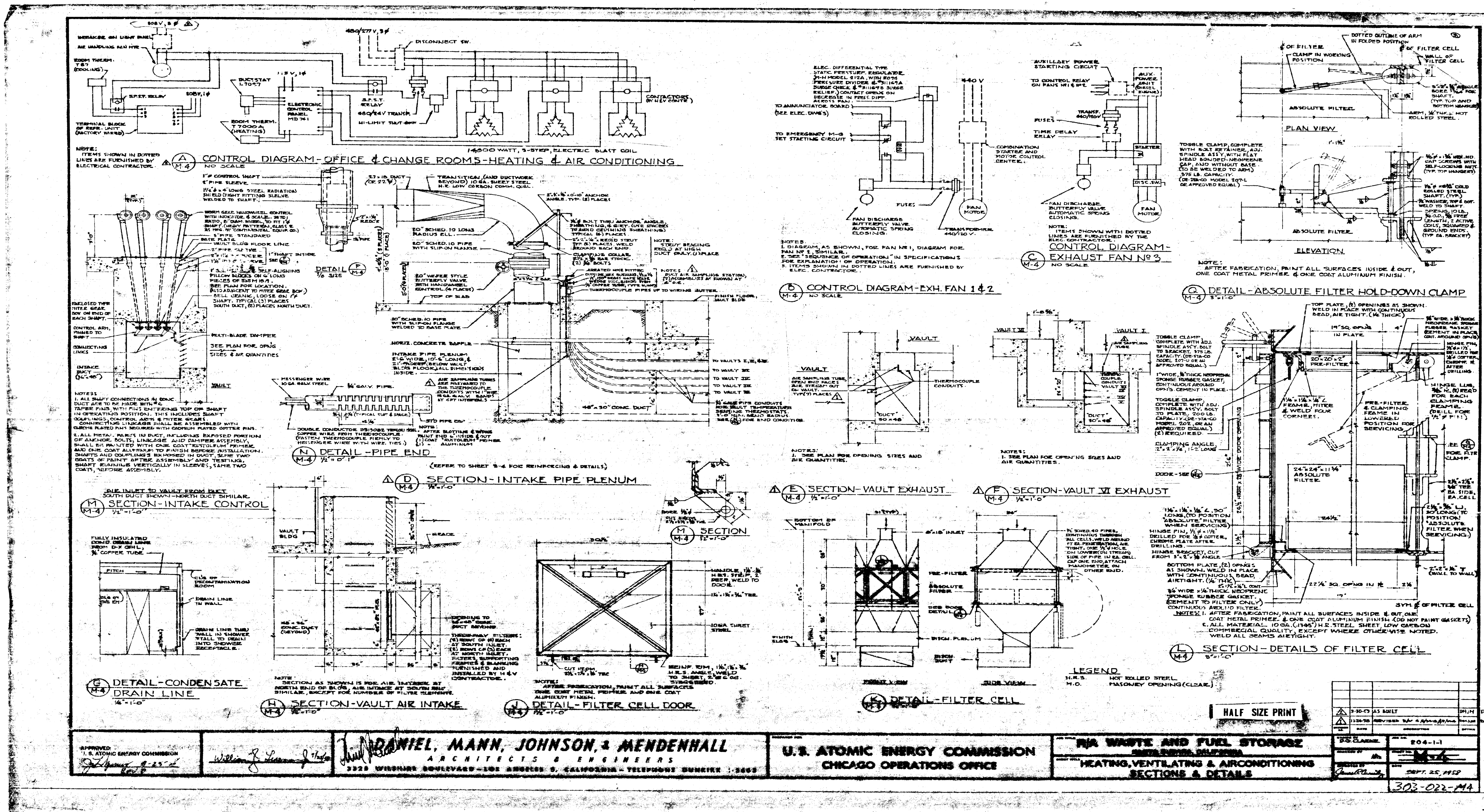

CONTROL DIAGRAM - OFFICE & CHANGE ROOMS - HEATING & AIR CONDITIONING
NO SCALE
208V, 3φ
BREAKER ON LIGHT PANEL
AIR HANDLING FAN MTR
ROOM THERM. T87 (COOLING)
S.P.S.T. RELAY
208V, 1φ
TERMINAL BLOCK OF REFR. UNIT (FACTORY WIRED)
DUCTSTAT L7047
115V, 1φ
ELECTRONIC CONTROL PANEL MD 741
ROOM THERM. T 7000A (HEATING)
480/277V, 3φ
DISCONNECT SW.
S.P.S.T. RELAY
480/24V TRANSF.
HI-LIMIT SHUT-OFF
CONTACTORS (BY H&V CONTR.)
14,500 WATT, 3-STEP, ELECTRIC BLAST COIL
NOTE: ITEMS SHOWN IN DOTTED LINES ARE FURNISHED BY ELECTRICAL CONTRACTOR.
CONTROL DIAGRAM - EXH. FAN 1 & 2
NO SCALE
ELEC. DIFFERENTIAL TYPE STATIC PRESSURE REGULATOR M-H MODEL 212A, WITH R094 PRESSURE DIVIDER & #311169A SURGE CHECK & #311169B SURGE RELIEF.) CONTACT OPENS ON DECREASE IN PRESS. DIFF. ACROSS FAN.
TO ANNUNCIATOR BOARD (SEE ELEC. DWG'S)
TO EMERGENCY M-G SET STARTING CIRCUIT
440 V
COMBINATION STARTER AND MOTOR CONTROL CENTER.
FUSES
FAN MOTOR
FAN DISCHARGE BUTTERFLY VALVE AUTOMATIC SPRING CLOSING.
TRANSFORMER 440/120 V.
NOTES: 1. DIAGRAM, AS SHOWN, FOR FAN Nº 1, DIAGRAM FOR FAN Nº 2, SIMILAR. 2. SEE "SEQUENCE OF OPERATION" IN SPECIFICATIONS FOR EXPLANATION OF OPERATION. 3. ITEMS SHOWN IN DOTTED LINES ARE FURNISHED BY ELEC. CONTRACTOR.
CONTROL DIAGRAM - EXHAUST FAN Nº 3
NO SCALE
AUXILIARY POWER STARTING CIRCUIT
TO CONTROL RELAY ON FANS Nº1 & Nº2
AUX. POWER UNIT (DIESEL ENGINE)
TRANSF. 440/110V
FUSES
TIME DELAY RELAY
STARTER
DISC. SW.
FAN MOTOR
FAN DISCHARGE BUTTERFLY VALVE AUTOMATIC SPRING CLOSING.
NOTE: ITEMS SHOWN WITH DOTTED LINES ARE FURNISHED BY THE ELEC. CONTRACTOR.
DETAIL - ABSOLUTE FILTER HOLD-DOWN CLAMP
3" = 1'-0"
PLAN VIEW
ELEVATION
ABSOLUTE FILTER
NOTE: AFTER FABRICATION, PAINT ALL SURFACES INSIDE & OUT, ONE COAT METAL PRIMER & ONE COAT ALUMINUM FINISH.
SECTION - INTAKE CONTROL
1/2" = 1'-0"
AIR INLET TO VAULT FROM DUCT SOUTH DUCT SHOWN - NORTH DUCT SIMILAR.
NOTES: 1. ALL SHAFT CONNECTIONS IN CONC. DUCT ARE TO BE MADE WITH #6 TAPER PINS, WITH PINS ENTERING TOP OF SHAFT IN OPERATING POSITION. THIS INCLUDES SHAFT COUPLINGS, CONTROL ARMS & MITER GEARS. CONNECTING LINKAGE SHALL BE ASSEMBLED WITH CHROME PLATED PINS SECURED WITH CADMIUM PLATED COTTER PINS.
2. ALL METAL PARTS IN DUCT, INCLUDING EXPOSED PORTION OF ANCHOR BOLTS, LINKAGE AND DAMPER ASSEMBLY, SHALL BE PAINTED WITH ONE COAT "RUSTOLEUM" PRIMER AND ONE COAT ALUMINUM TO FINISH BEFORE INSTALLATION. SHAFTS AND COUPLINGS EXPOSED IN DUCT, SAME TWO COATS OF PAINT AFTER ASSEMBLY AND TESTING. SHAFT RUNNING VERTICALLY IN SLEEVES, SAME TWO COATS, BEFORE ASSEMBLY.
DETAIL F M-4 3/8 SIZE
DETAIL - PIPE END
1/2" = 0'-1"
SECTION - INTAKE PIPE PLENUM
1/2" = 1'-0"
(REFER TO SHEET S-4 FOR REINFORCING & DETAILS)
SECTION - VAULT EXHAUST
1/2" = 1'-0"
SECTION - VAULT VI EXHAUST
1/2" = 1'-0"
NOTES: 1. SEE PLAN FOR OPENING SIZES AND AIR QUANTITIES.
SECTION M M-4 1/2" = 1'-0"
DETAIL - CONDENSATE DRAIN LINE
1/4" = 1'-0"
SECTION - VAULT AIR INTAKE
1/2" = 1'-0"
NOTE: SECTION AS SHOWN IS FOR AIR INTAKE AT NORTH END OF BLDG. AIR INTAKE AT SOUTH END SIMILAR, EXCEPT FOR NUMBER OF FILTER ELEMENTS.
DETAIL - FILTER CELL DOOR
1 1/2" = 1'-0"
NOTE: AFTER FABRICATION, PAINT ALL SURFACES ONE COAT METAL PRIMER AND ONE COAT ALUMINUM FINISH.
DETAIL - FILTER CELL
FRONT VIEW
SIDE VIEW
SECTION - DETAILS OF FILTER CELL
3" = 1'-0"
NOTES: 1. AFTER FABRICATION, PAINT ALL SURFACES INSIDE & OUT, ONE COAT METAL PRIMER & ONE COAT ALUMINUM FINISH (DO NOT PAINT GASKETS) 2. ALL MATERIAL 10 GA. (.1345") H.R. STEEL SHEET, LOW CARBON COMMERCIAL QUALITY, EXCEPT WHERE OTHERWISE NOTED. WELD ALL SEAMS AIRTIGHT.
LEGEND
H.R.S. HOT ROLLED STEEL.
M.O. MASONRY OPENING (CLEAR).
HALF SIZE PRINT
2 9-30-59 AS BUILT
1 11-24-58 REVISED
APPROVED: U. S. ATOMIC ENERGY COMMISSION
DANIEL, MANN, JOHNSON, & MENDENHALL
ARCHITECTS & ENGINEERS
3325 WILSHIRE BOULEVARD - LOS ANGELES 5, CALIFORNIA - TELEPHONE DUNKIRK
U.S. ATOMIC ENERGY COMMISSION
CHICAGO OPERATIONS OFFICE
R/A WASTE AND FUEL STORAGE
HEATING, VENTILATING & AIRCONDITIONING SECTIONS & DETAILS
204-1-1
M-4
SEPT. 25, 1958
303-022-M4