

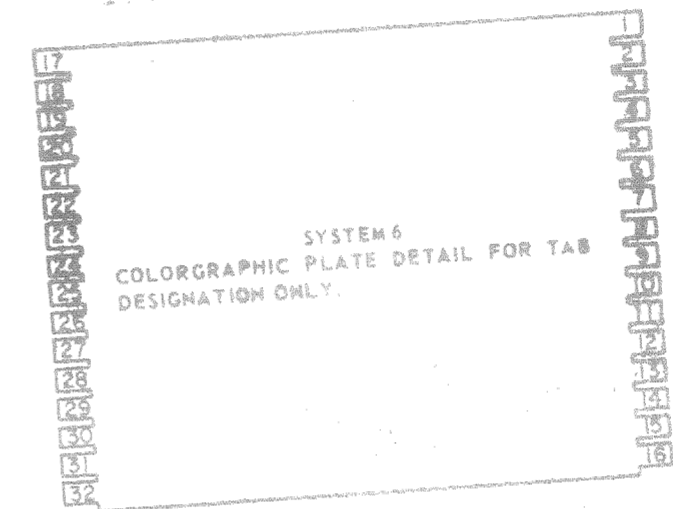
COLORGRAPHIC

WHEN PREPARING THIS FORM, FIRST BLACKEN IN, WITH PENCIL, THE GENERAL OUTLINE LIMITS OF THE TYPE OF GRAPHIC REPRESENTATION (SUCH AS A SLIDE, COLORGRAPHIC PLATE, OR SUPERVISORY DATACENTER MODULES). THEN BLACKEN IN THE DIAGRAM LINES REPRESENTING THE OUTLINE OF THE SPECIFIC GRAPHIC LAYOUT REQUIRED.

FOR GRAPHIC MODULE SKETCH, USE ENTIRE AREA AS OUTLINED. SCALE - 2/3 = 1

FOR SYSTEM 6 COLORGRAPHIC PLATE, USE AREA WITHIN DASHED LINES ONLY & DESIGNATE DESIRED TAB LOCATION ON DETAIL BELOW. SCALE - FULL

FOR TEMPORARY & PERMANENT FILM STRIP & SLIDES, USE AREA WITHIN DOTTED LINES ONLY.

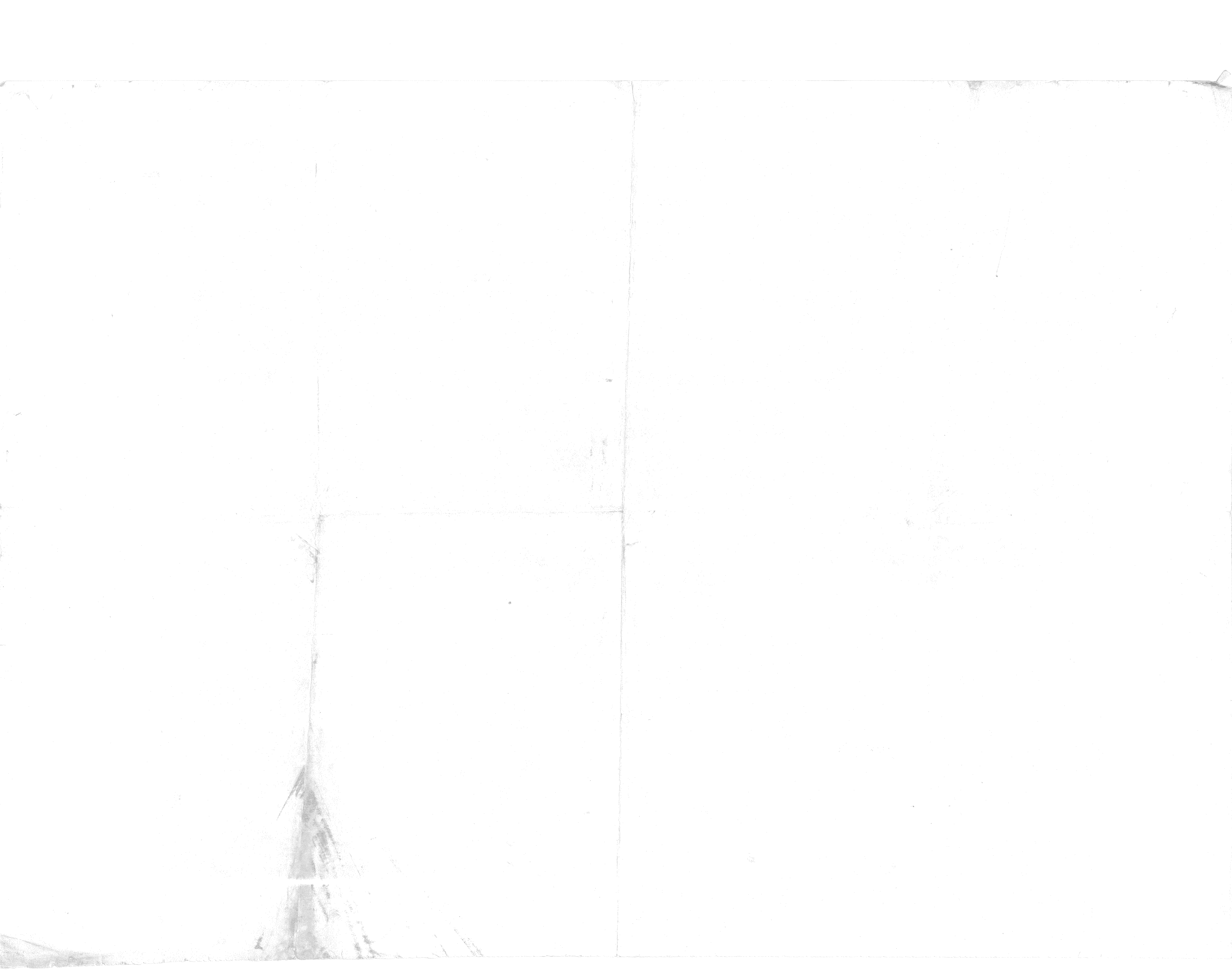


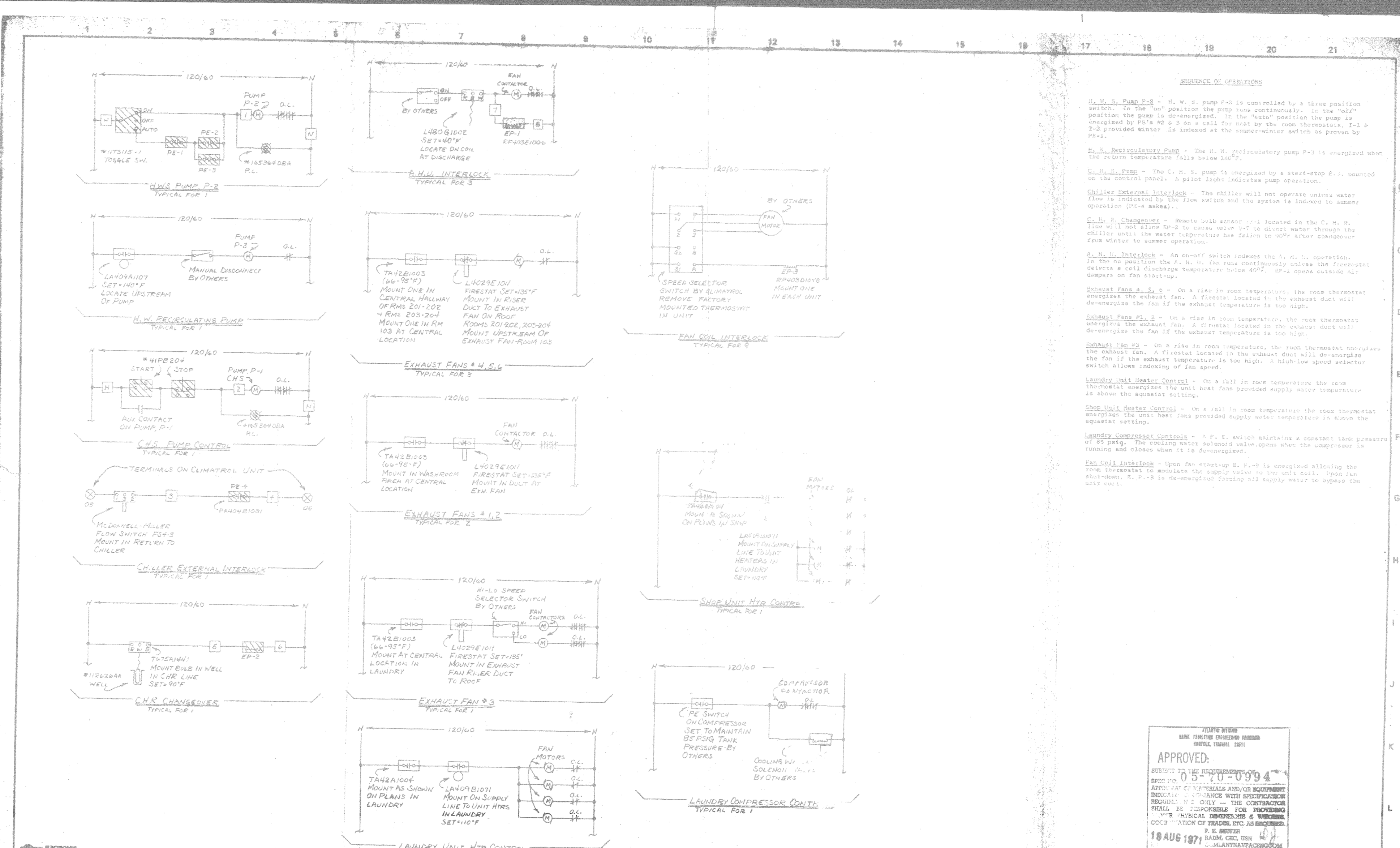
APPROVED:  
 SUBMITTANT'S EQUIPMENT NO. 05-20-0994  
 SPECIFIC MATERIALS AND/OR EQUIPMENT  
 APPEARANCE WITH SPECIFICATION  
 INDICATED ONLY - THE CONTRACTOR  
 SHALL BE RESPONSIBLE FOR PROVIDING  
 PROPER PHYSICAL DIMENSIONS & WEIGHTS.  
 COORDINATION OF TRADES, ETC. AS REQUIRED.  
 P. E. SEUFER  
 RADM, CEC, USN  
 DATE 19 AUG 1971 COMLANTNAVFACENGCOM

JOB	DATE	DES. BY	APP'D BY	DESCRIPTION	BY	DATE	REASON
F							
E							
D							
C							
B							
A							
REV							

HONEYWELL  
 WABASH COMMERCIAL FACTORY  
 WABASH, INDIANA 46992  
 JOB NAME HADNOT  
 P.O. NO.  
 FOR WABASH USE ONLY  
 MD  
 SHEET OF

GRAPHIC NO. \_\_\_ OF \_\_\_  
 PANEL SECTION NO. \_\_\_





**LEGEND**

[Symbol] ELECTRONIC CASE  
 [Symbol] AIR MAIN  
 [Symbol] PNEUMATIC PIPING  
 [Symbol] AIR MAIN  
 [Symbol] LINE VOLTAGE

N.O. - NORMALLY OPEN  
 N.C. - NORMALLY CLOSED  
 D.A. - DIRECT ACTING  
 I.A. - INVERSE ACTING  
 T.E. - TRIPPING RANGE  
 P.S. - PROPORTIONAL BAND

ARCHITECT: JUS GOV.  
 ENGINEER: SWEEDEN INC.  
 CONTRACTOR: SWEEDEN INC.

[Symbol] DEVICE MOUNTED IN HONEYWELL PANEL AT A.H.V.  
 [Symbol] DEVICE MOUNTED IN HONEYWELL PANEL IN EXISTING MECHANICAL EQUIPMENT ROOM  
 [Symbol] TERMINALS IN HONEYWELL PANEL

**SEQUENCE OF OPERATIONS**

**H. W. S. Pump P-2** - H. W. S. pump P-2 is controlled by a three position switch. In the "on" position the pump runs continuously. In the "off" position the pump is de-energized. In the "test" position the pump is energized by P-2's #2 & 3 on a call for heat by the room thermostat. T-1 & T-2 provided winter is induced at the summer-winter switch as proven by P-2.

**H. W. Recirculating Pump** - The H. W. recirculating pump P-3 is energized when the return temperature falls below 140°F.

**C. H. S. Pump** - The C. H. S. pump is energized by a start-stop P-4 mounted on the control panel. A pilot light indicates pump operation.

**Chiller External Interlock** - The chiller will not operate unless water flow is indicated by the flow switch and the system is induced to summer operation (P-4 makes).

**C. H. R. Changeover** - Remote bulb sensor T-1 located in the C. H. R. line will not allow W-2 to cause water to flow through the chiller until the water temperature has fallen to 40°F after changeover from winter to summer operation.

**A. W. U. Interlock** - An on-off switch induces the A. W. U. operation. In the "on" position the A. W. U. fan runs continuously unless the thermostat detects a coil discharge temperature below 40°F. W-2 opens outside air dampers on fan start-up.

**Exhaust Fans # 4, 5, 6** - On a rise in room temperature, the room thermostat energizes the exhaust fan. A firestat located in the exhaust duct will de-energize the fan if the exhaust temperature is too high.

**Exhaust Fan # 2** - On a rise in room temperature, the room thermostat energizes the exhaust fan. A firestat located in the exhaust duct will de-energize the fan if the exhaust temperature is too high.

**Exhaust Fan # 3** - On a rise in room temperature, the room thermostat energizes the exhaust fan. A firestat located in the exhaust duct will de-energize the fan if the exhaust temperature is too high. A high-low speed selector switch allows indexing of fan speed.

**Laundry Unit Heater Control** - On a fall in room temperature the room thermostat energizes the unit heat fans provided supply water temperature is above the aquastat setting.

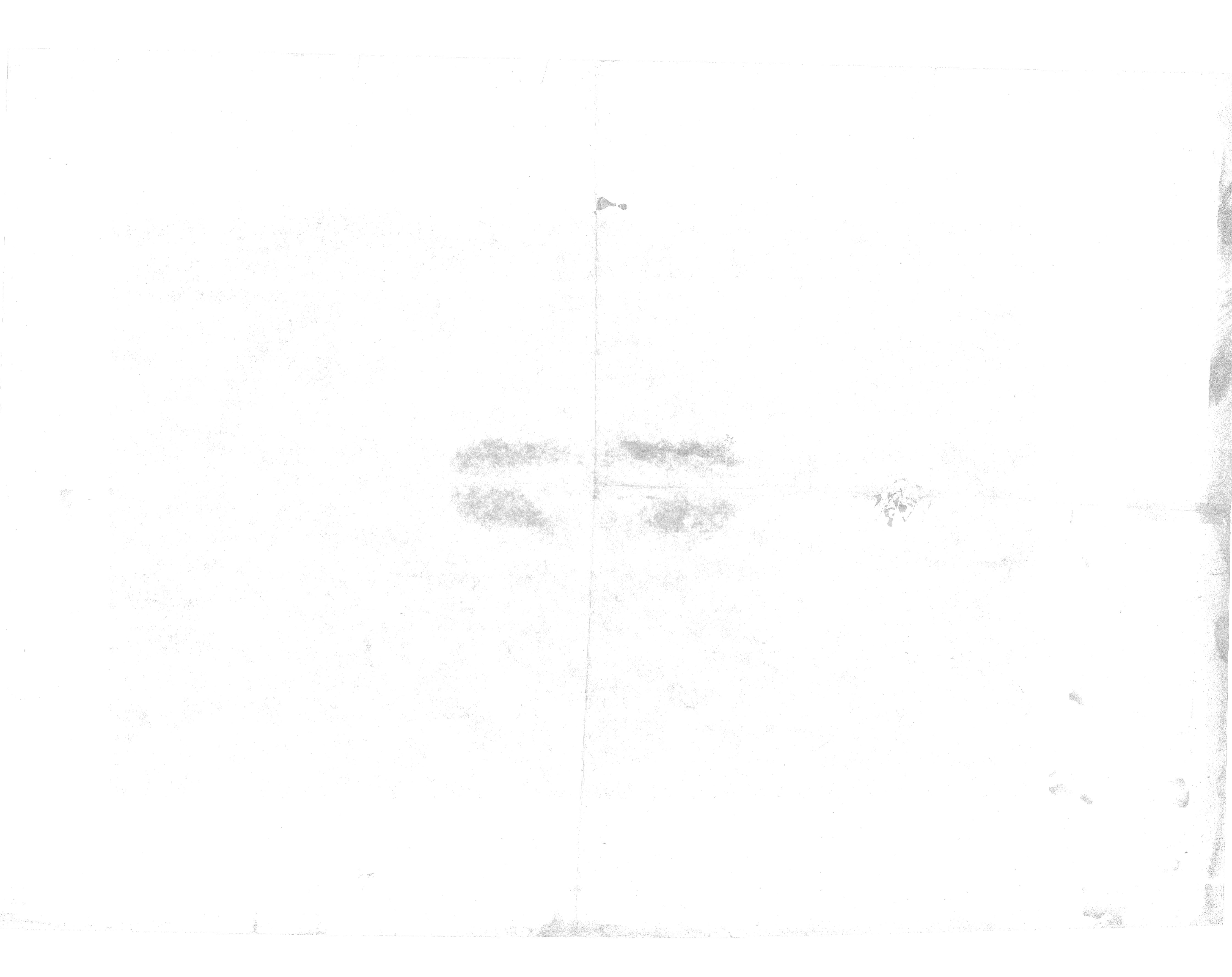
**Shop Unit Heater Control** - On a fall in room temperature the room thermostat energizes the unit heat fans provided supply water temperature is above the aquastat setting.

**Laundry Compressor Controls** - A P. S. switch maintains a constant tank pressure of 85 psig. The cooling water solenoid valve opens when the compressor is running and closes when it is de-energized.

**Fan Coil Interlock** - Upon fan start-up P. P-3 is energized allowing the room thermostat to regulate the supply water to the unit coil. Upon fan shut-down, P. P-3 is de-energized forcing hot supply water to bypass the unit coil.

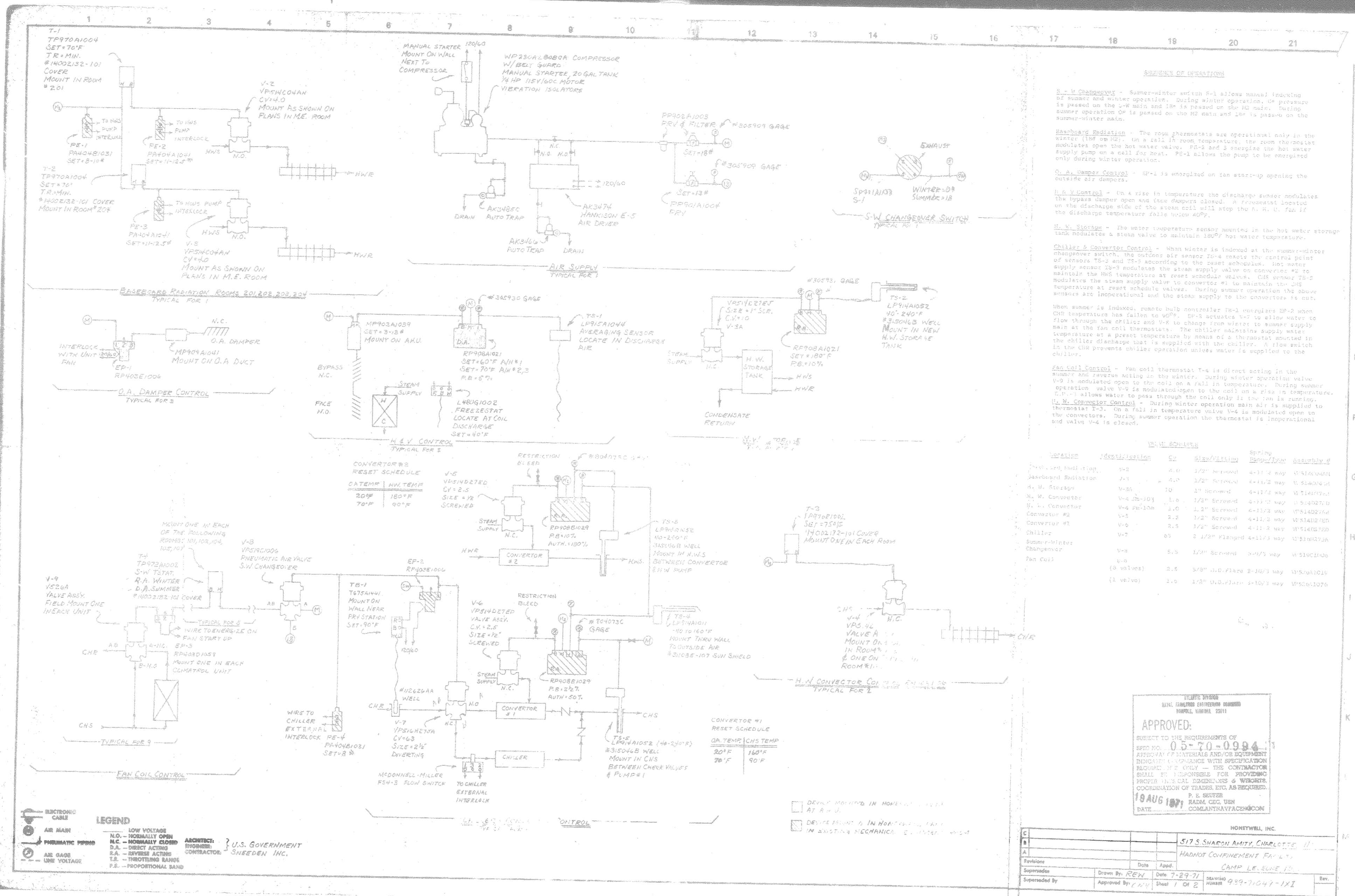
HONEYWELL SYSTEM  
 APPROVED:  
 SUBMITTED TO THE REQUIREMENTS OF  
 THE FEDERAL BUREAU OF INVESTIGATION  
 AND THE DEPARTMENT OF JUSTICE  
 FOR THE PROTECTION OF THE  
 NATIONAL DEFENSE AND THE  
 NATIONAL SECURITY.  
 P. E. BRIDGES  
 RADM, CEC, USN  
 19 AUG 1971

C		HONEYWELL INC.	
A		5175 SHARON AVENUE CHARLOTTE N.C.	
A		HADNOT CONFINEMENT FACILITY	
A		CAMPLEVINE, N.C.	
Supersedes	Drawn By: REW	Date: 7-30-71	Sheet: 2 OF 2
Superseded By	Approved By: [Signature]	Checked: 939-71049-2XI	



Sag Cell  
2 Deck  
TP970A 1004

Work Shop  
OFFICES &  
CLASS RM.  
TP972A 1002



**SEQUENCE OF OPERATIONS**

**S-W Changerover** - Summer-winter section S-1 allows manual tracking of summer and winter operation. During winter operation, the pressure is passed on the S-W main and the S-W is passed on the S-W main. During summer operation, the pressure is passed on the S-W main and the S-W is passed on the summer-winter main.

**Baseboard Radiation** - The room thermostats are operational only in the winter (150° on SW). On a fall in room temperature, the room thermostat modulates the hot water valve. P-1 and 2 energize the hot water supply pump on a call for heat. P-1 allows the pump to be energized only during winter operation.

**O.A. Damper Control** - SP-1 is energized on fan starting opening the outside air dampers.

**H.W. Control** - On a rise in temperature the discharge sensor modulates the bypass control open and close dampers closed. A pressure switch located on the discharge side of the steam coil will stop the H.W. Fan if the discharge temperature falls below 100°.

**H.W. Storage** - The water temperature sensor mounted in the hot water storage tank modulates a steam valve to maintain 180° hot water temperature.

**Chiller & Converter Control** - When winter is indicated at the summer-winter changerover section, the outdoor air sensor T-4 moves the control point of sensor T-5 and T-6 according to the reset schedule. The water supply sensor T-7 modulates the steam supply valve on converter #2 to maintain the hot temperature at reset schedule value. CH sensor T-8 modulates the steam supply valve to converter #1 to maintain the hot temperature at reset schedule value. During summer operation the above sensors are inoperational and the steam supply to the converters is cut.

**When summer is indicated**, points T-1 controller T-3 energizes SP-2 when CH temperature has fallen to 100°. SP-2 energizes V-7 to allow water to flow through the chiller and V-8 to change from winter to summer supply water main at the fan coil thermostats. The chiller maintains supply water main at a preset temperature by means of a thermostat mounted in the chiller discharge that is supplied with the chiller. A flow switch in the coil prevents chiller operation unless water is supplied to the chiller.

**Fan Coil Control** - Fan coil thermostat T-4 is direct acting in the winter. During winter operation valve V-9 is modulated open to the coil on a fall in temperature. During summer operation valve V-9 is modulated open to the coil on a rise in temperature.

**H.W. Converter Control** - During winter operation main air is supplied to the converters. During summer operation the thermostat is inoperational and valve V-4 is closed.

Particular	Identification	Qty	Size/Fitting	Spring	Assembly #
Condenser Radiator	1-1	4.0	1/2" Served	4-11.2 way	W51000001
H.W. Storage	1-1	4.0	1/2" Served	4-11.2 way	W51000001
H.W. Converter	1-1	10	1/2" Served	4-11.2 way	W51000001
Converter #2	1-1	10	1/2" Served	4-11.2 way	W51000001
Converter #1	1-1	10	1/2" Served	4-11.2 way	W51000001
Chiller	1-1	10	1/2" Served	4-11.2 way	W51000001
Summer-winter Changerover	1-1	10	1/2" Served	4-11.2 way	W51000001
Fan Coil	1-1	10	1/2" Served	4-11.2 way	W51000001

APPROVED:  
SUBJECT TO THE REQUIREMENTS OF SPEC. NO. 05-70-0384-1  
INDICATED COMPLIANCE WITH SPECIFICATION REQUIREMENTS BY THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER INSTALLATION & WORKMANSHIP. COORDINATION OF TRADES, ETC. AS REQUIRED.  
DATE: 19 AUG 1971  
RADM, CEC, USM  
COMNAVTRAFACDROM

NONETRY, INC.  
517 S. SHADON AVENUE, CHARLOTTE, N.C.  
HARDY CONTRACTING, FAYETTEVILLE, N.C.  
CAMP, L.E. SURE, JR.  
Drawn By: REN Date: 7-29-71  
Approved By: [Signature] Sheet: 1 OF 2  
Drawing No: 959-71041-1X1

