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Forwards addl drawings for systematic eval prog (SEP) in response to 780626 request.

Proprietary drawings will be provided under separate cover. ☒ oversized drawings in

Central Files. Topics discussed incl ESF Switch over & engineered safety features.

SEE
RPT
SHELFENCLOSURE 1: DRAWINGS, "ELEMENTARY WIRING DRAWINGS"
ENCLOSURE 2: INDEX TO DRAWINGS ENCL.

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NUCLEAR REGULATORY COMMISSION
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LONG A-111 OR
V. 11/11/78

11/11/78 11:11 AM

November 22, 1978

Director of Nuclear Reactor Regulation
Attention: Mr. Dennis L. Ziemann, Chief
Operating Reactors Branch No. 2
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Drawings for SEP; Topics VI-7.B, VII-1.A, and VII-2
R.E. Ginna Nuclear Power Plant
Docket No. 50-244

Dear Mr. Ziemann:

In response to your request of June 26, 1978, please find enclosed additional drawings for Ginna Station. Enclosure 1 to this letter lists a number of drawings which are being provided in response to your request. Some of the drawings which you requested are proprietary to Westinghouse, as noted on Enclosure 1, and so will be provided under separate cover. Enclosure 2 to this letter is an index to the elementary wiring diagrams which are included in this response. Seven copies of the nonproprietary drawings are being provided.

Although we had discussed with members of your Staff our providing an index for all Ginna Station drawings, we do not believe it would be useful to you due to its great volume. The drawings provided with our letter of September 12, 1978, those being provided in this transmittal and those proprietary drawings being supplied under separate cover should satisfy your requirements. If there are drawings for additional topic reviews that you require or if you desire assistance in finding specific information in drawings already provided, please contact us.

In your letter of October 26, 1978, questions were raised concerning three SEP topics.

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DRAWINGS TO
LIST

DATE November 22, 1978
TO Mr. Dennis L. Ziemann, Chief

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1. Topic VI-7.B ESF Switchover From Injection to Recirculation Mode (Automatic ECCS Realignment)

Schematics for the automatic controllers used (if any) to perform the changeover.

Response: Ginna does not have automatic ECCS realignment and therefore there are no automatic controllers.

2. Topic VII-1.A Isolation of Reactor Protection System From Non-Safety Systems, Including Qualification of Isolation Devices

Drawings and schematics which show:

- A. How the Reactor Protection System gets its input signals.
- B. How the other system inputs are isolated from the Reactor Protection System inputs..

Response: The following schematics and drawings provide the requested information.

110E053 Sheets 2 through 9
882D612 Sheets 1 through 8 and 10 through 15
110E059 Sheets 1 thorough 6
110E074 Sheets 1 thorough 5
Foxboro BD Series Sheets 2 through 19

Additional information may be found in Section 7.2.1 of the FSAR.

Drawings of the 882D612 and 110E059 series contain proprietary information and are being sent under separate cover.

3. Topic VII-2 Engineered Safety Features (ESF) System Logic and Design

A list of the diesel generator loads which are to be supplied under various conditions, including:

- A. Normal operation, including normal shutdown
- B. LOCA
- C. Other emergency situations

Details of automatic load sequencing system or equipment (if any).

DATE November 22, 1978

TO Mr. Dennis L. Ziemann, Chief

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Response:

- A. During normal operation, including normal shutdown, the diesels are in a standby condition and no loads are supplied. A loss of offsite power during normal operation is not a normal condition and is covered under response C.
- B. Details of diesel loading following a LOCA are found in Section 8.2.3 of the FSAR. Listed below is the specific equipment which is retained on the bus or automatically sequenced onto the bus. Specific loads for these pieces of equipment are given in FSAR Table 8.2-1. Other equipment which may be loaded onto the bus following an accident is also listed.

Loads for other selected major equipment are also provided in FSAR Table 8.2-1. Additional equipment could be added to the bus, at the discretion of the operator while assuring at all times that the diesel is not overloaded by such action.

	<u>Diesel 1A</u>	<u>Diesel 1B</u>
Retained Load	MCC 1C	MCC 1D
Auto sequenced	SIP 1A	SIP 1B
	SIP 1C or	SIP 1C
	RHR 1A	RHR 1B
	SW 1A or 1C	SW 1B or 1D
	Cont. Fan 1A	Cont. Fan 1B
	Cont. Fan 1D	Cont. Fan 1C
	AFWP 1A	AFWP 1B
	Cont. Spray 1A	Cont. Spray 1B
Potential Manual	MCC 1A	MCC 1B
Loads	Comp Cooling 1A	Comp Cooling 1B
	Battery Charger	Battery Charger
	SW 1A or 1C	SW 1B or 1D
	Instr. Air Comp. 1A	Instr. Air Comp. 1C
	Service Air Comp.	

Details of the automatic sequencing are shown in FSAR Figure 8.2-4.

- C. In the event of a loss of offsite power without a safety injection signal, the loads below are loaded automatically onto the diesel. The service water pumps have timed delays before being added to the diesel so that the maximum starting load is an auxiliary feedwater pump and component cooling water pump. Specific loads may be determined from Table 8.2-1. Other equipment may be placed on the diesel by the operator.

DATE November 22, 1978

TO Mr. Dennis L. Ziemann, Chief

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Diesel 1A

MCC 1C

SW 1A or 1C

AFWP 1A

Comp Cooling 1A

Diesel 1B

MCC 1D

SW 1B or 1D

AFWP 1B

Comp Cooling 1B

We note that the Staff is presently reviewing the Ginna undervoltage protection system. We expect some modifications to that system to be implemented following Staff approval.

Very truly yours,

L.D. White, Jr.

L.D. White, Jr.

Enclosure 1

Drawings referenced in November 28, 1978 response to information requests for SEP topics VI-7.B, VII-1.A and VII-2.

110E053 Sheets 2 through 9
882D612 Sheets 1 through 8 and 10 through 15 (Proprietary)
110E059 Sheets 1 through 6 (Proprietary)
Foxboro BD Series Sheets 2 through 19
110E074 Sheets 1 through 5
10905 Sheets 1 through 437

(Some of these drawings are of the 499B425 series which has been superseded by the 10905 series.)

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Enclosure 2

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ROCHESTER GAS & ELECTRIC CORP.		ROBERT EMMETT SINNA NUCLEAR POWER		DRAWN	BY	DATE	SCALE
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REV.	
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by	D.H.
chkd	N/A
auth	W.D.R.
	W.D.R.
	W.D.R.
date	6/21/76

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

No. 10905-4

ROBERT EMMETT CINNA NUCLEAR POWER
STATION UNIT NO.1

ELEMENTARY WIRING DIAGRAM
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	MAIN CONTROL BOARD ANNUNCIATOR PANEL I-----	404
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	MAIN CONTROL BOARD ANNUNCIATOR PANEL J-----	409
	MAIN CONTROL BOARD ANNUNCIATOR PANEL J-----	410
	MAIN CONTROL BOARD ANNUNCIATOR PANEL J-----	411
	MAIN CONTROL BOARD ANNUNCIATOR PANEL J-----	412
	MAIN CONTROL BOARD ANNUNCIATOR PANEL J-----	413
	MAIN CONTROL BOARD ANNUNCIATOR PANEL K-----	414
	MAIN CONTROL BOARD ANNUNCIATOR PANEL K-----	415
	MAIN CONTROL BOARD ANNUNCIATOR PANEL K-----	416
	MAIN CONTROL BOARD ANNUNCIATOR PANEL K-----	417
	MAIN CONTROL BOARD ANNUNCIATOR PANEL K-----	418
	MAIN CONTROL BOARD ANNUNCIATOR PANEL L-----	419
	MAIN CONTROL BOARD ANNUNCIATOR PANEL L-----	420
	MAIN CONTROL BOARD ANNUNCIATOR PANEL L-----	421
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REV.	1
ORIGINAL	
BY	DH.
CHKD	NJR
ENGR.	WJG
DATE	4/24/72

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING DEPT
NO. 10005-5

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
INDEX

DRAWN	BY	DATE	SCALE
TRACED			APPROVED
CHECKED			FOLDER NO.
ENG.			JOB NO.

Enclosure 2

FUNCTION

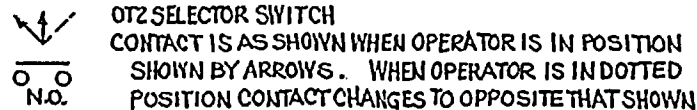
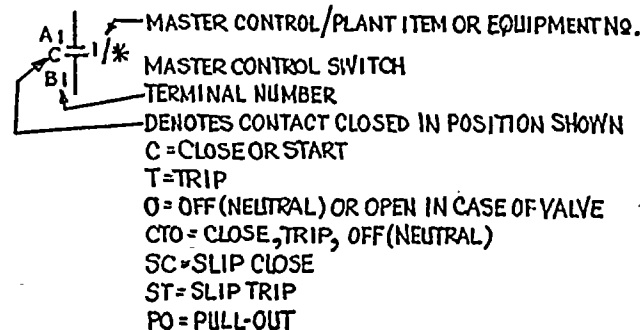
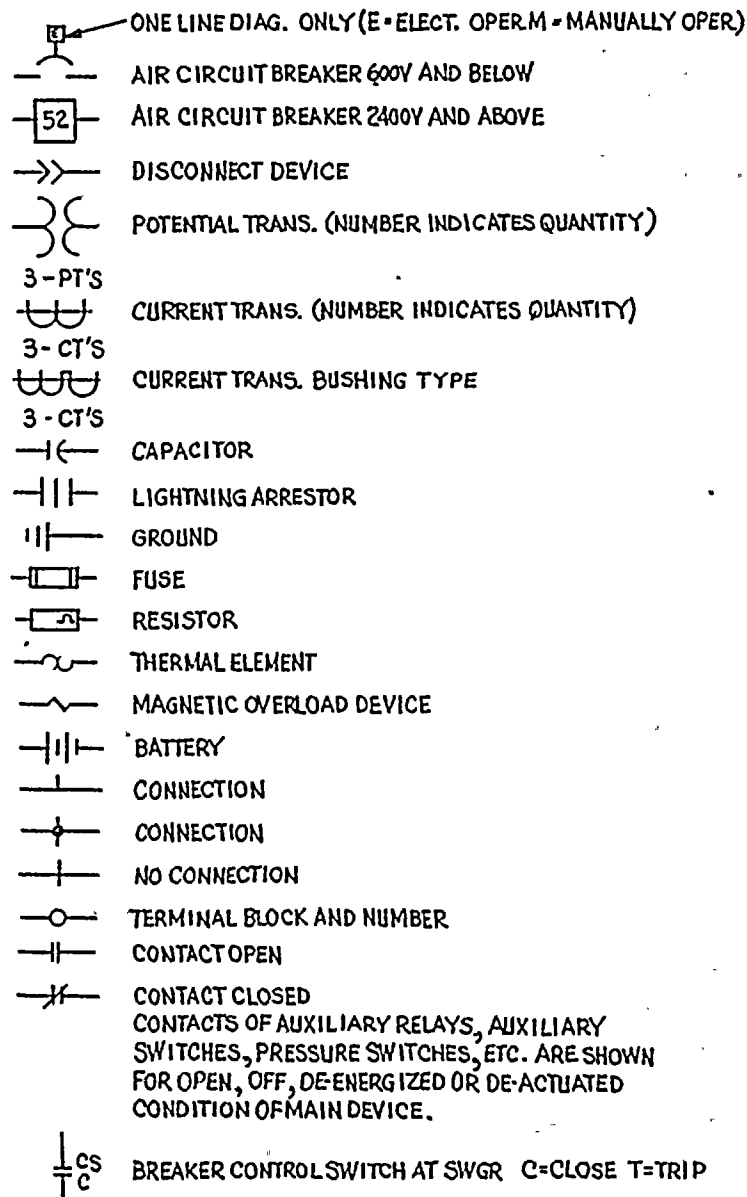
1. MASTER ELEMENT CONTROL SWITCH
2. TIME DELAY STARTING OR CLOSING RELAY
4. MASTER CONTACTOR
20. ELECTRIC OPERATED VALVE
21. DISTANCE RELAY
23. TEMPERATURE CONTROL DEVICE
25. SYNCHRONIZING OR SYNCHRONISM - CHECK DEVICE
27. UNDERVOLTAGE RELAY
32. DIRECTIONAL POWER RELAY
33. POSITION SWITCH (SEE SWITCH DEVELOPMENT)
40. FIELD RELAY
41. FIELD CIRCUIT BREAKER
42. MOTOR STARTER
43. MANUAL TRANSFER OR SELECTOR DEVICE
44. UNIT SEQUENCE STARTING RELAY
46. REVERSE - PHASE OR PHASE - BALANCE CURRENT RELAY
47. PHASE SEQUENCE VOLTAGE RELAY
48. INCOMPLETE SEQUENCE RELAY
49. THERMAL OVERLOAD DEVICE
50. OVERCURRENT RELAY - INSTANTANEOUS
51. OVERCURRENT RELAY - TIME DELAY
52. AC CIRCUIT BREAKER OR CONTACTOR
55. POWER FACTOR RELAY
59. OVERVOLTAGE RELAY
60. VOLTAGE BALANCE RELAY
62. TIME DELAY STOPPING OR OPENING RELAY
63. LIQUID OR GAS PRESSURE RELAY
64. GROUND PROTECTIVE RELAY
69. PERMISSIVE CONTROL DEVICE
71. LIQUID OR GAS LEVEL RELAY
72. DC CIRCUIT BREAKER OR CONTACTOR
74. ALARM OR BELL RELAY
80. LIQUID OR GAS FLOW RELAY
81. FREQUENCY RELAY
83. AUTOMATIC SELECTIVE CONTROL OR TRANSFER RELAY
85. CARRIER OR PILOT WIRE RECEIVER RELAY
86. LOCKOUT RELAY
87. DIFFERENTIAL CURRENT RELAY
90. REGULATING DEVICE

X)
Y } AUXILIARY RELAYS
Z }

H TRUCK OPERATED CELL SWITCH SHOWN FOR BREAKER IN TEST POSITION
S MECH. OPERATED CELL SWITCH SHOWN FOR BREAKER IN OPEN POSITION
ALM. SW. - ALARM SWITCH CONTACTS OPERATED WHEN BREAKER IS TRIPPED
AUTOMATICALLY BY ONE OF THE FOLLOWING ATTACHMENTS-SERIES
OVERLOADS, UNDERVOLTAGE OR REVERSE CURRENT TRIP. CONTACTS
DO NOT OPERATE WHEN BREAKER IS TRIPPED MANUALLY OR BY THE
SHUNT TRIP. CONTACTS SHOWN IN THE RESET POSITION. THE ALARM
SWITCH SHALL BE RESET MANUALLY BY ENERGIZING THE SHUNT TRIP
COIL.

LO-LOCKOUT COIL PREVENTS BREAKER FROM BEING CLOSED UNLESS IT IS ENERGIZED AFTER BREAKER IS CLOSED. "LO" COIL MAY BE DEENERGIZED WITHOUT TRIPPING BREAKER.

THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING 490B425, SHT 7, (REV. 2)									
ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK									
ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT No. 1									
LEGEND									
ENGINEERING									
DEPT									
No 10905-7									

[illegible]

THIS DRAWING SUPERCEDES WESTINGHOUSE
DRAWING 499 B425, SHT. 8 (REV. I)

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT'EMMETT GINNA NUCLEAR POWER
STATION UNIT No. 1

SYMBOLS.

No. 10905-8

N.C. N.O.

A schematic diagram of a three-terminal device. It features a central horizontal channel with three circular electrodes at its ends. Above and below the channel are two horizontal lines representing gates. Diagonal lines connect these gates to the central channel, indicating electrostatic coupling or tunneling paths.



AS

1

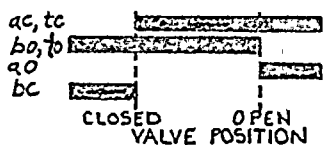
(A)

○

1

®

(33) VALVE LIMIT & TORQUE SW


$$\begin{matrix} & 3 \\ \textcircled{51} & \\ & \text{CO} \end{matrix}$$

INSIDE NUMBER REFERS TO DEVICE NUMBER. OUTSIDE
NUMBER INDICATES NUMBER OF RELAYS. OUTSIDE LETTERS
INDICATES TYPE OF RELAY:

100

NUMBER INSIDE OF CIRCLE INDICATES HORSEPOWER RATING

✱ ✱

INTERLOCK OR AUTO CONTROL CONTACT

()-

©

1	2	3	4
17	18	19	20
9	10	11	12
8F <input type="checkbox"/>			
13	14	15	16
21	22	23	24
5	6	7	8

WESTINGHOUSE
-TYPE BF RELAY
(FRONT VIEW)
SUPPLIED WITH UNMARKED
TERMINALS. NUMBERS
ASSIGNED FOR TERMINAL
LOCATION PURPOSES ONLY.

DATE	12-16-76	922	R69	Rm	X	REVIEW DRAWN BY	ORIGINAL	REV
		DISC.	ENGR	CHK'D				
		MGR.						

THIS DRAWING SUPERCEDES WESTINGHOUSE
DRAWING 489B425 SHT-9

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT No 1

ROCHESTER GAS & ELECTRIC CORP.

SYMBOLS OF ACTION

No. 10905-9

CONTRACT	POSITION				
	PULL OUT.	TRIP	OFF AFTER		CLOSE
			TRIP	CLOSE	
A11-B11	X	X			
A12-B12			X	X	
A1-B1					X
A5-A6	X	X	X		
A6-A7				X	X
B5-B6	X	X	X		
B6-B7				X	X
C11-D11	X	X			
C12-D12			X	X	
C1-D1					X
C5-C6	X	X	X		
C6-C7				X	X
D5-D6	X	X	X		
D6-D7				X	X
E12-E1	X				
F12-F1		X	X	X	X
E6-E7	X				
F6-F7		X	X	X	X

FIG NO 3

CONTACT	POSITION	
	CLOSE	OPEN
A11-B11		X
A12-B12	X	
A1-B1		X
A5-B5		X
A6-B6	X	
A7-B7		X
C11-D11		X
C12-D12	X	
C1-D1		X
C5-D5		X
C6-D6	X	
C7-D7		X

TYPE WZ C.S.
S#505A622 G01
(MAINTAINED)

CONTRACT	POSITION		
	IA1 IB1	OFF	IA2 IB2
A11-B11	X		
A12-B12		X	
A1-B1			X
A5-B5	X		
A6-B6		X	
A7-B7			X
C11-D11	X		
C12-D12		X	
C1-D1			X
C5-D5	X		
C6-D6		X	
C7-D7			X


TYPE WZ - C.S.
S# 505A612901
(MAINTAINED)

POSITION	
CONTACT	<div> BUS14 BUS16 </div> OFF <div> BUS18 BUS17 </div>
A11-B11	X
A12-B12	X
A1-B1	X
A5-B5	X
A6-B6	X
A7-B7	X
C11-D11	X
C12-D12	X
C1-D1	X
C5-D5	X
C6-D6	X
C7-D7	X

TYPE W 2 SS.
SN 505A756 G0

TRIP CLOSE
PULL OUT

OFF
1B1 1B2



A schematic diagram of a trip switch. It shows a circle representing the switch body. Above the circle is a semi-circular arc. To the left of the circle, the text "TRIP" is written above "PULL OUT". To the right of the circle, the text "CLOSE" is written. Above the circle, the text "AUTO" is written.

STANDARD SCORE
OFF
BUS 14 BUS 18

CLOSE
 OPEN

OFF

1A1 1A2

AUTO
OFF | ON

SWITCH	FIG. NO.	F.P. DETAIL
1/11A	1	A
1/11B	1	A
1/12A	1	A
1/12B	1	A
1/13A-A	1	B
1/13A-B	1	A
1/13B-B	1	B
1/13SS	1	A
1/14SS	1	A
1/15SS	1	A
1/16SS	1	A
1/17SS	1	A
1/18SS	1	A
1/CWPIA	1	C
1/CWPIB	1	C
1/HOPIA	1	C
1/HDDIB	1	C
1/FPIA	1	C
1/FPIB	1	C
1/RPIA	1	C
1/RPIB	1	C
1/14	1	A
1/16	1	A
1/17	1	A
1/18	1	A
1/BT14-13	1	A
1/BT16-15	1	A
1/MG1A	1	C
1/MG1B	1	C
1/IAC1A	1	C
1/IAC1B	1	C
1/MC1A	1	A
1/MC1B	1	A
1/MCC1C	1	A
1/MCC1D	1	A
1/MCC1E	1	A
1/MCC1F	1	A
1/MCC1G1	1	A
1/MCC1G2	1	A
1/CRSF1A	1	D
1/CRSF1B	1	D
1/SAC	1	C
1/EG1A1	1	B
1/CRAN	1	C
1/PC1A	1	C
1/PC1B	1	C
1/PSF1A	1	C
1/PSF1B	1	C
1/RCF1	1	C
1/RCF1A	1	D
1/RCF1B	1	D
1/VCAF1A	1	C
1/VCAF1B	1	C

SWITCH	FIG. NO.	F.P. DETAIL
1/EGIAZ	1	B
1/EGIB1	1	B
VEGIB2	1	B
1/SP1A	1	D
1/SP1B	1	D
1/SP1C1	1	D
1/SP1C2	1	D
1/SP1A	1	D
1/SP1B	1	D
1/RH1P1A	1	D
1/RH1P1B	1	D
1/CH1P1A	1	C
1/CH1P1B	1	C
1/CH1C	1	C
1/PH1C	1	A
1/SW1P1A	1	D
1/SW1P1B	1	D
1/SW1P1C	1	D
1/SW1P1D	1	D
1/BAT1P1A	1	D
1/BAT1P1B	1	D
1/HT1P1A	1	C
1/HT1P1B	1	C
1/SF1P1A	1	C
1/SF1P1B	1	C
1/MT1P1D	1	C
1/OL1P1A	1	C
1/OL1P1B	1	C
1/CD1P1A	1	D
1/CD1P1B	1	D
1/MW1P1A	1	D
1/MW1P1B	1	D
1/ST1P1A	1	D
1/ST1P1B	1	D
1/WG1C1A	1	D
1/WG1C1B	1	D
1/TGP	1	D
1/EN1P1A	1	D
1/EN1P1B	1	D
1/AFAP-ALOP	1	C
1/AS1P1A	1	D
1/NS1P1B	1	D
1/AS1P1A	1	D
1/AS1P1B	1	D
1/FAPIA1A2	2	E
1/FAPIB1B2	2	F
1/TDV	3	J
SS/1A-1B	4	G
SS/1B-17	4	H
1/FB1P	1	A
1/EG1A-UN	1	D
1/EG1B-CONT	1	D

REV. 1	DFFH	Rev	8/16/72	RCC	7-22-71	9 E 2	7/29/72
ORIGINAL	GJF	Rev	6/10/72	RCC	6/11/72	9 E 2	6/6/72
	DRAWN BY	CK'D	ENGR.	RESP.	INSP.	DATE	

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

ROBERT EMMETT GINNA NUCLEAR
POWER STATION UNIT NO. 1
ELEMENTARY VIBRATION DIAGRAM

DRAWN	BY	DATE	SCALE
TRACES			APPROV
CHECKED			FOLDER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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NOTE-THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B425 SH 10.

CONTACT	POSITION			
	P	C	A	O
	11	11	12	1
A11 - B11	X	X		
A12 - B12			X	
A1 - B1				X
A5 - B5	X	X		
A6 - B6			X	
A7 - B7				X
C12 - C1	X			
D12 - D1		X	X	X
C6 - C7	X			
D6 - D7		X	X	X

TYPE W2 #505A133601
SPRING RETURN TO AUTO FROM
CLOSE AND OPEN PULL TO LOCK
IN CLOSE POSITION.

DETAIL "A"

AUTO
CLOSE OPEN
pull
OUT

[illegible][illegible]

FIG. NO. 1						
CONTACT	POSITION					
	PULL	TRIP	OFF	AFTER	TRIP	CLOSE
A11-B11	X	X				
A12-B12			X	X		
A1-B1						X
A5-B5	X	X				
A6-B6			X	X		
A7-B7						X
C11-D11	X	X				
C12-D12			X	X		
C1-D1						X
C5-C6	X	X	X	X		
C6-C7				X	X	X
D5-D6	X	X	X	X		
D6-D7				X	X	X
E11-F11	X	X				
E12-F12			X	X		
E1-F1						X
E5-E6	X	X	X	X		
E6-E7				X	X	X
F5-F6	X	X	X	X		
F6-F7				X	X	X
G11-H11	X	X				
G12-H12			X	X		
G1-H1						X
G5-G6	X	X	X	X		
G6-G7				X	X	X
H5-H6	X	X	X	X		
H6-H7				X	X	X
I11-J11	X	X	X			
I12-J12			X	X	X	
I1-J1						X
I5-I6	X	X	X			
I6-I7			X	X	X	X
J7-J8						X
K12-K1	X					
L12-L1		X	X	X	X	X
K6-K7	X					
L6-L7		X	X	X	X	X

TYPE WZ 5" 505A755G01
(3 POSITION SPRING RETURN TO OFF)
FIG. NO. 2

CONTACT	POSITION	
	OFF	ON
A11-B11		X
A12-B12	X	
A1-B1		X
A5-B5		X
A6-B6	X	
A7-B7		X

TYPE WZ 5" 505A755G01
KEY 505A755G02

FIG. NO. 3						
CONTACT	POSITION					
	PULL	TRIP	OFF	AFTER	TRIP	CLOSE
A11-B11	X	X				
A12-B12			X	X		
A1-B1						X
A5-B5	X	X				
A6-B6			X	X		
A7-B7						X
C11-D11	X	X				
C12-D12			X	X		
C1-D1						X
C5-C6	X	X	X	X		
C6-C7				X	X	X
D5-D6	X	X	X			
D6-D7				X	X	X
E11-F11	X	X				
E12-F12			X	X		
E1-F1						X
E5-E6	X	X	X	X		
E6-E7				X	X	X
F5-F6	X	X	X	X		
F6-F7				X	X	X
G11-H11	X	X				
G12-H12			X	X		
G1-H1						X
G5-G6	X	X	X			
G6-G7				X	X	X
H5-H6	X	X	X			
H6-H7				X	X	X
I12-I1	X					
J12-J1		X	X	X	X	
J6-J7		X	X	X	X	

TYPE WZ 5" 505A3559G01
(SPRING RETURN TO OFF)
FIG. NO. 4

CONTACT	POSITION			
	OFF	—	AUTO	ON
A11-B11	X			
A12-B12			X	
A1-B1				X
A5-B5	X			
A6-B6			X	
A7-B7				X
C11-D11	X	X		
C12-D12		X	X	X
C1-D1				X
C5-D5	X	X		
C6-D6		X	X	X
C7-D7				X

TYPE WZ 5" 505A755G01
(MAINTAINED)

FIG. NO. 5						
CONTACT	POSITION					
	PULL	TRIP	TRIP	OFF	CLOSE	
A11-B11	X	X				
A12-B12				X		
A1-B1					X	
A5-B5	X	X				
A6-B6				X		
A7-B7					X	

TYPE WZ 5" 505A713G04
(SPRING RETURN TO OFF)

CONTACT	POSITION			
	OFF	A	B	C
A11-B11		X		
A12-B12			X	
A1-B1				X
A5-B5		X		
A6-B6			X	
A7-B7				X

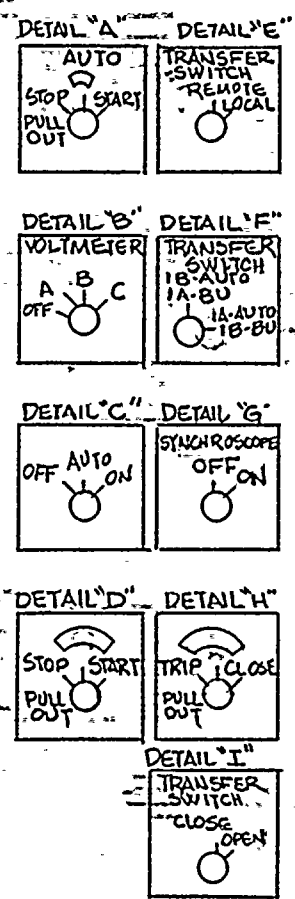
TYPE WZ 5" 505A702G04

CONTACT	POSITION	
	R	L
A11-B11		X
A12-B12	X	
A1-B1		X
A5-B5		X
A6-B6	X	
A7-B7		X
C11-D11	X	
C12-D12		X
C1-D1	X	
C5-D5	X	
C6-D6		X
C7-D7	X	

TYPE WZ 5" 505A221G01
(MAINTAINED)

FIG. NO. 7

CONTACT	POSITION	
	R	L
A11-B11		X
A12-B12	X	
A1-B1		X
A5-B5		X
A6-B6	X	
A7-B7		X
C11-D11	X	
C12-D12		X
C1-D1	X	
C5-D5	X	
C6-D6		X
C7-D7	X	



SWITCH	FIG NO	FP DETAIL
1/CPIA	1	A
1/CPIB	1	A
1/CPIC	1	A
1/EFIA	1	D
1/EFIB	1	D
1/VCCPIA	1	A
1/VCCPIB	1	A
1/V13	3	H
1/V15	3	H
1/VBT16-14	3	H
1/VBT17-18	3	H
1/1SAND	1	A
1/CFIA	3	A
1/CFIB	3	A
1/CFIC	3	A
1/CFID	3	A
1/MAFPIA	3	A
1/MAFPB	3	A
1/50B	3	A
1/EOP	3	D
1/FAOPIA	3	D
1/FAOPIB	3	D
1/TADC	3	D
1/PHBG	4	C
43/MAFPIA	7	E
43/MAFPB	7	E
43/CPPIA	7	E
43/CPPIB	7	E
43/CPPIC	7	E
43/BATPIA	7	E
43/BATPIB	7	E
43/STP	7	F
SS	2	G
CS	5	H
VS	6	B
43/200A	7	E
43/200B	7	E
43/200C	7	E
43/5WPPIA	7	E
43/5WPIB	7	E
43/5WPIC	7	E
43/5WPID	7	E
43/CFIA	7	E
43/CFIB	7	E
43/CFIC	7	E
43/CFID	7	E
43/TDB	7	I
43/EGIA	7	E
43/EGIB	7	E

REV.	DATE	BY	CHKD	RES	ENGR	DATE
	6/16/76	GJF	CKD	RES	ENGR	6/4/76
ORIGINAL		DRAWN BY				

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B425 SH.11.

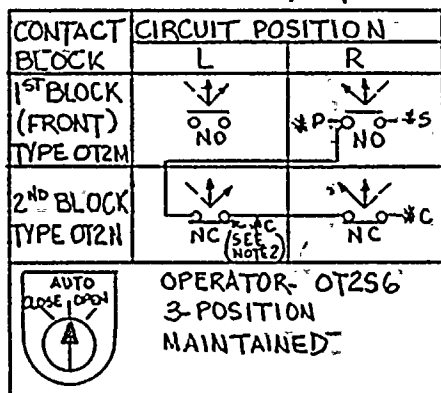
ROBERT EMMETT GINNA, NUCLEAR POWER STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

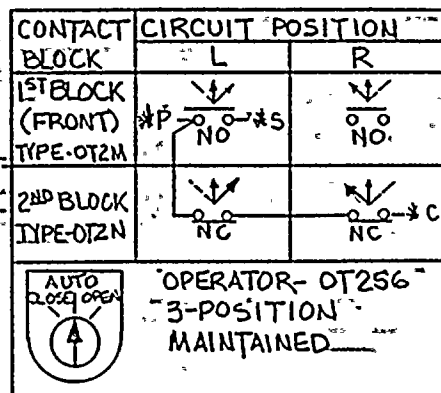
ENGINEERING DEPT

SCALE
APPROVED
FOLDER NO.
JOB NO.

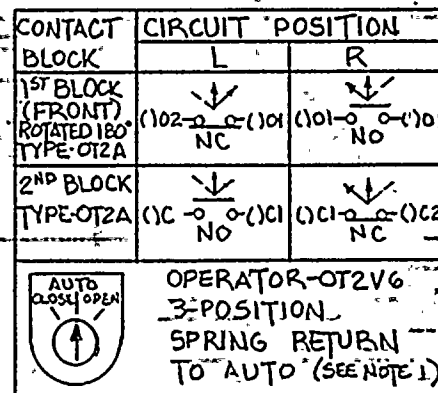
NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING NO. 499B425 SH12 REV. 5



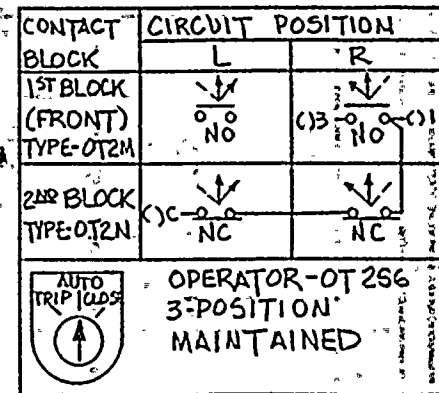
DEV.-A



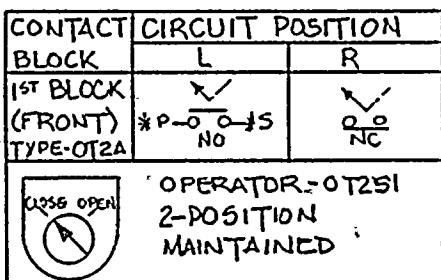
DEV.-B



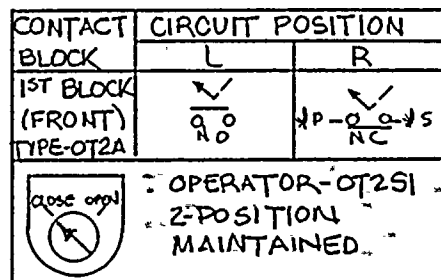
DEV.-C



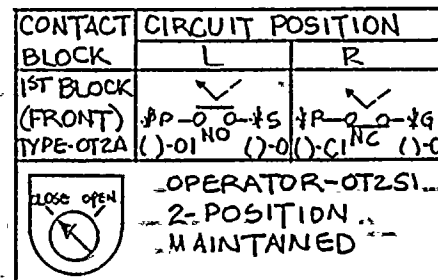
DEV.-D



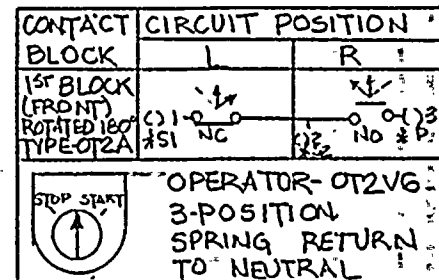
DEV.-E



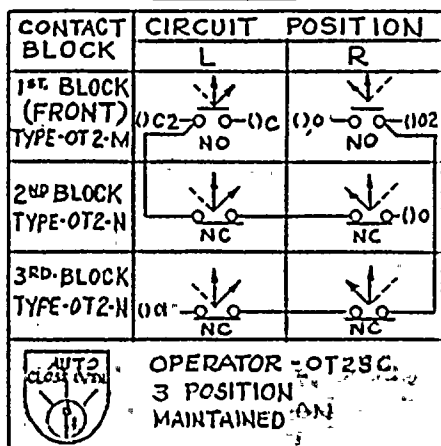
DEV.-F



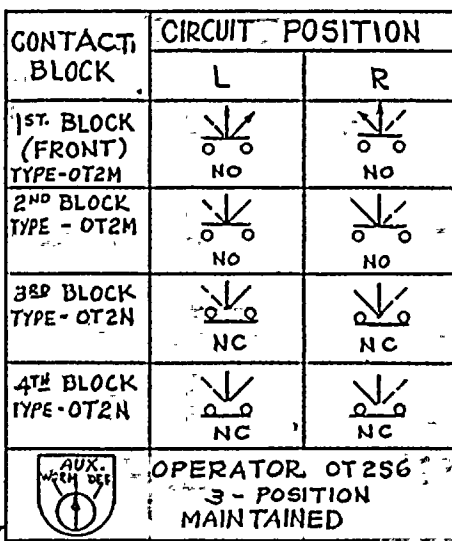
DEV.-G



DEV.-H



DEV.-I



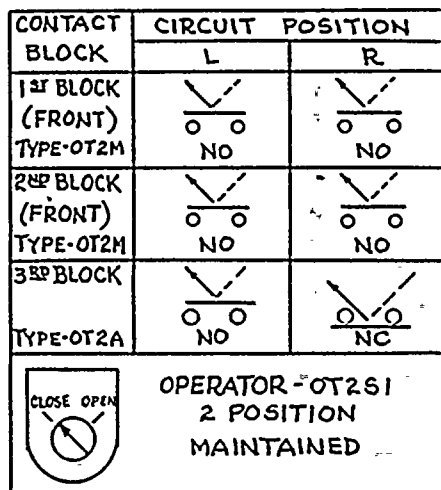
DEV.-J

NOTE:

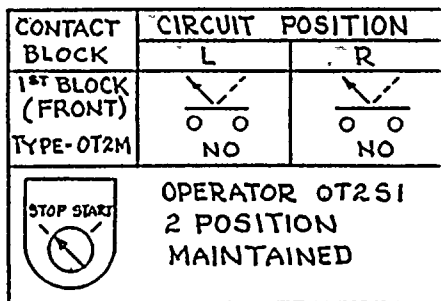
- OMIT WORD AUTO FROM N.P. FOR FIG. 1-5-7-13 SHEETS 278-280-284-286-305-276
- VALVE LCY-112 SH. 270 ONLY.

REV	DATE	BY	CHK'D	APP'D	DATE
ORIGINAL		GJR	DLG	RFQ	7/1/76
		DRAWN BY	CK'D	ENG'G	1/1/76
				INCR	DATE

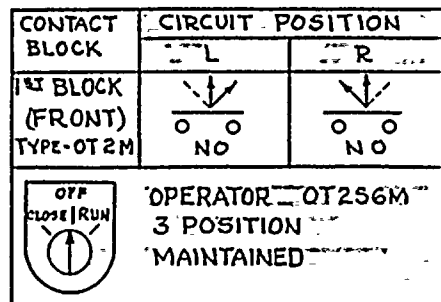
ROBERT EMETT GINNA NUCLEAR POWER STATION UNIT NO. 1	SCALE NONE
ENGINEERING	APPROVED
NO. 10905-12	POSSIBLE NO.
	JOB NO.
	CHECKED
	DATE
	BY
	TRACED
	WIRING DIAGRAM
	SWITCH DEVELOPMENT
	ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK



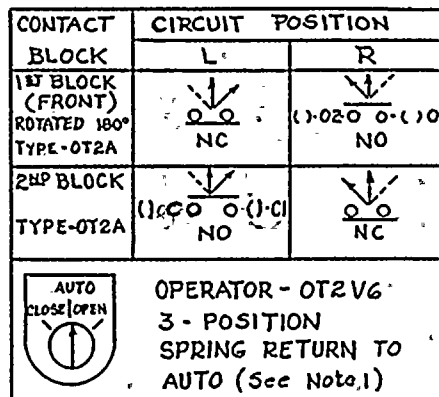
DEV - J



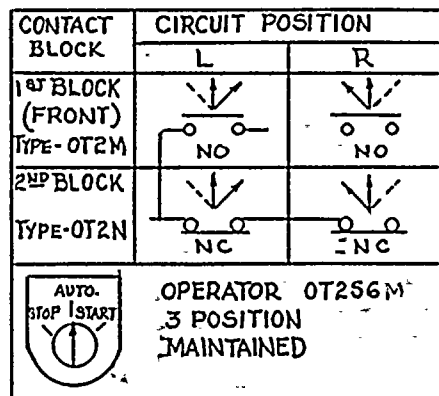
DEV - N



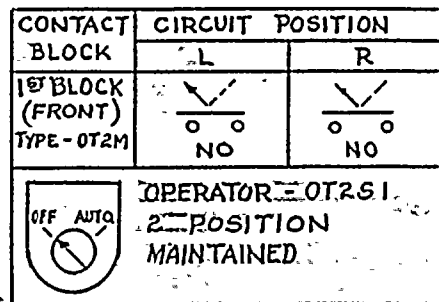
DEV - U



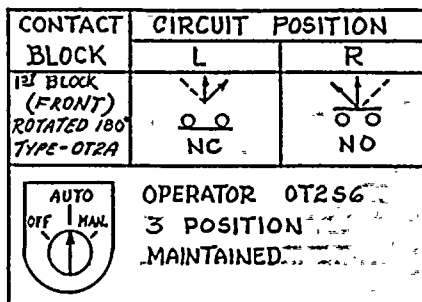
DEV - K



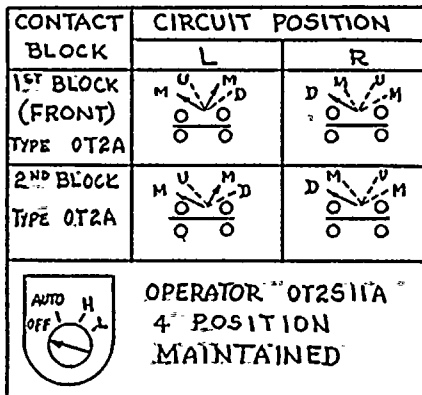
DEV - R



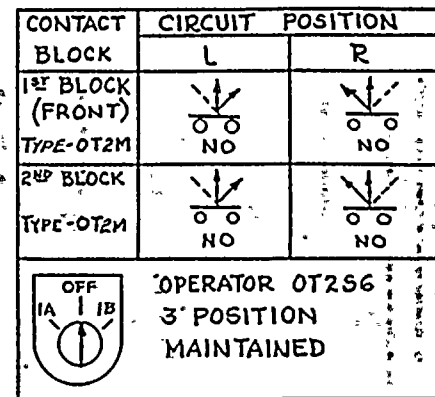
DEV - X



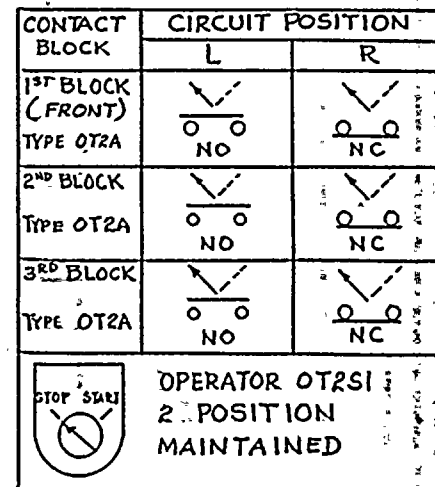
DEV - L



DEV - S



DEV - M



DEV - T

NOTE-1 - OMIT WORD "Auto" FROM NAMEPLATE FOR FIG.6, SH.285

REV.					
ORIGINAL	N.J.A.	RHM	PCN	RCM	6/4/75
	DRAWN BY	CHK'D.	RESP. ENG'R.	ENG'R. MGR.	DATE

This Drawing Supersedes Westinghouse Eng. 4998425 Sheet 13 REV. 2

ROBERT EMMETT GUNN NUCLEAR STATION UNIT 1
ELEMENTARY WIRING DIAGRAM
SWITCH DEVELOPMENT

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

DEPT

APPROVED

SCALE

NO. 1

NO. 2

NO. 3

NO. 4

NO. 5

NO. 6

NO. 7

NO. 8

NO. 9

NO. 10

NO. 11

NO. 12

NO. 13

NO. 14

NO. 15

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NO. 69

NO. 70

NO. 71

NO. 72

NO. 73

NO. 74

NO. 75

NO. 76

NO. 77

NO. 78

NO. 79

NO. 80

NO. 81

NO. 82

NO. 83

NO. 84

NO. 85

NO. 86

NO. 87

NO. 88

NO. 89

NO. 90

NO. 91

NO. 92

NO. 93

NO. 94

NO. 95

NO. 96

NO. 97

NO. 98

NO. 99

NO. 100

OPERATOR	CAT NO	NAME PLATE	START PB	STOP PB
NO-PB	OT2B1B	START		
NC-PB	OT2B2D	STOP		
(COLOR) LIGHT	OT2FF2	125 VDC		
BOX-SINGLE	OT2P01			
BOX-DOUBLE	OT2P02			
BOX-TRIPLE	OT2P03			
COVER-SINGLE	OT2S01			
COVER-DOUBLE	OT2S02			
COVER-TRIPLE	OT2S03			

DEV.-P

CONTACT BLOCK	CIRCUIT POSITION	
	L	R
1ST BLOCK (FRONT) ROTATED 180° TYPE-OT2A		
2ND BLOCK TYPE-OT2A		
3RD BLOCK ROTATED 180° TYPE-OT2A		
4TH BLOCK TYPE-OT2A		
	OPERATOR-OT2V6 3 POSITION SPRING RETURN TO AUTO	

DEV.-Z

CONTACT BLOCK	CIRCUIT POSITION	
	L	R
1ST BLOCK (FRONT) TYPE-OT2A		
2ND BLOCK TYPE-OT2A		
	OPERATOR OT2S1 2 POSITION MAINTAINED	

DEV.-W

CONTACT BLOCK	CIRCUIT POSITION	
	L	R
1ST BLOCK (FRONT) TYPE-OT2A		
2ND BLOCK TYPE-OT2A		
	3-POSITION SPRING RETURN TO NEUTRAL OT2V6 OPERATOR	

DEV. AA

CONTACT BLOCK	CIRCUIT POSITION	
	L	R
1ST BLOCK (FRONT) TYPE-OT2M		
2ND BLOCK TYPE-OT2M		
3RD BLOCK TYPE-OT2A		
	OPERATOR-OT2S1 2 POSITION MAINTAINED	

DEV.-Y

CONTACT BLOCK	CIRCUIT POSITION	
	L	R
1ST BLOCK (FRONT) ROTATED 180° TYPE-OT2A		
2ND BLOCK TYPE-OT2A		
3RD BLOCK TYPE-OT2A		
	OPERATOR-OT2V6 3-POSITION SPRING RETURN TO AUTO	

DEV. BB

REV					
ORIGINAL	GJF	DLG.	R&A.	PEL	4/1/76
	DRAWN BY	CK'D	RELP ENGR	ENGR MGP	DATE

NOTE- THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING NO599B425 SH.14 REV.4

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

No. 10905-14

ROBERT EMAMETT GINNA NUCLEAR POWER
STATION UNIT NO 1ELEMENTARY WIRING DIAGRAM
Schematic

DRAWN

TRACED

CHECKED

ENG.

DATE

BY

BY

BY

SCALE

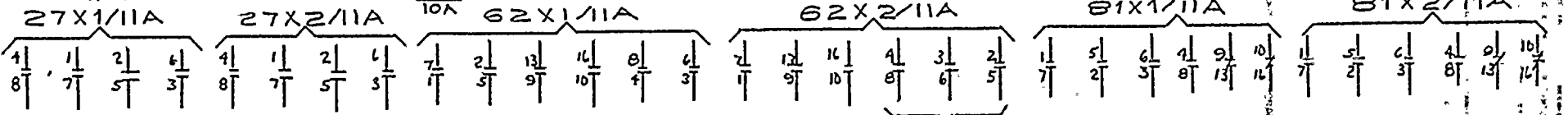
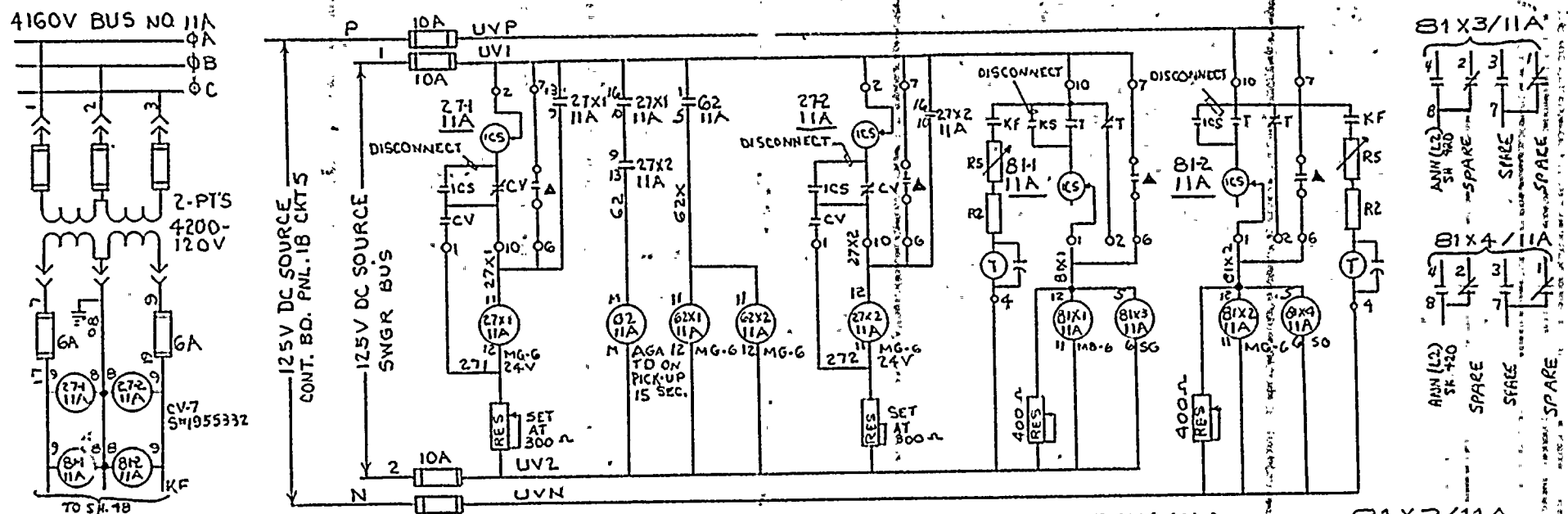
NONE

APPROVED

FOLDER NO.

JOB NO.

SWGR UNIT NO. 11



- SPARE
- MFPX-1A2 SHEET-317
- MFPX-1B2 SHEET-317
- ANN. (L 3) SHEET-420
- SPARE
- MFPX-1A2 SHEET-317
- MFPX-1B2 SHEET-317
- ANN. (L 3) SHEET-420
- TRIP CKT. 52/1355
- SHEET-28
- TRIP CKT. 52/SPARE
- SHEET-38
- TRIP CKT. 52/CWPIA
- SHEET-31
- TRIP CKT. 52/HDPIA
- SHEET-35
- TRIP CKT. 52/CPIC
- SHEET-34
- TRIP CKT. 52/CPIC
- SHEET-32
- TRIP CKT. 52/FPIC
- SHEET-30
- TRIP CKT. 52/RCPIA
- SHEET-37
- TRIP CKT. 52/EFIA
- SHEET-36
- SPARE
- ANN. (L 2) SHEET-420
- TRIP CKT. 52/RCPIA
- SHEET-37
- TRIP CKT. 52/RCPIB
- SHEET-37
- SPARE
- RELAY RACK R1
- 81X1-11AX DWG. 1100053 SH. 8
- RELAY RACK R2
- 81X1-11AX DWG. 1100053 SH. 8
- ANN. (L 2) SHEET-420
- TRIP CKT. 52/RCPIA
- SHEET-37
- TRIP CKT. 52/RCPIB
- SHEET-37
- SPARE
- RELAY RACK R1
- 81X2-11AX DWG. 1100053 SH. 8
- RELAY RACK R2
- 81X2-11AX DWG. 1100053 SH. 8

NOTES:
▲: RELAY CHASSIS OPERATED SHORTING SWITCH
REMAINS CLOSED WITH CHASSIS OUT OF RELAY CASE

THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING
499B425, SHT 15

REV	1	J. H.	Rm	RFA	fed	4/1/60
ORIGINAL		DRAWN BY	CHK'D	RESP. ENGR	ENGR. IN CH	DATE

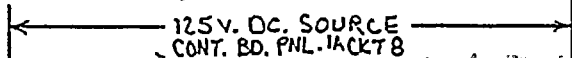
ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1 ELEMENTARY WIRING DIAGRAM UNDERVOLTAGE SCHEME BUS 11A		DRAWN BY	12/1/60	DATE	12/1/60	SCALE	1/2" = 1'	APPROVED	FOLDER NO.	JOB NO.
		TRACED	12/1/60							
		CHECKED	12/1/60							
		ENG.								

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

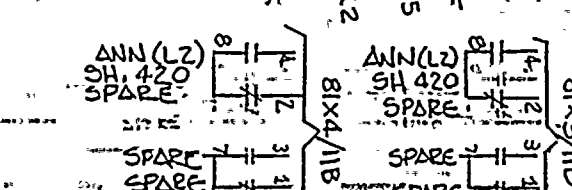
ENGINEERING DEPT

No. 10,905-15

1			
2			
3			
	6	6	6
	7	8	9



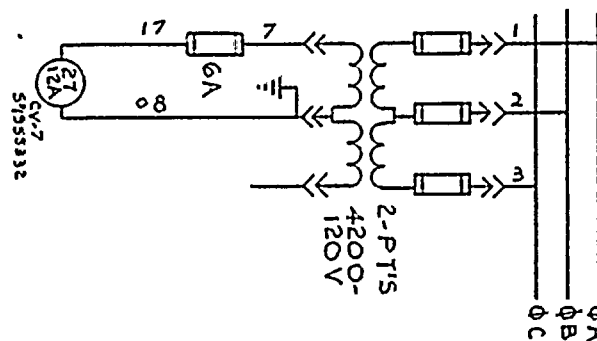
A schematic diagram of a power supply system. It features a horizontal line representing a busbar, labeled "SWGR BUS". Above this busbar, there is a rectangular box labeled "125 V. DC SOURCE". A double-headed arrow connects the source box to the busbar, indicating the connection.



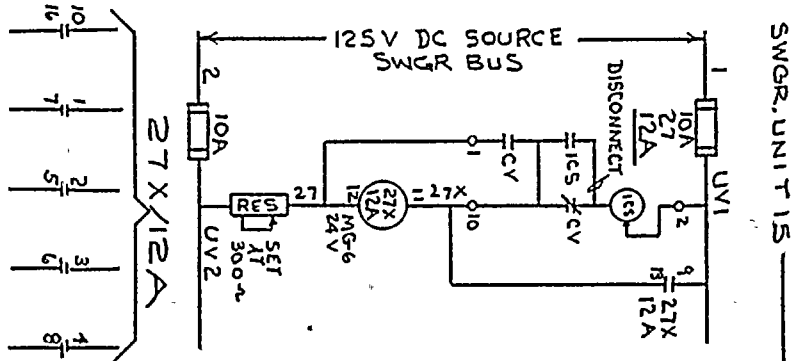
RELAY RACK RY2
81X2-11EX

JOB NO. 4

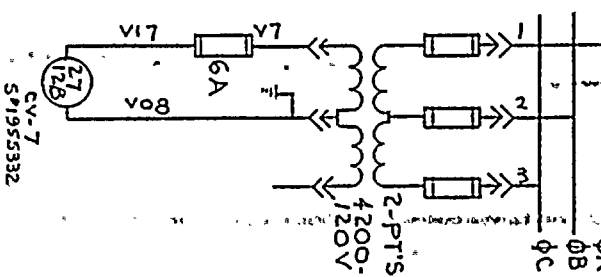
4160Y, BUS NO. 12A



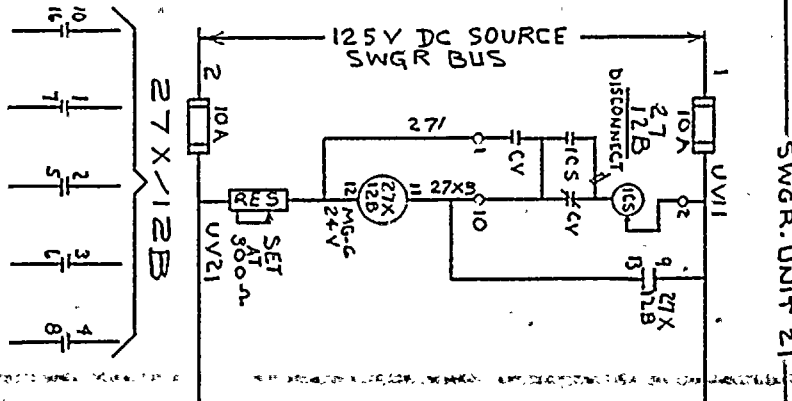
ANN. (L4)
SHEET- 421



4160Y, BUS NO. 12B



ANN.(L 4)
SHEET-421



REV					
	J.H.	<i>Rm</i>	<i>WDB</i>	<i>982</i>	<i>4/13/70</i>
ORIGINAL	DRAWN	CHK'D	RESP	ENGR.	DATE
	BY		ENGR.	MGR.	

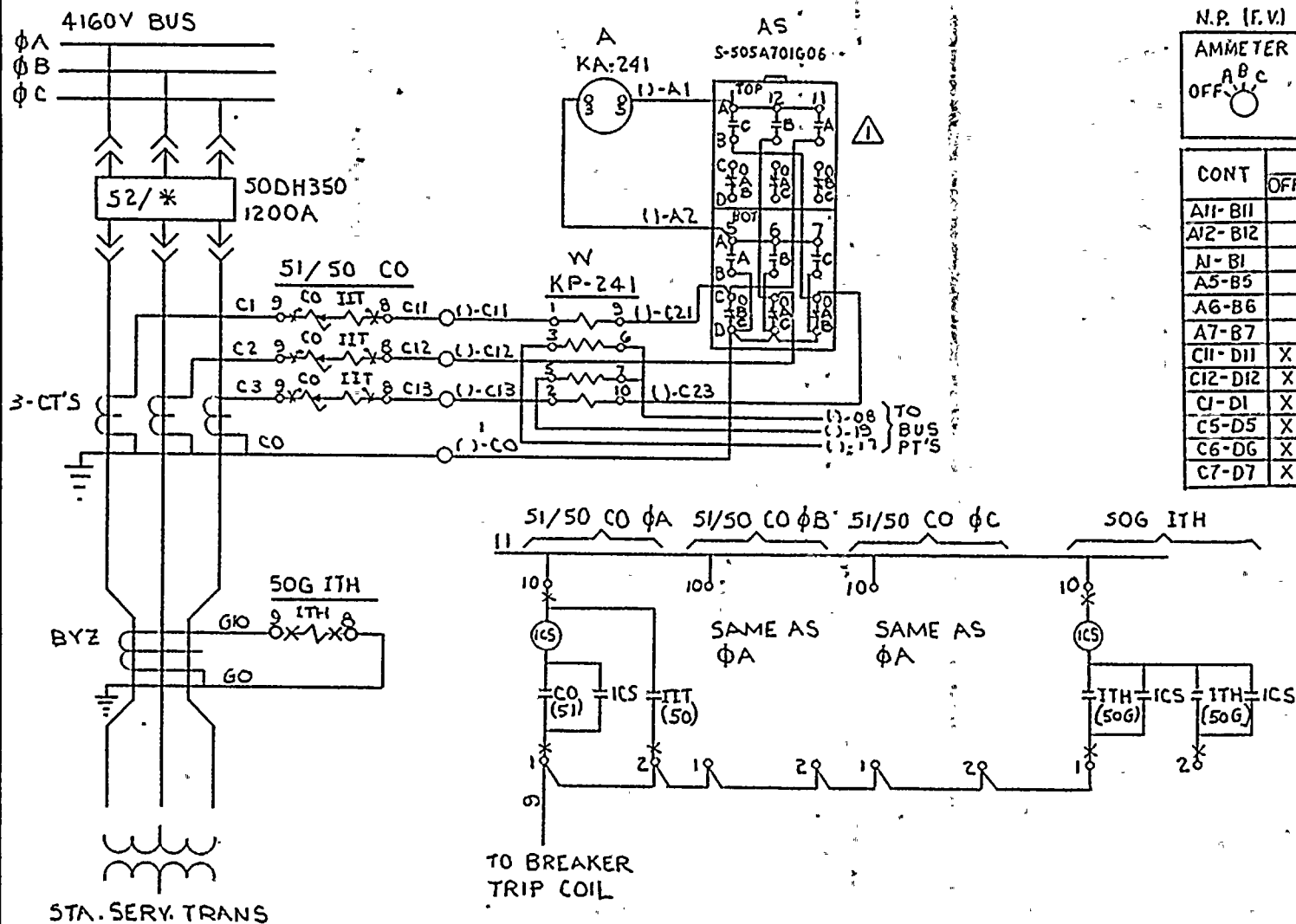
AR	DRAWN	BY	DATE	SCALE
TRACED	<i>WDB</i>			APPROVED
CHECKED	<i>W</i>			FOLDER NO.
128	ENR			

THIS DWG. SUPERCEDES WESTINGHOUSE DWG.
 N° 497B 425, SHT. 17

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GINNA. NUCLEAR
POWER STATION UNIT No 1
ELEMENTARY WIRING DIAGRAM
UNDERVOLTAGE SCHEME BUS 12R, 12B

NO 10005-17




* - 13SS, 14SS, 15SS 16SS, 17SS and 18SS

THIS DWG. SUPERCEDES WESTINGHOUSE DWG NO 499B425-SHT 10

AMMETER
OFF A B C

X INDICATES
CONTACTS CLOSED
IN POSITION SHOWN

[illegible]

REV		RWD 7/6/76	OFF 7-7-76	RFA 7-11-76	JES	7/22/76
ORIGINAL		J.H	RWD	REQ	JES	4/1/76
		DRAWN BY	CK'D	RESP ENGR	ENGR MGR	DATE

ROBERTI EMMETI GINNA NUCLEAR POWER

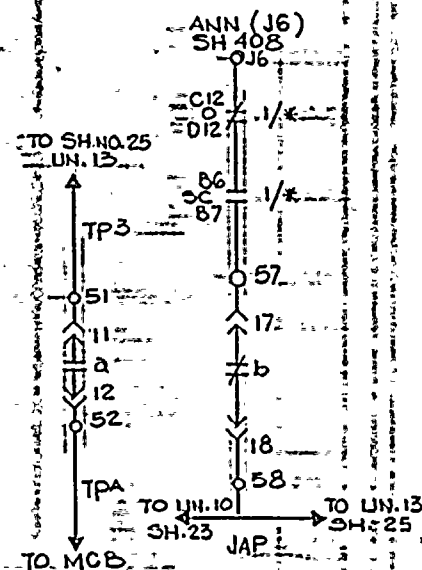
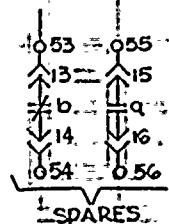
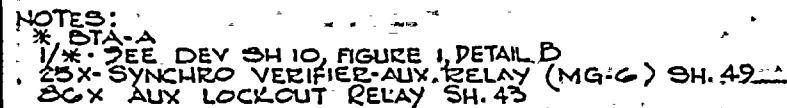
ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ELEMENTARY WIRING DIAGRAM

ENGINEERING
No. 10905-18



ROCHESTER GAS & ELECTRIC CORP.	DEPT
ROCHESTER, NEW YORK	ENGINEERING



THIS DW'S SUPERCEDES VESTING HOUSE
DWG. 499 B 425-SH 20 REV 10

Rev.	①	Rev	7/6/76	Dr	7-8-76	RBA	9 E 8	7/20/76
		ASM		Rnw		RBA	9 E 8	4/1/76
		drawn by		ck'd.		resp. mgr	eng'r	date

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

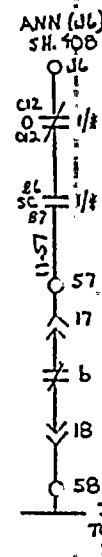
ROBERT EMMETT GINNA NUCLEAR
STATION - UNIT NO. 1

DRAWN	BY	DATE	SCALE
TRACED			APPROVED
CHECKED			FOLDER NO.
ENG.			JOB NO.

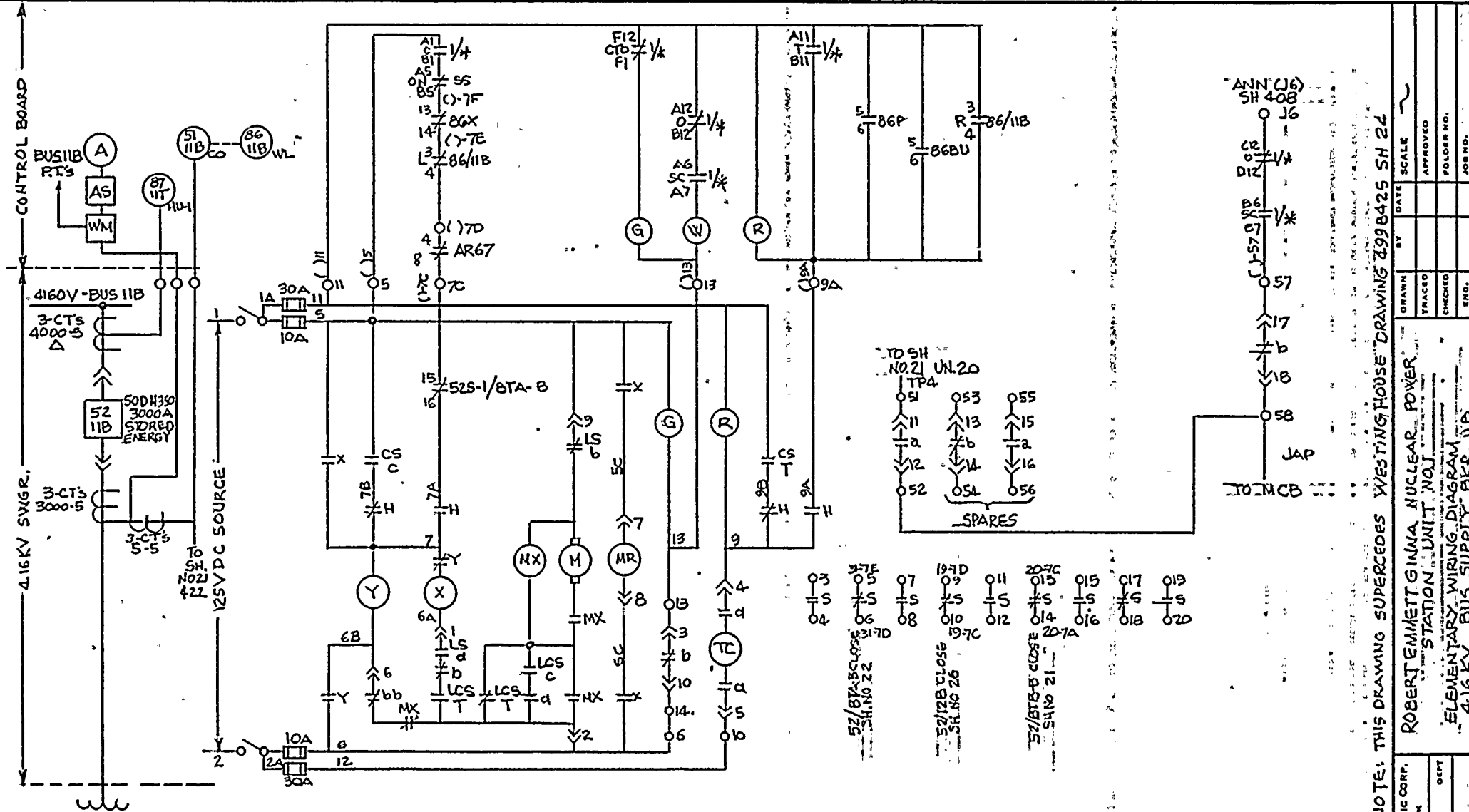
No. 10905-20 A



1/4 SEC DEV SH. 10, FIGURE 1, DETAIL B
 25X - SYNCHRO VERIFIER-AUX. RELAY (MG-6) SH 49
 86X - AUX. LOCKOUT RELAY - SH 43.

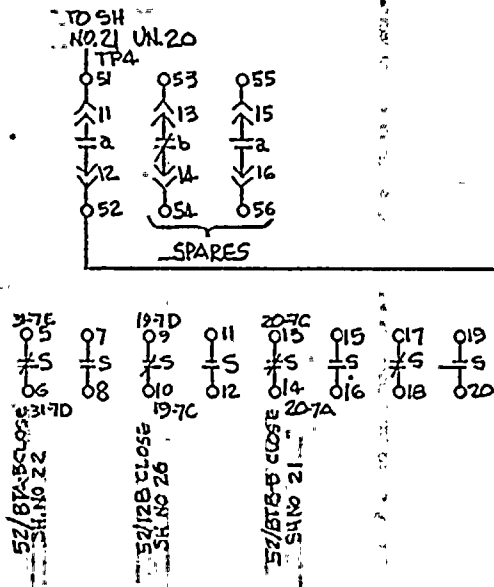


REV.	△	Rev 7/15/76	DEH 75-16	R10 7-10-76	9 E 1	9/24/76
ORIGINAL				10-17-75	R 6 G	9 E 1
				DRAWN BY	RES ENGR	ENG MGR
ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK						
ENGINEERING			DEPT	ROBERT L. EMMETT, JR. UNIT, No. 1		
No. 10905-21			△	ELEMENTARY WIRE 4.16. KV BUS-TIE		



AUX TRANS NO 11- UNIT NO 22

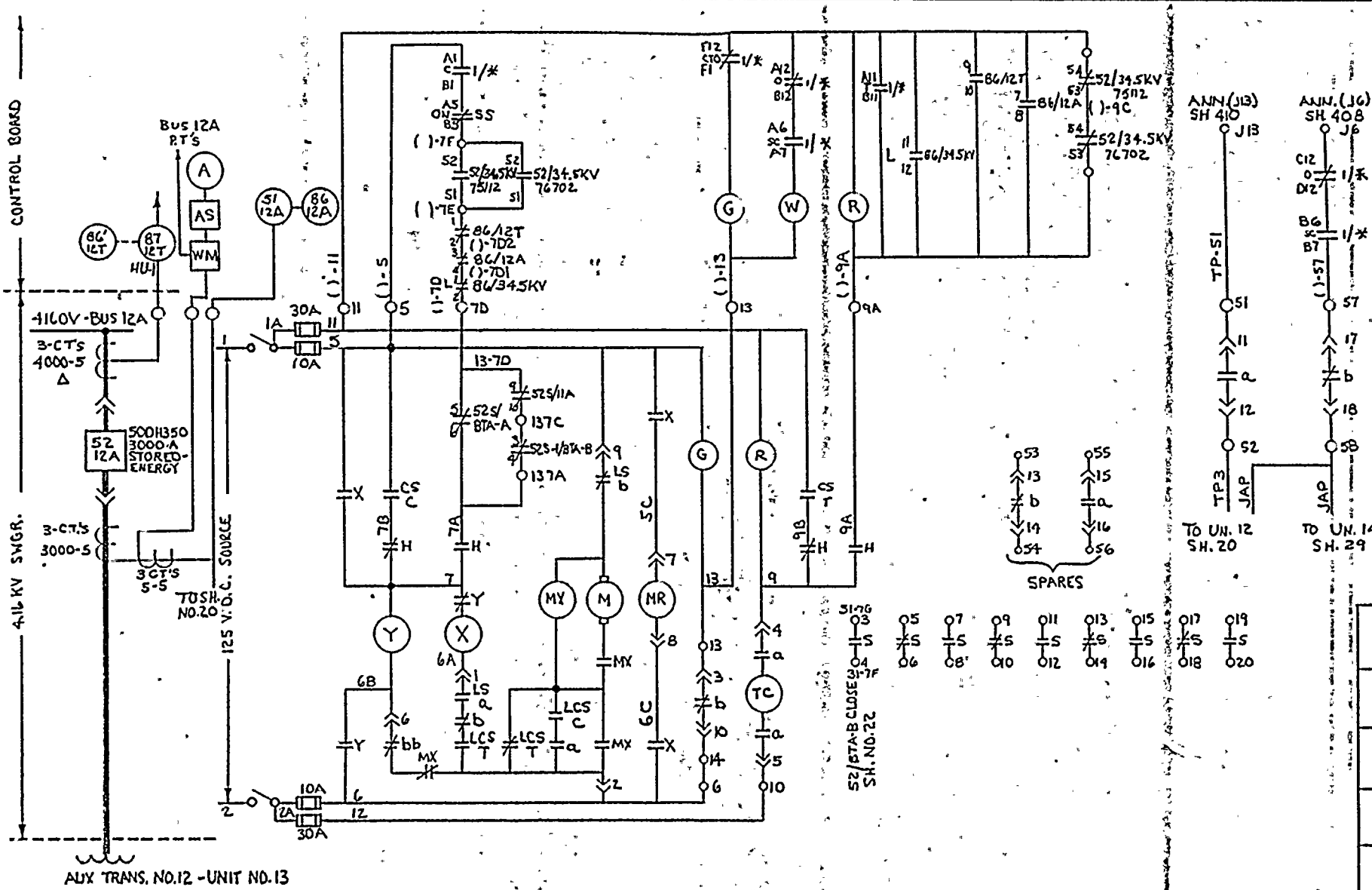
NOTES:
* 11B
1/4-SEE DEV SH 10 FIG 1, DETAIL A
86X-AUX LOCKOUT RELAY
AR 67-FIELD BKR AUX RELAY (MG-6) MOUNTED
IN REGULATOR CUBICLE



REV					
ORIGINAL	DRAWN BY	CHK'D	RESP ENGR	ENGR MGR	DATE

NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING 2998425 SH 24

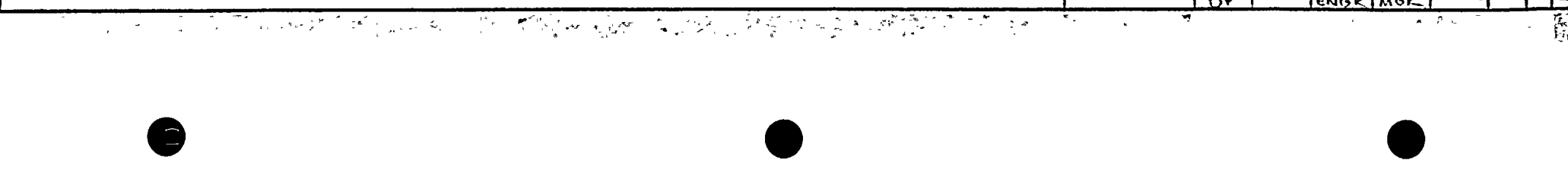
ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ENGINEERING No. 10905-24	DATE 1/1/76	BY Rm	SCALE 1/1/76	APPROVED P.E.G.	FOLDER NO. 10905-24
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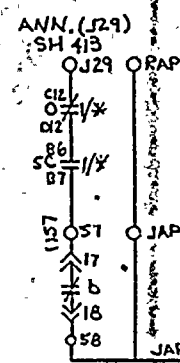


THIS DWG. SUPERSEDES WESTINGHOUSE DWG. 413B425 SR25

REV	DATE	BY	SCALE	APPROVED	FOLDER NO.	JOB NO.
ORIGINAL	J. H. Rm	9.8.8	1/16"			
ROCHESTER GAS & ELECTRIC CORP.	ROCHESTER, NEW YORK	ENGINEERING	DEPT			
No. JQ905-25						

ROBERT EMMETT GINNA NUCLEAR
POWER STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
4.16 KV BUS SUPPLY BKR 12A





NOTES:
X-1453 OR 1655
✓X-SEE DEV SIIIX, FIGURE 1, DETAILA
SIIIX CSTIIX] DWG 1110ECS9 SK 3

480 Y. EKR. 52/14 (1L)
CLOSE SH. NO. 65 (LL)

420 Y. EKR. 52/4 (16)
TRIP SH. NO 65 (16)

SPARE 5

TO UN. 14 (18)
SH. 29

[illegible]

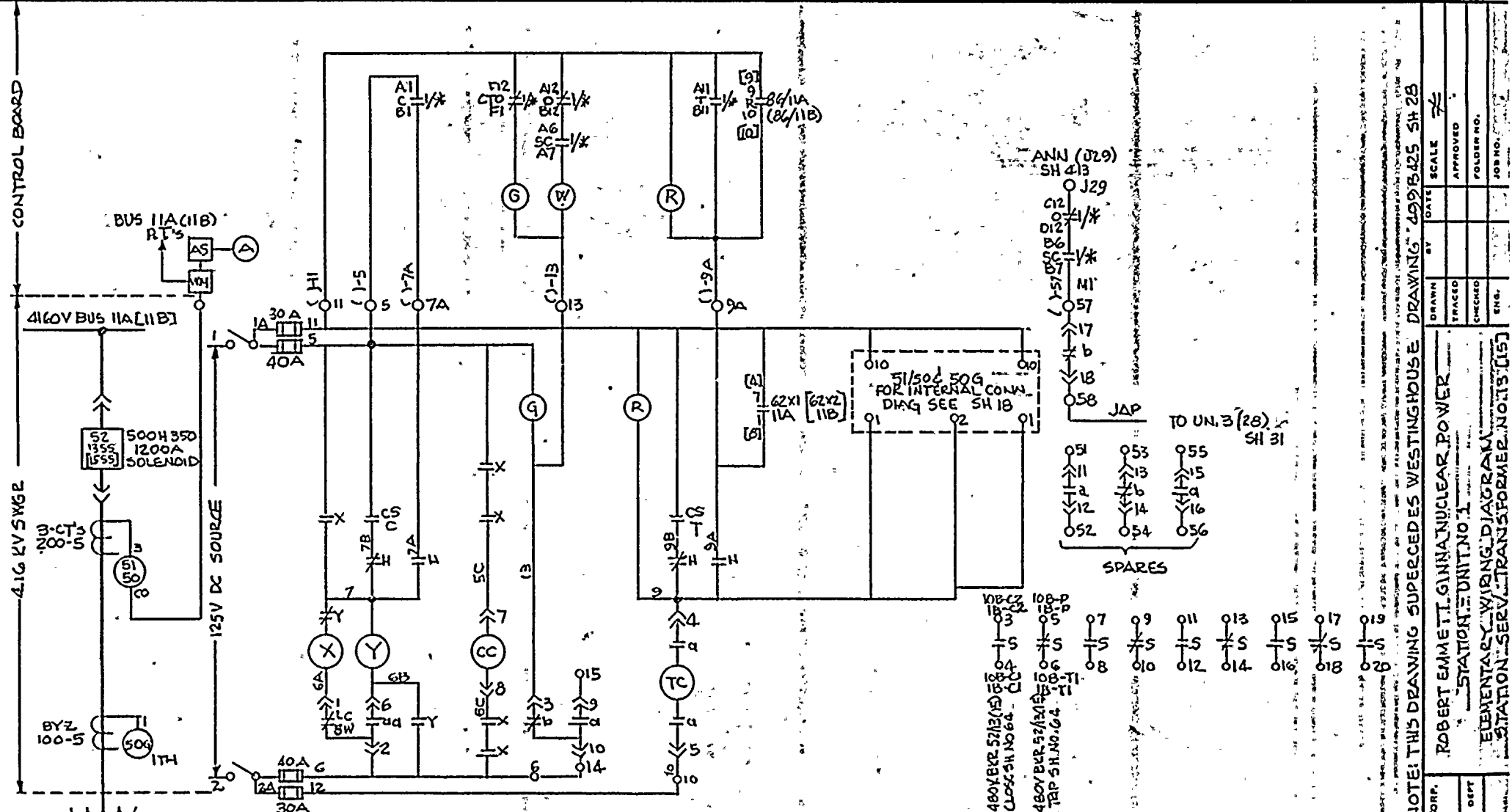
ROBERT EMMETT GINNA, NUCLEAR
STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
STA. SERV. TRANSE. NO. 145 (NO. 767)

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT.

NO. 10905-27

No. 10905-27



STA SERV. TRANS. NO. 13-UNIT NO. 1
(STA SERV. TRANS. NO. 15-UNIT NO. 30)

NOTES:
1. 1355 OR 1565
2. SEE DEV. SH 10, FIG. 1, DETAIL "A"

REV.						
ORIGINAL	1/1/76	Rnw	RPA.	DEL.	4/1/76	
	DRAWN BY	CHK'D	RESP ENGR.	ENGR MGR.	DATE	

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING
NO. 1009.5-28

DEPT
STATION: UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
STATION SERV. TRANSFORMER NO. 13 (15)

NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING 499B425 SH 2B
ROBERT EMMETT GINN NUCLEAR POWER

DRAWN BY
CHECKED
DATE
SCALE
APPROVED
FOLDER NO.
JOB NO.



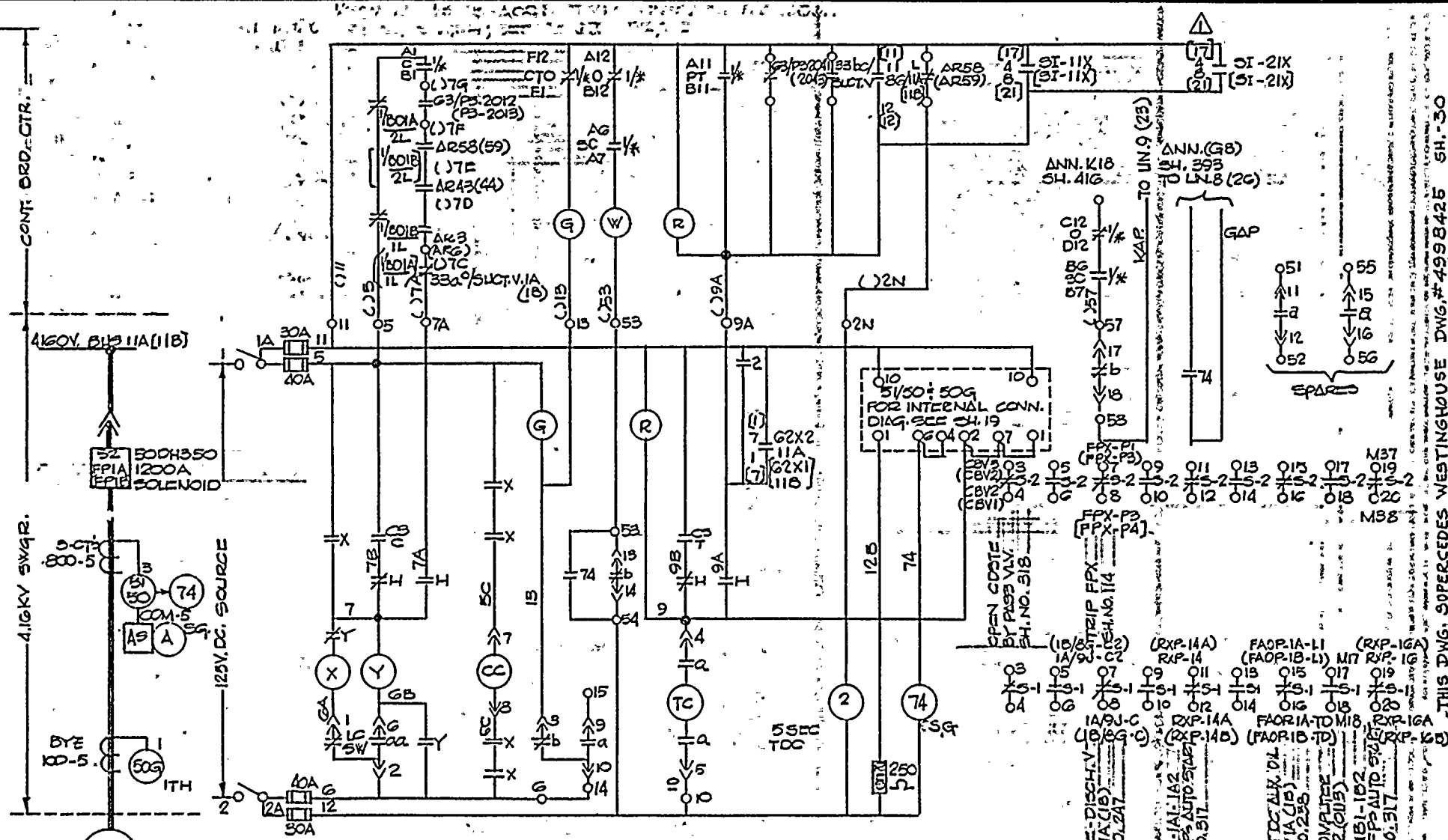
NOTED:
*-1793 OR 1855
1/4 SEE DEV SH 10, FIGURE 1, DETAIL A
SI 24 X (SI 14 X) DWG 110.ED.57 SH-3

480Y. EKR. 52/17 (18)
TEMP CH. NO. 67 (68)

ENGINEERING
No. 10905-29

UN. (17)
3427
129 REV 8
CLEAR PR
ASEAM
NO 17

JOE NO.

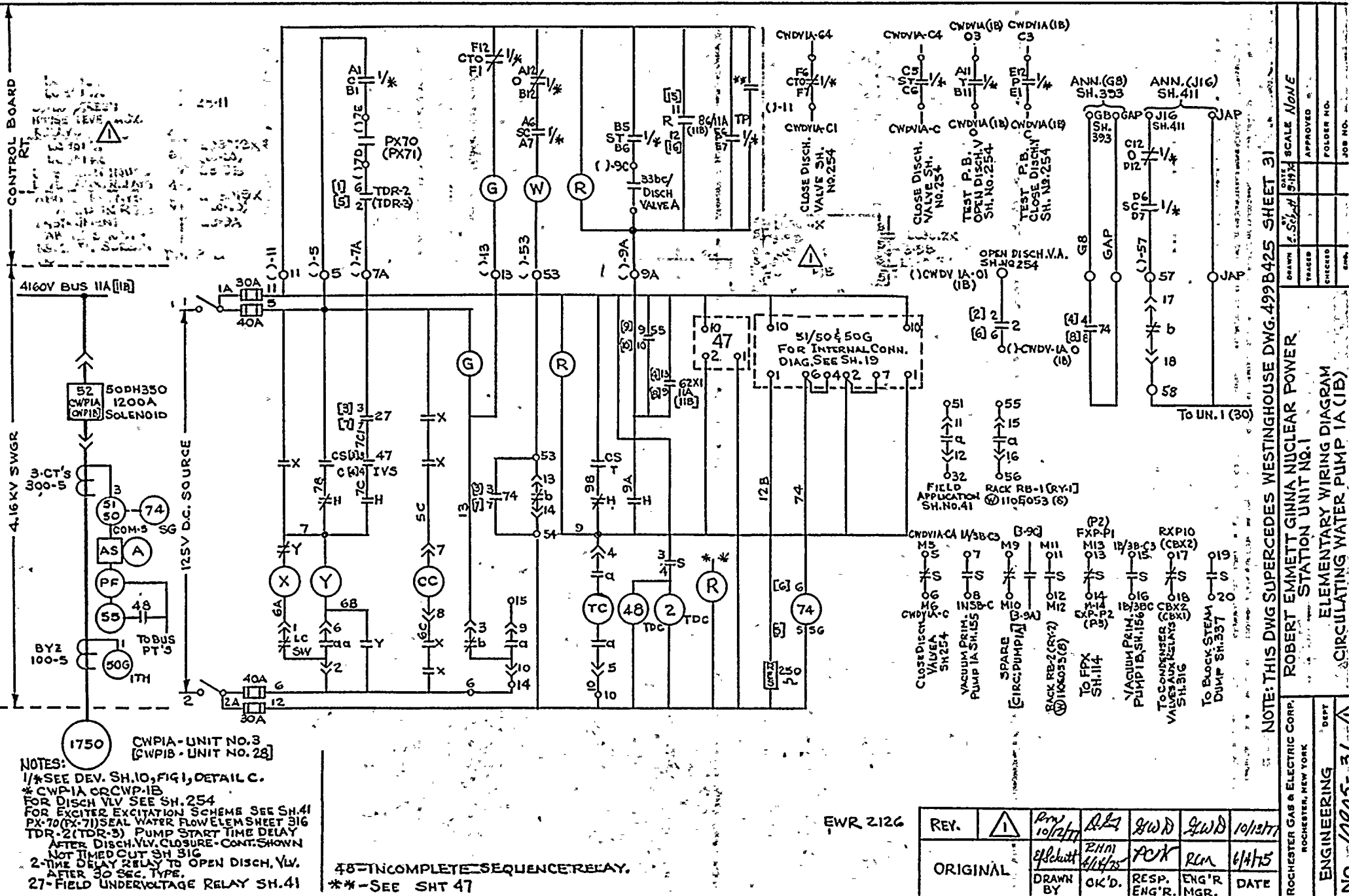


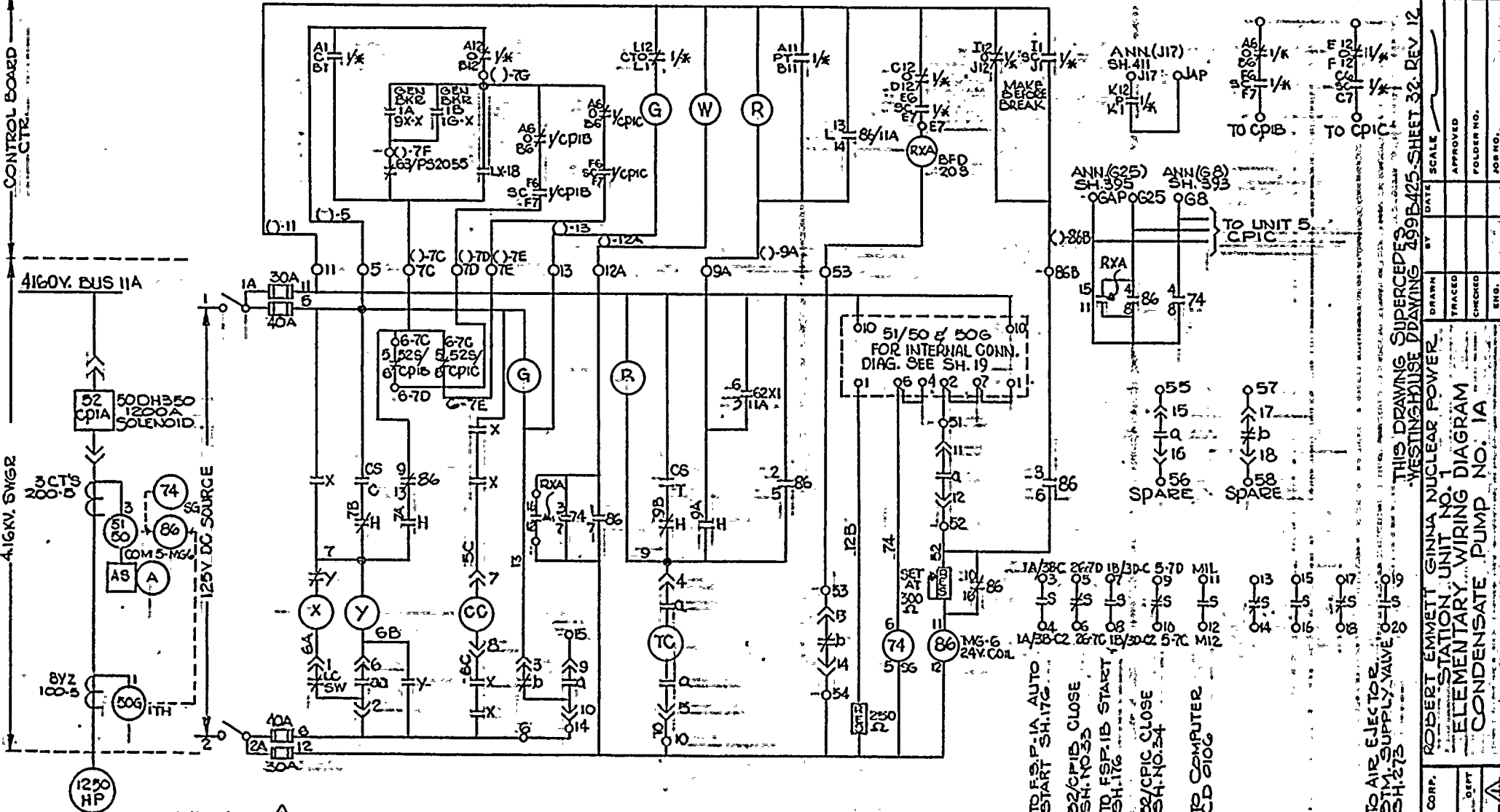
NOTES:
* - FPIA OR FPIB
V* SEE DEV. SH.10, FIG.1, DET. C
AR43(44) AUX. RELAY OPER. BY
PRESS. SW. IN PUMP SUCT LINE
CLOSES ON PRESS. INC. SH.317
63/PS 2012 (2013) PRESS. SW. IN
BRG. OIL LINE CLOSES ON
PRESS. INC.

63/PS 2041 (2043) PRESS. SW. IN BRG. OIL
LINE CLOSES ON PRESS. DEC.
AR5B (59) SEAL WATER AUX. RELAY
SH. 318
AR3(6) RECIRC. VALVE AUX. RELAY
(CONTACTS CLOSE WHEN VALVE
FULL OPEN) SH.266
SI-11X, SI-21X DWG. 110E059 SH.3
2-5 SEC. TIME DELAY CLOSING
LOCATED ON SWGR.
1/BDIA AND 1/BDIB - AORB STEAM
GENERATING BLOWDOWN
DEFIAT SW.; SEE DEV. J.J.
SH. 12

REV.	DATE	BY	CHKD	APPD	DATE
1	7/6/76	D.H.	Rm	RPA	9/21/76
2	7/9/76	D.H.	Rm	RPA	9/21/76
3	7/9/76	D.H.	Rm	RPA	9/21/76
4	7/9/76	D.H.	Rm	RPA	9/21/76
5	7/9/76	D.H.	Rm	RPA	9/21/76
6	7/9/76	D.H.	Rm	RPA	9/21/76
7	7/9/76	D.H.	Rm	RPA	9/21/76
8	7/9/76	D.H.	Rm	RPA	9/21/76
9	7/9/76	D.H.	Rm	RPA	9/21/76
10	7/9/76	D.H.	Rm	RPA	9/21/76

ROBERT EMMETT GINNA NUCLEAR POWER STATION		SCALE		APPROVED	
UNIT NO. 1		DATE		FOLDER NO.	
ELEMENTARY WIRING DIA.		TRACED		JOB NO.	
STEAM GEN. FEEDWATER PUMP. 1A (1B)		CHECKED		JOB NO.	
No. 10905-30		CNGR		DATE	
ROCHESTER GAS & ELECTRIC CORP.		ROCHESTER, NEW YORK		DATE	





- NOTES:
- (1) *-CP1A
 - (2) 1/*-SEE DEV SH 11, FIGURE 1, DETAIL A
 - (3) LX-18-AUX. RELAY OF LEV SWLS 2018(SH.317), LOCATED ON RELAY RACK RA-2 FRONT
 - (4) 63/PS2055- CDSTE. PUMP DISCH. LINE
 - (5) RXA- LOCATED ON RELAY RACK, RA-1 FRONT

- (6) 9X-X-AUX. RELAY OF #115 KV. BKR 9X/1372
 - (7) 1G-X-AUX. RELAY OF #115 KV BKR 1G/1372
- LOCATED ON RELAY RACK RA-1 FRONT

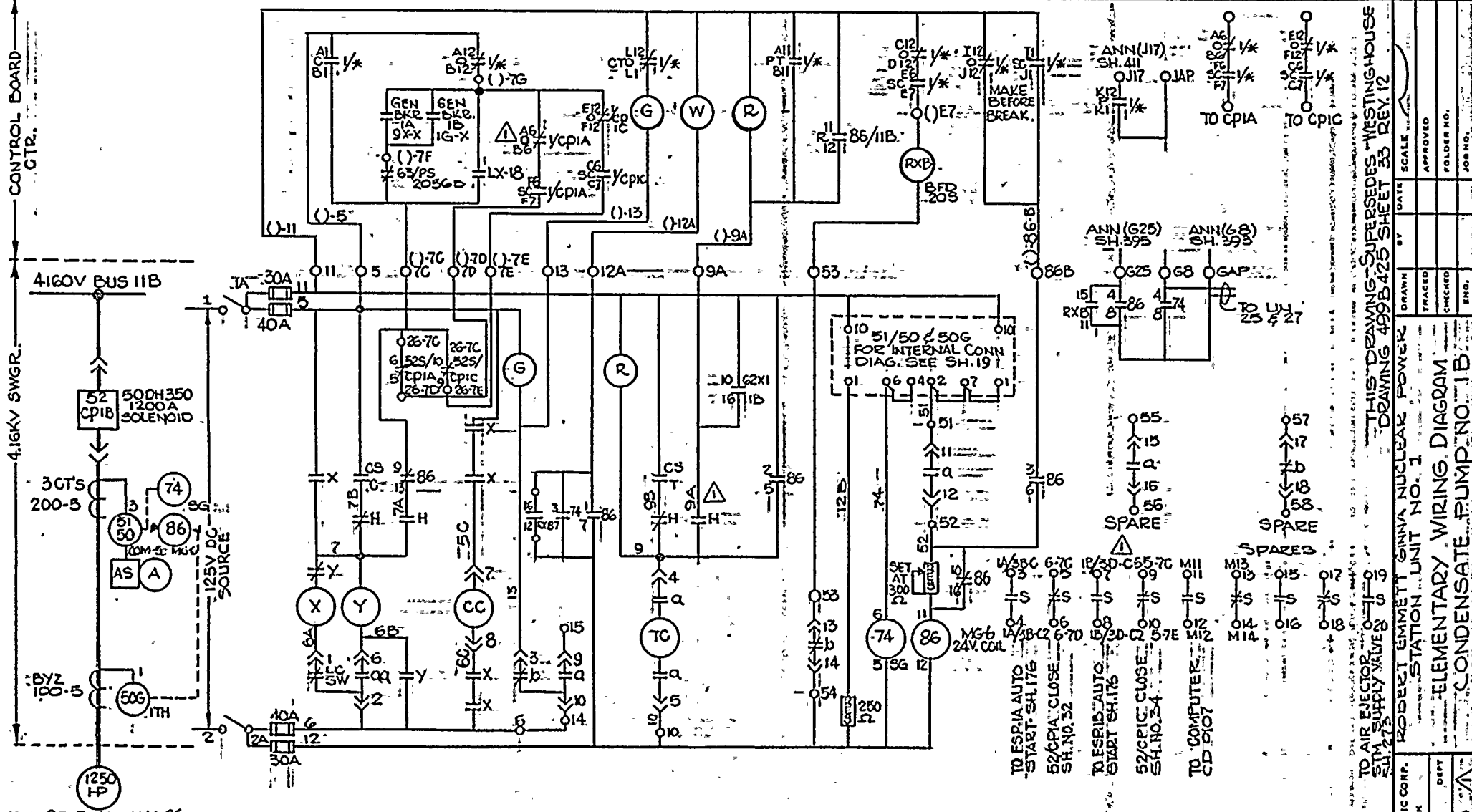
Rev.	1	Rev.	1	Rev.	1	Rev.	1	Rev.	1
Original	AS	drawn by	ck'd	resp. eng'r	eng'r man'l	date	7/6/76	4/1/76	

THIS DRAWING SUPERCEDES DRAWING 299B425-SHEET 32-REV 12
-YESINGHOUSE DRAWING

TO AIR EJECTOR
SYM. SUPPLY VALVE
SH. 275


ROBERT EMETT GINNA NUCLEAR POWER
STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
CONDENSATE PUMP NO. 1A

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING DEPT
No. 10905-32-A



NOTE:

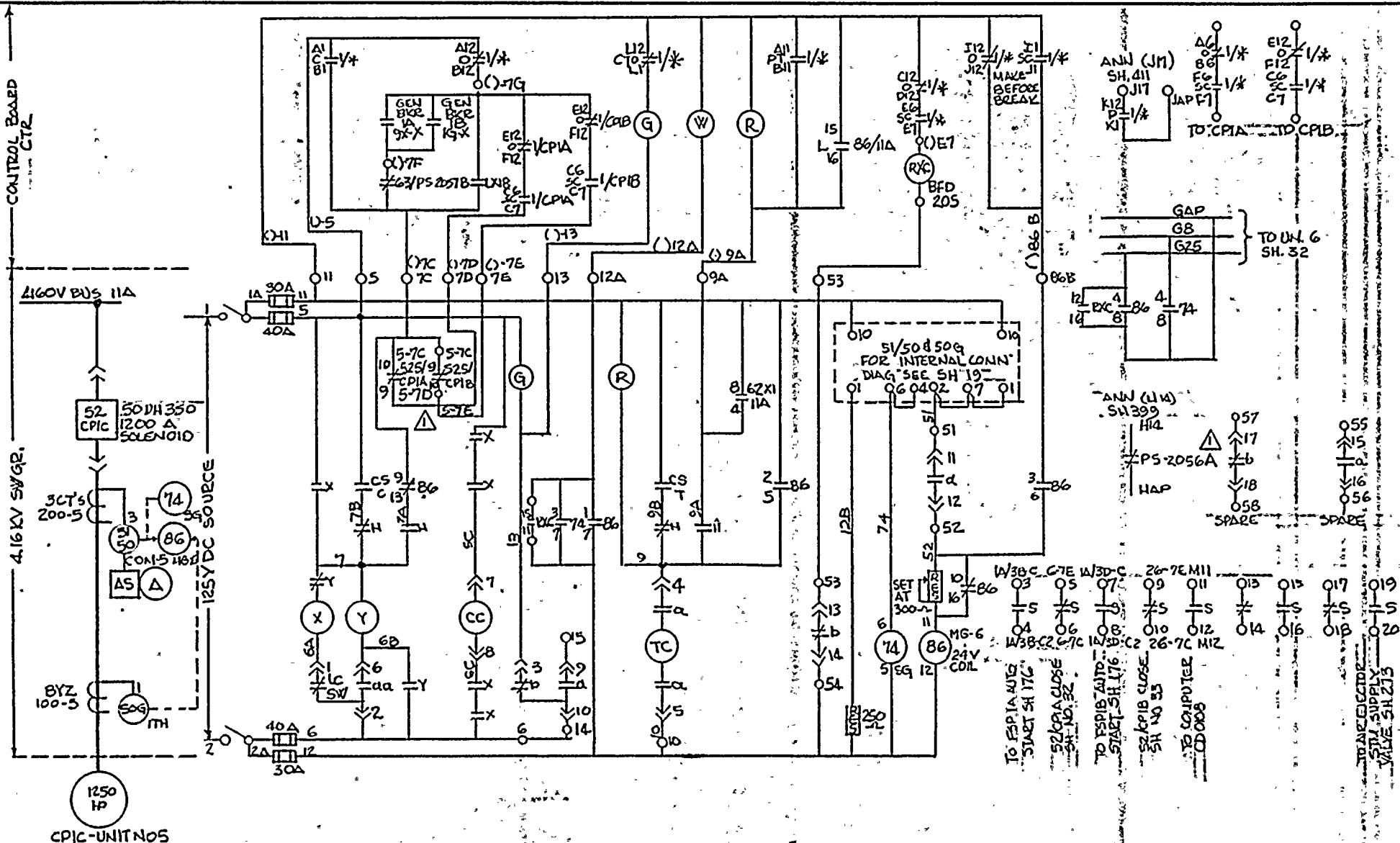
- (1) - CPID
 (2) - 1/4 - SEE DEV. SH. II, FIGURE 1, DETAIL A
 (3) - LX-18-AUX. RELAY OF LEV SW. 2018(SH.317), LOCATED
 ON RELAY RACK- RA-2 FRONT
 (4) - G3/PS 2056BCDSTE. PUMP DISCH. LINE
 (5) - RXD - LOCATED ON RELAY RACK- RA-1 FRONT
 (6) - 9X-X-AUX. RELAY OF 115KV BKR. 9X/1372, LOCATED ON RELAY RACK RA-1 FRONT
 (7) - 1G-X- AUX. RELAY OF 115KV BKR. 1G/1372

Rev.		Rev 7/6/76	Def 7-9-76	Rev 7-12-76	Q&I	7/26/76
Original		AS _M	Rev	RFA	Q&I	4/1/76
		drawn by	ck'd.	resp. eng' r mon' r	eng' r mon' r	date

THIS DRAWING SUPERSEDES WESTINGHOUSE
DRAWING 499B425 SHEET 33 REV. 12

ROCHESTER GAS & ELECTRIC CO., ROCHESTER, NEW YORK		ROBERT EMMETT GINNA NUCLEAR POWER STATION, UNIT NO. 1		DATE		SCALE	
ENGINEERING		ELEMENTARY WIRING DIAGRAM		BY		APPROVED	
No. 10905-33		CONDENSATE PUMP NO. 1B		DRAWN		FOLDER NO.	
				TRACED		JOB NO.	
				CHECKED			
				ENG.			

CONTROL BOARD
CTR



NOTES:

- *-CPIC
- SEE DEV SH 11, FIG. T, DETAIL A
- LY-1B-AUX. RELAY OF 12V. SW. 2018 (SH 317) LOCATED ON RELAY RACK RA-2 FRONT
- 63/PS 2055-CD3TE, PUMP DISCH. LINE
- RXC-LOCATED ON RELAY RACK RA-1 REAR
- 9X-X-AUX RELAY OF 115 KV BKR. 9X/1372 LOCATED ON RELAY RACK RA-1 FRONT
- 1G-X-AUX RELAY OF 115 KV BKR 1G/1372

NOTE: THIS DRAWING SUPERCEDES WESTING HOUSE DRAWING NO. 495 B 425 SH 34

REV	DATE	BY	CHKD	APPD	DATE
ORIGINAL	7-7-76	7-7-76	7-7-76	7-7-76	7-7-76
	7-7-76	7-7-76	7-7-76	7-7-76	7-7-76
	7-7-76	7-7-76	7-7-76	7-7-76	7-7-76
	7-7-76	7-7-76	7-7-76	7-7-76	7-7-76
	7-7-76	7-7-76	7-7-76	7-7-76	7-7-76

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

NO. 10095-34

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
CONDENSATE PUMP NO. 1C

SCALE 1/4" = 1"

APPROVED

FOLDER NO.

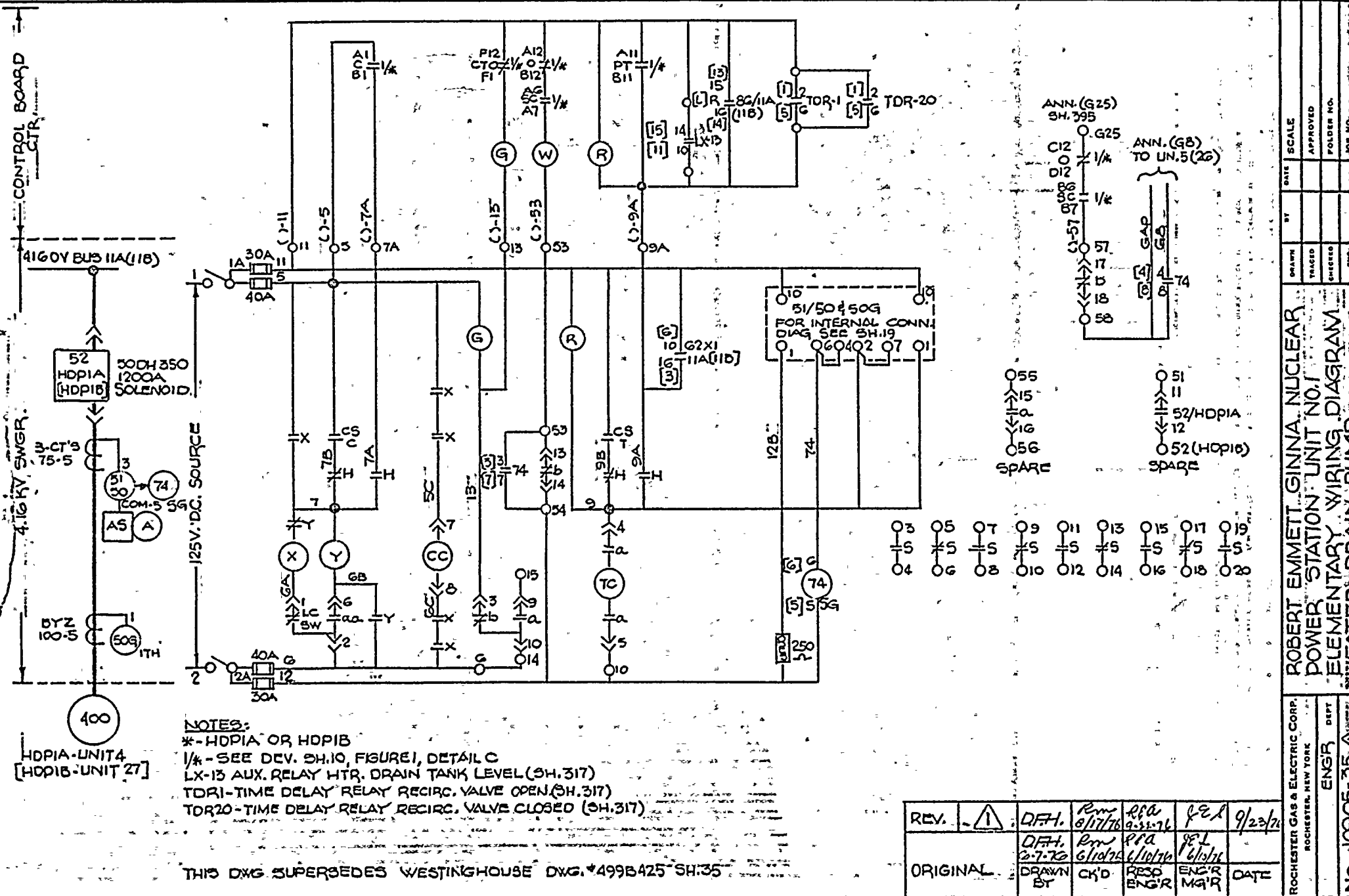
JOB NO.

DRAWN

TRACED

CHECKED

ENG.



ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GINNA, NUCLEAR
POWER STATION, UNIT NO. 1
ELEMENTARY WIRING DIAGRAM.

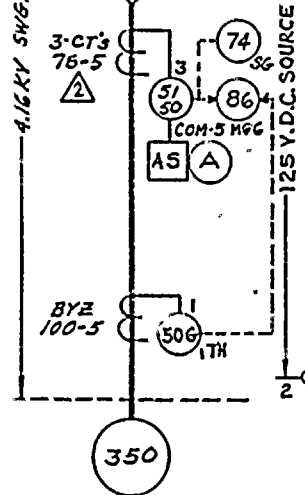
DATE	BY	SCALE
		APPROVED
		FOLDER NO.
		DATE NO.

4.16 KV SWGR.

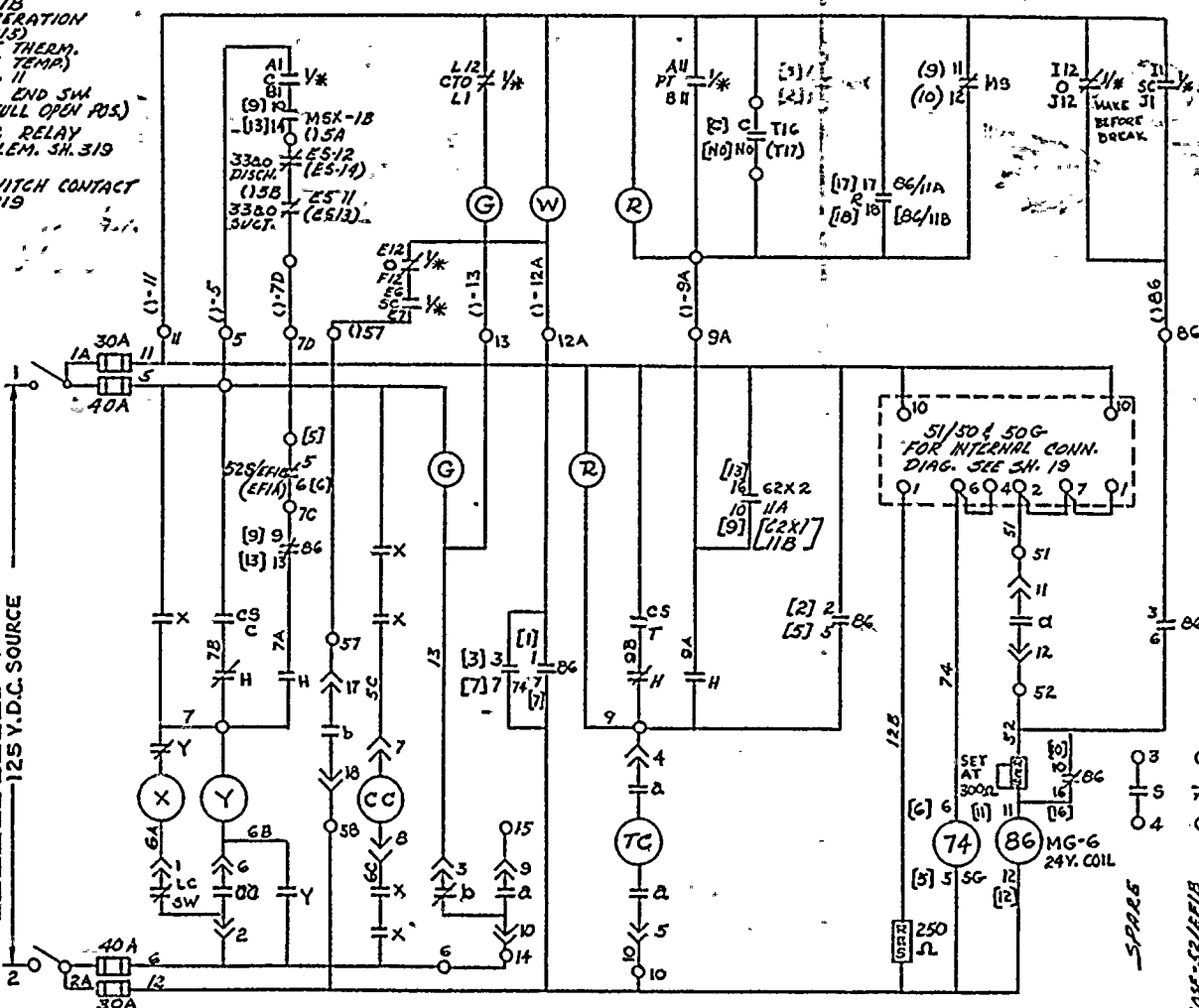
AUX. BLDG. VENT. CONTROL PUL.

NOTES:
 * - EFIA OR EFIB FOR NRAX OPERATION SEE SH. NO. 312
 T16 (17) FIRE PROT. THERM. (CLOSES ON HI TEMP.)
 V* SEE DEV. SH. 11
 ES-3340-DAMPER END SW (CLOSED AT FULL OPEN POS.)
 MSX-1B-MASTER RELAY CONTACT ELEM. SH. 319
 MS-MASTER SWITCH CONTACT ELEM. SH. 319

416 OV. BUS 11A (11B)



EFIA-UNIT No. 9
 [EFIB-UNIT No. 23]



ABV-P16 (ABV-P13)

ARTS (ARTS) DAMPER FAILURE TO SH 319

AUX. BLDG. VENT. SYSTEM ALARM SH. 319

LAP

AG 1/2
 BG 1/2
 FG 1/2
 SC 1/2
 F7 1/2

53 13
 14
 54

[4] 4
 [8] 8
 [4] 4

74

51 50
 52 51
 53 52
 54 53
 55 54
 56 55

SPARE

TO DAMPER SOLENOID SH. 299

23-7D (9-7D)
 05 07
 06 08
 23-7C (9-7C)
 01 03
 02 04
 05 06
 07 08
 09 10
 11 12
 13 14
 15 16
 17 18
 19 20

SPARE

250 2L

MG-6 24V. COIL

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

REV.	7/6/76	DFH	7-9-76	K10	7-12-76	7-21-76	7/24/76
REV.	4/21/76	RFG	4/21/76	RFG	4/21/76	4/21/76	4/21/76
ORIGINAL	N.J.A.	RHM	4/14/76	PCX	PCX	PCX	4/14/76
DRAWN BY	CK'D.	RESP. ENGR.	ENG'R. MGR.	DATE			

ROCHESTER GAS & ELECTRIC CORP.
 ROCHESTER, NEW YORK

ENGINEERING

DEPT

NO. 10905-36-1A

DATE

SCALE

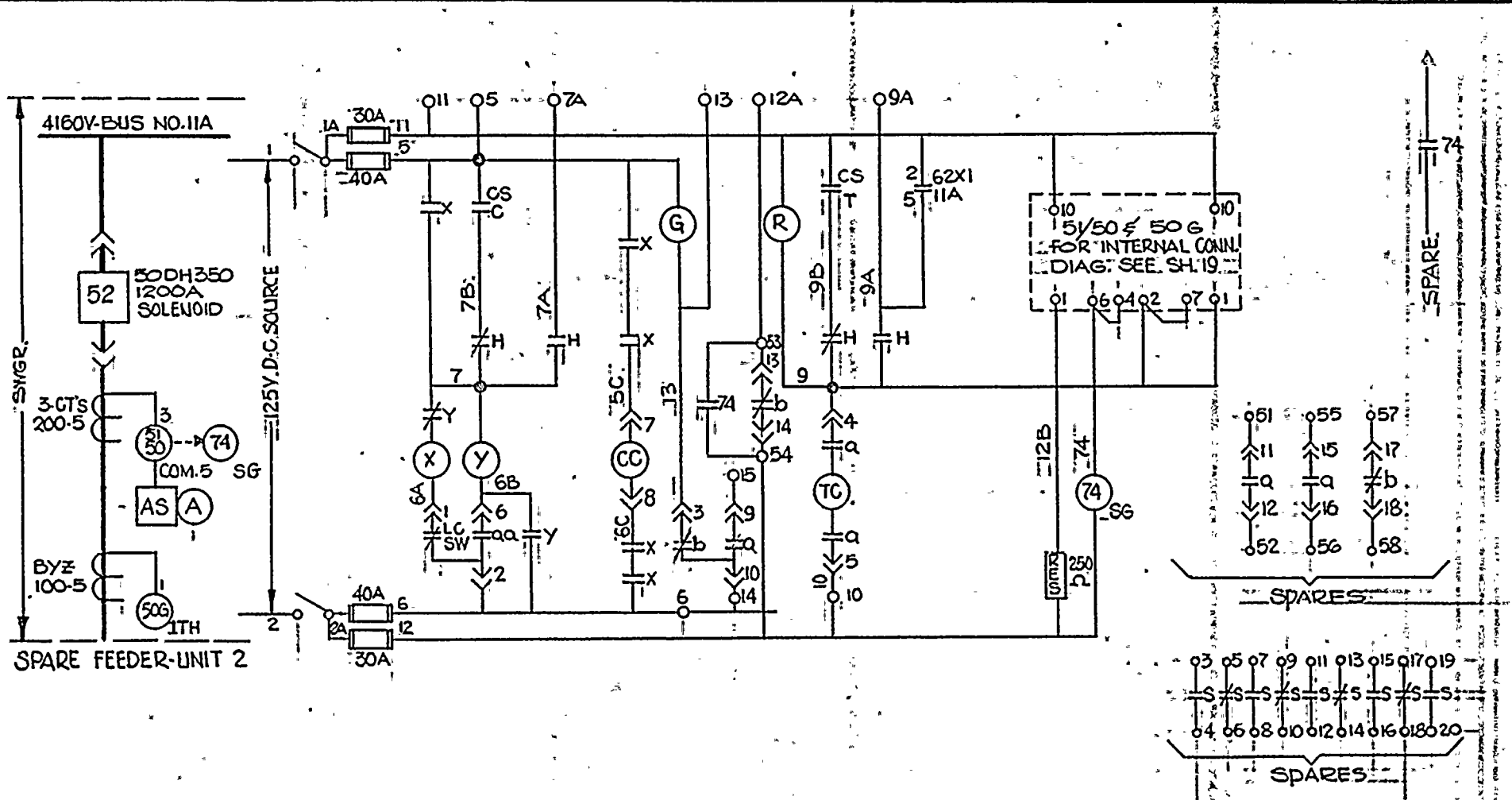
APPROVED

FOLDER NO.

JOB NO.

THIS JOB SUPERSEDES WASHINGTON HOUSE 4778425 SH. 36 (REV. 18)

ROBERT EMMETT GANN NUCLEAR POWER STATION UNIT I ELEMENTARY WIRING DIAGRAM AUX. BLDG. EXHAUST FAN NO. 1A (1B)

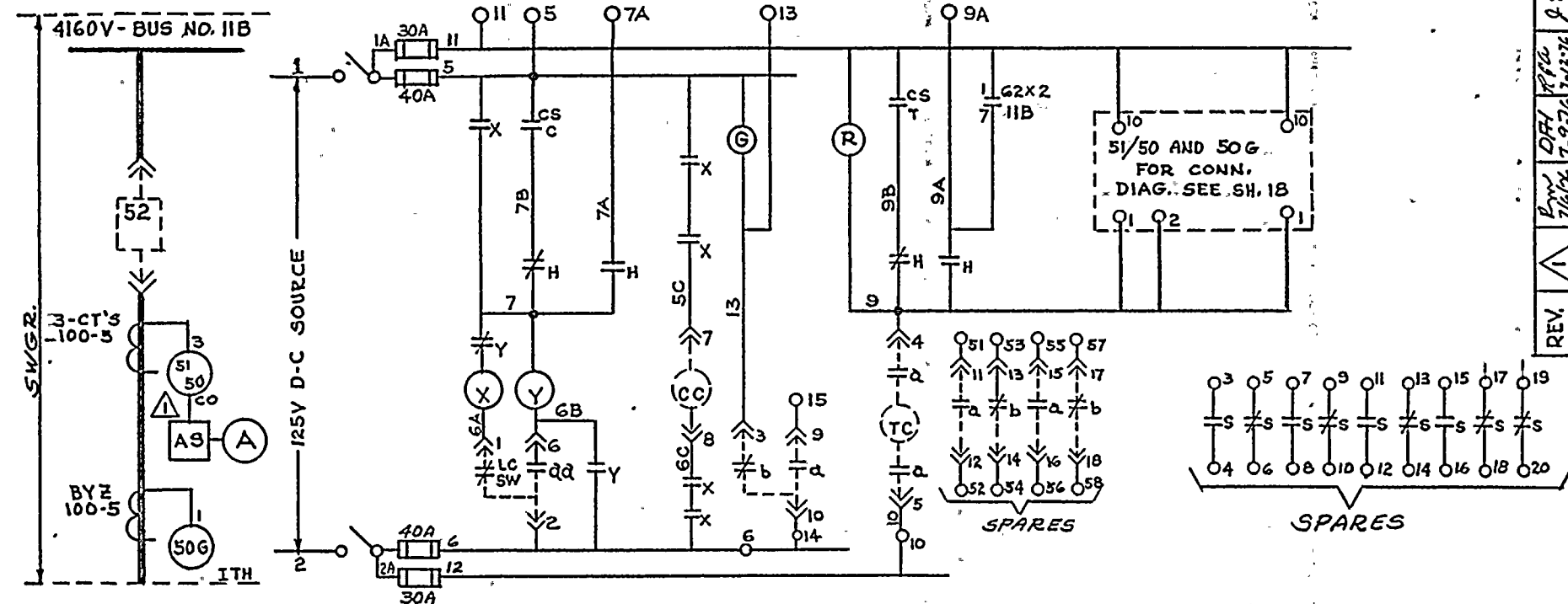


THIS DRAWING SUPERSEDES WESTINGHOUSE
DRAWING 499B423 SHEET 38 REVISION 4.

REV.					
Original	drawn by	ck'd	resp. eng't	eng't. mahr	date
	g.m.	p.m.	R.F.A.	g.e.l.	4/1/76

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK		ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1	
ENGINEERING	DEPT	DATE	SCALE
No. 10905-38		APPROVED	FOLDER NO.
		CHECKED	JOB NO.
		ENG.	

ELEMENTARY WIRING DIAGRAM
SPARE FEEDER BUS IIA



FUTURE FEEDER-UNIT NO.29

REV.	DATE	BY	CHK'D	ENGR.	DATE
1	7/15/72	RPA	RPA	RPA	7/24/72
2	7/15/72	RPA	RPA	RPA	7/24/72
3	7/15/72	RPA	RPA	RPA	7/24/72
4	7/15/72	RPA	RPA	RPA	7/24/72
5	7/15/72	RPA	RPA	RPA	7/24/72
6	7/15/72	RPA	RPA	RPA	7/24/72
7	7/15/72	RPA	RPA	RPA	7/24/72
8	7/15/72	RPA	RPA	RPA	7/24/72
9	7/15/72	RPA	RPA	RPA	7/24/72
10	7/15/72	RPA	RPA	RPA	7/24/72
11	7/15/72	RPA	RPA	RPA	7/24/72
12	7/15/72	RPA	RPA	RPA	7/24/72
13	7/15/72	RPA	RPA	RPA	7/24/72
14	7/15/72	RPA	RPA	RPA	7/24/72
15	7/15/72	RPA	RPA	RPA	7/24/72
16	7/15/72	RPA	RPA	RPA	7/24/72
17	7/15/72	RPA	RPA	RPA	7/24/72
18	7/15/72	RPA	RPA	RPA	7/24/72
19	7/15/72	RPA	RPA	RPA	7/24/72
20	7/15/72	RPA	RPA	RPA	7/24/72

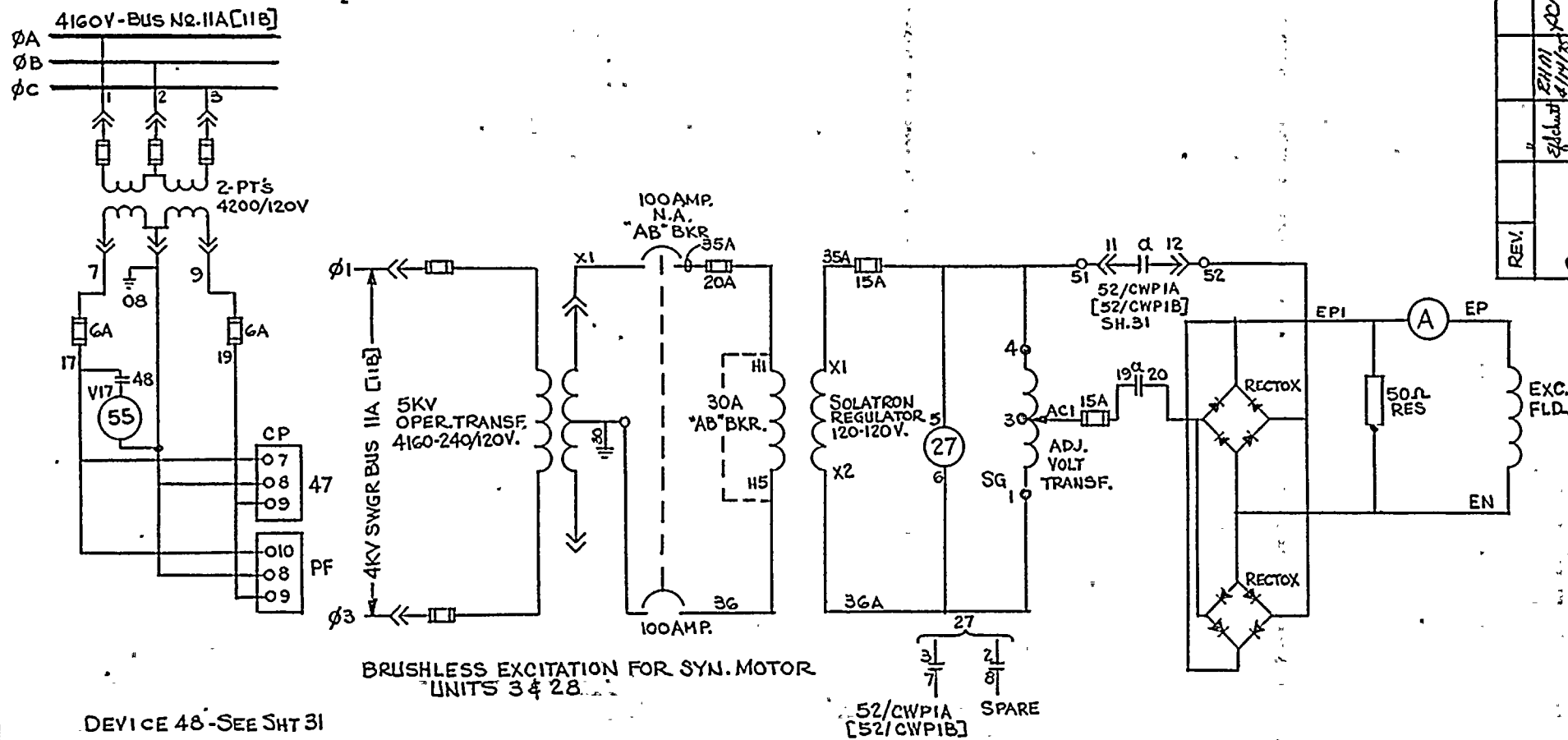
THIS DWG, SUPERCEDES WESTINGHOUSE DWG 499B425, SH. 40

ROBERT EMMETT GINNA NUCLEAR POWER STA. UNIT 1

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

NO. 10005-40



DEVICE 48-SEE SHT 31

REV.	ORIGINAL	DATE	SCALE	APPROVED	FOLDER NO.	JOB NO.
		6/1/75	NONE			
		ENG'D				
		DRWN				
		BY				
		DISC.				
		ENG'R				
		DATE				

THIS DRAWING SUPERCEDES WESTINGHOUSE DWG 4993B 425, SHT. 41, (REV. 4).

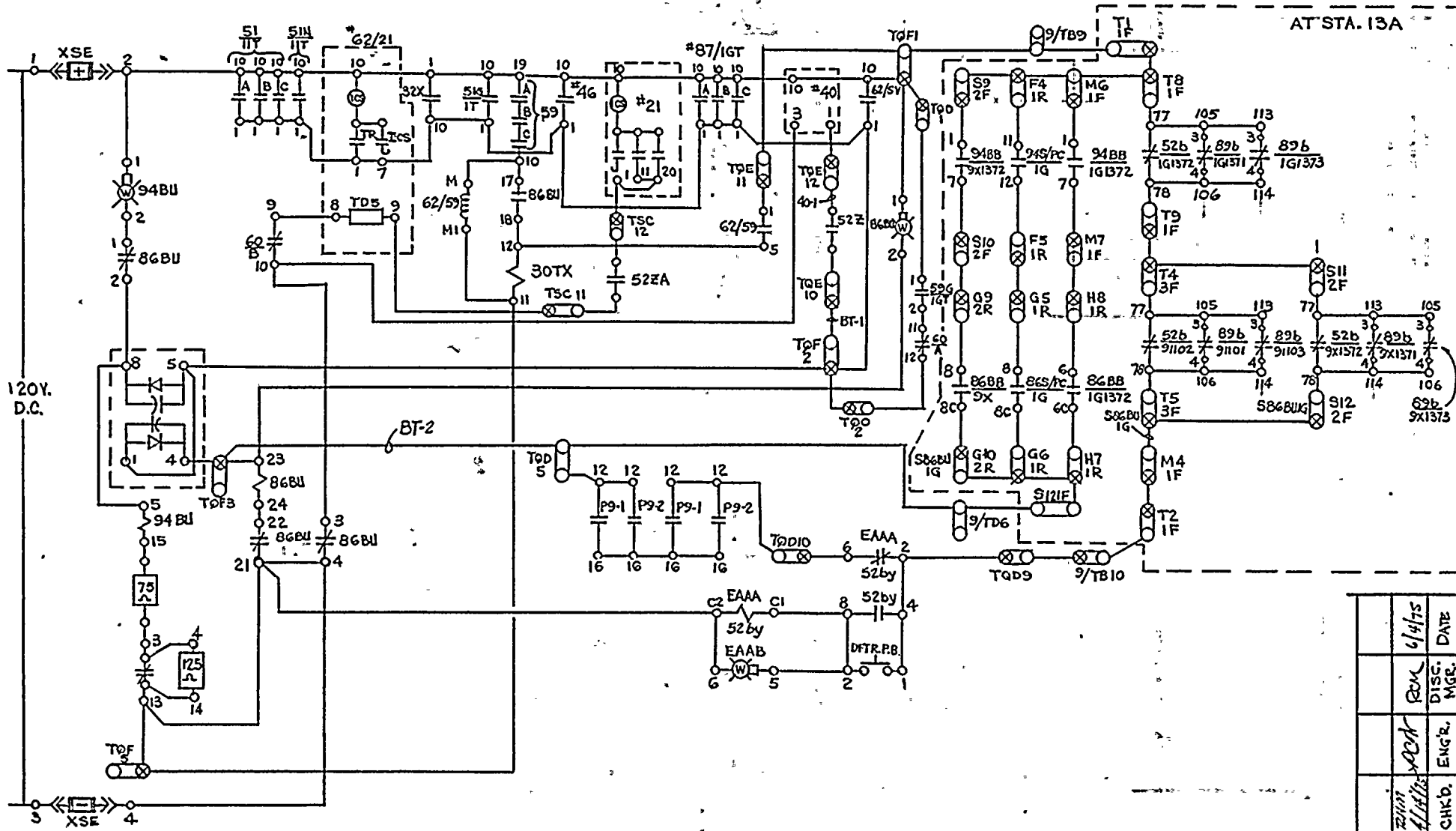
ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING
DEPT

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT N2.1

BRUSHLESS EXCITATION FOR SYN. MTR.

NO WORK - 41



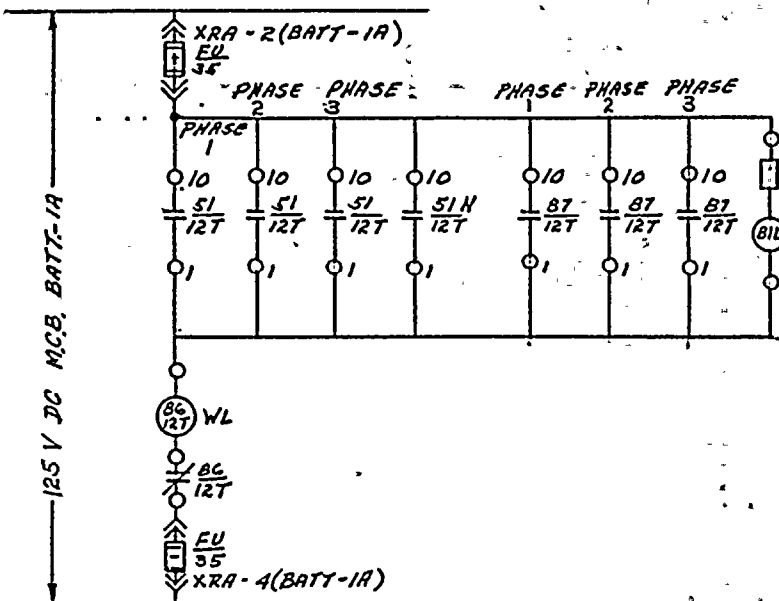
REV.	ORIGINAL	DATE	BY	CHK'D.	ENG'R.	DISC. MGR.	DATE
1	8/8	11/1/75	RM	11/1/75	11/1/75	11/1/75	11/1/75
2	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75
3	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75
4	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75
5	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75
6	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75
7	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75
8	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75
9	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75
10	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75	11/1/75

ROBERT EMMETT GINNA, NUCLEAR POWER
STATION UNIT No. 1
GENERATOR BACKUP LOCKOUT RELAY
POINT TO POINT

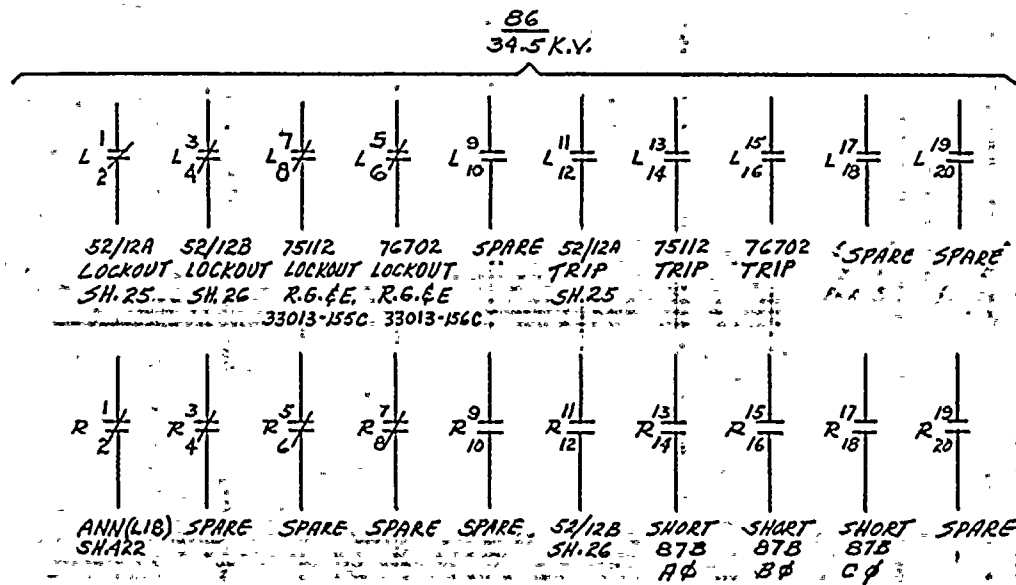
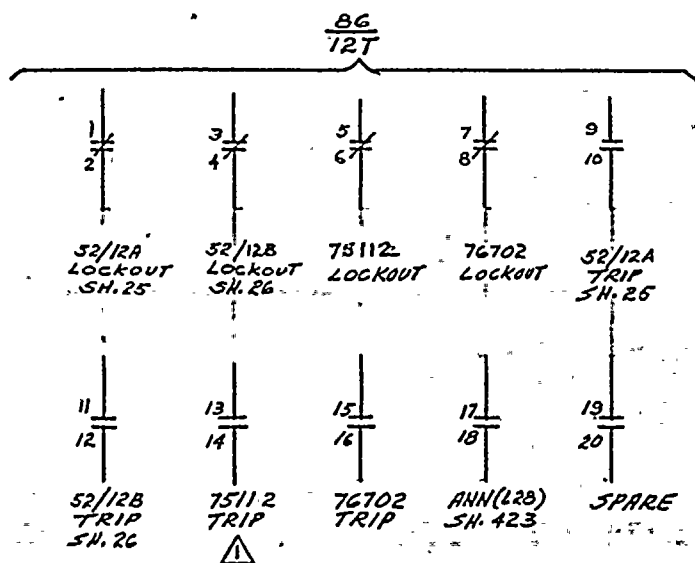
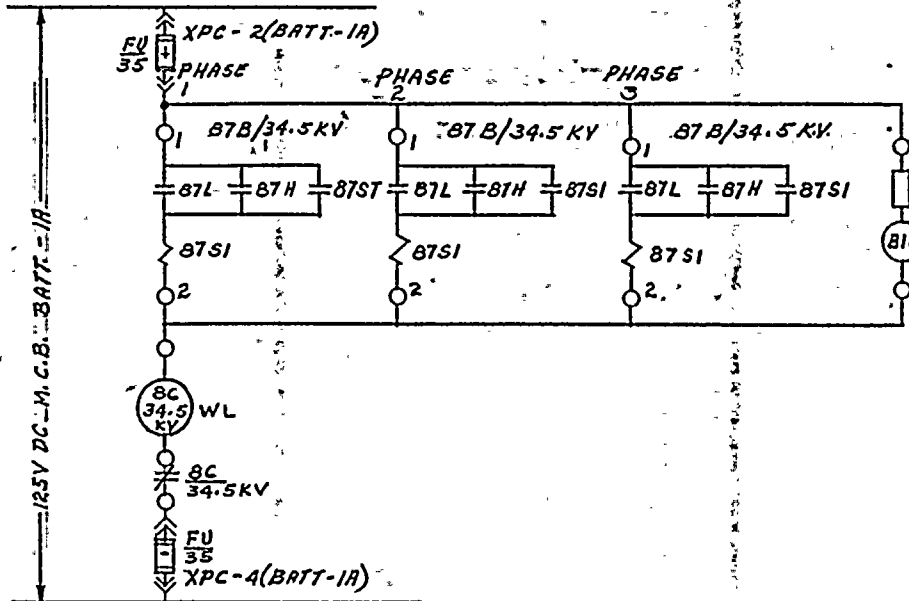
DATE	SCALE	APPROVED	FOLDER NO.	JOB NO.
11/1/75	11/1/75	11/1/75	11/1/75	11/1/75
11/1/75	11/1/75	11/1/75	11/1/75	11/1/75
11/1/75	11/1/75	11/1/75	11/1/75	11/1/75
11/1/75	11/1/75	11/1/75	11/1/75	11/1/75

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING DEPT
NO 10005-12 SUB 2

STATION AUX. TRANS. & DIFFERENTIAL
LOCKOUT RELAY 86/12T




34.5 KV. BUS DIFFERENTIAL
LOCKOUT RELAY 86/34.5 KV.



THIS DWG. SUPERCEDES WESTINGHOUSE DWG. 4998425, SH. 4C

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING 1017

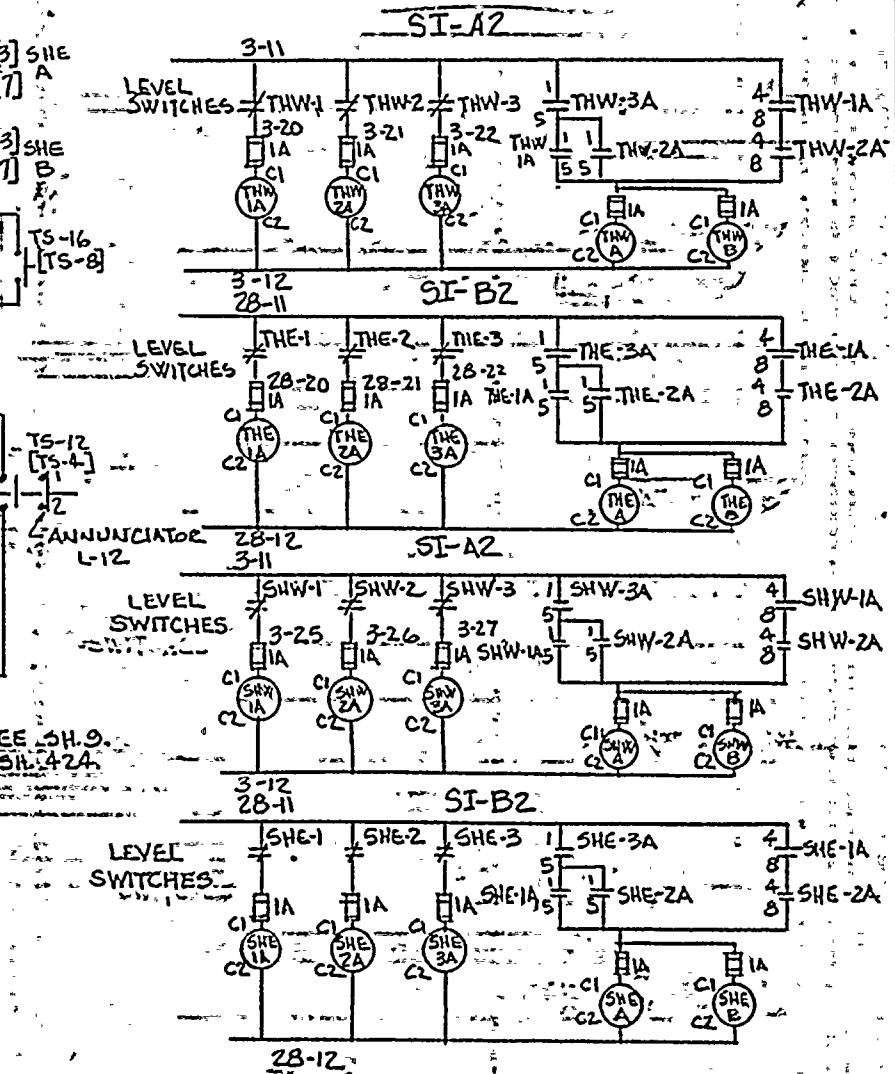
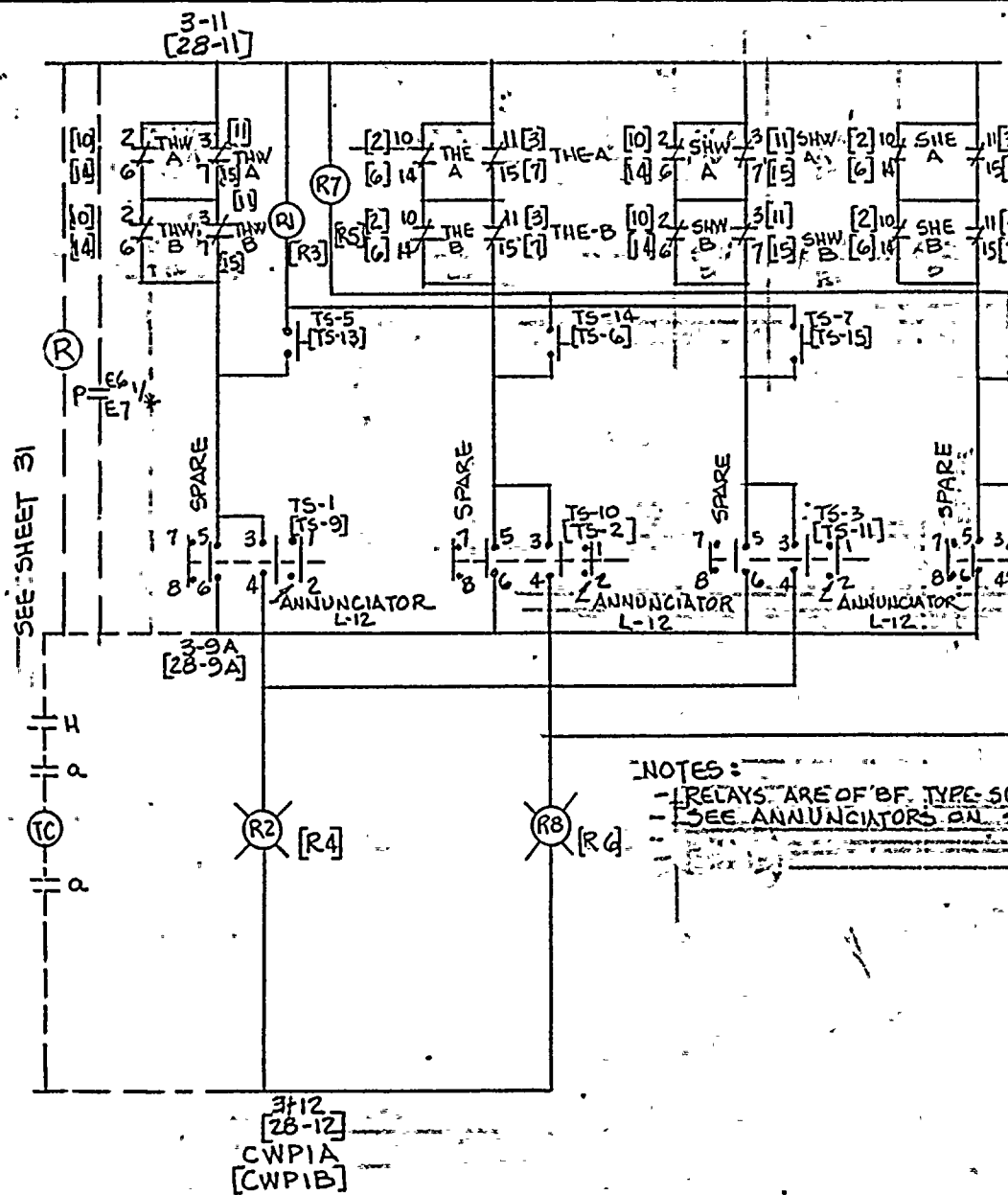
No. 10905 - 46 

ROBERT EMMETT GINNA, NUCLEAR POWER STATION, MILLIT MA!

ENTREPRENEURIAL WIPING DIAGRAM

NO. 12 TRANSF. \pm 34.5 KV. BUS DIFF. L.O. RELAY.

REV.	△	Rm 7/4/60	DFH 7-9-76	TRW 7-11-76	2 Ed	7/26/76
ORIGINAL		J.F.H. Rm	RESP	RFQ.	9.E.A.	4/1/76
		DRAWN BY	CK'D.	ENG.	ENG.	DATE
STATION		DRAWN	N.T.A.	DATE	SCALE	
		TRACED			APPROVED	
		CHECKED			FOLDER NO.	
		ENCL.			JOB NO.	
		A.M. O. RELAY				



REV	1	QJFH	6/6/76	RCA	9/22/76	FEA	9/23/76
ORIGINAL		GJF	6/11/76	RFA	6/11/76	QES	6/2/76
		DRAWN BY	CKD	RESP ENGR	ENGR MGR	DATE	

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B 425 SH.47

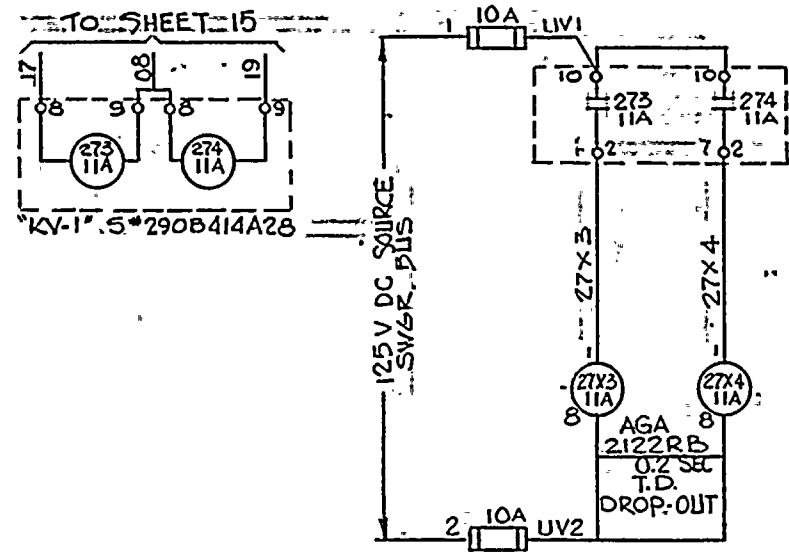
ROBERT EMMETT SINNA NUCLEAR POWER STATION - UNIT NO. 1
ELEMENTARY WIRING DIAGRAM

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

DATE SCALE APPROVED FOLDER NO. JOB NO.

4 KV SWGR. UNIT 10



27X3/11A

RELAY RACK RRI
27X1-11AX
DWG. 110E053
SHEET 8

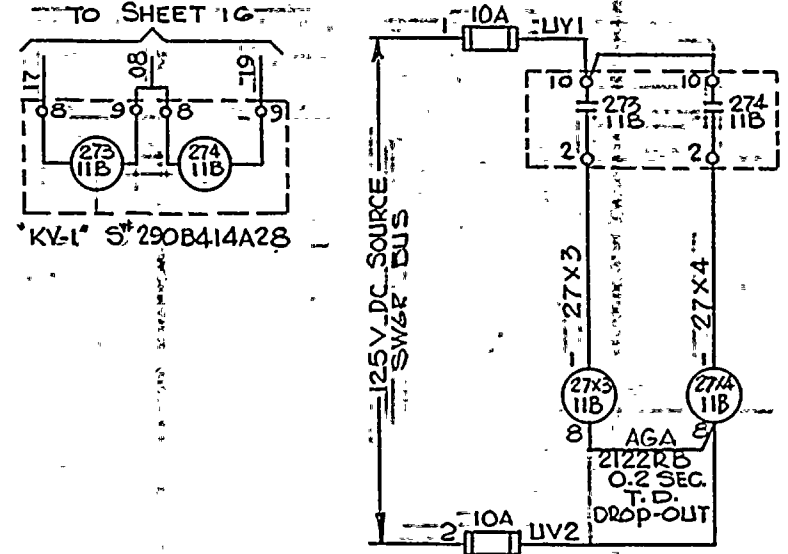
RELAY RACK RR2
27X1-11AX
DWG. 110E053
SHEET 8

27X4/11A

RELAY RACK RBI
27X2-11AX
DWG. 110E053
SHEET 8

RELAY RACK RB2
27X2-11AX
DWG. 110E053
SHEET 8

4 KV SWGR. UNIT 22



27X3/11B

RELAY RACK RW1
27X1-11BX
DWG. 110E053
SHEET 8

RELAY RACK RW2
27X1-11BX
DWG. 110E053
SHEET 8

27X4/11B

RELAY RACK RY1
27X2-11BX
DWG. 110E053
SHEET 8

RELAY RACK RY2
27X2-11BX
DWG. 110E053
SHEET 8

THIS DWG. SUPERCEDES WESTINGHOUSE DWG. 499B 425-SHEET 48

REV	DATE	BY	CHKD	APP'D	DATE
Original	4-27-70	PM	PM	PM	4-27-70
eng	eng	eng	eng	eng	eng

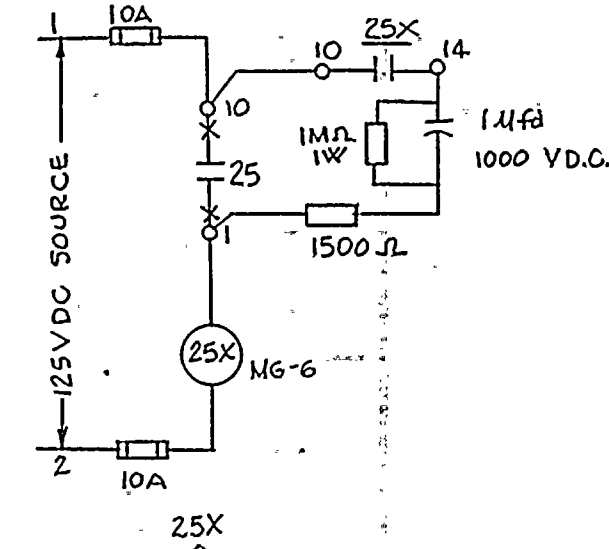
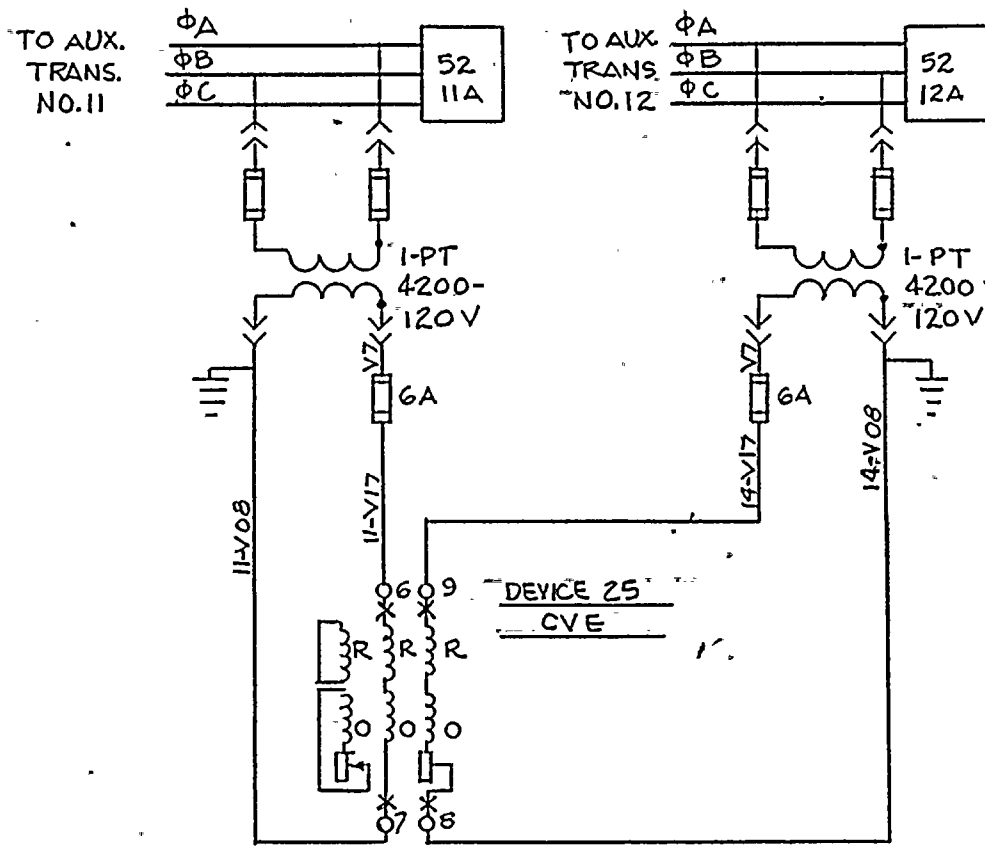
ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING
No. 10905-48

ROBERT EMMETT GINNA NUCLEAR PWR.
STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM

4 KV. BUS UNDER VOLTAGE

DRAWN	BY	DATE	SCALE
TRACED			
CHECKED			
ENG.			
APPROVED			
FOLDER NO.			
JOB NO.			



CLOSE CIRCUIT
52/BTA-A SH-20
CLOSE CIRCUIT
52/BTB-B SH-21
ANN. (JS)
SHEET 407
SPARE
SPARE

25X

1 2 3 4 9
7 5 6 8 13

NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE NO. 499B425 SH.49

REV.						
ORIGINAL	507	600	RFA	RES	4-8-76	DATE
	DRAWN BY	CK'D	RESP ENGR	ENGR MGR		

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

No. 10905-49

ROBERT EMMETT GINNA NUCLEAR
POWER STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
SYNCHRO VERIFIER SCHEME

DRAWN
TRACED
CHECKED
ENG.

DATE
BY
SCALE
APPROVED
FOLDER NO.
JOB NO.

ANN. (L 14)
SHEET- 421

TRIP CKT. 52/14
SHEET- 65

DIESEL GEN. STARTING
ALCO. DWG X664

TRIP CKT. 52/SI PIC2
SHEET- 75

TRIP CKT. 52/BI14-13
SHEET 60

TRIP CKT. 52/SIPIA
SHEET 73

TRIP CKT. 52/CSP1A
SHEET 79

TRIP CKT. 52/CFID
SHEET 95

TRIP CKT. 52/SPARE
SHEET 108

TRIP CKT. 52/FUT.
SHEET 110

TRIP CKT. 52/MAFP1A
SHEET 76

TRIP CKT. 52/RHRPIA
SHEET 78

TRIP CKT. 52/PHCG
SHEET 89

TRIP CKT. 52/BAFPC
GAT DWG. B-281-122 REV. 1

TRIP CKT. 52/CCPIA
SHEET 72

TRIP CKT. 52/CHPIA
SHEET 71

TRIP CKT. 52/CFIA
SHEET 94

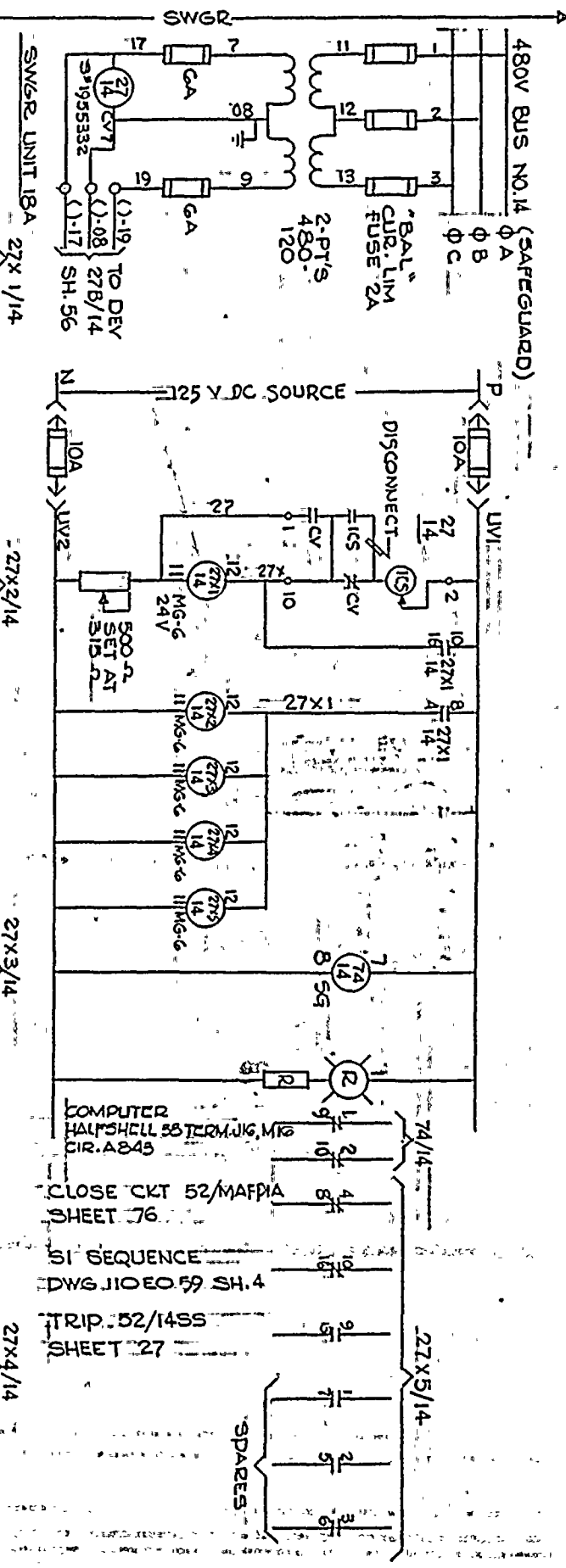
TRIP CKT. 52/SPARE
SHEET-109

TRIP CKT. 52/FUT.
SHEET-110

CLOSE CKT. 52/BI 16-14
SHEET 62

TRIP CKT. 52/BI 16-14
SHEET 62

TRIP CKT. 52/18
W/ MASTER SI SIGNAL
SHEET 68



REV.	3	2	1
DESIGN	DESIGN	DESIGN	DESIGN
DATE	DATE	DATE	DATE
BY	BY	BY	BY
CHKD.	CHKD.	CHKD.	CHKD.
ENG. R.	ENG. R.	ENG. R.	ENG. R.
DISC.	DISC.	DISC.	DISC.
DATE	DATE	DATE	DATE

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING DEPT
No. 10905-52

ROBERT EMMETT GINNA NUCLEAR POWER STATION
UNIT NO. 1
UNDervOLTAGE SCHEME BUS 14

SCALE
APPROVED
FOLDER NO.
JOB NO.

ANN. (L7)
SHEET- 421

TRIP CKT. 52/16
SHEET 66

DIESEL GEN. STARTING
ALCO DWG X564

TRIP CKT. 52/SIPB
SHEET 73

TRIP CKT. 52/BTIG-15
SHEET 61

TRIP CKT. 52/BTIG-14
SHEET 62

TRIP CKT. 52/SIPIC
SHEET 74

TRIP CKT. 52/CSPB
SHEET 79

TRIP CKT. 52/CFIB
SHEET 95

TRIP CKT. 52/CHIC
SHEET 94

TRIP CKT. 52/FUT
SHEET 110

TRIP CKT. 52/MAFPB
SHEET 77

TRIP CKT. 52/RHRPB
SHEET 78

TRIP CKT. 52/CHRPB
SHEET 71

TRIP CKT. 52/CHPIC
SHEET 71

TRIP CKT. 52/PHBG
SHEET 90

TRIP CKT. 52/CCPB
SHEET 72

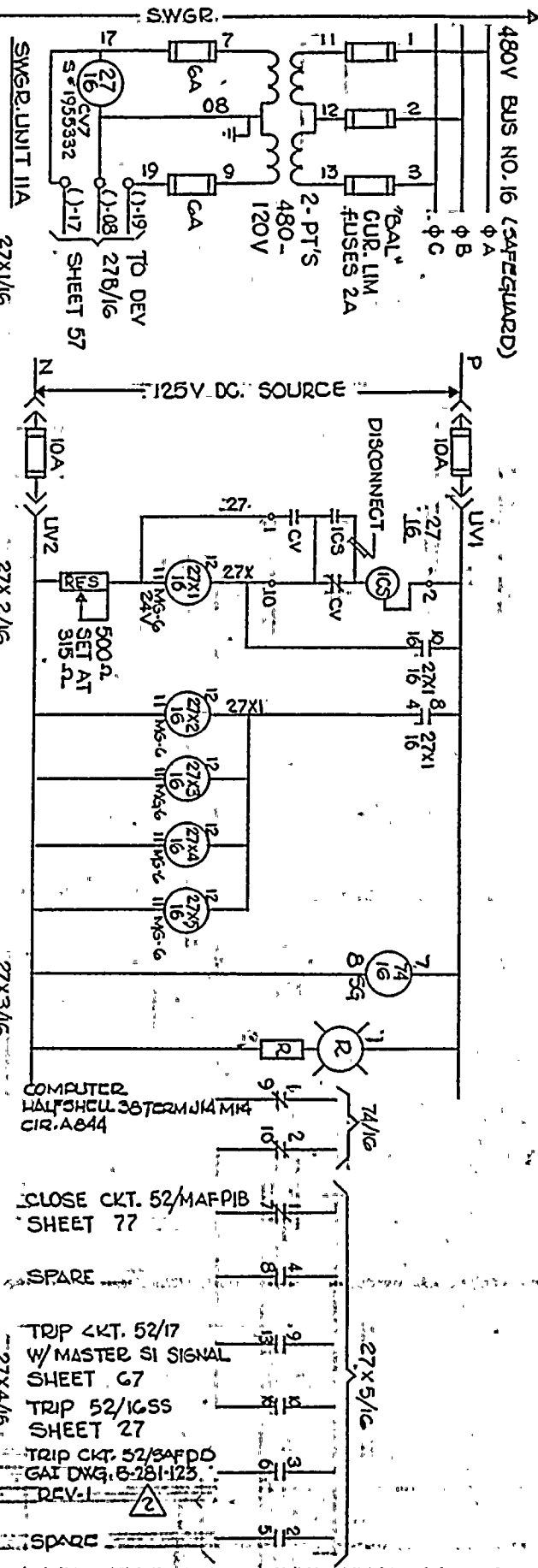
SI SEQUENCE
DWG. 110E059 SH. 4

TRIP CKT. 52/SPARE
SHEET 108

TRIP CKT. 52/SPARE
SHEET 109

TRIP CKT. 52/FUT
SHEET 110

CLOSE CKT 52/BTIG-14
SHEET 62



REV.	1	2	3
DATE	5/13/76	5/13/76	5/13/76
BY	RFH	RFH	RFH
CHKD.	RFH	RFH	RFH
ENGR.	RFH	RFH	RFH
DISC.	RFH	RFH	RFH
DATE	4/11/76	4/11/76	4/11/76

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

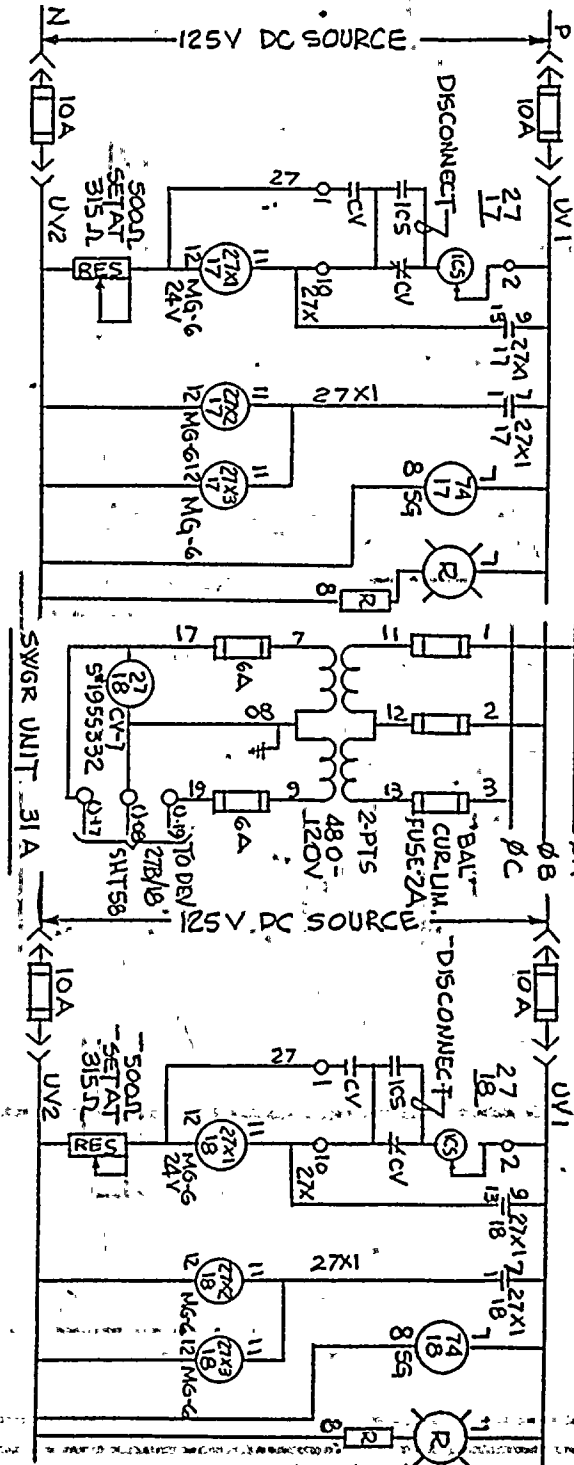
No. 10905-54 73

ROBERT EMMETT GINNA NUCLEAR POWER STATION
UNIT NO. 1


UNDER VOLTAGE SCHEME BUS 16

DRAWN	SCALE
TRACED	APPROVED
CHECKED	FOLDER NO.
ENG.	JOB NO.

480V BUS NO 18 (SAFEGUARD)
8A



REV	DATE	BY	CHKD	APP'D	DESCRIPTION
1	11/11/78	WLB	WLB	WLB	ORIGINAL
2	11/11/78	WLB	WLB	WLB	REVISION
3	11/11/78	WLB	WLB	WLB	REVISION
4	11/11/78	WLB	WLB	WLB	REVISION
5	11/11/78	WLB	WLB	WLB	REVISION
6	11/11/78	WLB	WLB	WLB	REVISION
7	11/11/78	WLB	WLB	WLB	REVISION
8	11/11/78	WLB	WLB	WLB	REVISION
9	11/11/78	WLB	WLB	WLB	REVISION
10	11/11/78	WLB	WLB	WLB	REVISION
11	11/11/78	WLB	WLB	WLB	REVISION
12	11/11/78	WLB	WLB	WLB	REVISION
13	11/11/78	WLB	WLB	WLB	REVISION
14	11/11/78	WLB	WLB	WLB	REVISION
15	11/11/78	WLB	WLB	WLB	REVISION
16	11/11/78	WLB	WLB	WLB	REVISION
17	11/11/78	WLB	WLB	WLB	REVISION
18	11/11/78	WLB	WLB	WLB	REVISION
19	11/11/78	WLB	WLB	WLB	REVISION
20	11/11/78	WLB	WLB	WLB	REVISION
21	11/11/78	WLB	WLB	WLB	REVISION
22	11/11/78	WLB	WLB	WLB	REVISION
23	11/11/78	WLB	WLB	WLB	REVISION
24	11/11/78	WLB	WLB	WLB	REVISION
25	11/11/78	WLB	WLB	WLB	REVISION
26	11/11/78	WLB	WLB	WLB	REVISION
27	11/11/78	WLB	WLB	WLB	REVISION
28	11/11/78	WLB	WLB	WLB	REVISION
29	11/11/78	WLB	WLB	WLB	REVISION
30	11/11/78	WLB	WLB	WLB	REVISION
31	11/11/78	WLB	WLB	WLB	REVISION
32	11/11/78	WLB	WLB	WLB	REVISION
33	11/11/78	WLB	WLB	WLB	REVISION
34	11/11/78	WLB	WLB	WLB	REVISION
35	11/11/78	WLB	WLB	WLB	REVISION
36	11/11/78	WLB	WLB	WLB	REVISION
37	11/11/78	WLB	WLB	WLB	REVISION
38	11/11/78	WLB	WLB	WLB	REVISION
39	11/11/78	WLB	WLB	WLB	REVISION
40	11/11/78	WLB	WLB	WLB	REVISION
41	11/11/78	WLB	WLB	WLB	REVISION
42	11/11/78	WLB	WLB	WLB	REVISION
43	11/11/78	WLB	WLB	WLB	REVISION
44	11/11/78	WLB	WLB	WLB	REVISION
45	11/11/78	WLB	WLB	WLB	REVISION
46	11/11/78	WLB	WLB	WLB	REVISION
47	11/11/78	WLB	WLB	WLB	REVISION
48	11/11/78	WLB	WLB	WLB	REVISION
49	11/11/78	WLB	WLB	WLB	REVISION
50	11/11/78	WLB	WLB	WLB	REVISION
51	11/11/78	WLB	WLB	WLB	REVISION
52	11/11/78	WLB	WLB	WLB	REVISION
53	11/11/78	WLB	WLB	WLB	REVISION
54	11/11/78	WLB	WLB	WLB	REVISION
55	11/11/78	WLB	WLB	WLB	REVISION
56	11/11/78	WLB	WLB	WLB	REVISION
57	11/11/78	WLB	WLB	WLB	REVISION
58	11/11/78	WLB	WLB	WLB	REVISION
59	11/11/78	WLB	WLB	WLB	REVISION
60	11/11/78	WLB	WLB	WLB	REVISION
61	11/11/78	WLB	WLB	WLB	REVISION
62	11/11/78	WLB	WLB	WLB	REVISION
63	11/11/78	WLB	WLB	WLB	REVISION
64	11/11/78	WLB	WLB	WLB	REVISION
65	11/11/78	WLB	WLB	WLB	REVISION
66	11/11/78	WLB	WLB	WLB	REVISION
67					

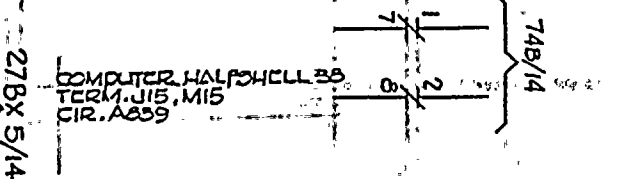
REV		DATE	BY
		11/21/17	AK'D
ORIGINAL			


ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING DEPT.
No. 10905-55

ROBERT EMMETT GINNA, NUCLEAR
STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
UNDER VOLTAGE SCHEME AUG 17 1954

DRAWN	BY	DATE	SCALE
TRACED			APPROVED
CHECKED			FOLDER NO.
ENG.			JOB NO.

SPARE Sept 1991



DRAWN	BY	DATE	SCALE 
TRACED			APPROVED
CHECKED			FOLDER NO.
ENG.			JOB NO.

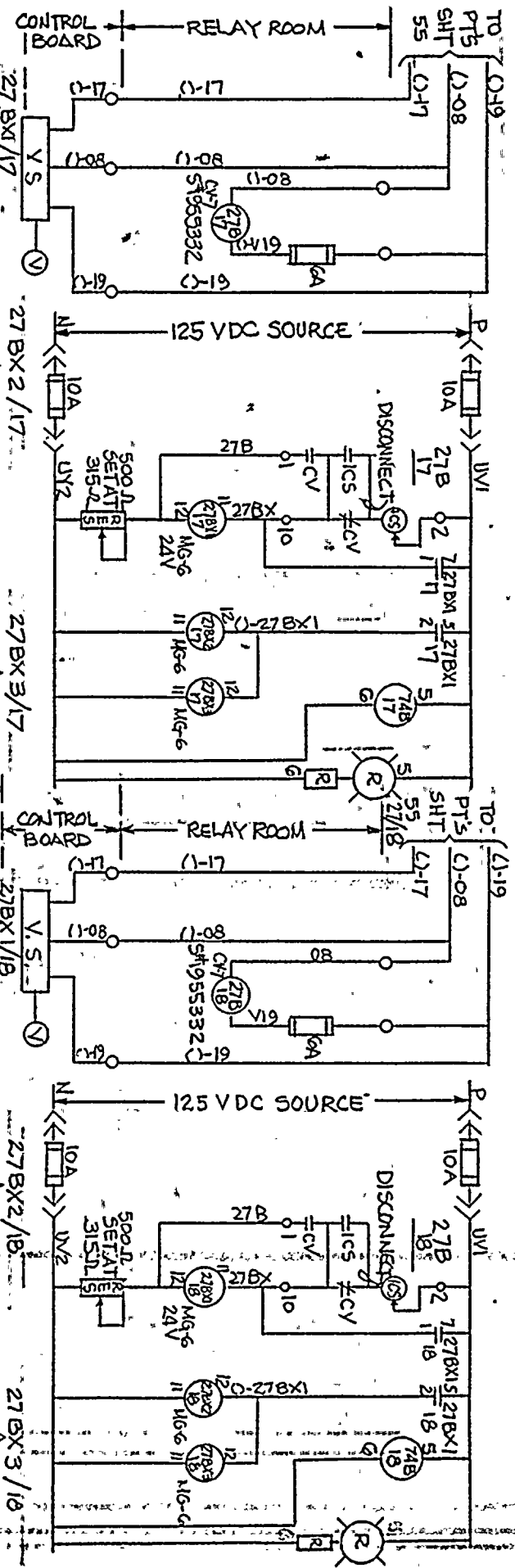
74/BIG

TRIP 52/18SS
SHEET 29
SPARE

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE NO. 499B425 51158

- ANN (L15) SHEET 421
- TRIP CKT 52/17 SHEET 67
- DIESEL GEN. STARTING ALCO DRG. 59075310620
- TRIP CKT 52/FUT. SHEET III
- TRIP CKT 52/MCCIG2 SHEET 100
- TRIP CKT 52/FP SHEET 80
- TRIP CKT 52/THIB SHEET 91
- TRIP CKT 52/THID SHEET 91
- TRIP CKT 52/SWPB SHEET 82
- TRIP CKT 52/SWPID SHEET 82
- TRIP CKT 52/BT17-18 SHEET 63
- SPARE
- TRIP CKT 52/16 WITH MASTER SI SIGNAL SHG6
- SPARE
- SI SEQUENCE DWG. 110E059 SH4
- TRIP 52/17SS SH. 29
- ANN (L23) SHEET 422
- TRIP CKT 52/18 SHEET 68
- DIESEL GEN START ALCO. DWG. 59075310620
- TRIP CKT 52/MCCIG1 SHEET 99
- TRIP CKT 52/FUT SHEET III
- TRIP CKT 52/SWPIC SHEET 81
- TRIP CKT 52/SWPIC SHEET 81
- TRIP CKT 52/THIC SHEET 91
- TRIP CKT 52/THIA SHEET 91
- SPARE
- TRIP CKT 52/14 WITH MASTER SI SIGNAL SHG6
- TRIP CKT 52/BT17-18 SHEET 63
- SPARE
- SI SEQUENCE DWG. 110E059 SH4

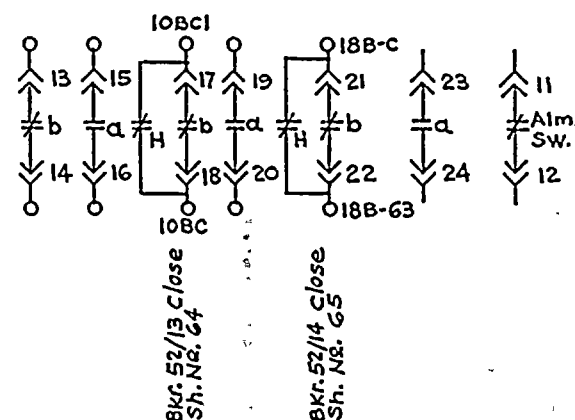
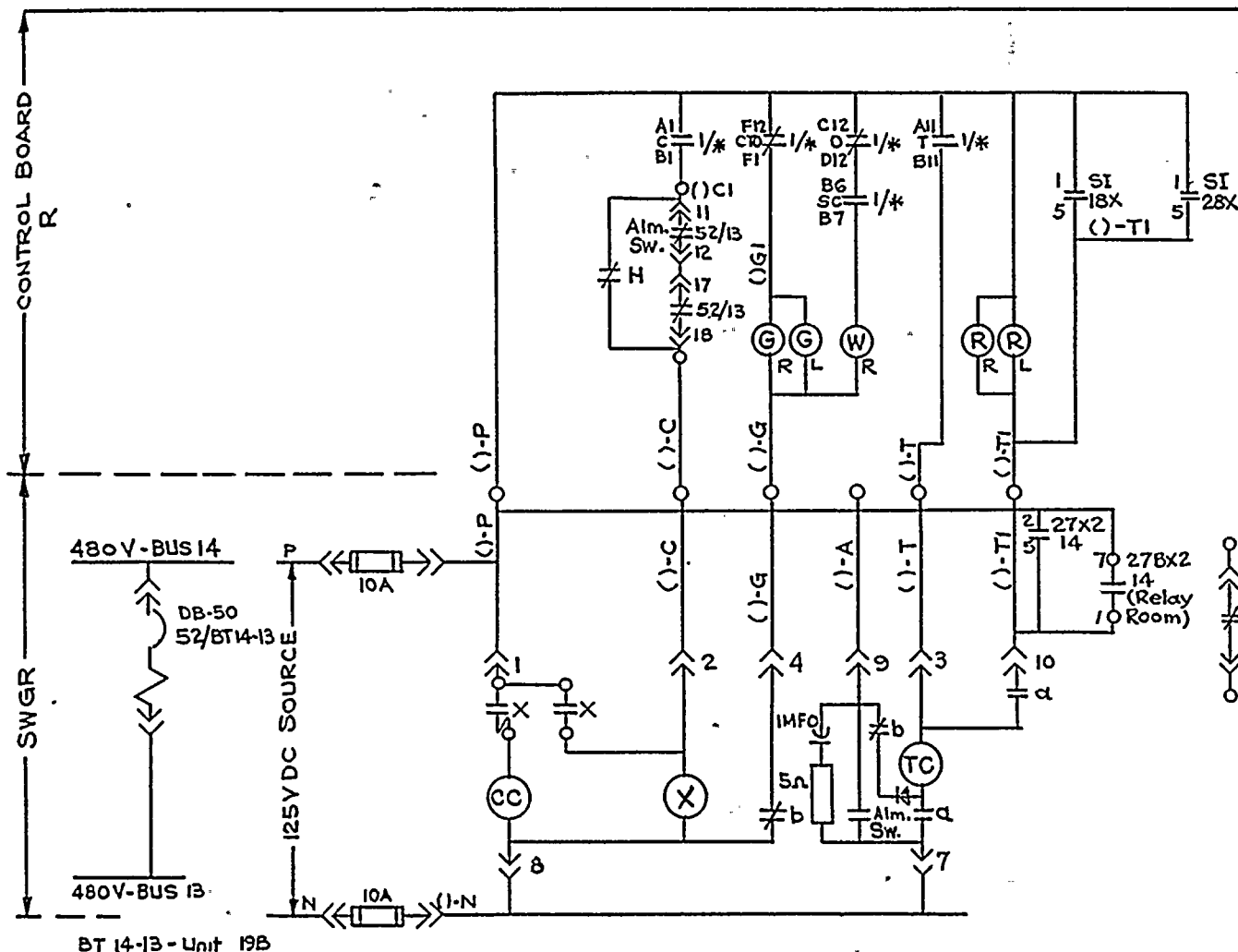
REV.	DATE	BY	CHKD	ENGR	DATE
1	4-21-55	RM	RM	RM	4-21-55
2	4-21-55	RM	RM	RM	4-21-55
3	4-21-55	RM	RM	RM	4-21-55
4	4-21-55	RM	RM	RM	4-21-55
5	4-21-55	RM	RM	RM	4-21-55
6	4-21-55	RM	RM	RM	4-21-55
7	4-21-55	RM	RM	RM	4-21-55
8	4-21-55	RM	RM	RM	4-21-55
9	4-21-55	RM	RM	RM	4-21-55
10	4-21-55	RM	RM	RM	4-21-55



ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING DEPT

ROBERT EMMETT GINNA NUCLEAR
POWER STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
UNDERVOLTAGE SCHEME BUS 17 & 18

DRAWN	BY	DATE	SCALE
TRACED			APPROVED
CHECKED			FOLDER NO.
ENG.			JOB NO.

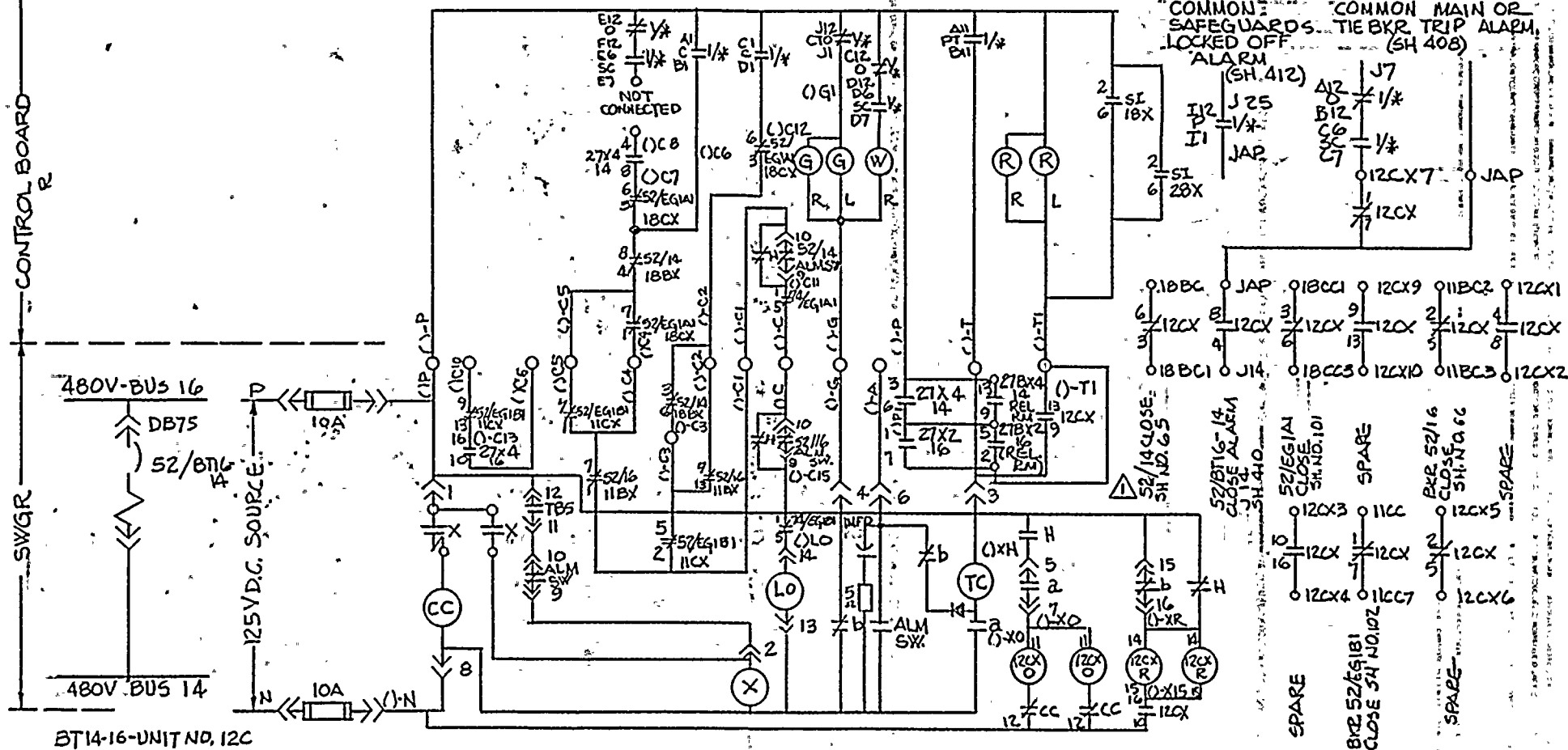


NOTES:
 * - BT 14-13
 1/* - SEE DEV SH. 10
 L - LEFT SECTION-MCB
 R - RIGHT SECTION-MCB
 SI 18X, SI 28X
 DWG. 110E059 SH. 3

THIS DRAWING SUPERCEDES WESTINGHOUSE
 DWG. NO. 499 B425-REV. 7 (SH. 60)

REV.					
ORIGINAL	ELB	RHM	ACK	PLM	6/1/75
	DRAWN BY	CK'D.	RESP. ENG'R.	ENG'R. MGR.	DATE

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ENGINEERING	DEPT	NO 10915-40
ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT No. 1 ELEMENTARY WIRING DIAGRAM 480V BUS TIE 14 TO 13	DATE 5/20/74	SCALE NONE	JOB NO.
	TRACED	APPROVED	FOLDER NO.
	CHECKED		



BT14-16-UNIT NO. 12C

NOTES:

XBT 16-14
TBS-TRIP BAR SW (OPER. BY LO)
1/4" SEE DEV. SH. 11, FIG 3, DETAIL H
L-LEFT SECTION MCB
R-RIGHT SECTION MCB
SI 18X, SI 28X- DWG. 110E059 SH 3

NOTE: THIS DRAWING SUPERSEDES WESTING HOUSE DRAWING 499 B425 SH 62

REV.	⚠	Rm 7/6/76	DH 7-9-76	PLA 7-11-76	JES	7/6/76
		JES 4/8/76	Rm 4-8-76	RPL 4-8-76	JES 4-8-76	11/25/75
..ORIGINAL		PRAXIN BY	CK'D	RES. EAGLE	ENG R. MGL	DATE

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

No. 10905-62

ROBERT EMMETT GINNA NUCLEAR POWER

STATION UNIT NO. 1 ELEMENTARY WIRING DIAGRAM

420 Volt Box 1E 167014

DRAWN

YRACED	CHECKED
--------	---------

END.

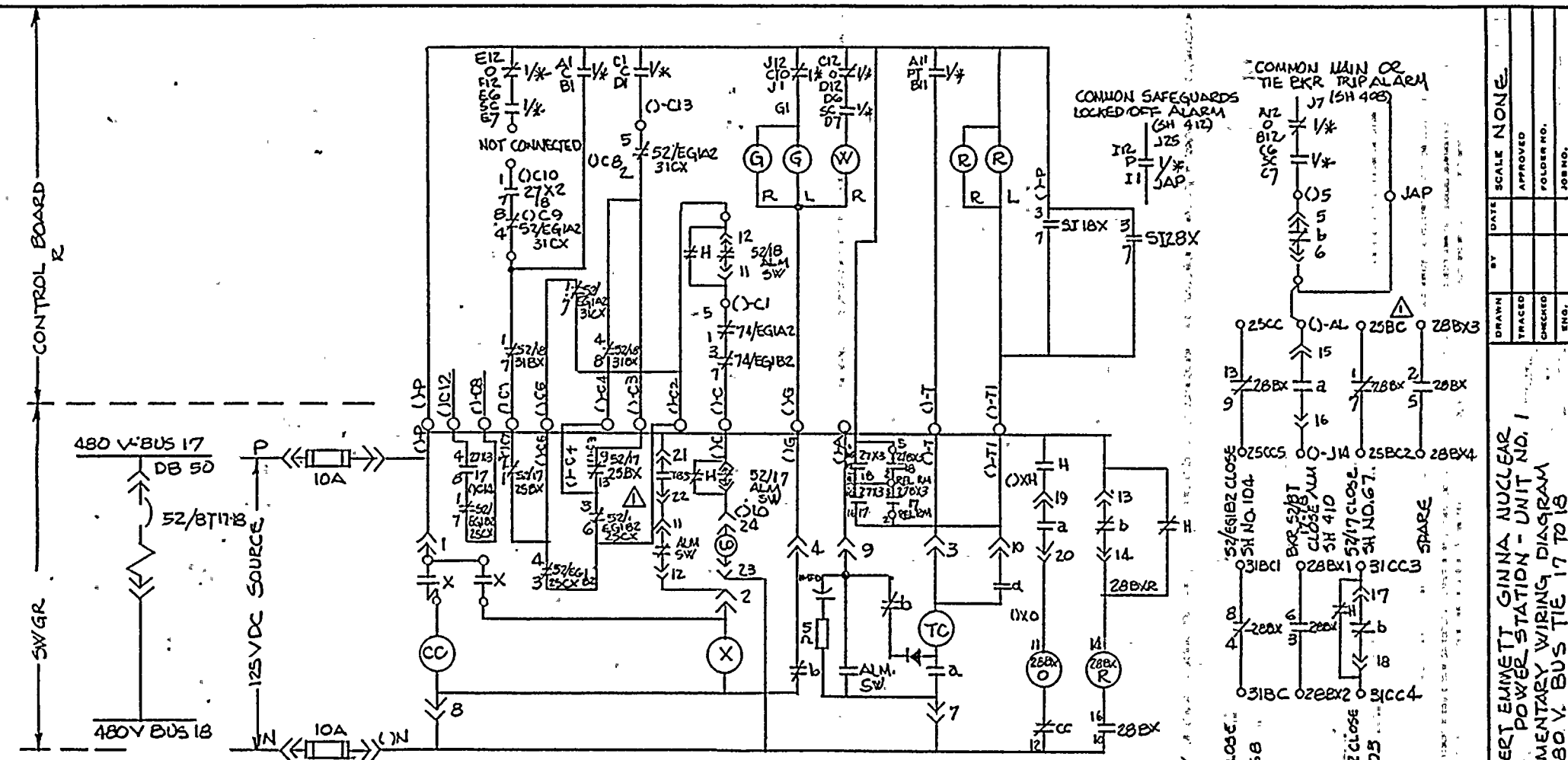
9A

	i

27

MOVIE

NO,

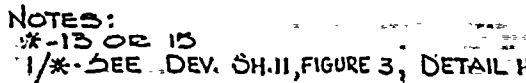


NOTE'S:
* BT 17-18
TBS-TRIP BAR SW. (OPERATED BY LO)
1/4" SEE DEV. SH 11, FIG. 3, DETAIL H
L - LEFT SECTION MCB
R - RIGHT SECTION MCB
5I1B, 5I2B, DWG. 110EO59 SH.3

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499 B425 SH 63

REV.	DATE	BY	CHK'D	APP'D	DATE
ORIGINAL	7-9-76	Rm	Rm	Rm	7/26/76
	7-12-76	Rm	Rm	Rm	12/15
	11-5-76	Rm	Rm	Rm	
	11-5-76	Rm	Rm	Rm	
	11-5-76	Rm	Rm	Rm	

DATE	BY	SCALE	NONE
DRAWN	TRACED	CHECKED	ENG.
ROBERT EMMETT GINNA NUCLEAR POWER STATION - UNIT NO. 1			
ELEMENTARY WIRING DIAGRAM			
480 V. BUS TIE 17 TO 18			
ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK			
ENGINEERING			
NO. 10305-63			



NOTES:
 * - 13 OR 15
 1/* - SEE DEV. SH. II, FIGURE 3, DETAIL H

THIS DRAWING SUPERSEDES
WESTING HOUSE DRAWING 4998425 SH 64 REV 0

REV						
Original	95 _{h1}	Rm	K69 4-8-76	923	4-8-76	
	term by	ck'd	resp. eng'r	eng. man'r	date	

CONTROL BOARD

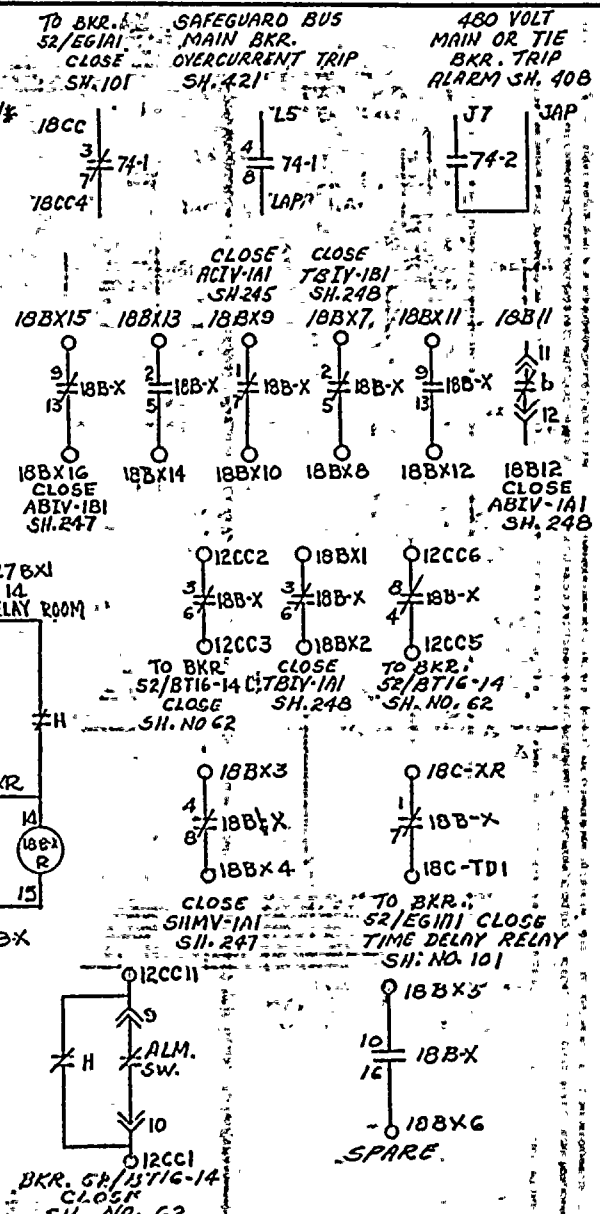
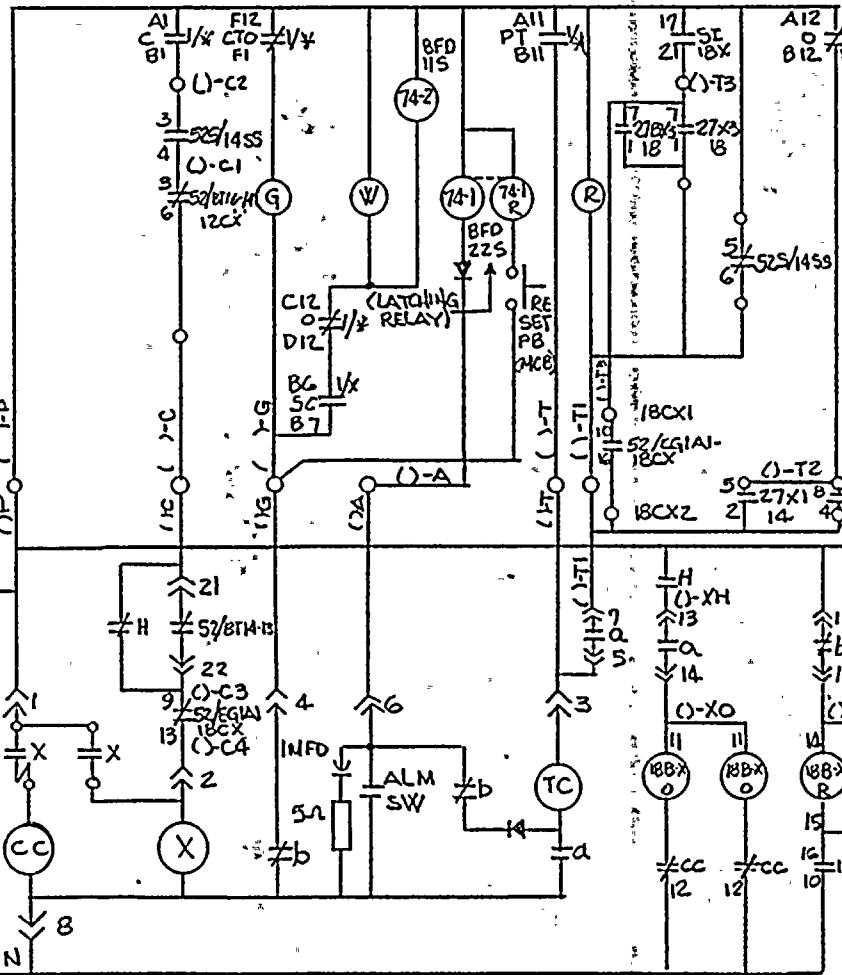
480V. BUS 14

SWGR
DB-75
52/14
125V DC SOURCE
P
10A
N

STASERV TRANS 14-UNIT NO. 18B

NOTES:
* 14
1/2 - SEE DEV SH. 10, FIGURE I DETAIL A
52/18X DWG. 110E059 SH. 3
7A-1/2=7A-1 RESET COIL

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B 425 6H 65



REV	1	2	3	4	5
DATE	7/8/76	7/9/76	7-18-76	9/2/76	7/2/76
BY	RM	RM	RM	RM	RM
CHKD	RM	RM	RM	RM	RM
RESP	RM	RM	RM	RM	RM
ENG	RM	RM	RM	RM	RM
DATE	7/8/76	7/9/76	7-18-76	9/2/76	7/2/76

DATE	BY	DRAWN	TRACED	CHECKED	ENG.
ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1					
ELEMENTARY WIRING DIAGRAM					
480 V. BUS SUPPLY					
ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK					
ENGINEERING					
NO. 10905-65					



NOTES:
* - 17
1/2" SEEDGV SH. 10 FIG. 1, DET. A
S12BX DWG 110ED59 SH3
XFI/X-74-1 RESET. CCL

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO 499842'S 51167

REV						
ORIGINAL	DATE	BY	CHKD	RESP. ENGR	ENG. K. MGR.	DATE

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

No. 10905-67

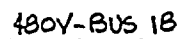
ROBERT EMMETT GUNNA NUCLEAR POWER

SIGNALING UNIT NO. 1
ELEMENTARY WIRING DIAGRAM

ELEMENTARY WIRING DIAG
480V BUS SUPPLY AT

DRAWN	TRACED	CHECKED	ENG.
-------	--------	---------	------

SCALE	NO.
APPROVED	
FOLDER NO.	
JOB NO.	



DB-50
52/18

$\frac{P}{A}$

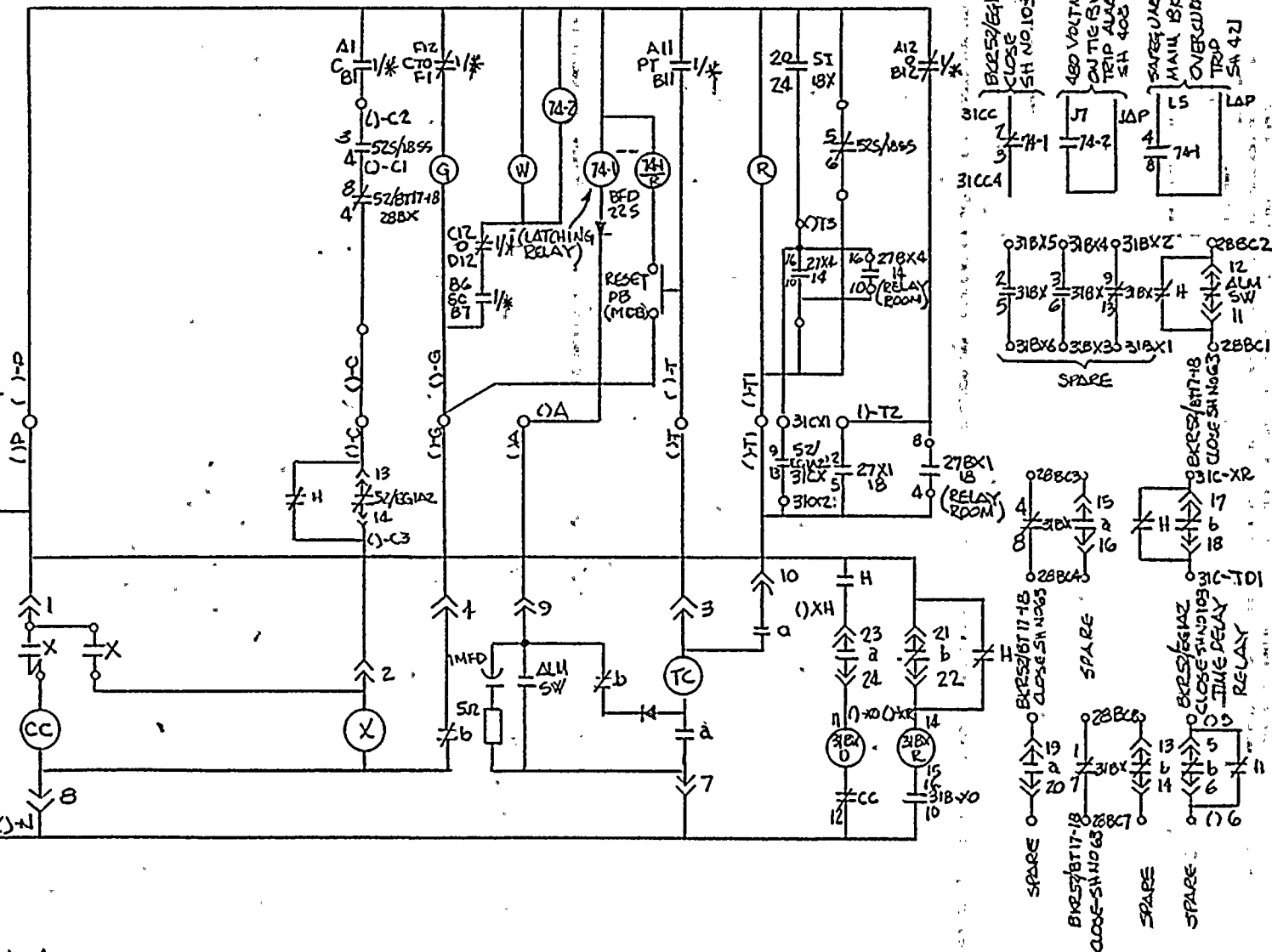
3280

$$-\frac{1}{N}$$

STASERV TRANS 18 UNIT NO 31B

NOTES
✓ SEE DEV SH 10, FIGURE 1, DETAIL A
SIIBX DWG 110E05A SH 3
74-42-741 RESET COIL

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B425 SH 68



REV	DATE	BY	DATE	BY	DATE	BY	DATE
ORIGINAL		DRANK BY	Q'D	RESP ENGR	ENGR MGR	DATE	

ROBERT EMMETT GINNA NUCLEAR POWER

STERGAS & ELECTRIC CORP.

ELEMENTARY WING DIAGRAM

ENGINEERING DEPT

No. 10905-68

ROD DRIVE CONTROL PANEL
BUFFALO DWG 663C 646

SWGR:

480V BUS NO. 13 [NO. 15]

DB-25
52/MG1A
[52/MG1B]

125V DC SOURCE

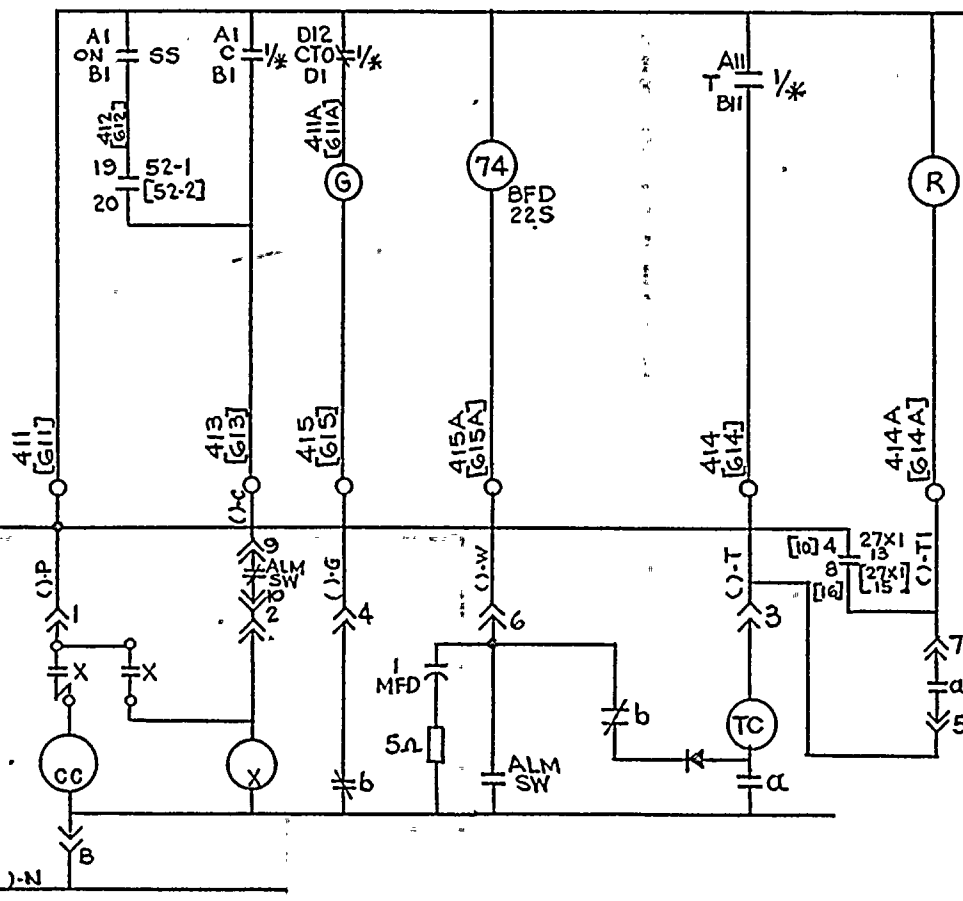
10A

10A

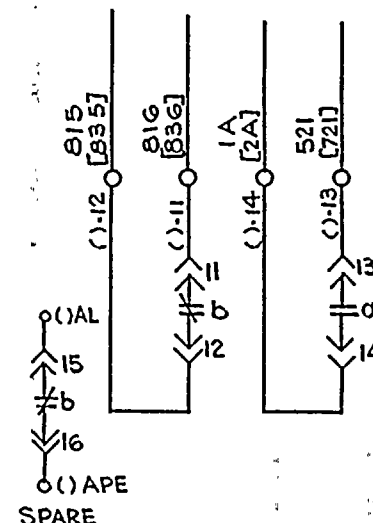
150 MG1A-UNIT 9D
MG1B-UNIT 2A

NOTES:

*-MG1A, OR MG1B



SPARE
74



[632] [633] ANN (C21)
432 433 SHEET-371

REV.					
ORIGINAL	BY	CHK'D	ENG'R.	DISC. MGR.	DATE
	efk/hwt	RHM 4/14/75	POK	RCM	6/1/75

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

NO 10005-70

THIS DWG SUPERCEDES WESTINGHOUSE DWG 499 B 425 (REV. 6) SAT 70
ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT NO. 1

ROD DRIVE MOTOR GEN SET 1A 1B

SCALE	100%
APPROVED	
FOLDER NO.	
JOB NO.	



* CCPIA; OR CCPIB

1/4" = SEE DEV. SHEET II, FIG. 1, DETAIL "A"

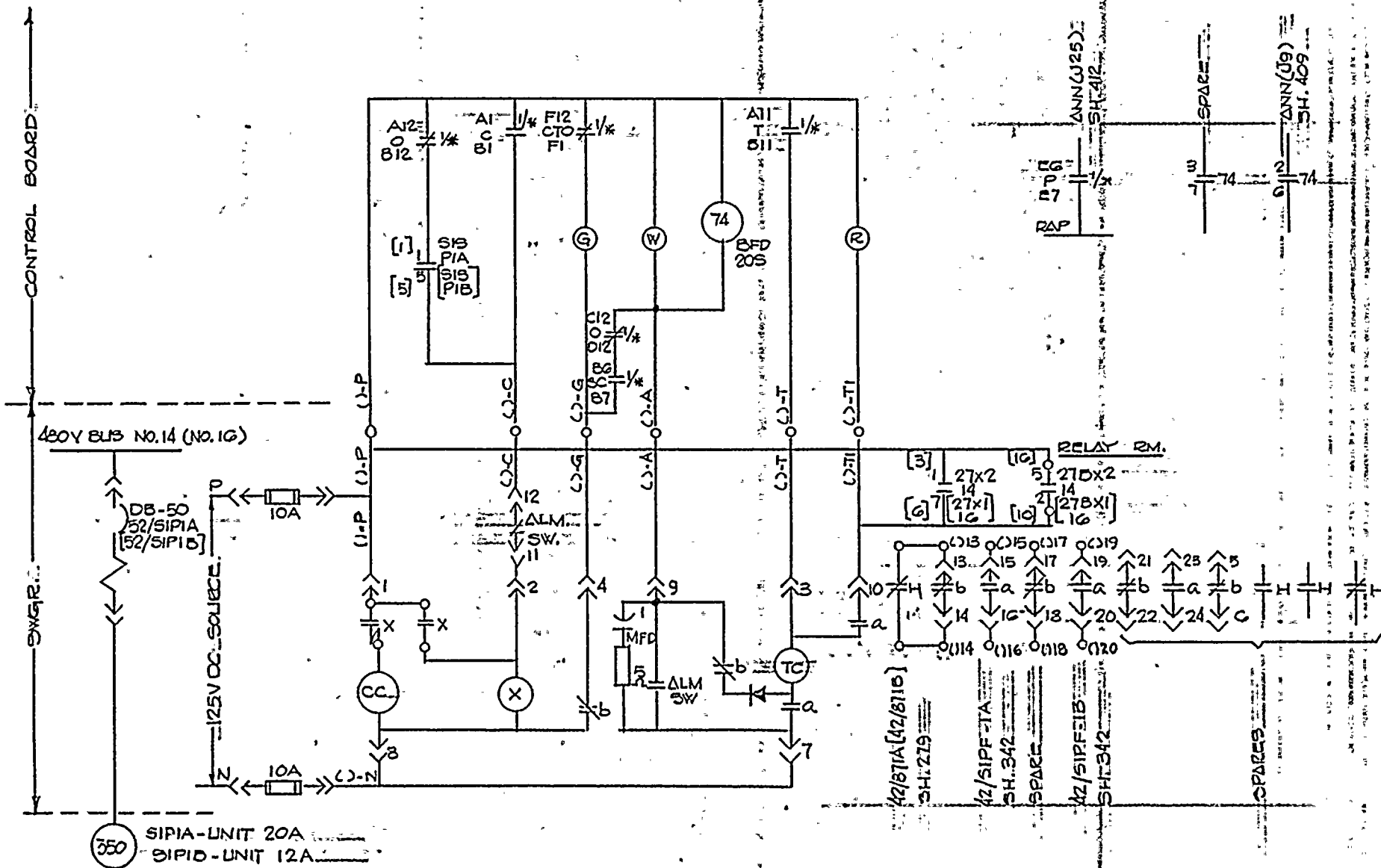
SI. 12X, 22X DWG 110EO39 SH.3

PIC-617X DWL:110E074 SH.4

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

No. 10905-72



1/4-BEE DEV. SHEET TO FIG. 1, DETAIL-D
S19/PIA, FIB DWG 110C059 SH4

NOTE: THIS DWG. SUPERSEDES W/TEST. DWG. 1

REV.						
ORIGINAL	D.H.	Rm	100 1-5-76	888	1-8-70	
	DRAWN BY	CK'D	RESP DC'R	ENGR MAN'R	DATE	

ROBERT EMMETT GINNA NUCLEAR POWER STATION

UNIT I ELEMENTARY WIRING DIAGRAM

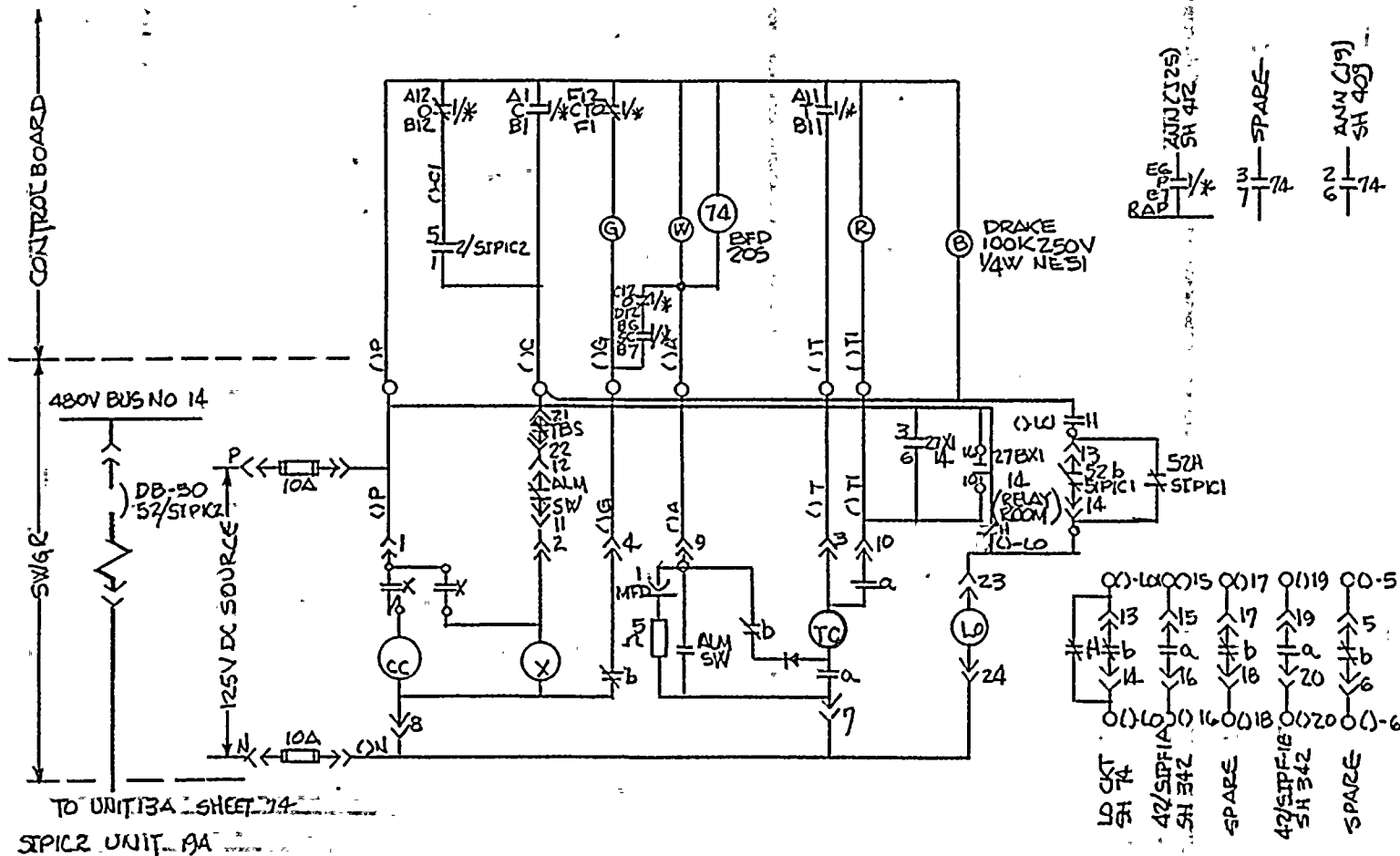
ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROCHESTER, NEW YORK

DRAWN	BY	DATE	SCALE
-------	----	------	-------

TRACED	APPROVED
CHECKED	FOLDER NO.

No. 10905-73



NOTE:

*-SIPICZ

1/4 - SEE DEV SHEET 10, FIGURE 1, DETAIL D

2/SIPICZ.DWG.110E059 5H 4

1BS TRIP BAR SWITCH (OPERATED BY LO)

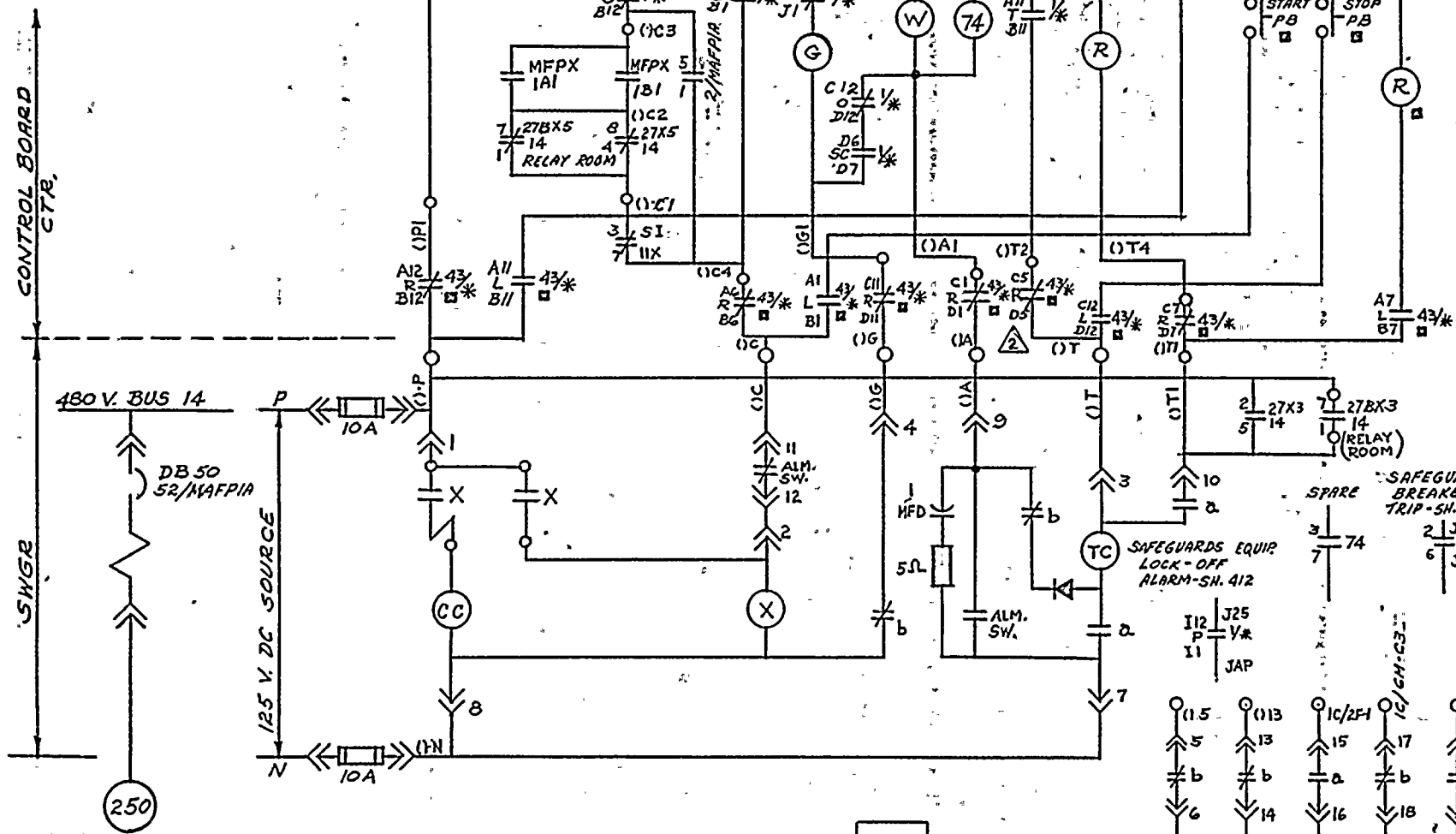
NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO 498425 S1175.

REV						
ORIGINAL	177	RND	RDA 4-8-76	YES	1-8-76	
	DRAWN BY	CK'D	RESP ENGR	ENGR JGP	DATE	

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GINNA NUCLEAR
POWER STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
SAFETY INJECTION PUMP IC2

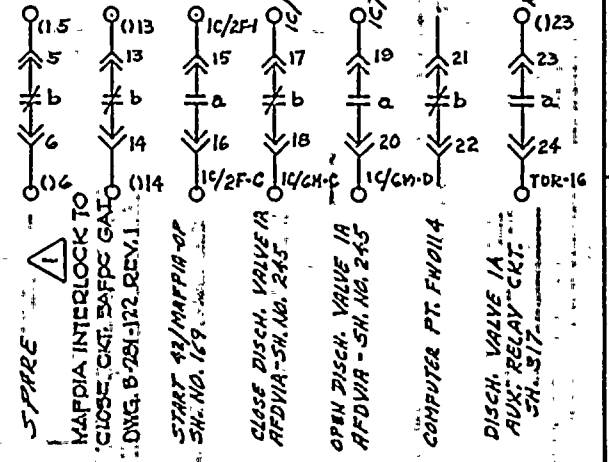
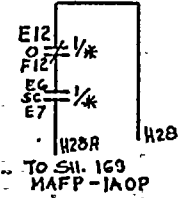
DRAWN	BY	DATE	SCALE	100%
TRACED			APPROVED	
CHECKED			FOLDER NO.	
ENG.			JOB NO.	



MAFP-1A - UNIT 21C

NOTES:

- * - MAFP-1A
- START & STOP PB STATION (LOCAL)
- 43 (TRANSFER SW - LOCAL CONTROL (LOCAL) SH. 11, FIG. 7, DETAIL E
- " " - REMOTE CONTROL (LOCAL)
- MFPX-1A1, 1B1 - AUX. FP AUTOSTART RELAYS (SH. 317)
- V* - SEE DEY. SH. 11, FIG. 3, DETAIL A
- 2/MAFP-1A DWG. 110E059 SH. 4
- SI-11K. DWG. 110E059 SH. 3



REV.	DATE	BY	CHK'D	ENG'D	DATE
1	7-12-76	DEF	DEF	DEF	7-12-76
2	7-12-76	DEF	DEF	DEF	7-12-76
3	7-12-76	DEF	DEF	DEF	7-12-76
4	7-12-76	DEF	DEF	DEF	7-12-76
5	7-12-76	DEF	DEF	DEF	7-12-76
6	7-12-76	DEF	DEF	DEF	7-12-76
7	7-12-76	DEF	DEF	DEF	7-12-76
8	7-12-76	DEF	DEF	DEF	7-12-76
9	7-12-76	DEF	DEF	DEF	7-12-76
10	7-12-76	DEF	DEF	DEF	7-12-76

ORIGINAL

SAFEGUARDS BREAKER TRIP - SH. 409

EMERG. SHUTDOWN EQUIP. LOCAL CONT. ALARM - SH. 416

SAFEGUARDS EQUIP. LOCK-OFF ALARM - SH. 412

SPARE

START 42/MAFP-1A OP SH. NO. 169

CLOSE DISCH. VALVE 1A AFDVIA - SH. NO. 245

OPEN DISCH. VALVE 1B AFDVIA - SH. NO. 245

COMPUTER PT. FWDIA

DISCH. VALVE 1A AUX. RELAY - SH. 317

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK

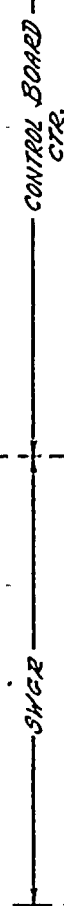
ENGINEERING

NO 1190E-76

NOTE: THIS DWG. SUPERCEDES WESTINGHOUSE DWG. 499B425 SH. 7C

CONTROL BOARD
C7R.

3WCR



MAFPIB-UNIT HC

NOTES:

- * MAFPIB
- * Start & Stop sw. Station (Local)
- * Trans. SW-Local Cont. (Local)
- * Trans. SW-Local Cont. (Local)
- 1/* - See Dev. Sh. 11 Sh. 11
- * MFPX-1A1, 1B1-Aux. FP Auto Start
- * Relays Sh. 317
- * 2/MAFPIB Dwg. 110E059 Sh. 4
- * S1-S1K Dwg. 110E059 Sh. 3

Safeguards Equip.
Lock-Off
Alarm Sh. 412

Safeguards
Breaker
Trip Sh. 409

Emerg. Shutdown
Equip. Local
Cont. Alarm
SH-11C

112 J25
P 1/*
I JAP

3 74
7

2 J9
6 74
JAP

15 13/*
B5 KAP

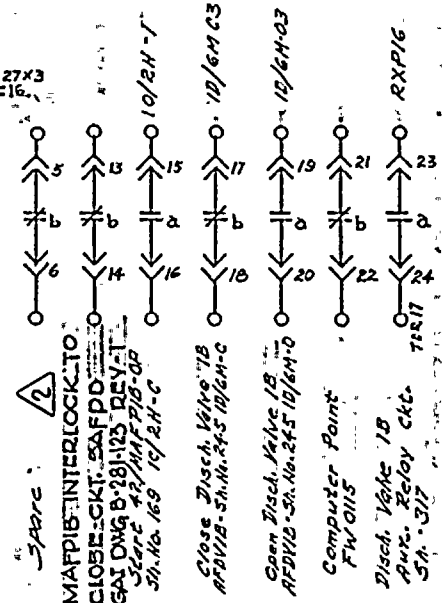
112 J25
P 1/*
I JAP

3 74
7

2 J9
6 74
JAP

15 13/*
B5 KAP

H2B8 H2B
TO SH 169
MAFP 180P



REV. 1488

REV.	DATE	BY	CHK'D	DATE	BY	CHK'D	DATE	BY	CHK'D
ORIGINAL		N.J.A.	R.H.M.	4/13/75	ACK	R.C.M.	6/14/75		
		DRWN	CK'D		RESP. ENG'R.	ENG'R. MGR.	DATE		

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

DEPT

1005-77A

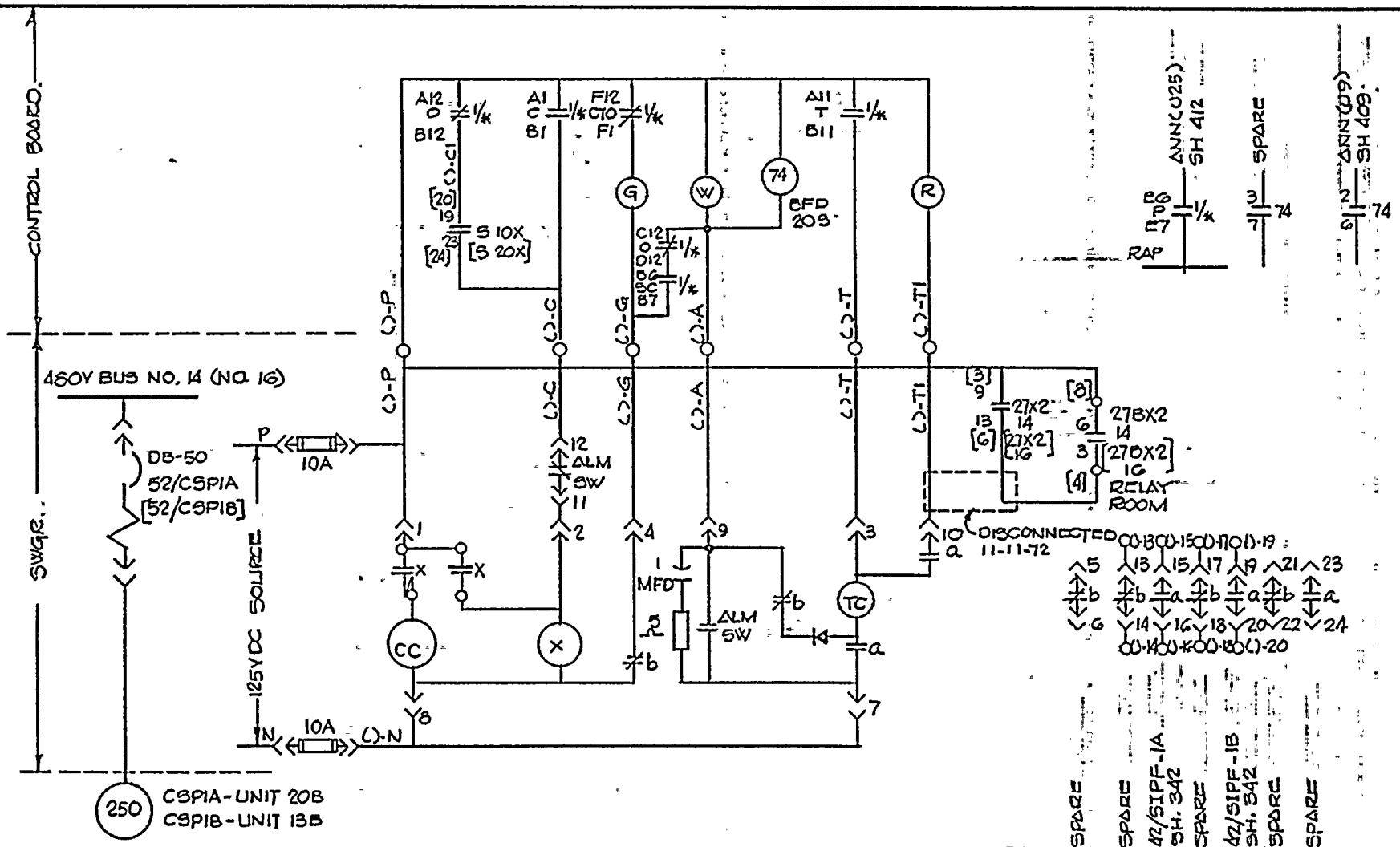
ROBERT ENNETT SINHA NUCLEAR POWER STATION UNIT I
ELEMENTARY WIRING DIAGRAM
MOTOR DRIVEN AUX-FEEDWATER PUMP 1B

SCALE NONE

APPROVED

FOLDER NO.

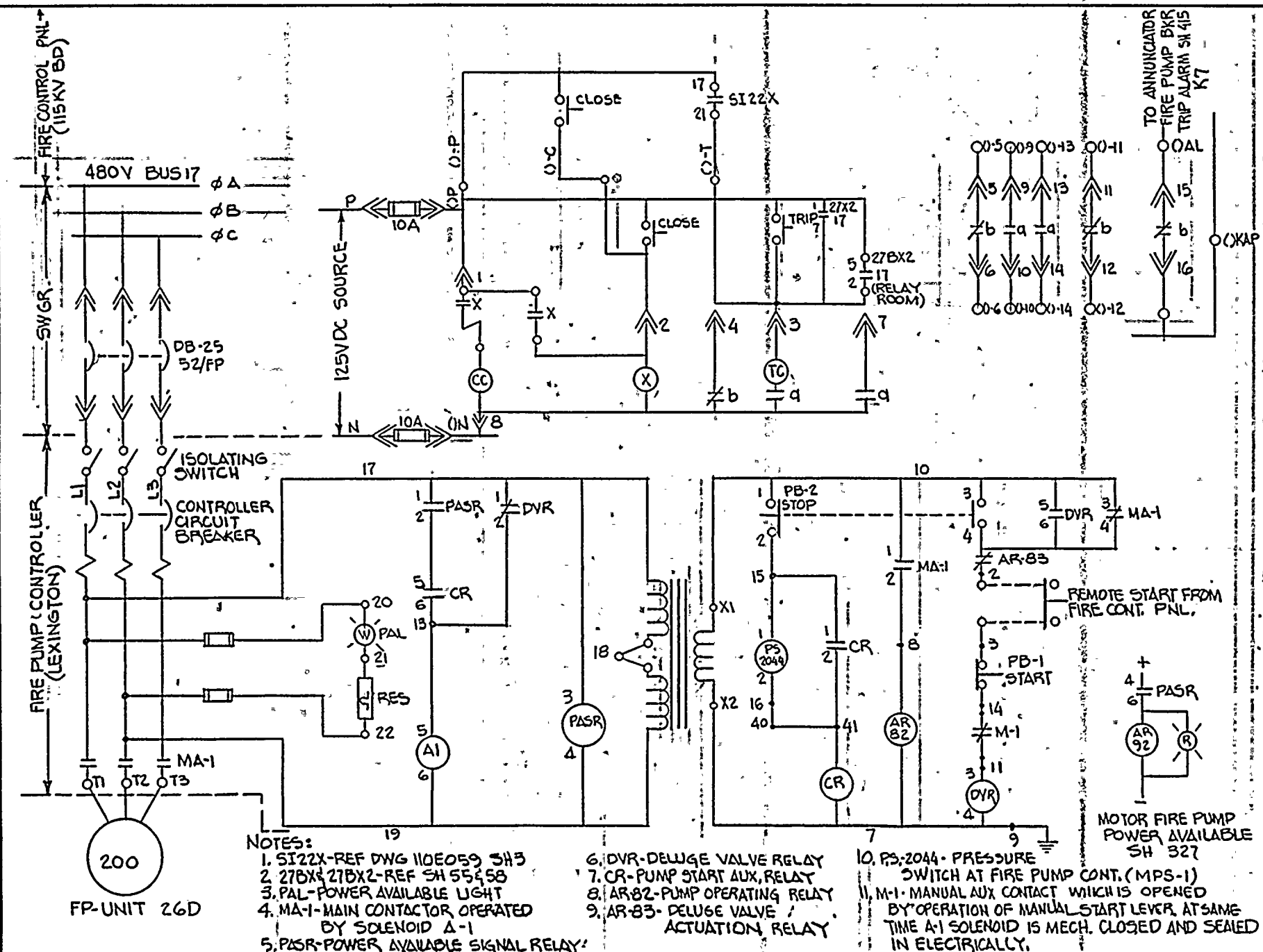
JOB NO.



THIS DWG. SUPERSEDED BY WESTINGHOUSE DWG. NO. 4993425 SH.79

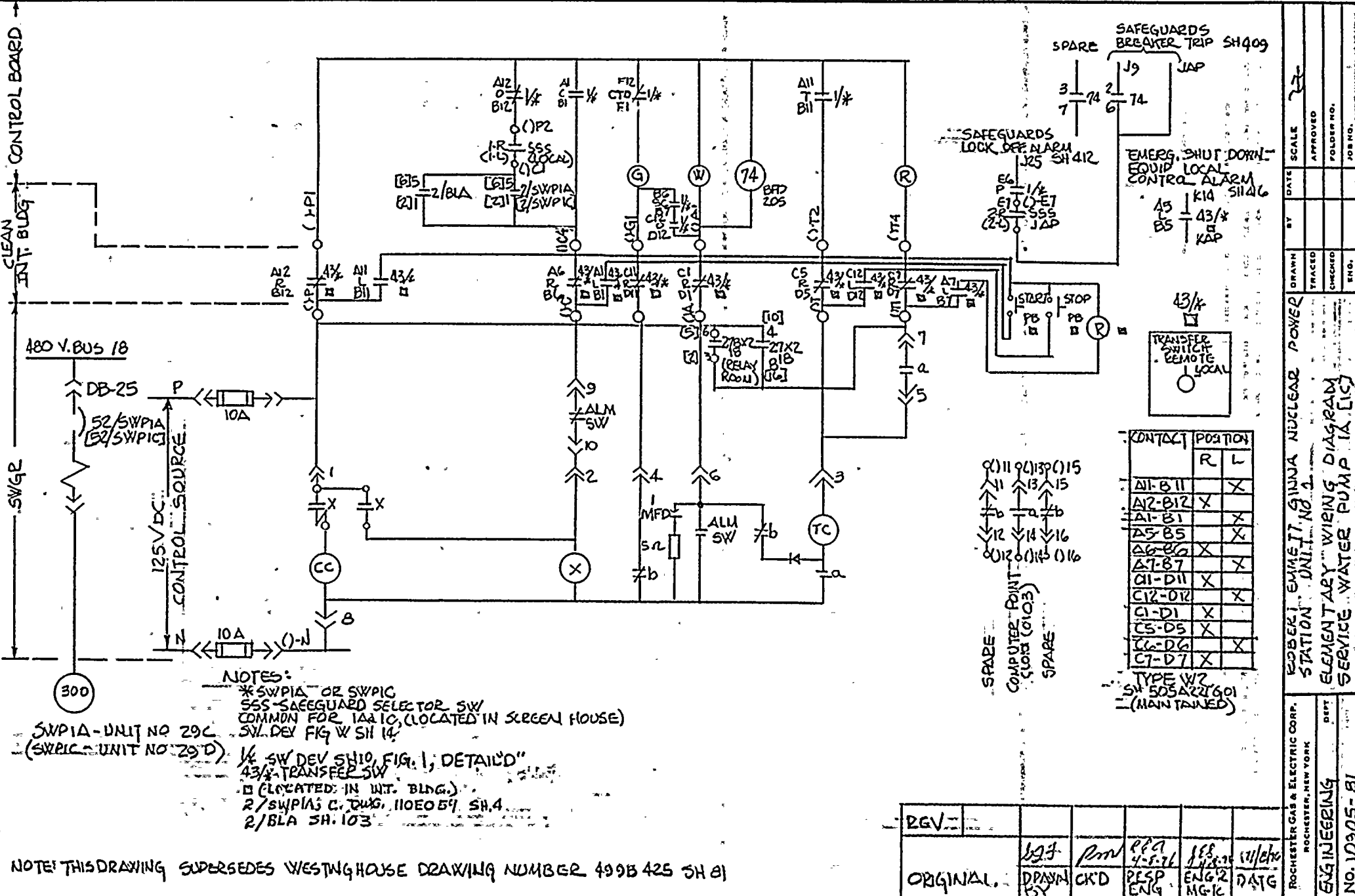
REV.	DATE	BY	CHK'D	APP'D	DATE
ORIGINAL		AKW	RW	RFA	4-2-70
		DRAWN	CK'D	KEEP	
				ENG'R	
				MAN'R	

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK		ROBERT EMMETT GINNA NUCLEAR POWER STA. UNIT NO. 1		DATE 10-7-70		SCALE	
ENGINEERING		ELEMENTARY WIRING DIAGRAM		TRACED		APPROVED	
No. 10905-79		CONTAINMENT SPRAY PUMP 1A & 1B		CHECKED		FOLDER NO.	
				ENG.		JOB NO.	



THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO 499B425 SH 80

ELEMENTARY WIRING DIAGRAM				FACILITY GINNA				ROCHESTER GAS & ELECTRIC CORP.			
FIRE PUMP				SCALE				ROCHESTER, NEW YORK			
JOB NO.				DRAWING NO.				REV.			
10905-80				10905-80				10905-80			
REVISION				DATE				NUMBER			
ORIGINAL				DATE				NUMBER			
ADDED PUMP CONTROLLER				DATE				NUMBER			
REVISED				DATE				NUMBER			
DRAWN BY				DATE				NUMBER			
CHECKED BY				DATE				NUMBER			
RESP. ENG.				DATE				NUMBER			
MANOR.				DATE				NUMBER			



NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B 425 SH 81

REV -					
ORIGINAL.	DPYAM FV	Rm	PPA 4-5-71	JES 4-5-71	W/CH
		CKD	PSP ENG	ENG 2 MG-K	DATG

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

57123 INI 575

No. 10305-81

ROBERT E. EMMETT, GINNA NUCLEAR POWER

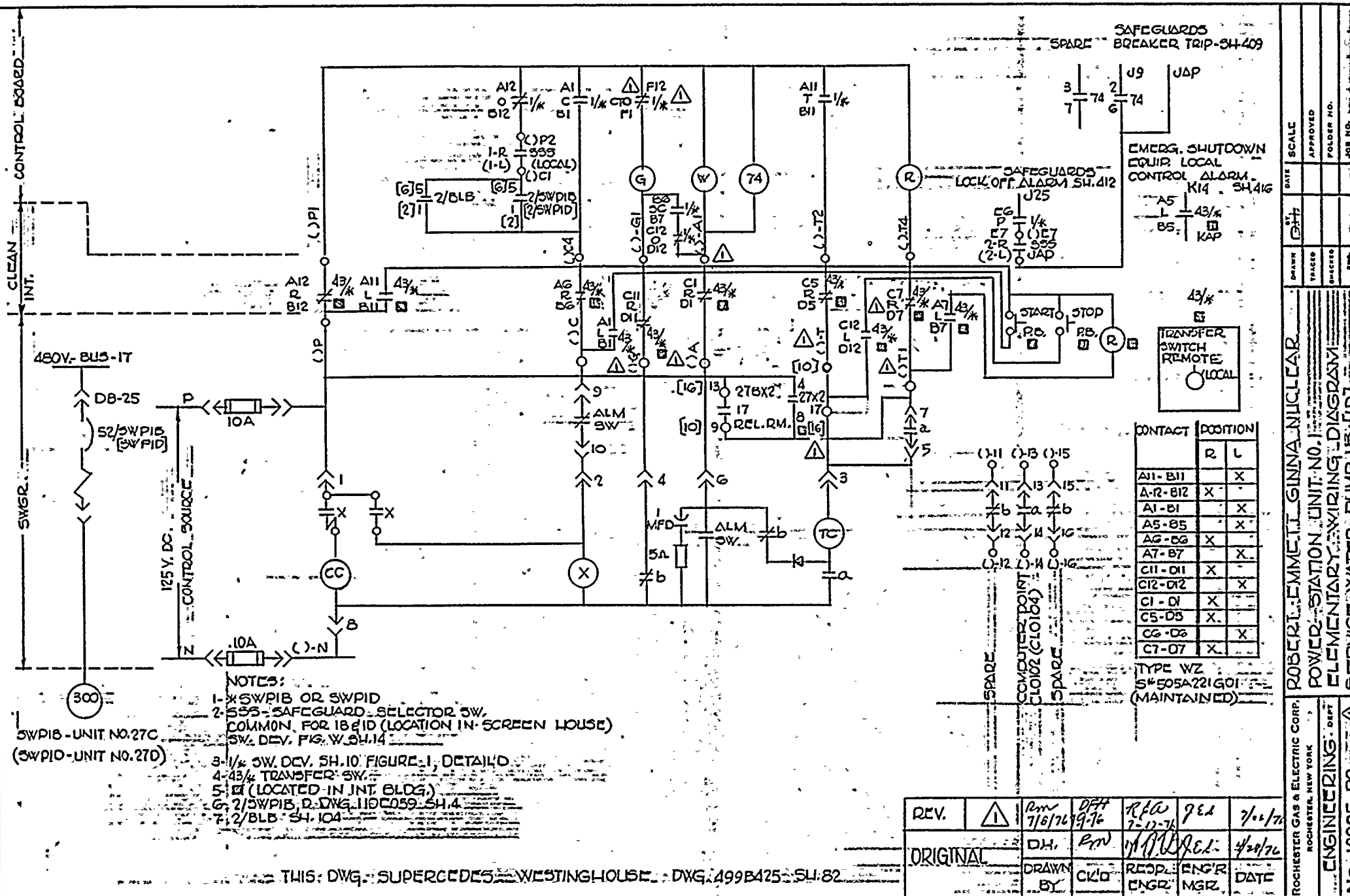
DRAWN

10

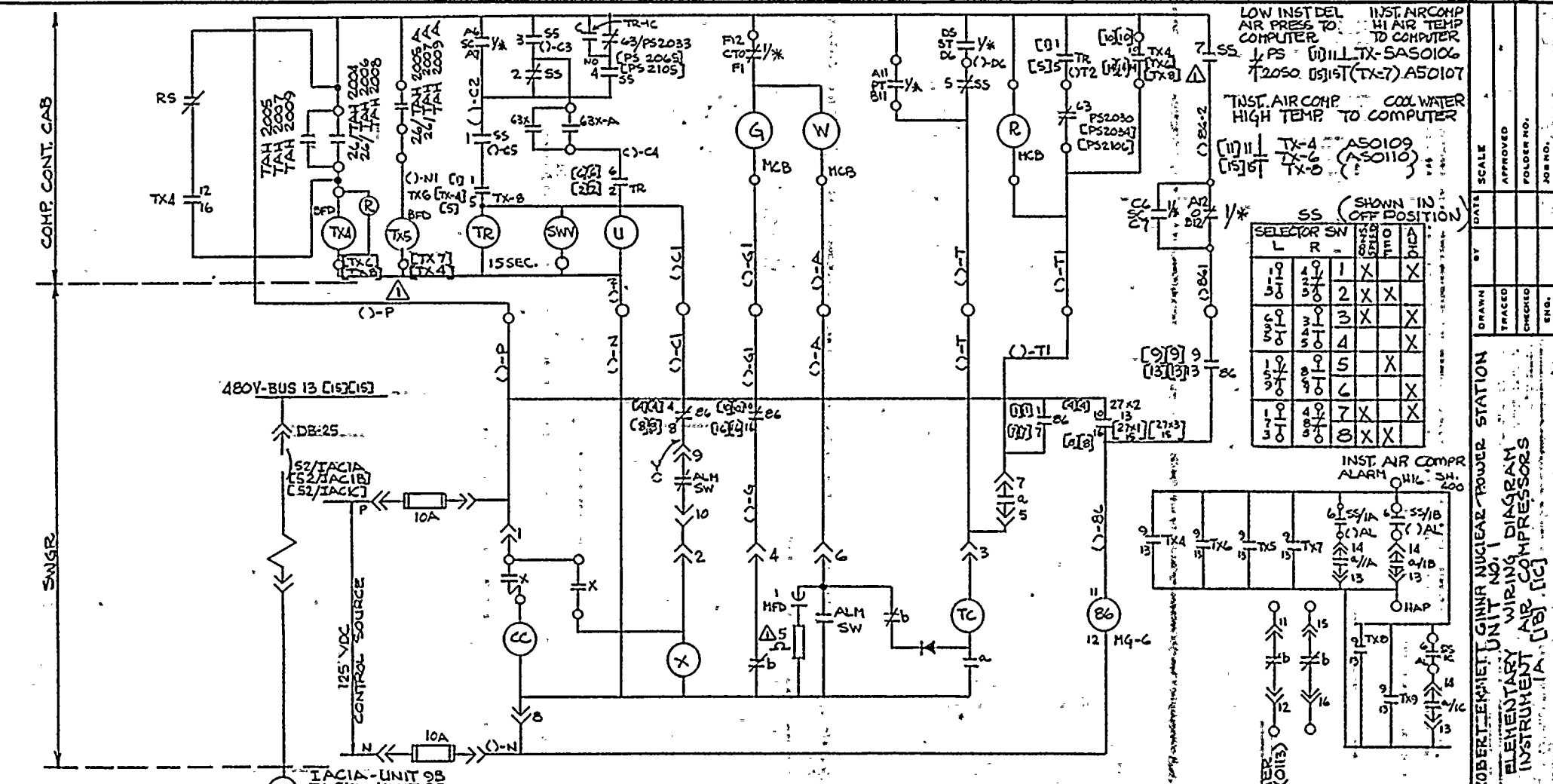
DATE	S
------	---

374

1



THIS DWG. SUPERCEDES ~~WESTINGHOUSE~~ DWG. A99B475 SU: 82



NOTES

* IACIA, IACIB, OR IACIC

YK - SEE SW. DEV. SH. 10, FIG. 1, DETAIL C

SS - SELECTOR SWITCH (SEE SWITCH DEV. THIS PAGE)

RS - RESET SWITCH (LOCAL PUSH BUTTON)

SW - SOL. VALVE COOLING WATER LINE TO COMP.

TR - TIME DELAY RELAY - DELAY ON ENERGIZE

TR-1C - INSTANTANEOUS CONTACT ON AGASTAT

U - UNMODER. PILOT VALVE

- 26/TAH 2004, (2006), (2008) TEMP. SW. IN WTR. LINE FROM COMP.

- 26/TAH 2005, (2007), (2009) CONTACT IN THERMOMETER (AFTER COOLER)

- 26/TAH 2005A, (2007A), (2009A) CONTACT IN THERMOMETER (COOL. DISCHARGE)

- PS 2030, (2034), (2106) ESTIMATE AIR COMP. LOW OIL PRESS.

- PS 2033, (2035), (2105) AIR PRESS. SW. (APS) - AUTO. OPER.

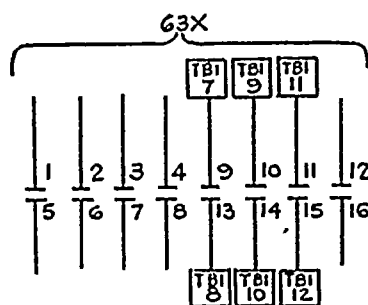
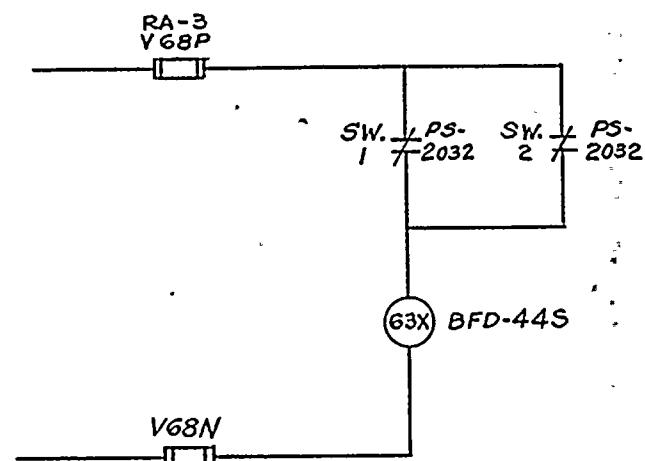
- TX-4, (TX-5), (TX-6), (TX-7), (TX-8), (TX-9) - AUX. RELAY MTD. BELOW COMP. CONT. CAB.

63X & 63XA - AUX. RELAY SEE DWG. 10905-83 SH. 2

THIS DWG. SUPERSEDES DWG. 499B425 SH. 83

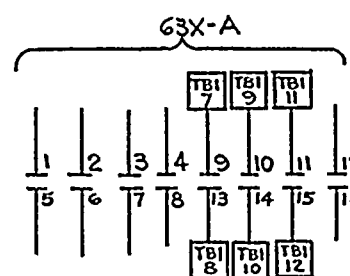
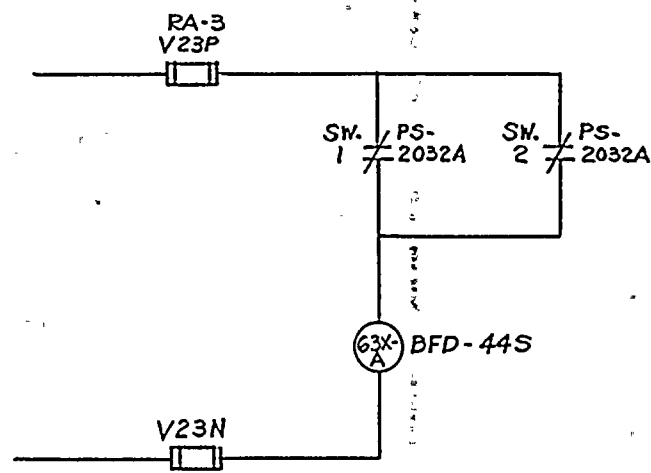
REV.	DATE	BY	CHKD	APP'D	DATE
ORIGINAL	7/8/76	ANV	RW	RFA	7/22/76
	7/8/76	BY	CKD	RES.	4-8-76
				ENGR	
				MGR	

ROBERT KENNETT GINN NUCLEAR POWER STATION	
ELEMENTARY WIRING DIAGRAM	
INSTRUMENT AIR COMPRESSORS	
NO. 10905-83 SH. 1A	NO. 10905-83 SH. 1A
REV. 1	REV. 1
DATE 7/8/76	DATE 7/22/76
BY ANV	CHKD RW
APP'D RFA	RES. RFA
ENGR RFA	MGR RFA
DATE 4-8-76	DATE 7/22/76
ROCHESTER GAS & ELECTRIC CORP.	
ROCHESTER, NEW YORK	
DEPT	
FOLDER NO.	
JOB NO.	
SCALE	
APPROVED	
DRAWN	
TRACED	
CHECKED	
ENG.	



'A' COMPRESSOR
'B' COMPRESSOR
'C' COMPRESSOR

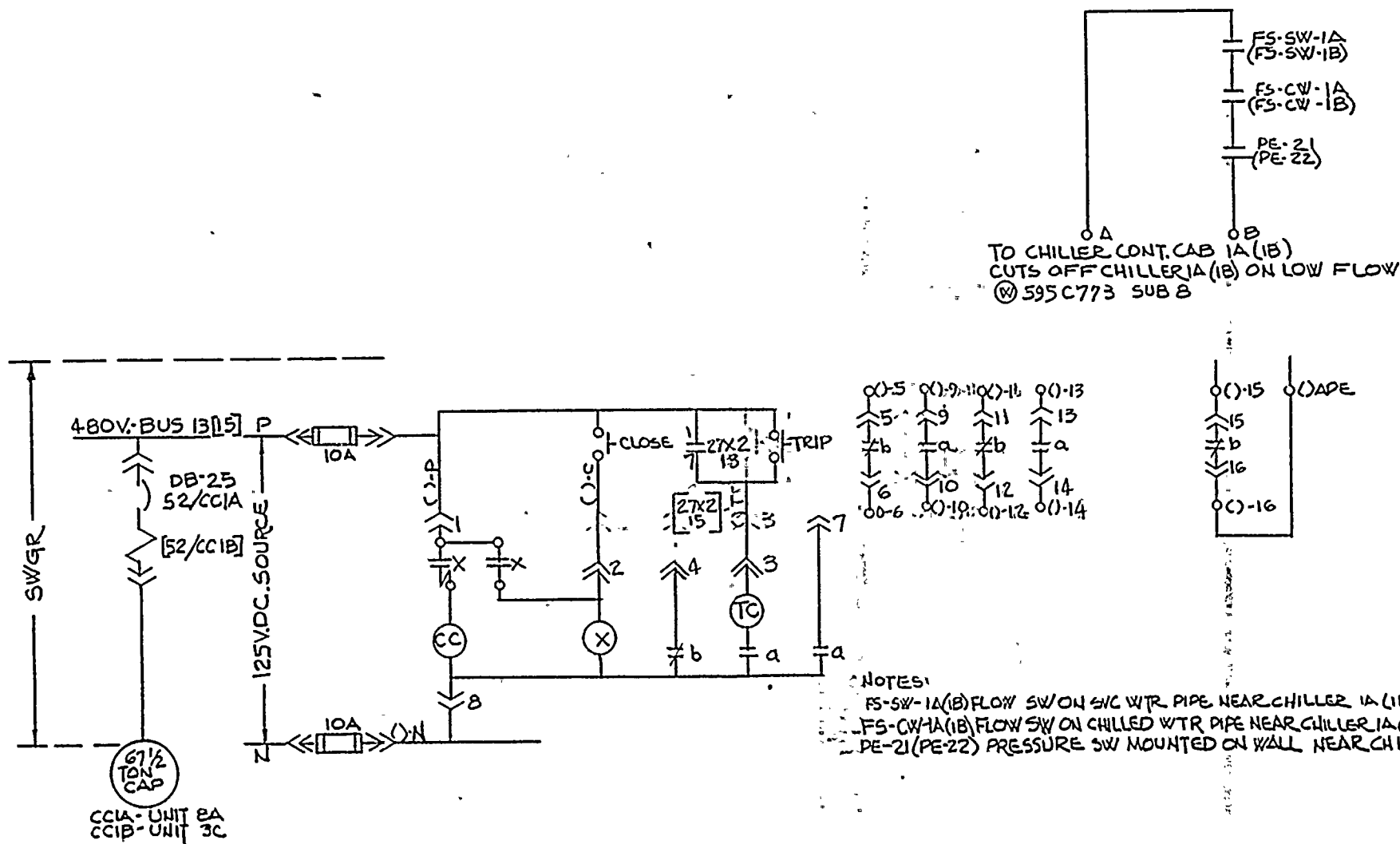
NOTE:
THIS DWG. SUPERCEDES WESTINGHOUSE
DWG No. 449 B425, SH.83A, (REV.0)



'A' COMPRESSOR
'B' COMPRESSOR
'C' COMPRESSOR

REV.						
ORIGINAL	gfh	R.H.M.	PCX	RCM	4/14/75	
	DRAWN BY	CK'D.	RESP. ENG'R.	ENG'R. MGR.	DATE	

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ENGINEERING	DEPT	NO. 10905-83 SH.2
ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT No. 1	SCALE NONE	APPROVED	FOLDER NO.
ELEMENTARY WIRING DIAGRAM	DRAWN	TRACED	CHECKED
INSTRUMENT AIR COMPRESSOR	REV.		



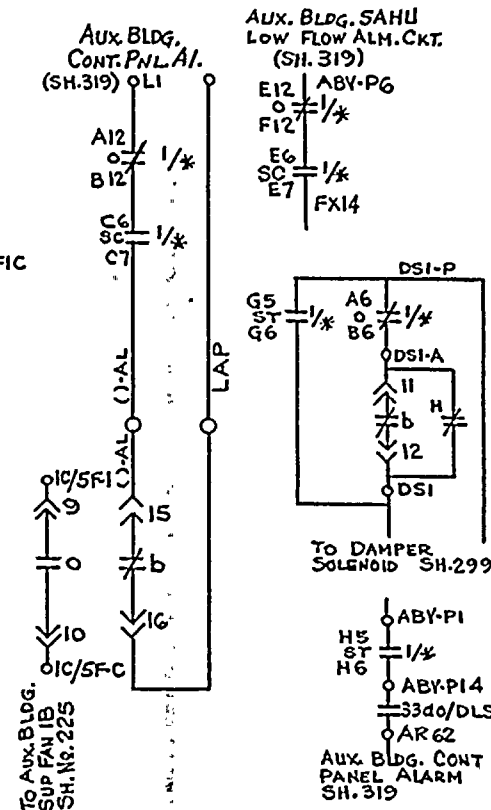
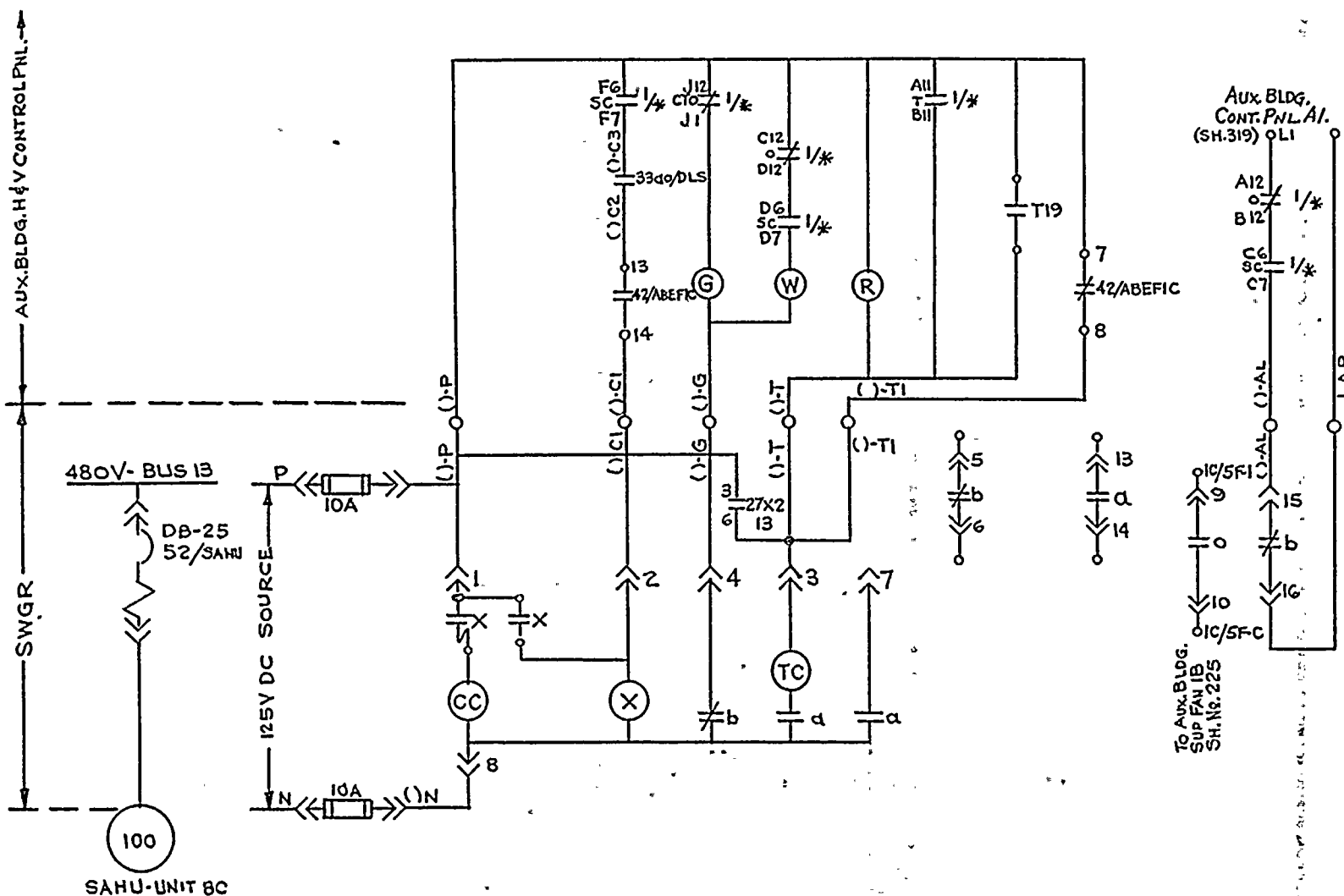
NOTES:

- FS-SW-1A(1B) FLOW SW ON SVC WTR PIPE NEAR CHILLER 1A(1B)
- FS-CW-1A(1B) FLOW SW ON CHILLED WTR PIPE NEAR CHILLER 1A(1B)
- PE-21(PE-22) PRESSURE SW MOUNTED ON WALL NEAR CHILLER 1A(1A)

REV						
ORIGINAL	808	Rev.	1/10/98	12/75		
	DRAWN BY	CK'D	RESP ENGR	ENGR MGR	DATE	

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH.85

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ENGINEERING	DEPT	NO. 10905-85		
ROBERT EMMETT GINNA, NUCLEAR POWER STATION UNIT NO. 1 ELEMENTARY WIRING DIAGRAM CHILLER COMP. 1A(1B)	DATE	SCALE	APPROVED	FOLDER NO.	JOB NO.
BY	DATE	SCALE	APPROVED	FOLDER NO.	JOB NO.
DRAWN	TRACED	CHECKED	ENG.		



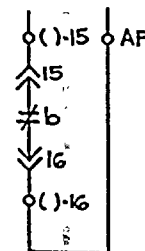
NOTES:
 *- SAHU
 T19- FIRE PROT. THERMOSTAT IN DISCH. DUCTS.
 33/do/DLS- SUCTION DAMPER LIMIT
 SW.- CLOSED IN DAMPER FULL OPEN POSITION
 (2 ELECT. SEPARATE CONTACTS)
 1/* SEE DEV. SH. 11
 42/ABEFIC- SH. 201

THIS DWG. SUPERCEDES WESTINGHOUSE
 DWG. NO. 499 B 425, SH. 86 (REV. 8)

REV.					
ORIGINAL	2/14/72	RAH	PCY	RCM	6/4/75
DRAWN BY	CK'D.	RESP. ENG'R.	ENG'R. MGR.	DATE	

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ENGINEERING	DEPT.	10005	10005	10005
ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1	ELEMENTARY WIRING DIAGRAM	AUX. BLDG. SUPPLY AIR HDIC UNIT	SCALE	NONE	
DRAWN	TRACED	CHECKED	APPROVED	FOLDER NO.	SH. NO.

—




ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

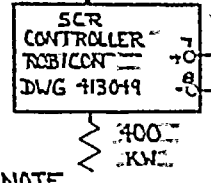
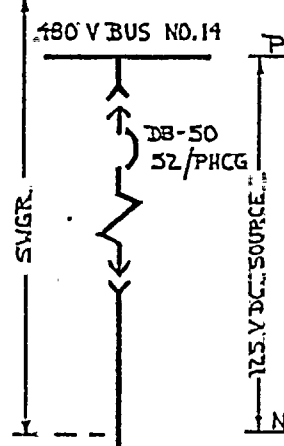
No. 10905-87 Δ

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT No. 1
ELEMENTARY WIRING DIAGRAM
LIGHTING TRANSFORMER 1A

REV.		Q.F.H.	Rm 8/16/76	KCL 9/22/76	
ORIGINAL		SP/STH 4/14/75	REHM 4/14/75	RCM 6/14/75	
		DRAWN BY	CK'D.	RESP. ENGR. ENGR. MGR.	DATE
POWER		DRAWN	DATE		
		TRACED	SCALE		
		CHECKED	APPROVED		
M			FOLDER NO.		
		REP.	JOB NO.		

CONTROL BOARD

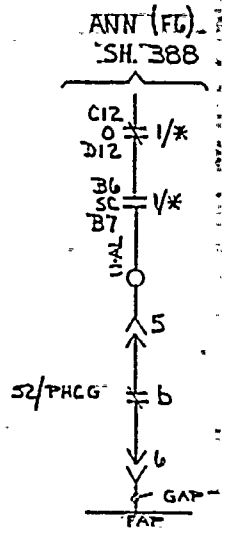
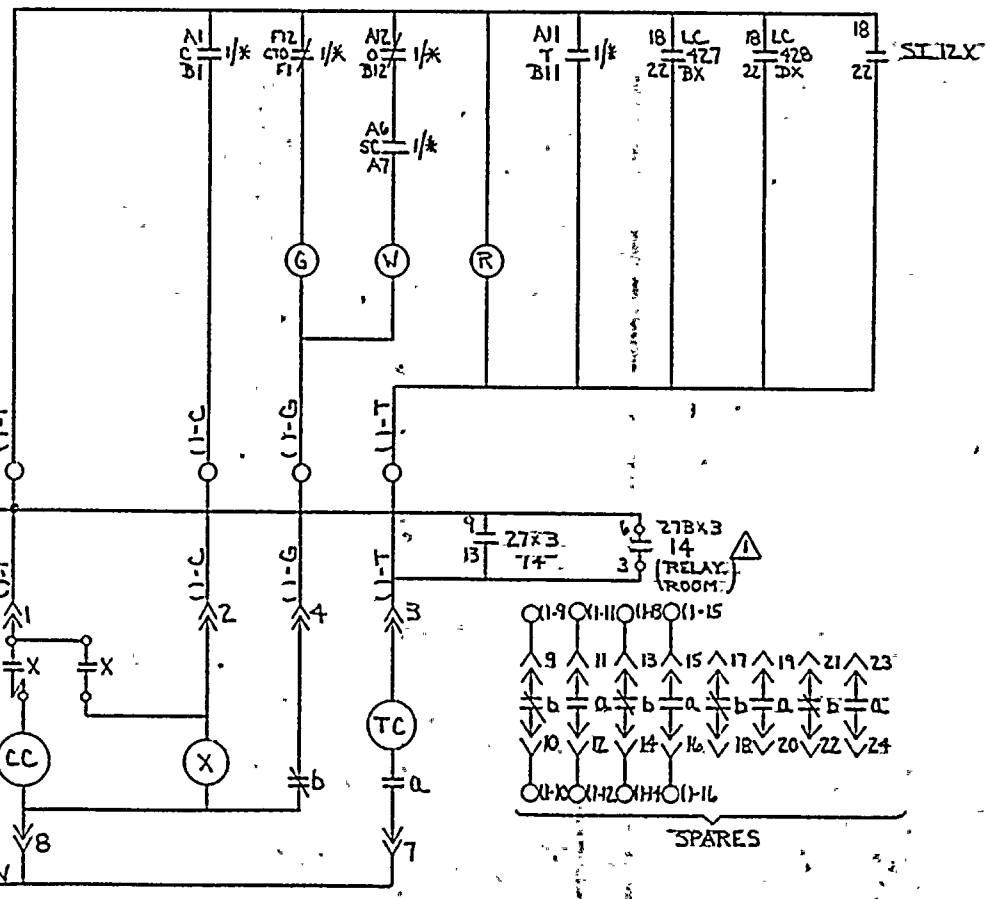
SVGR



PHCG UNIT 22B

PC-431K
CONTROLLER TACK TLP
FOXBORO DWG CD-13
HCF-431K
CONTROL BOARD
TERM. BLK PLB 10-1152
FOXBORO DWG PW-13

NOTE
*PHCG
1/2X: SEE DEV SHEET 10, FIG 1, DETAIL A
SI-12X DWG. 110E059, SH3
LC-427 BX, LC-428DX (DWG. 110E074, SH4)

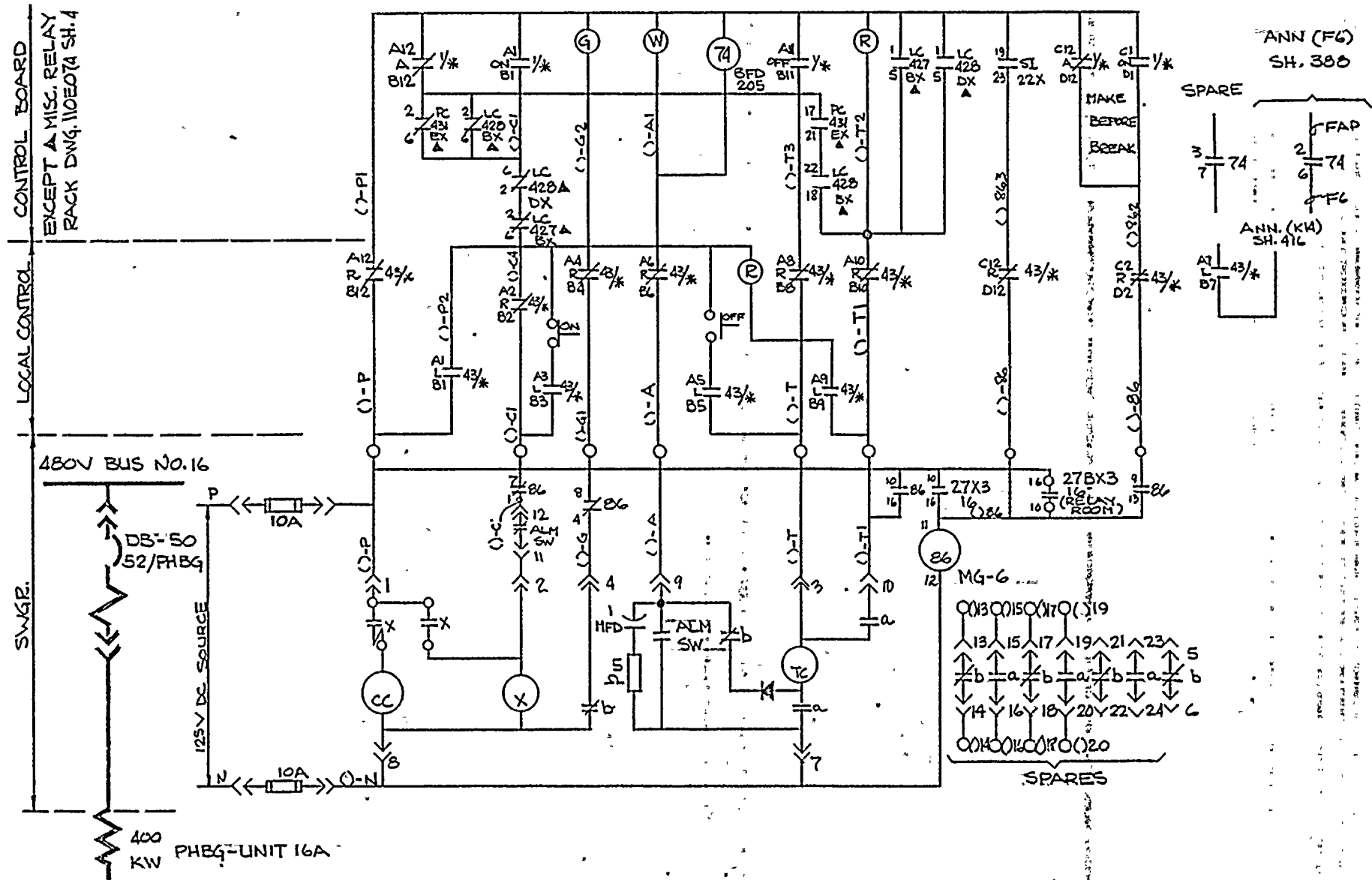


REV	DATE	BY	CHKD	DATE	BY	CHKD
1	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
2	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
3	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
4	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
5	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
6	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
7	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
8	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
9	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
10	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
11	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
12	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
13	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
14	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
15	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
16	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
17	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
18	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
19	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
20	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
21	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
22	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
23	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
24	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG

THIS DWG. SUPERSEDES WESTINGHOUSE DWG. 4993425, SH'89

REV	DATE	BY	CHKD	DATE	BY	CHKD
1	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
2	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
3	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
4	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
5	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
6	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
7	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
8	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
9	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
10	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
11	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
12	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
13	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
14	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
15	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
16	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
17	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
18	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
19	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
20	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
21	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
22	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
23	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG
24	7-12-76	PHCG	PHCG	7-20-76	PHCG	PHCG

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT No. 1	DATE	SCALE	APPROVED	FOLDER NO.	JOB NO.
ENGINEERING	ELEMENTARY WIRING DIAGRAM					
No. 10905-89	PRESS. HIR. CONT. GROUP					



NOTES:

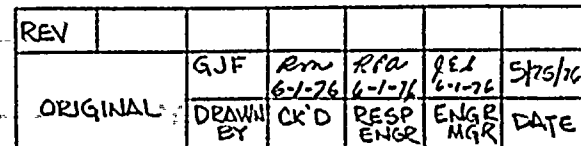
- S.I. 22X DWG. 110E059 SH. 3
- * = PHBG
- 1/* = SEE DEV. SHT. 11, FIG. 4, DETAIL C
- 43/* = SEE DEV. SHT. 329, FIG. 3, DETAIL 3
- ▲ = MISC. RELAY RACK, DWG. 110E074, SH. 4

THIS DWG. SUPERSEDES W. 499B425 SH. 90

REV'D	BY	CHK'D	RESP. ENGR.	ENG'R INGR	DATE
ORIGINAL	AW	RW	RFA	JES	4/27/6

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	DRWN	DATE	BY	SCALE	APPROVED	FOUNDER NO.	JOB NO.
ROBERT ENNETT GINNA NUCLEAR POWER STA. UNIT NO. 1 ELEMENTARY WIRING DIAGRAM PRESS. AIR BACKUP GROUP	TRACED						
	CHECKED						
	ENG.						

No. 10905-90



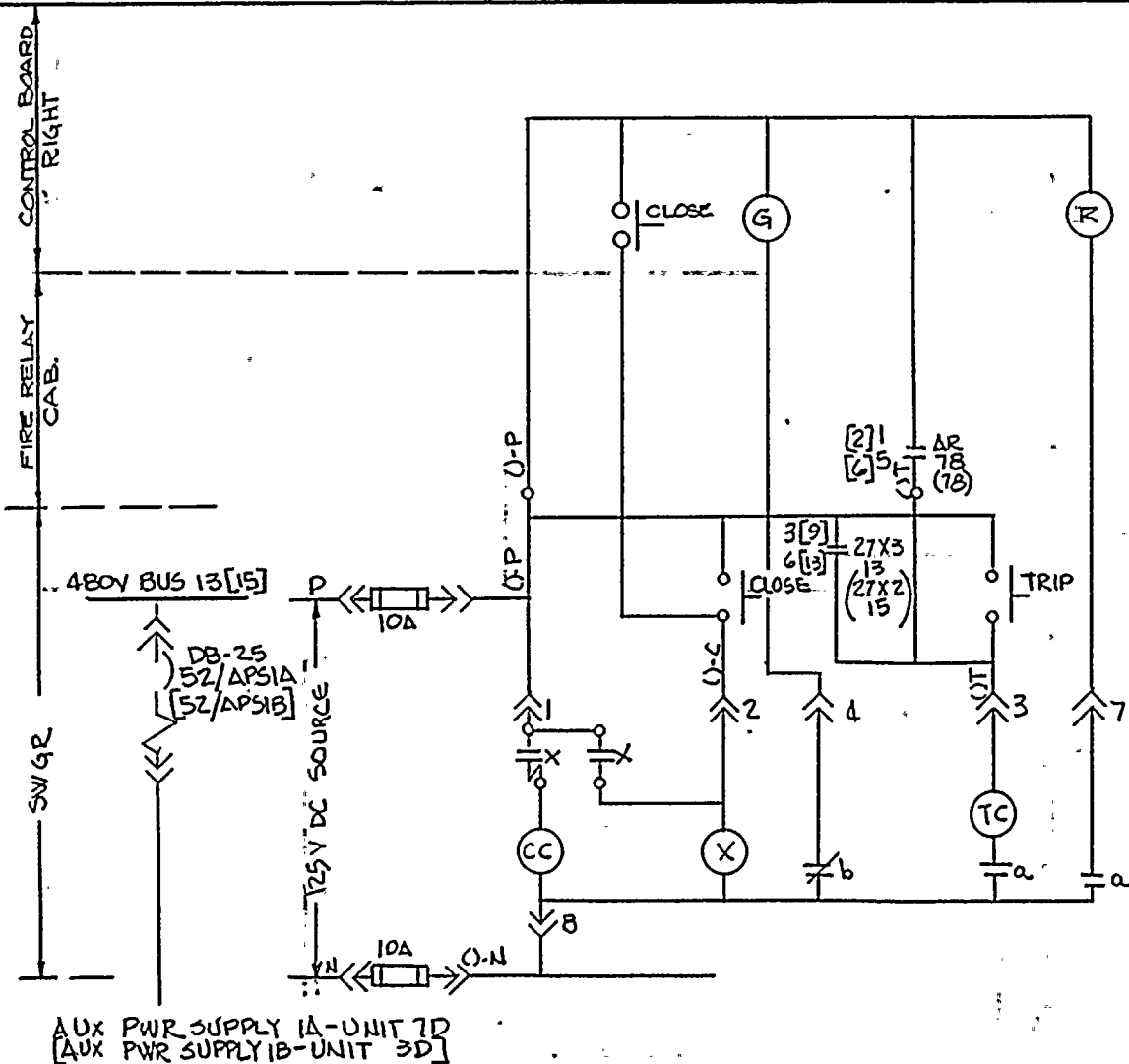
NOTE: THIS DRAWING SUPERSEDES WESTING HOUSE DRAWING - 499B425 SH. 92

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

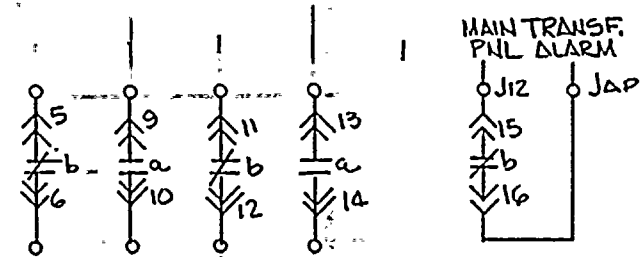
ENGINEERING DEPT
NO 100E-92

ROBERT EMMETT GINNA NUCLEAR POWER
STATION "UNIT No. 1"
ELEMENTARY WIRING DIAGRAM
TYPING ROOM, CRANE

OWN	BY	DATE	SCALE	NONE
TRACED			APPROVED	
CHECKED			FOLDER NO.	
ENG.			JOB NO.	



AUX PWR SUPPLY 1A-UNIT 7D
[AUX PWR SUPPLY 1B-UNIT 3D]

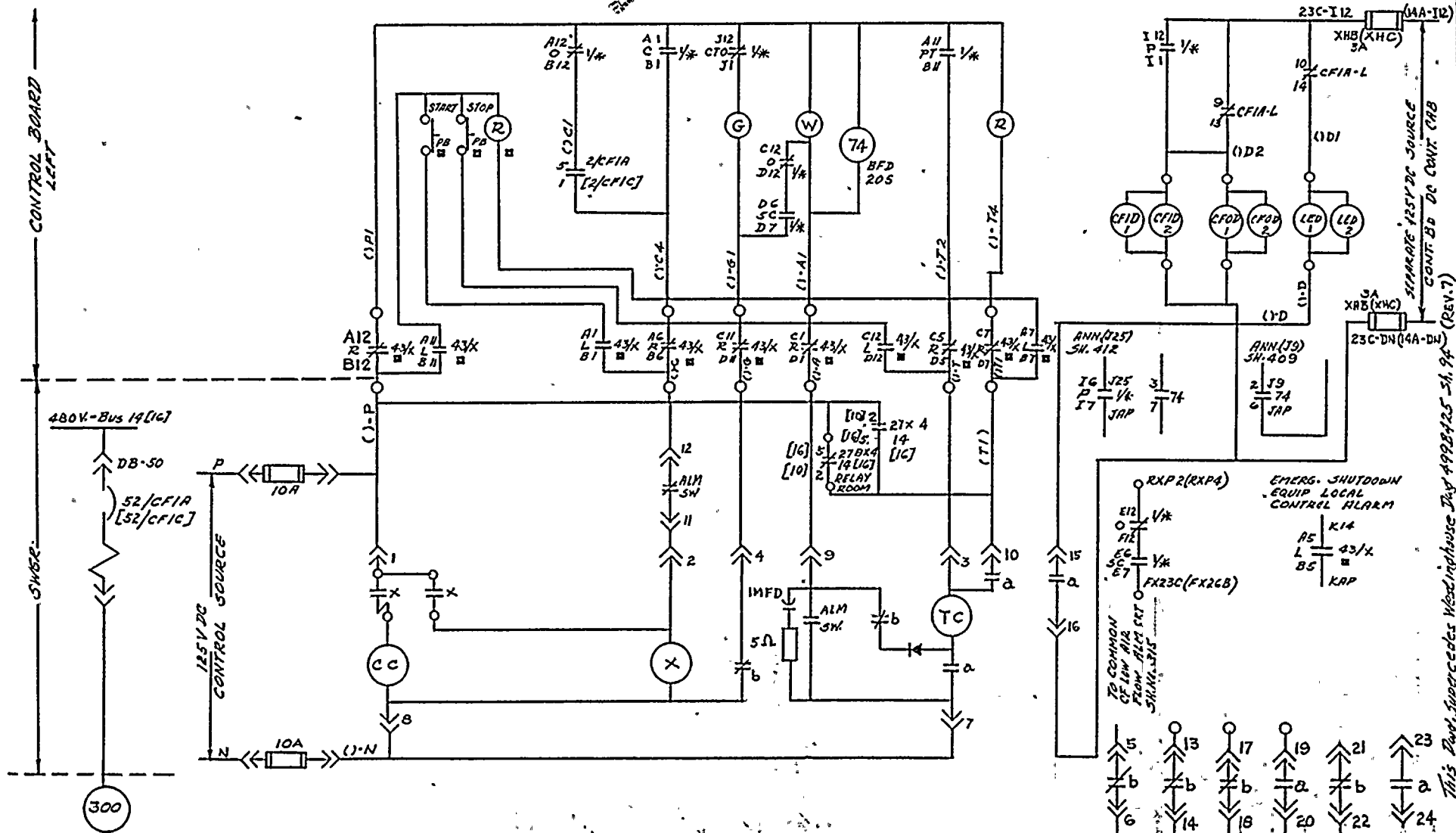


NOTE:
AR78-AUX RELAY ACTIVATED BY
FIRE DELUGE VALVE
OPERATION (SH.324)

REV	DATE	BY	CHKD	APPD	DATE
ORIGINAL	8-5-76	GJE	Rm	8-10-76	8/10/76
	6-1-76	CKD	RESP	6-1-76	5/25/76
		BY	ENGR	ENGR	DATE

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B425A1.93

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	DEPT ENGINEERING	NO. 10905-93/A
ROBERT SMITH GINNA NUCLEAR POWER STATION UNIT NO. 1	SCALE	DATE
ELEMENTARY WIRING DIAGRAM GEN-TRANS. AUX. PWR. SUPPLY 1A [1B]	APPROVED	BY
	FOUNDER NO.	DATE
	JOB NO.	DATE



CFIA-UNIT NO. 23C
CFIC-UNIT NO. 14C

NOTES:

- * 1/CFIA OR 1/CFIC
- CFID-CHARCOAL FILTER INLET
- SOLENOID DAMPER ENERG. TO CLOSE
- CFOD-CHARCOAL OUTLET SOLENOID
- DAMPER, ENERG. TO CLOSE

NOTES (CONT.)

- LED-LOOP ENTRY SOL. DAMPER, ENERG. TO OPEN
- 1/* - SEE DEV. SH. 11, FIG. 3, DETAIL A
- 43/X - TRANSFER SW. IN INTERMEDIATE BLDG. C11X, C12X, C21X, C22X, DWG. 110E059 SH. 5-2/CFIA, 2/CFIC DWG. 110E059 SH. 4
- △ CFIA-L SEE SH. 315

REV.	1	N.J.A.	Rm 1-13-77	ACK	RCM	1/28/77
ORIGINAL		N.J.A.	RHM 4/14/78	POK	RCM	6/1/78
		DRAWN BY	CK'D.	RESP. ENGR	ENG'R MGR.	DATE

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

DEPT

This Draft Supersedes Workinghouse Job 4928425 Sh. 94
ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT 1
ELEMENTARY WIRING DIAGRAM
CONTAINMENT FAN 1A 1C7

DATE

SCALE

APPROVED

FOLDER NO.

JOB NO.

REV.

TRACED

ENR'D

CHK'D

DATE

SCALE

APPROVED

FOLDER NO.

JOB NO.

REV.

TRACED

ENR'D

CHK'D

DATE

SCALE

APPROVED

FOLDER NO.

JOB NO.

REV.

TRACED

ENR'D

CHK'D

DATE

SCALE

APPROVED

FOLDER NO.

JOB NO.

REV.

TRACED

ENR'D

CHK'D

DATE

SCALE

APPROVED

FOLDER NO.

JOB NO.

REV.

TRACED

ENR'D

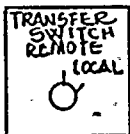
CHK'D

DATE

CONTROL BOARD
LEFT

43/*

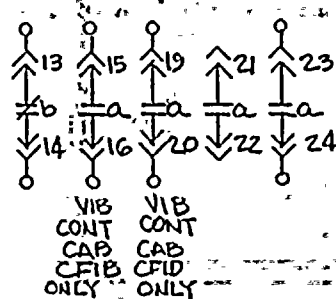
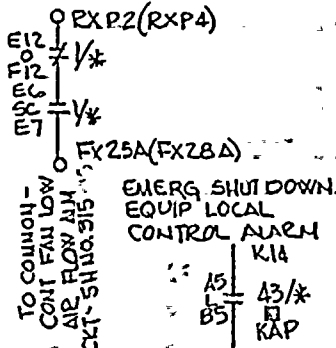
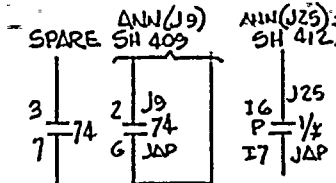
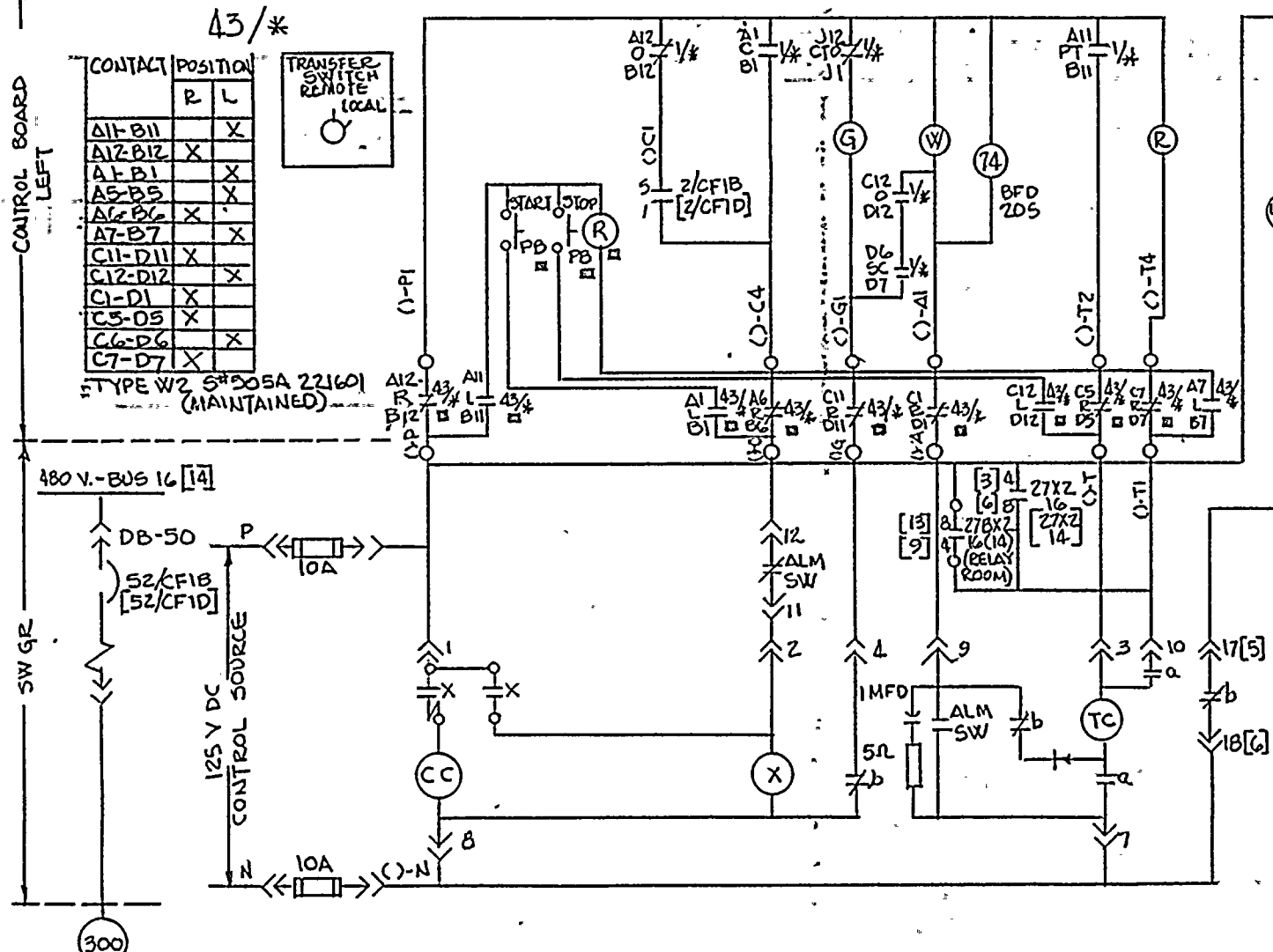
CONTACT	POSITION	R	L
A11-B11			X
A12-B12	X		
A1-B1			X
A5-B5			X
A6-B6	X		
A7-B7			X
C11-D11	X		
C12-D12			X
C1-D1	X		
C3-D3	X		
C6-D6			X
C7-D7	X		



TYPE W2 S#505A 221601
(MAINTAINED)

480 V.-BUS 16 [14]

125 V DC
CONTROL SOURCE



CFIB-UNIT NO 13C
[CFID UNIT NO 20C]

NOTES:
*CFIB (CFID)
1A - SEE DEV SH 11, FIG 3, DETA
43/* - SEE DEV THIS SHEET
3 - LOCATED IN INT BLOC
LED - LOOP ENTRY DAMPER SOLENOID
DE-ENERGIZE TO OPEN BWG 2146
2/CFIB, 1D-DWG 1106059 SH 4.

REV.					
ORIGINAL	GJF	Rm	REA	922	5/25/76
	DRAWN BY	CKD	RESP ENGR	ENGR MGR.	DATE

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B425 SH 95

ROBERT EMMETT GINJA
STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
CONTAINMENT FAN 18(D)

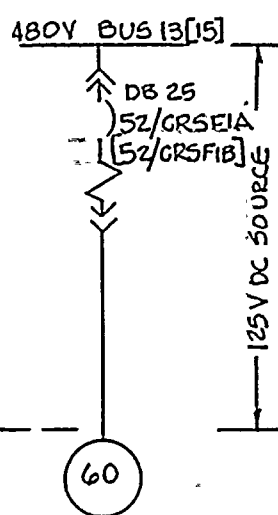
ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

NO. 10000-00

CONTROL BOARD
LEFT

SWGR

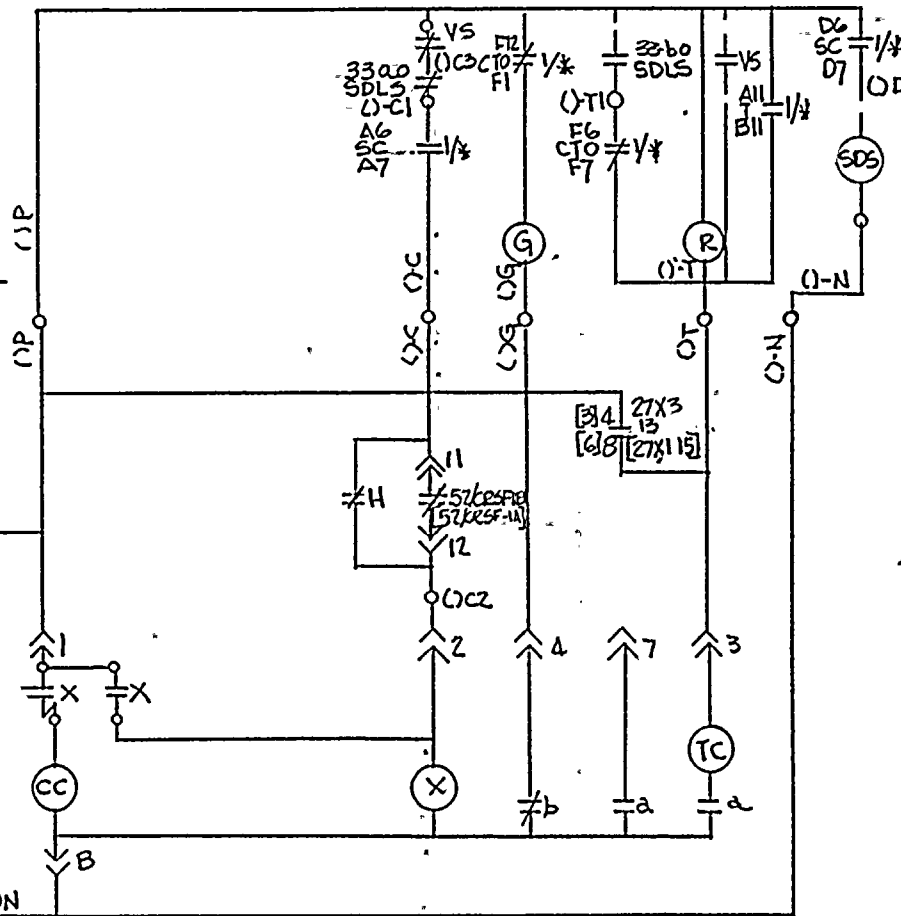


CRSFIA - UNIT 6C
[CRSFIB - UNIT 5C]

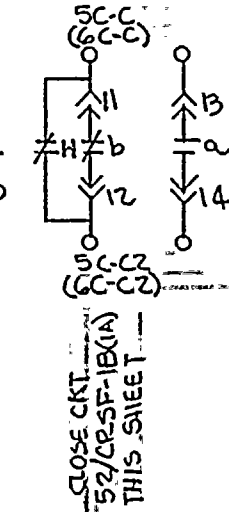
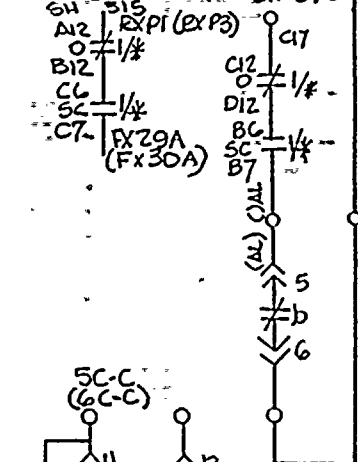
NOTES:

- * CRSFIA OR CRSFIB
- SDS - SUCTION DAMPER SOLENOID
- SDLS - SUCTION DAMPER LIM. SW.
- 1/2 - SEE DEV SH 10, FIG 1, DETAIL D
- VS - VIBRA SW CONTROL CONTACT SHOWN RESET

NOTE - THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425. SHEET. 96

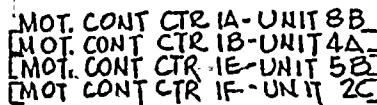


LOW AIR FLOW - ANN (C17)



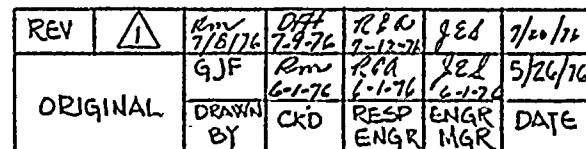
REV					
ORIGINAL	GJF 5-25-76 DRAWN BY	Rmv 6-1-76 CK'D	16A 6-1-76 RESP ENGR	8E8 6-1-76 ENGR MGR	6-1-76 DATE

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ENGINEERING	NO 10005-96
ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1 ELEMENTARY WIRING DIAGRAM CONT. BOP SHROUD COOL FAN 1A[B]	DATE	SCALE
DRAWN	APPROVED	FOLDER NO.
TRACED	CHECKED	JOB NO.
ENGR		



*-MCC 1A
MCC 1B
MCC 1E
MCC 1F

1/2 - SEE DEV SH.10, FIG.1, DET.A



NOTE-THIS DRAWING SUPERSEDES WESTING HOUSE
DRAWING NO. 499 B425 S157

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GIUNNA NUCLEAR

POWER STATION - UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
MOTOR CONT. CENTERS IN [B]

ENGINEERING

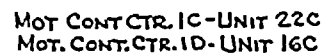
THE

DRAWN	TRACED	CHECKED	END.
-------	--------	---------	------

SALE	PROVED	LOER NO	S NO
------	--------	---------	------

SALE	PROVED	LOER NO	S NO
------	--------	---------	------

SALE	PROVED	LOER NO	S NO
------	--------	---------	------



*-MCCIC
MCCID
1/*-SEE DEV. SH.10

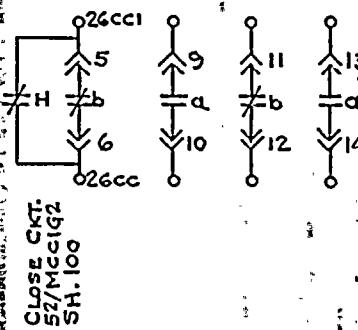
THIS DWG. SUPERCEDES WESTINGHOUSE
DWG. 499B425, SH 98 (REV. 6)

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT No. 1 ELEMENTARY WIRING DIAGRAM MOTOR CONTROL CENTER IC[10]
ENGINEERING	
NO 10005 00	

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

NO 10005-08



THIS DWG. SUPERCEDES WESTINGHOUSE
DWG 499B425, SH.99 (REV.6)

[illegible]

CONTROL BOARD
RT

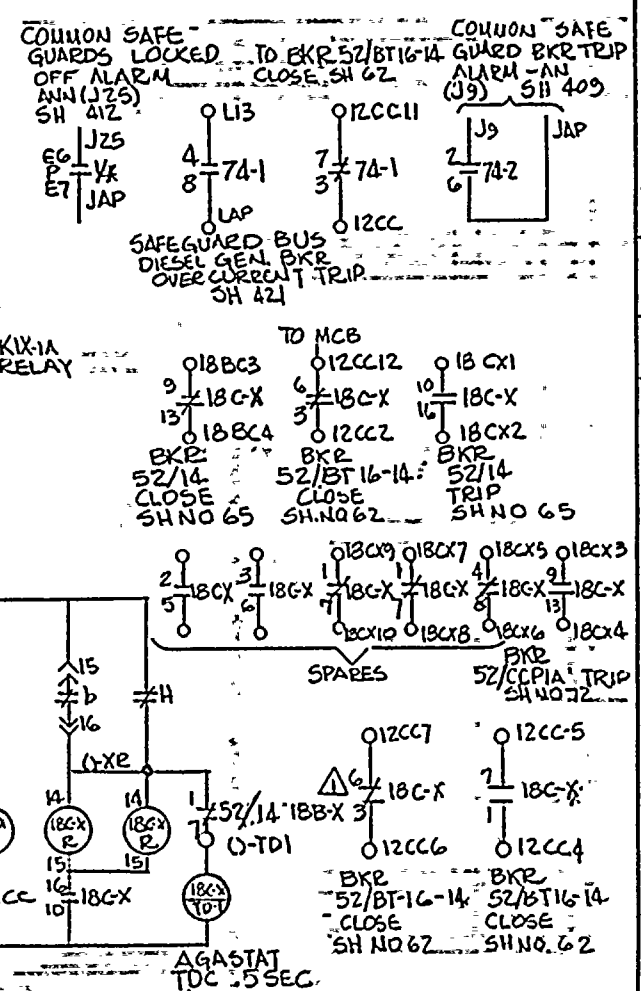
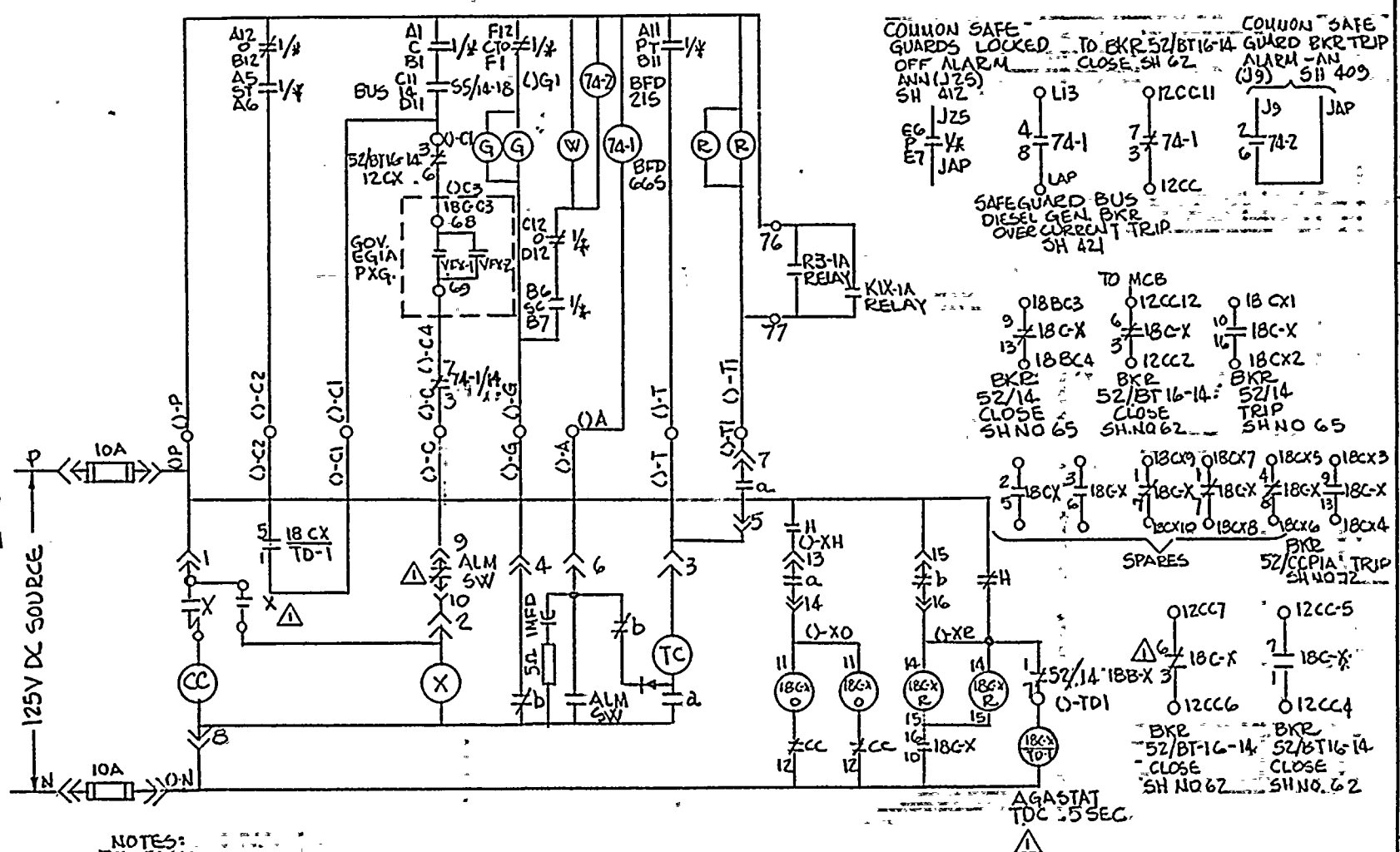
SWGR



EMERG GEN NO 1A UNIT 18C

- NOTES:
- *-EGIAI
 - SS-SYN SW/ SEE DEV. SH 10
 - R3-1A & KIX 1A SHUT DOWN
 - RELAY-SEE ALSO DWG. 59075 310620
 - 1/4-SEE SH 10, FIG 1, DET B

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499 B 425 SH.101



REV	DATE	BY	CHKD	APP'D	DATE
1	7/18/76	GJF	RWA	REL	7/24/76
2	6-1-76	CRD	RES	ENGR	5/26/76
3					
4					
5					
6					
7					
8					
9					
10					

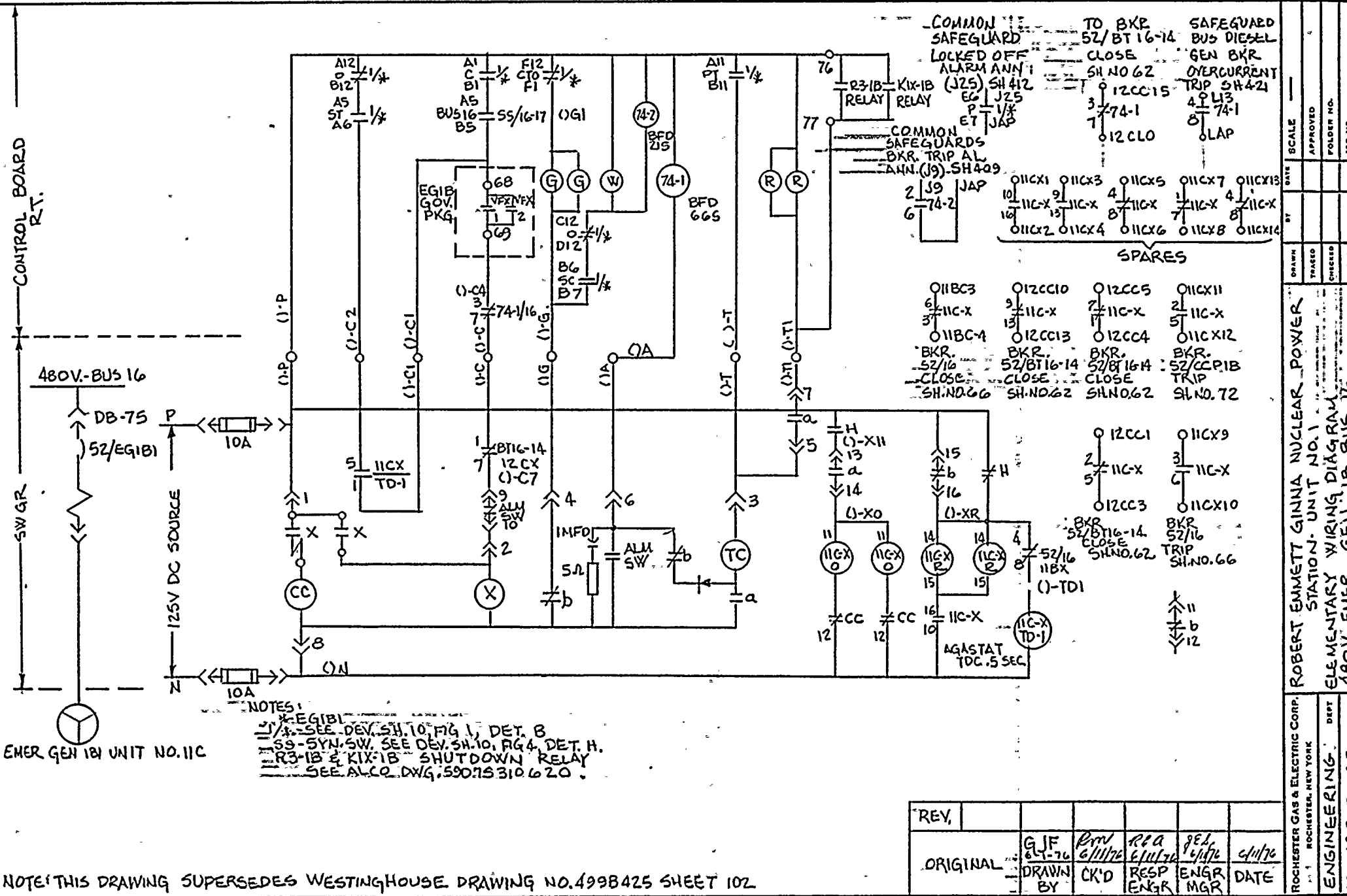
DATE	SCALE	APPROVED	FOLDER NO.	JOB NO.
DATE	BY	DRAWN	TRACED	CHECKED
ROBERT EMERIT GINNA NUCLEAR POWER				
STATION UNIT NO 1				
ELEMENTARY WIRING DIAGRAM				
480 V EMER. GEN. 1A BUS 14				
ROCHESTER GAS & ELECTRIC CORP.				
ROCHESTER, NEW YORK				
ENGINEERING				
NO 10006-101				

CONTROL BOARD
R.T.

SW GR

EMER GEN 1B UNIT NO. 11C

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B425 SHEET 102



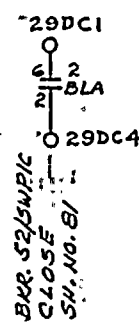
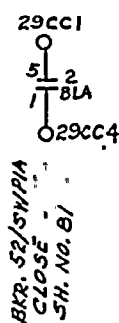
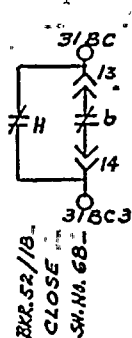
REV.					
ORIGINAL	GJF	Rm	RCA	JEL	
DRAWN BY	6/1/76	6/1/76	6/1/76	6/1/76	6/1/76
	CK'D	RESP	ENGR	ENGR	DATE

SCALE	DATE	BY	DATE	APPROVED	FOLDER NO.	JOB NO.
ROBERT EMMETT GINNA NUCLEAR POWER STATION - UNIT NO. 1						
ELEMENTARY WIRING DIAGRAM						
480V EMER. GEN. 1B BUS 16						
ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK						
ENGINEERING						

CONTROL BOARD RT.

EMERG. GEN. 1A2 - UNIT NO. 31C

- NOTES**
- * EGIA2
 - 1/4" - SEE DEV. SH. 10, FIG. 1, DETAIL B
 - S3-SYN. SW. SEE DEV. SH. 10, FIG. 1, DETAIL G
 - R3-1A & KIX-1A SHUTDOWN RELAY ALSO DWG. 5907S310 620
 - 2/3LA - TIME DELAY PICKUP RELAY TO START SERVICE WATER PUMP
 - S11X SEE DWG. 110E059 SH. 3



REV.	DEF.	DATE	BY	CHK'D	DATE	BY	CHK'D	DATE
ORIGINAL	N.J.A.	8/16/76	CK'D	RES	8/16/76	ENGR.	ENGR.	DATE

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

NO 10905-103A

THIS DWG. SUPERCEDES WESTINGHOUSE DWG NO. 499B425 SH. 103

ROBERT EMMETT GINNA NUCLEAR POWER STA

UNIT NO. 1

ELEMENTARY WIRING DIAGRAM

480V EMERG. GEN. 1A BUS 1A

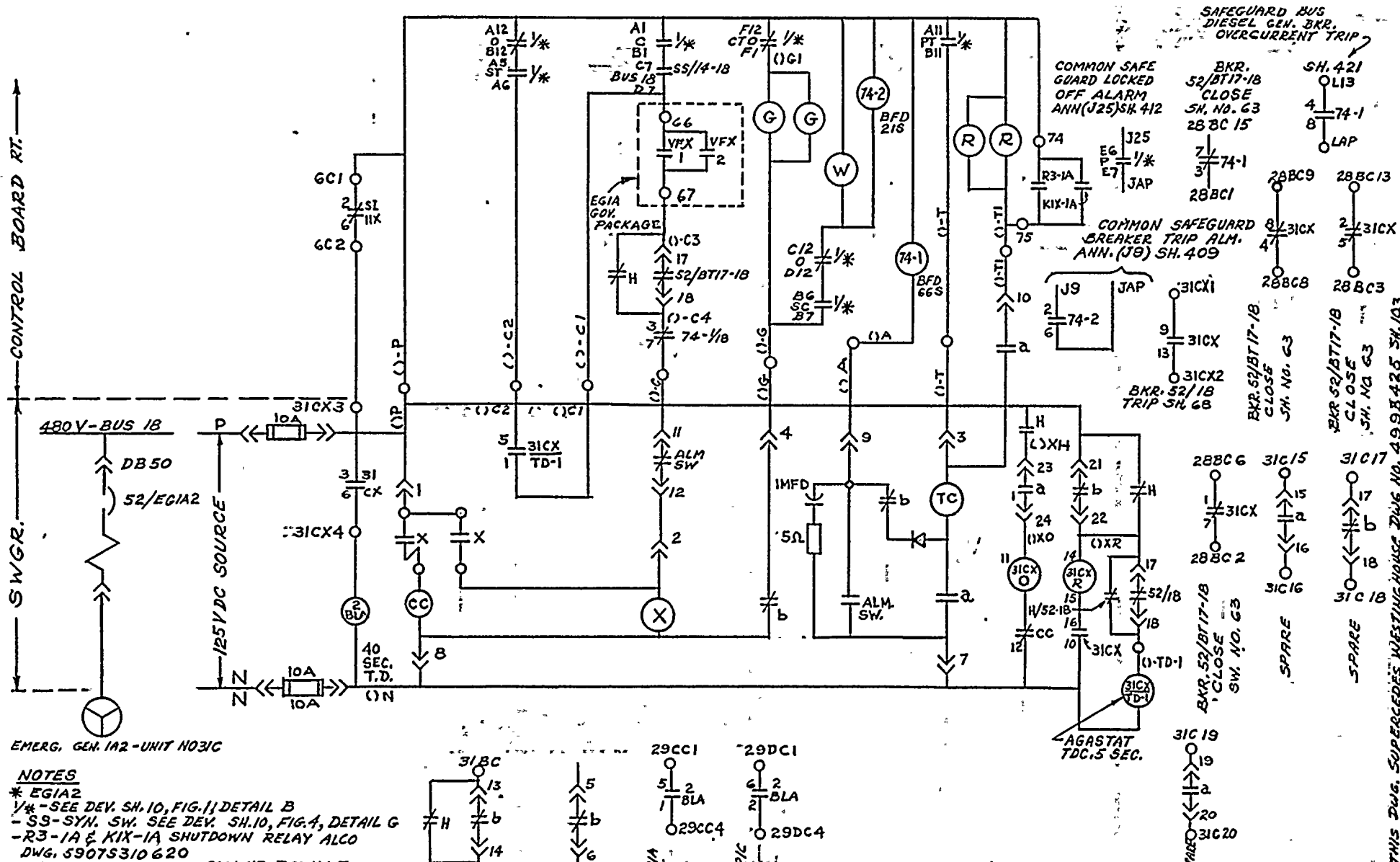
SCALE 1/2"

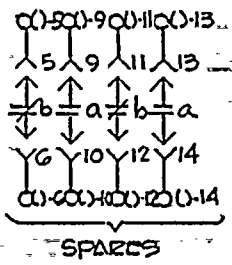
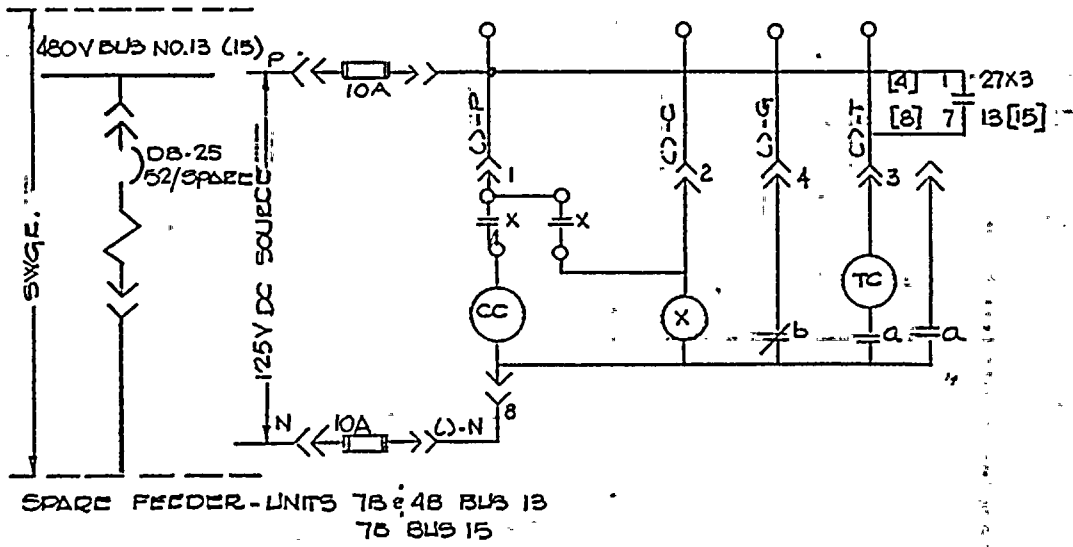
DATE 8/16/76

APPROVED

FOLDER NO.

JOB NO.

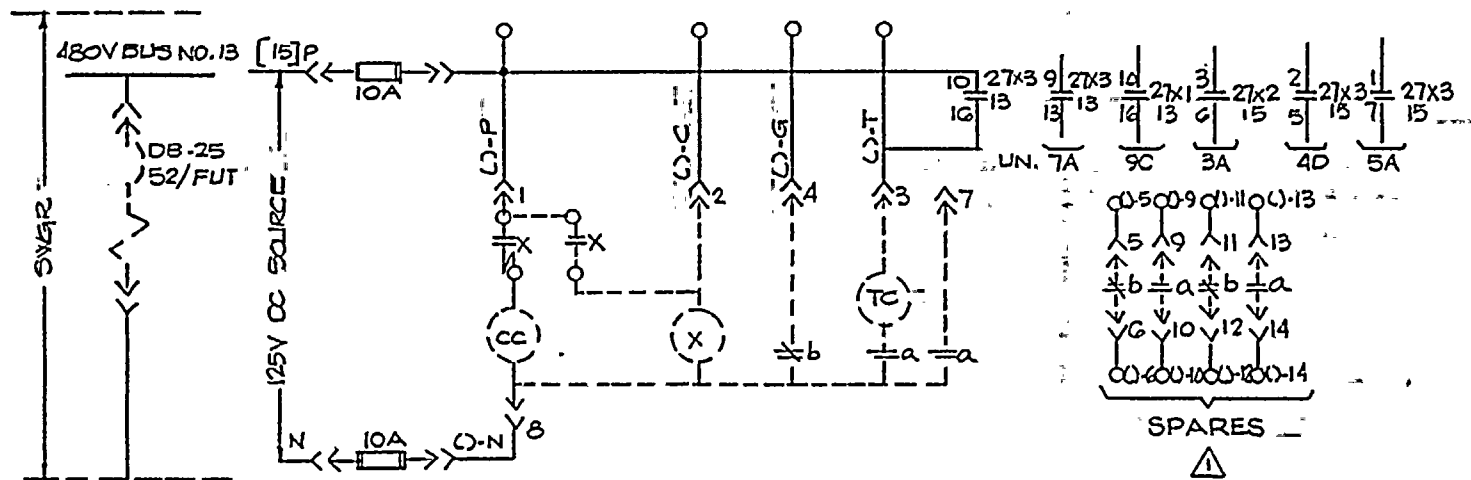




THIS DWG. SUPERSEDES WESTINGHOUSE DWG. #499B425 SHEET 105

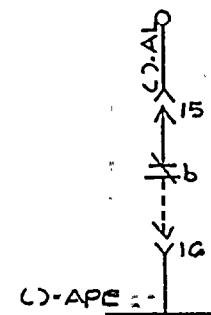
REV.						
ORIGINAL	Drawn By	CK'D	RES. 4-8-74	QES	4-8-74	DATE

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMMETT GIUNA UNIT NO. 1	DATE 4-8-74	SCALE 1/2"
ENG'R	TRACED	BY D.H.	APPROVED
NO. 10905-105	CHECKED	ENG.	FOLDER NO.
			JOB NO.



FUTURE FEEDER-UNIT 6D, 7A, 9C, [3A], [4D] & [5A]

THIS DWG. SUPERSEDES WESTINGHOUSE DWG #499B425, SHEET-107



REV.	DATE	BY	CHK'D	APP'D	DATE
1	7/24/72	RKW	OKH	RPA	7/24/72
2	4-8-72	RKW	OKH	RPA	4-8-72
3		REOP	ENG'G	ENG'G	
4		MAN'G	MAN'G	MAN'G	

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENG'R. DEPT
No. 10905-107

ROBERT EMMETT GINNA NUCLEAR POWER STA.
UNIT NO. 1

ELEMENTARY WIRING DIAGRAM

FUTURE FEEDER-BUS NO. 13 & 15

DRAWN BY

CHECKED

ENG.

DATE

SCALE

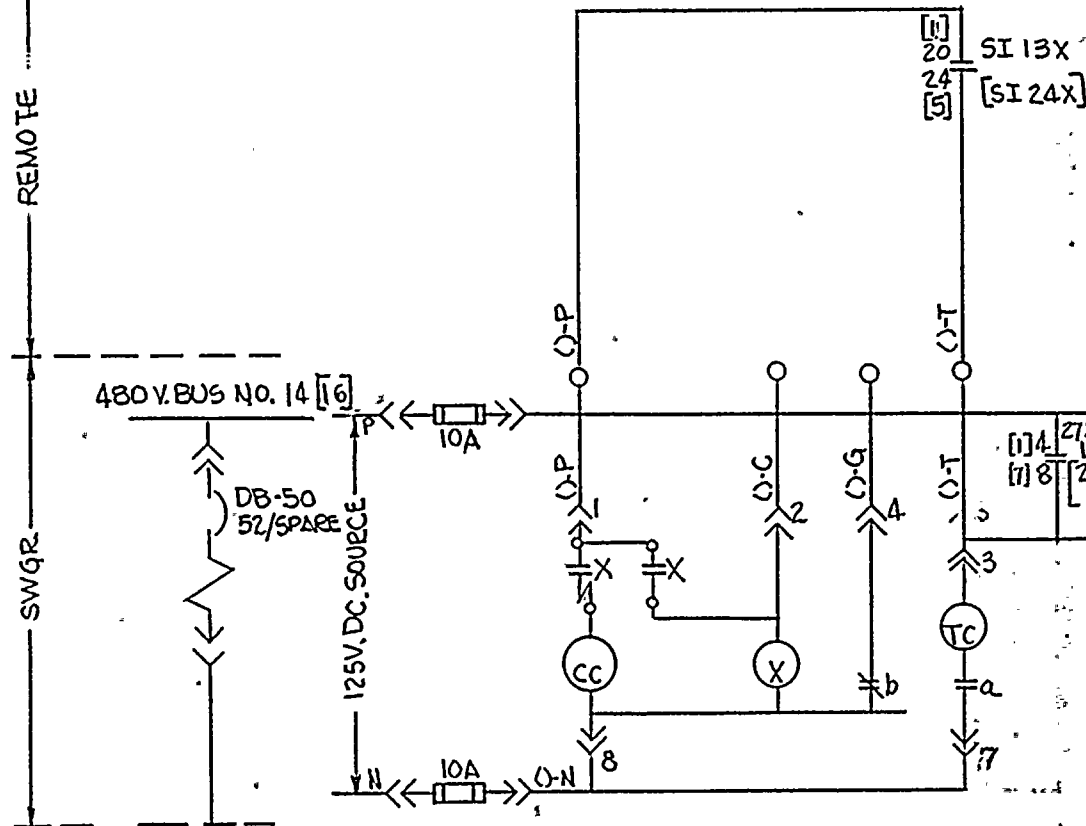
APPROVED

FOLDER NO.

JOB NO.

REMOTE

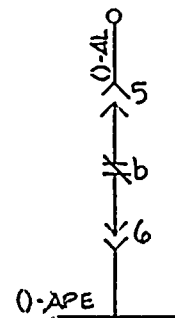
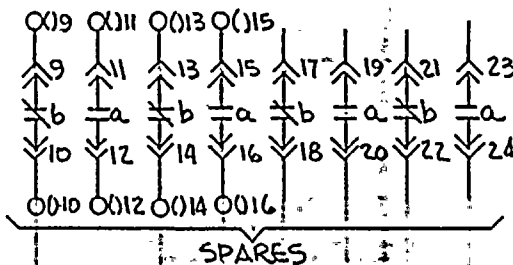
SWGR



SPARE FEEDER-UNITS 21A & [17A]

NOTE:

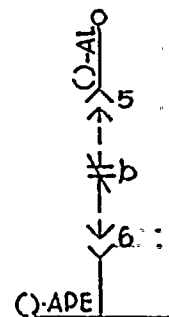
SI13X SI24X DWG 110E059 SH3



REV	DATE	BY	CHKD	APP'D	DATE
ORIGINAL	8/17/76	GJF	CKD	RES	9/12/76
	8/11/76	RES	ENG R	ENG R	5/28/76

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B425 SH10B


ROCHESTER GAS & ELECTRIC CORP.	ROBERT EMMETT GINNA	DATE	SCALE	APPROVED	FOLDER NO.	JOB NO.
ENGINEERING	STATION UNIT NO. 1					
	ELEMENTARY WIRING DIAGRAM					
	SPARE FEEDER BUS NO. 14.16					



THIS DRAWING SUPERCEDES WESTINGHOUSE
DRAWING 499B425 SHEET 110 REV. 4

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMMETT GUNNA NUCLEAR POWER STATION UNIT NO. 1	DRAWN	BY	DATE	SCALE
ENGINEERING	ELEMENTARY WIRING DIAG.	TRACED			APPROVED
No. 10905-110	FUTURE FEEDER BUS NO. 14, F-16	CHECKED			FOLDER NO.
		ENG.			JOB NO.

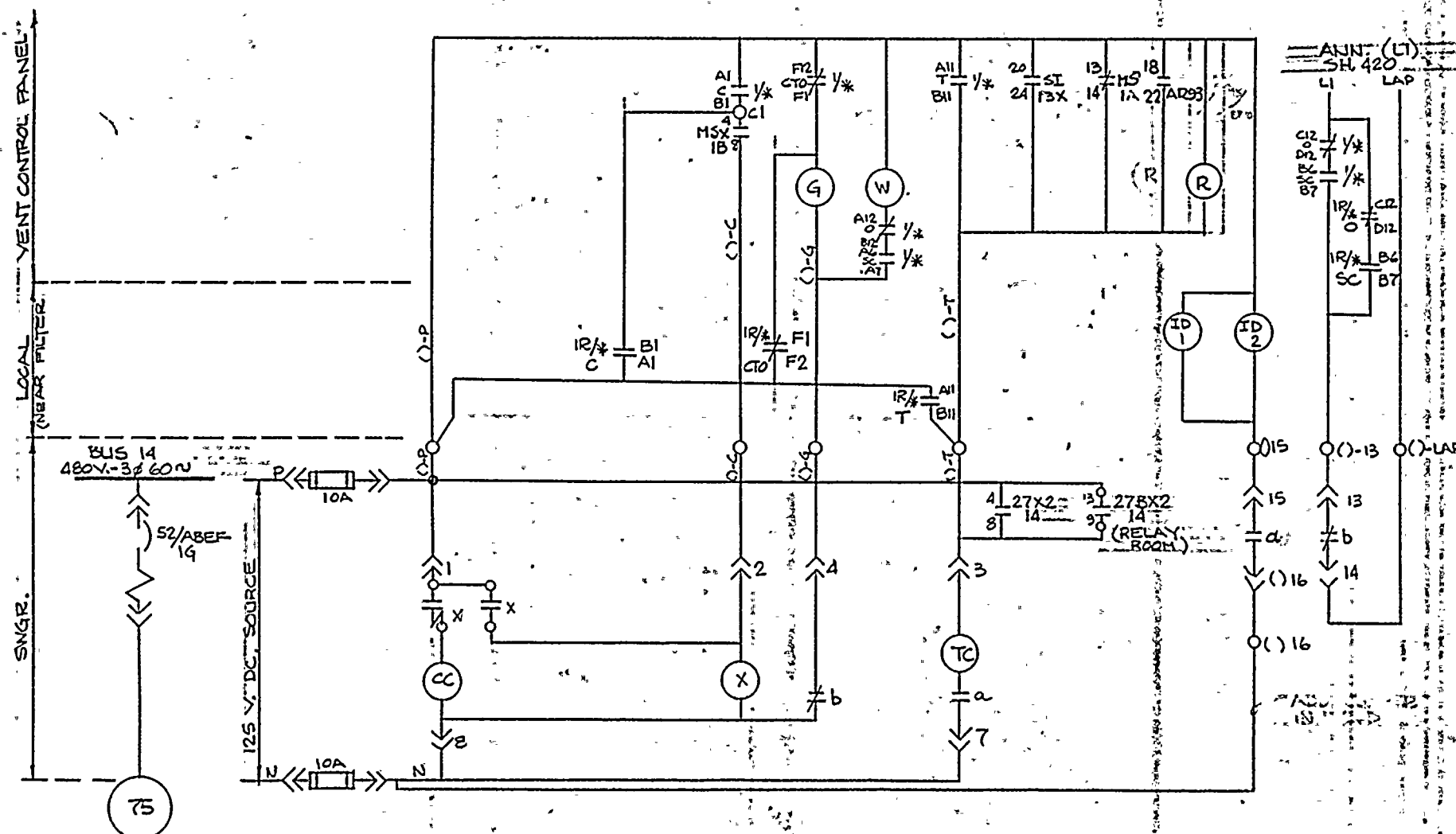


- REV.		Rmt	DFH	KPA 7-1-76	9 E L	7/24/76
Original		ASM down by	Rmt ck'd	RELL resp. eng'r	9 E L eng'r main't	11-6-76

ROCHESTER GAS
ROCHESTER

ENGINEER

No. 10905



*ABEF-1G=UNIT 21A

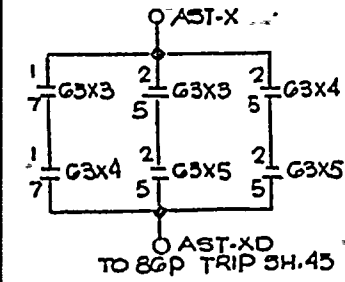
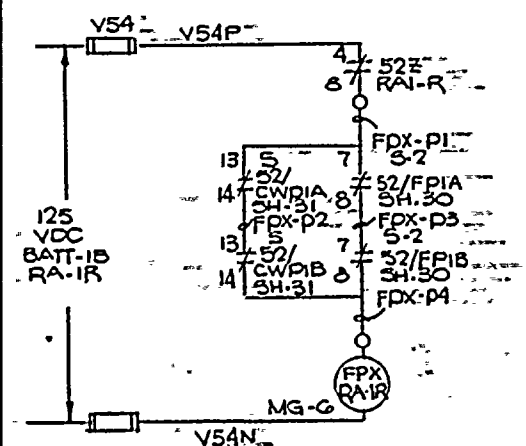
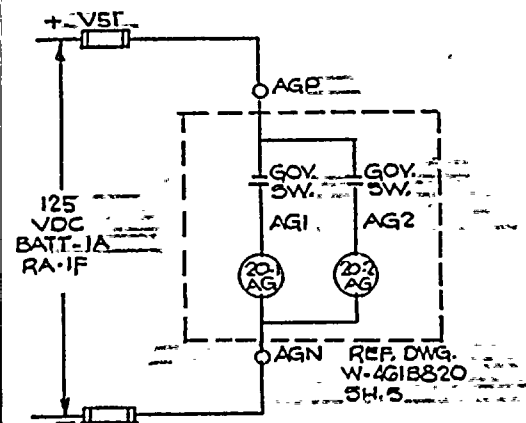
THIS DWG. SUPERSEDES W 499B425 SH.112

NOTE

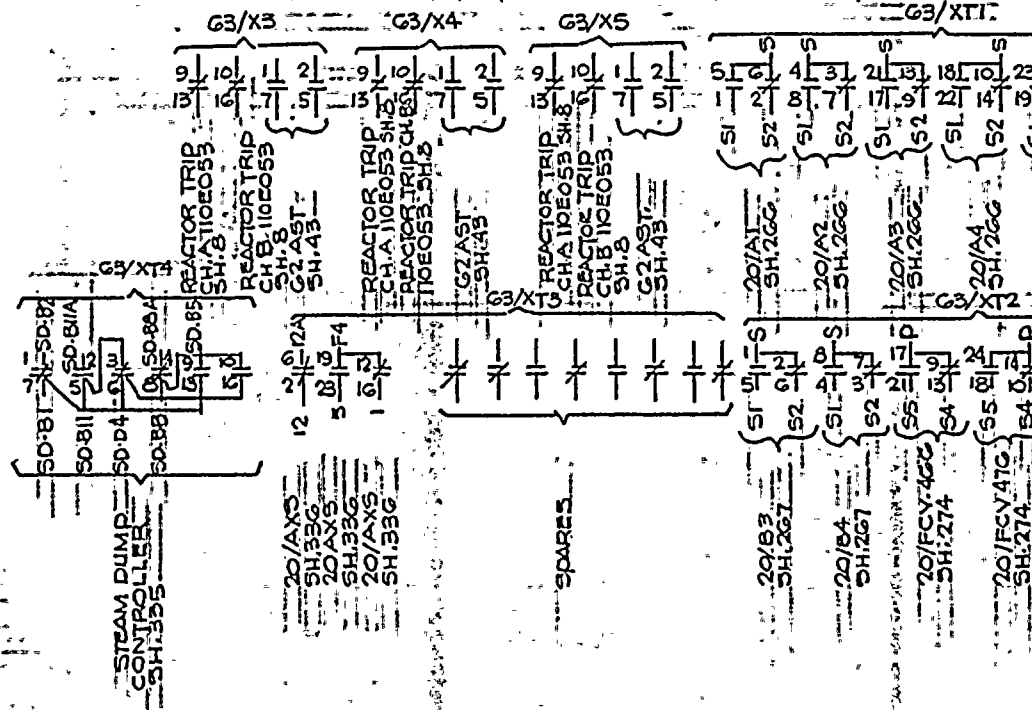
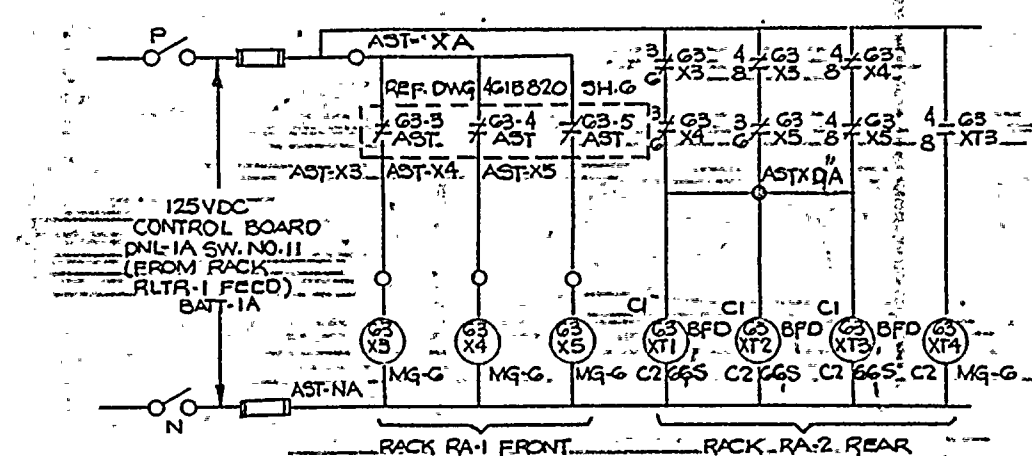
- ① SI-13X ② DWG. 110E059 SH.13
 - ③ MSX-1A RELAY SEE SH.319
 - ④ ID-1 - INLET DAMPER TO NEW FILTER (WAS SUCTION DAMPER FOR ABEF-1D) SH.197
 - ⑤ ID-2 - INLET DAMPER TO NEW FILTER (WAS SUCTION DAMPER FOR ABEF-1E) SH.189
 - ⑥ 1/2 SEE SW. DEV. FIG. #1 SH.10 NAMEPLATE DETAIL 'C'
 - ⑦ AR-9A: SEE SHEET 112 FOR OPERATION ON FLIP, NO. 1
 - ⑧ IR/4 - REMOTE CONTROL SWITCH SEE SW. DEV. FIG. #1, SH.10
- BOTH ENERGIZE TO OPEN-FAIL CLOSED ON LOSS OF AIR OR ELECTRIC POWER

REV.	DATE	BY	CHKD	ENGR	DATE
1	12-76	DH	DM	WDB	1-6-77
2	1-1-77	DH	DM	WDB	5/19/77
3	5/14/76	AN	CKD	WDB	1/21/76
4	7/19/76	AN	CKD	WDB	1/21/76
5	9-2-76	AN	CKD	WDB	1/21/76
6	9-2-76	AN	CKD	WDB	1/21/76
7	9-2-76	AN	CKD	WDB	1/21/76
8	9-2-76	AN	CKD	WDB	1/21/76
9	9-2-76	AN	CKD	WDB	1/21/76
10	9-2-76	AN	CKD	WDB	1/21/76

ROBERT EMMETT GINNA NUCLEAR POWERS STATION UNIT NO. 1 ELEMENTARY WIRING DIAG. AUX. BLDG. EXHAUST FAN 19	DATE	BY	SCALE	APPROVED	FOLDER NO.	JOB NO.
ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	DEPT	NO. 10905-112/A				



6 AST(4) ET(4) FDX-1
 4 FDX(3) ET(1) FDX-2
 20AST 20ET SPARE
 SH.115 SH.115



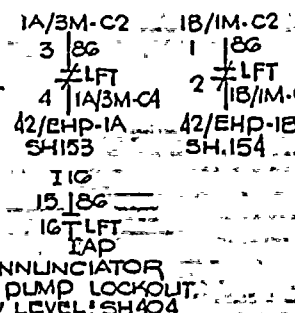
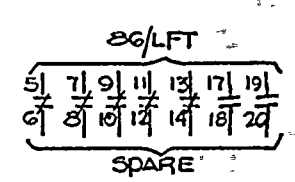
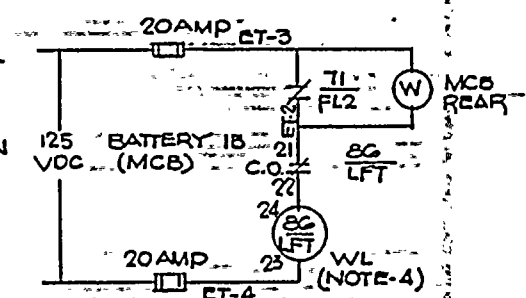
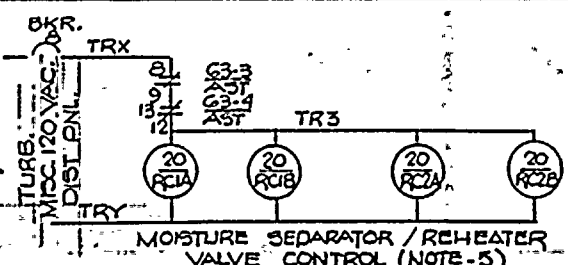
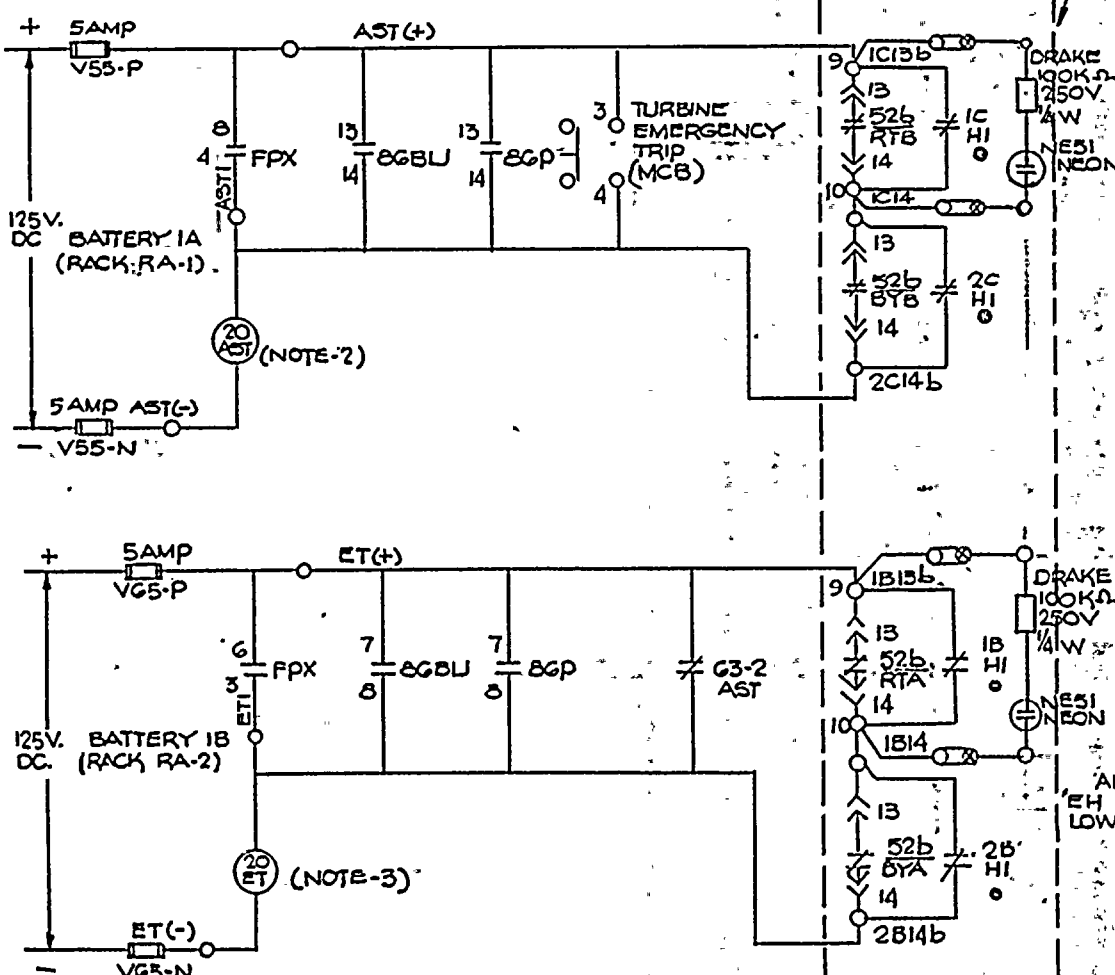
O-OUTGOING TERMINAL POINT FROM AUX. RELAY RACK
 - G3-3 AST G3-4 AST G3-5 AST CLOSE ON AUTO STOP
 OIL PRESS, DECREASE TO 45 PSIG.

THIS DWG. SUPERCEDES WESTINGHOUSE DWG. NO. 499B425-114

REV.					
ORIGINAL	DEF.	8/17/66	RFA	9/22/66	7/23/66
	DRAWN BY	CKO	RESP. ENGR.	ENGR. MANQ.	DATE.

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ENG'R	DEPT	NO. 10905-114	DATE	SCALE	APPROVED	FOLDER NO.	JOB NO.
ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1 ELEMENTARY WIRING DIAGRAM TURBINE TRIP AUX. RELAY								

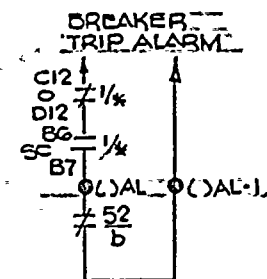
TURBINE AUTO STOP TRIP



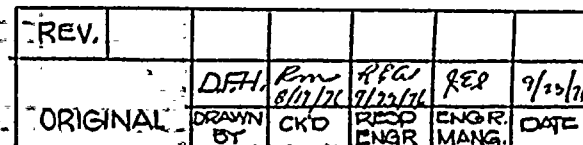
- NOTES:
1. HI - POSITION (CELL) SWITCH SHOWN WITH BKR IN TEST POSITION OR DISCONNECTED
 2. 20AST - TURBINE AUTO STOP TRIP SOLENOID W-4618820 SH.6
 3. 20ET - TURBINE EMERGENCY TRIP SOLENOID W-4618820 SH.5
 4. 8G/LFT - E-H SYSTEM LOW FLUID LEVEL LOCKOUT RELAY W-4618820 SH.5
 5. 20/R2A, 1B, 2A, 2B - REHEATER CONTROL VALVE SOLENOIDS W-4618820 SH.10
 6. 8GP, 8GBU - PRIMARY & BACKUP LOCKOUT RELAYS SH.42 & 43
 7. 71/FL2 - E.H. RESERVOIR LOW FLUID LEVEL SW. W-4618820 SH.5
 8. 63/AST - AUTO STOP PRESS SWITCH W-4618820 SH.5 CLOSE ON PRESS DEC.

O-OUTGOING TERMINAL POINT FROM AUX RELAY RACK
THIS DWG SUPERCEDES WESTINGHOUSE DWG NO. 499B425-115

REV.	DATE	BY	CHK'D	ENGR.	DATE
ORIGINAL	DFH	9/12/76	9/12/76	JEL	9/12/76
	DRAWN BY	CK'D	RESP. ENGR.	ENGR. MANG.	DATE



*-1G13A72, 9X13A72
1/4-W2 CONTROL SW. DEV. 3H.10, FIG.1 DET. A
(MOUNTED ON PLANT MAIN CONTROL BD)
6- WIRES FROM 13A TO PLANT
- 52/1G13A72 SHOWN (52/9X13A72 SIMILAR)
- RELAYS 522, 522A, 522B ENERGIZE
WHEN MAIN BKR. OPENS.
55- SYNCH. SW. DEV. 3H.11 FIG.2, DET. G
41- FIELD BREAKER,



THIS DWG. SUPERCEDES WESTINGHOUSE DWG. NO. 4998425-116

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

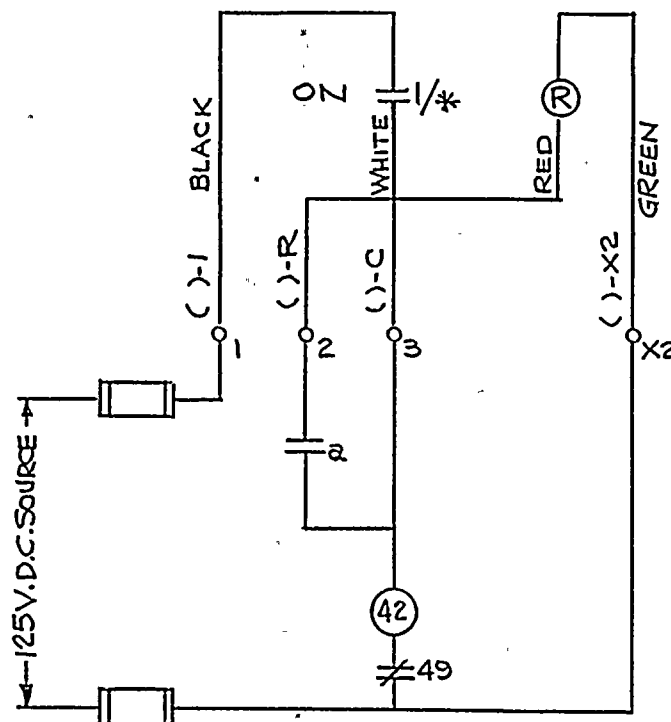
ROBERT EMMETT GINNA NUCLEAR
POWER STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
LEVEL BREAKPOINT DELTA

BY	DATE	SCALE
		APPROVED
		FOLDER NO.
		JOB NO.



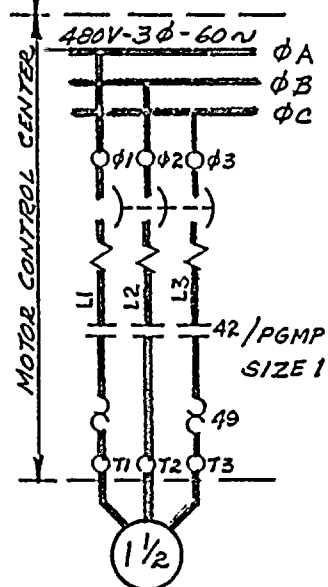
* ON-OFF SELSW. LOCATED AT BATCH TANK

THIS DWG. SUPERCEDES DWG.No.499B425
SH.117 (No REV.)

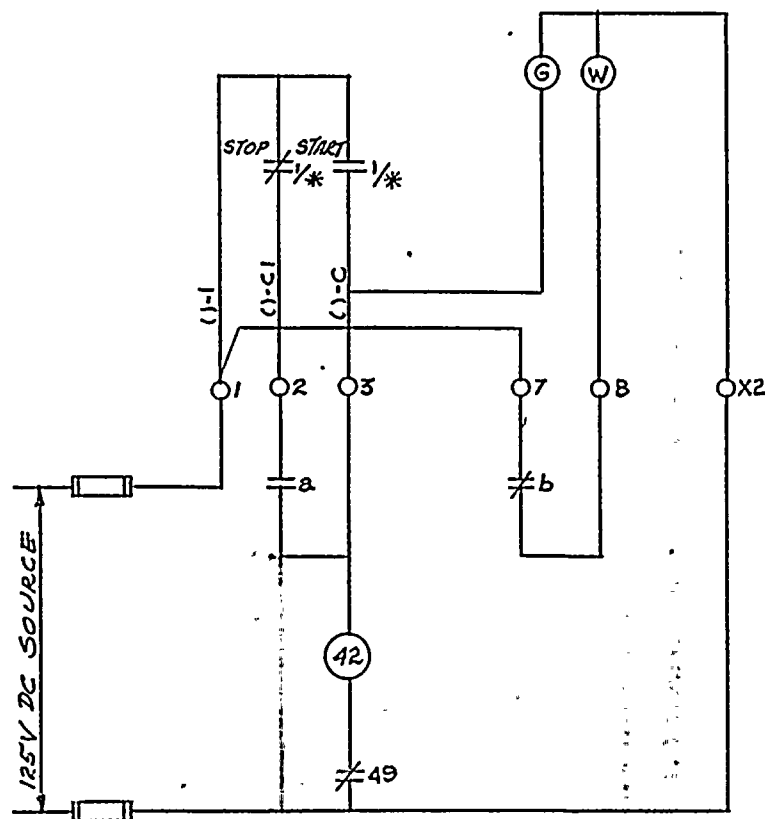





ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	REV.	ORIGINAL				DRAWN <u>g. h. h.</u> <u>9/14/75</u> <u>PHM</u> BY <u>OK'D.</u> <u>9/14/75</u> <u>OK'D.</u> RESP. <u>ENG'R.</u> EUG'R. <u>MGR.</u>	DATE <u>6/5/75</u>
ENGINEERING DEPT	ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT. No 1 ELEMENTARY WIRING DIAGRAM BOPIC ACID BATCH TANK TRANSFER PUMP						
117	SCALE NONE APPROVED FOLDER NO. FOR NO.						

MOTOR CONTROL CENTER



PGMP UNIT NO. 1C/5B



CONTACT BLOCK	CIRCUIT POSITION	
	L	R
1 ST BLOCK (FRONT) ROTATED 180° TYPE DT2A		
	OPERATOR DT2VG 3 POSITION SPRING RETURN TO NEUTRAL	

1/*

NOTE :

2* PGMP

THIS DWG. SUPERSEDES WESTINGHOUSE DWG. 499B425 SH.119

REV

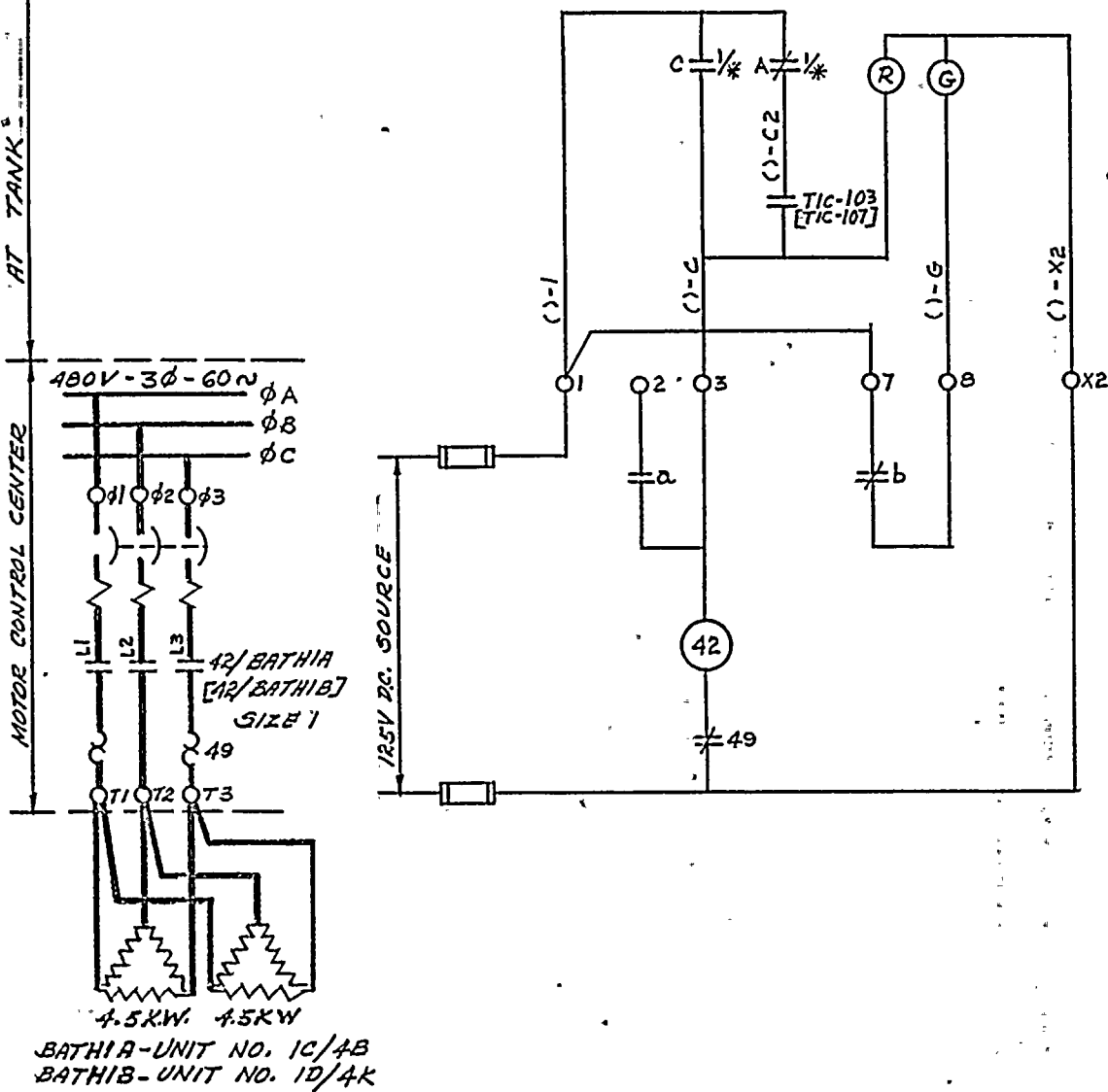
ORIGINAL

ROBERT EMMETT GINNA NUCLEAR POWER STAR
UNIT 1 - ELEMENTARY WIRING DIAGRAM
AUXILIARY BUILDING AIR VENT
PARTICULATE & GAS MONIT PUMP

ROCHESTER GAS & ELECTRIC CORP.	DEPT
ROCHESTER, NEW YORK	ENGINEERING
	NO 1080F-119

MOTOR CONTROL CENTER

AT TANK



THIS DWG SUPERSEDES WESTINGHOUSE DWG. 499B725 SH. 120

REV.	DATE	BY	CHK'D.	ENGR.	DATE
ORIGINAL		NJA, 7/19/76	RES.	ENGR.	7/19/76

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

UNIT NO. 1

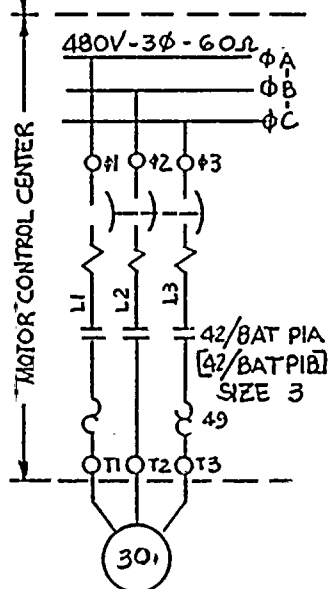
ELEMENTARY WIRING DIAGRAM

BORIC ACID TANK 1A & 1B HEATERS

NO. 10905-120

CONTROL BOARD

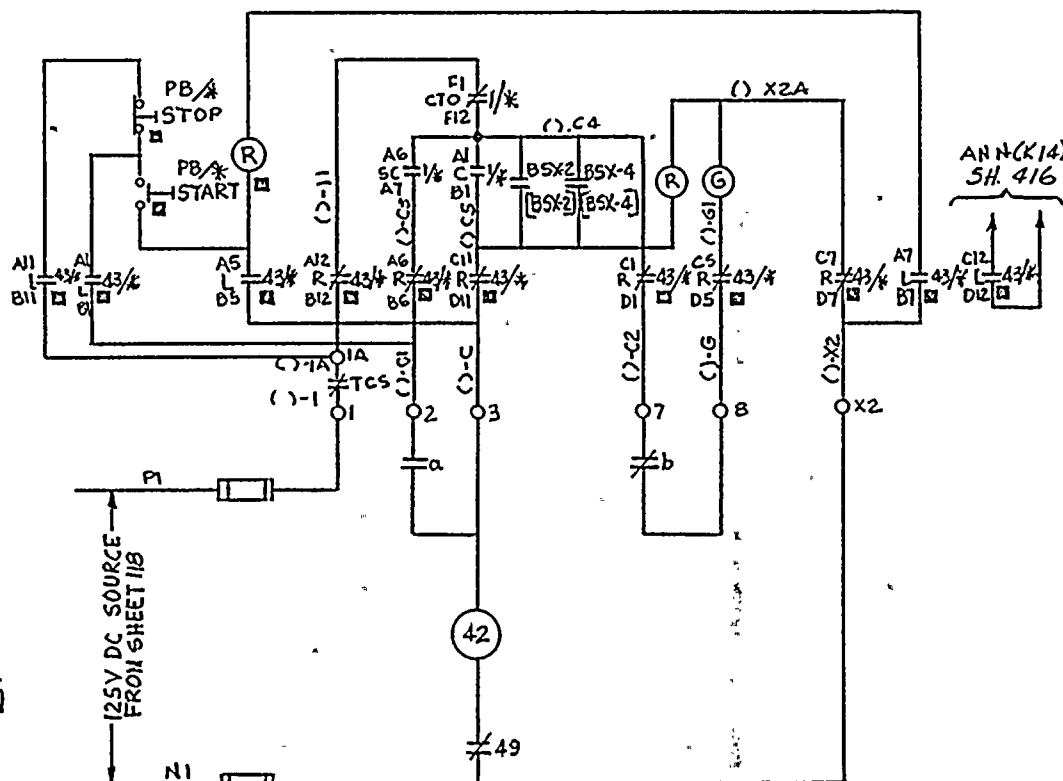
MOTOR CONTROL CENTER



BATPIA-UNIT NO. 1C/1F
[BATPIB-UNIT NO. 1D/2F]

NOTES:

TCS-THERMAL CUTOUT SW. LOC. IN MTR.
BSX-2 & BSX-4 SEE SHEET-330
*BATPIA OR BATPIB
Z1-LOCATED AT MOTOR
V/*-SEE DEV. SHEET-10, FIG. 1, DETAIL D
43/* SEE SWITCH DEV. THIS SHEET



43/*

CONTACT	POSITION	
	R	L
A11-B11		X
A12-B12	X	
A1-B1		X
A5-B5		X
A6-B6	X	
A7-B7		X
C11-D11	X	
C12-D12		X
C1-D1	X	
C5-D5	X	
C6-D6		X
C7-D7	X	

TYPE W2 5'505A 221601
(MAINTAINED)



REV.						
ORIGINAL	GJF	Ruv	REU	921	4-8-74	
	DRAWN BY	CK'D	RESP ENG'R	ENG'R MGR	DATE	

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

NO. 10905-121

ROBERT EMMETT GINNA NUCLEAR POWER

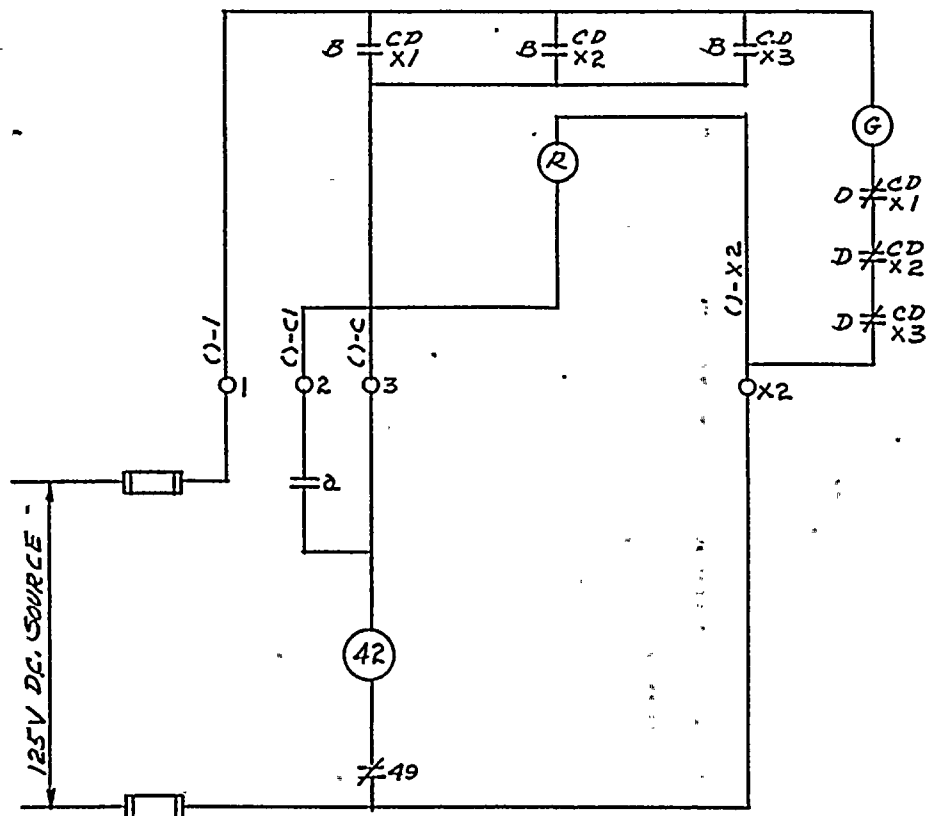
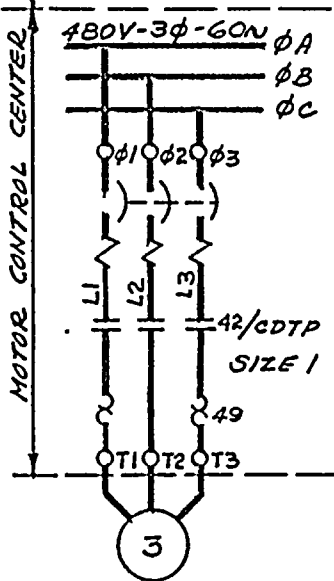
STATION UNIT NO. J

ELEMENTARY WIRING DIAGRAM - BORIC ACID TRANSFER PUMP TA 11B

NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING 499B425 SH 121

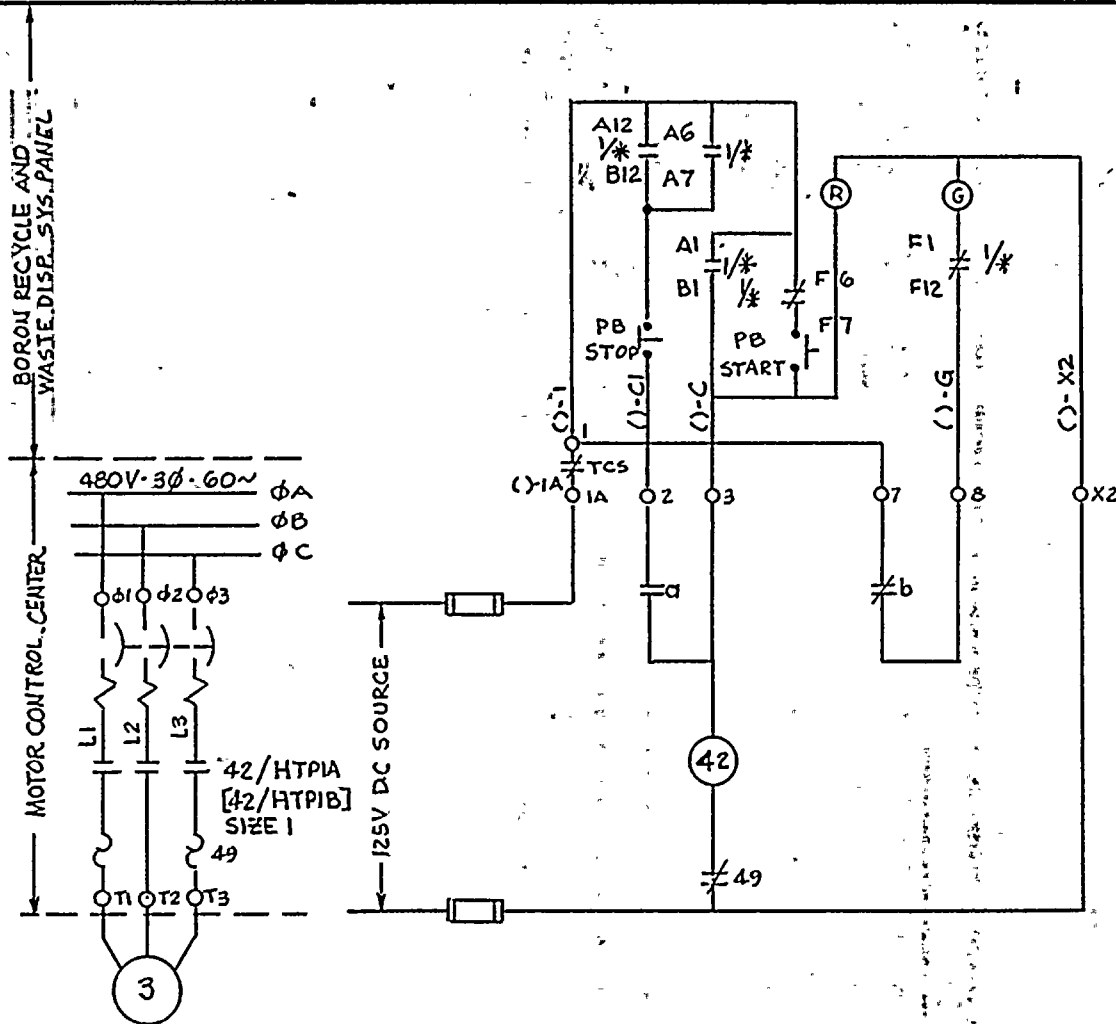
NOTE:

*-CDTP
CDX1, CDX2, CDX3 - SH. 331



THIS DWG. SUPERSEDES WESTINGHOUSE DWG. 499B425 SH. 122

[illegible]

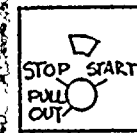


HTPIA-UNIT NO. 1E/2H
[HTPIB-UNIT NO. 1E/5H]

NOTE:
* - HTPIA, OR HTPIB
1/2 - SEE SWITCH DEV. THIS SHEET.
TCS - THERMAL CUTOUT SWITCH LOC. IN MTR

CONTACT	POSITION				
	PULL OUT	TRIP	OFF AFTER		CLOSE
			TRIP	CLOSE	
A11-B11	X	X			
A12-B12			X	X	
A1-B1					X
A5-A6	X	X	X		
A6-A7				X	X
B5-B6	X	X	X		
B6-B7				X	X
C1-D1	X	X			
C12-D12			X	X	
C1-D1					X
C5-C6	X	X	X		
C6-C7				X	X
D5-D6	X	X	X		
D6-D7				X	X
E12-E1	X				
E12-F1		X	X	X	X
E6-E7	X				
E6-F7		X	X	X	X

TYPE W2 C5 5" 508A162G01
(3 POSITION SPRING RETURN TO OFF)



REV.	BY	DATE	CHK'D	DATE	DATE
ORIGINAL	GJF	8/1/76	OK'D	4-8-76	4-8-76
	DRAWN BY	OK'D	RESP. ENG.	ENG'K. MOD.	DATE

ROBERT EMMETT GINNA NUCLEAR
STATION UNIT NO. 1
ELECTRICITY WIRING DIAGRAM
CONG. HOLD. TRANS. EMIS. TA 27B

NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING 499B425 SH124

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

NO. 10905-124

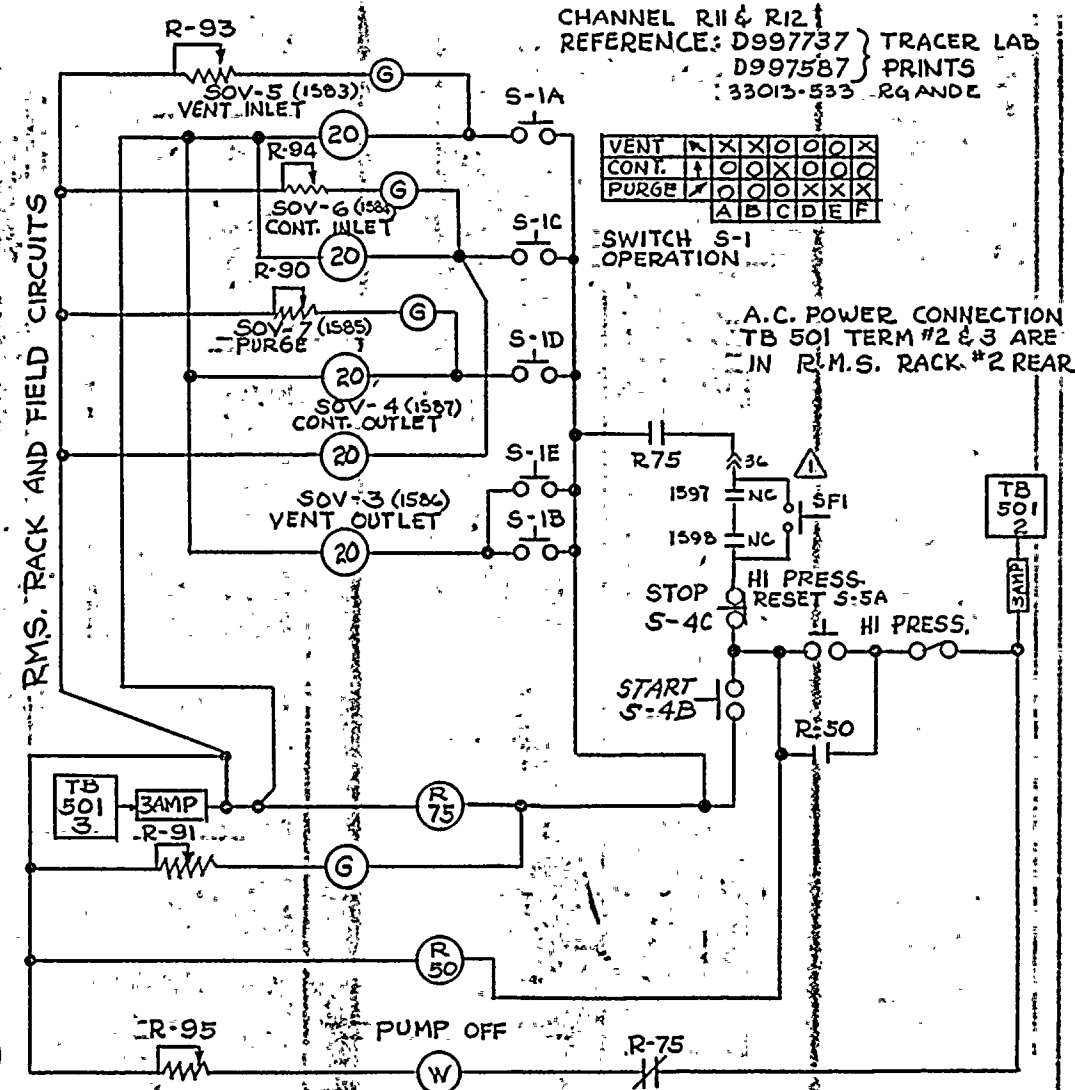
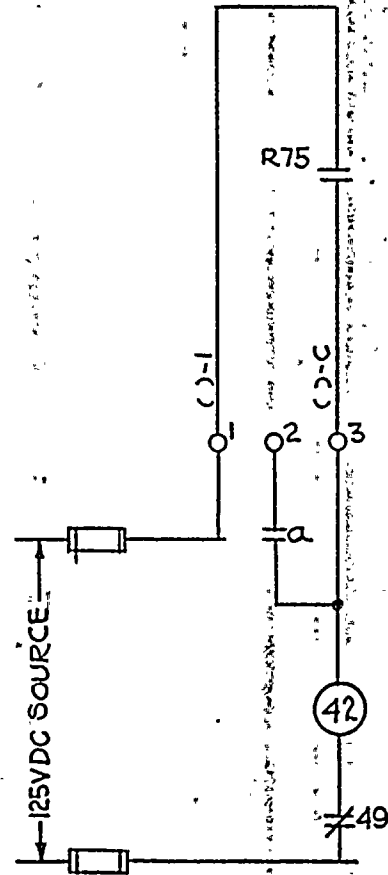
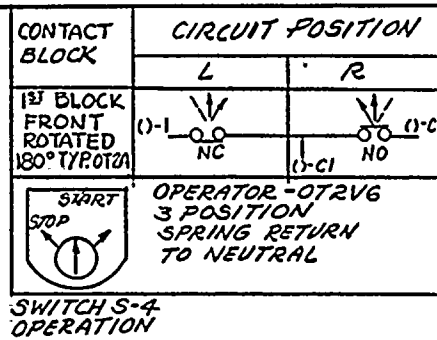
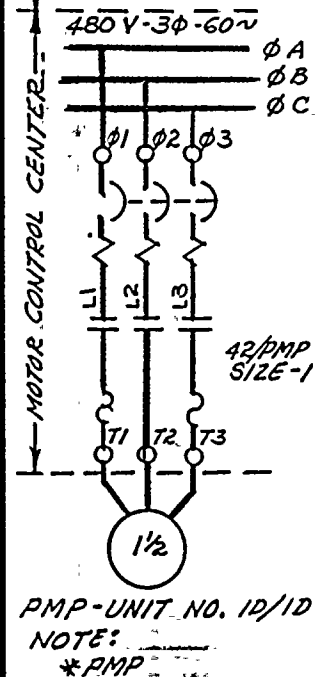
DATE

APPROVED

FOLDER NO.

JOB NO.

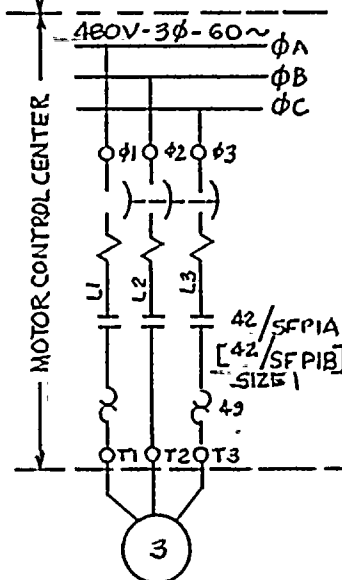
RADIATION MONITOR
CRB, TRACER LAB
D997587



NOTE: THIS DRAWING SUPERSEDES
WESTINGHOUSE DWG. NO. 499B425 SH. 125

ELEMENTARY WIRING DIAGRAM				CONTAINMENT AIR PART 'MONIT. PUMP			
FACILITY: GINNA				SCALE: NONE			
JOB NO.				DRAWING NO.			
10905-125				REV.			
1				2			
3				4			
5				6			
7				8			
9				10			
11				12			
13				14			
15				16			
17				18			
19				20			
21				22			
23				24			
25				26			
27				28			
29				30			
31				32			
33				34			
35				36			
37				38			
39				40			
41				42			
43				44			
45				46			
47				48			
49				50			
51				52			
53				54			
55				56			
57				58			
59				60			
61				62			
63				64			
65				66			
67				68			
69				70			
71				72			
73				74			
75				76			
77				78			
79				80			
81				82			
83				84			
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87				88			
89				90			
91				92			
93				94			
95				96			
97				98			
99				100			

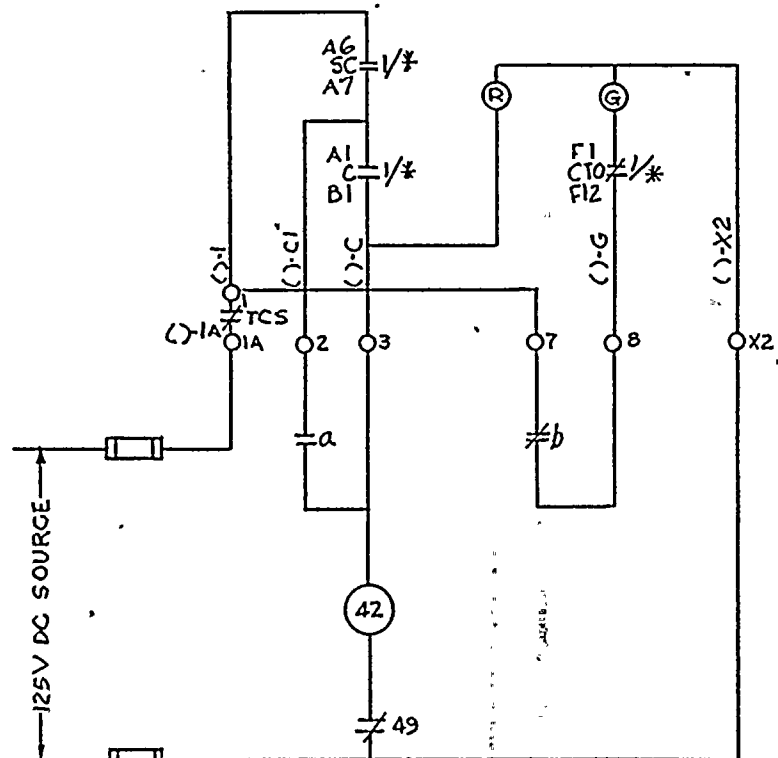
BORON RECYCLE AND
WASTE DISP. SYS. PANEL



SFPIA-UNIT NO. 1E/3D
SFPIB-UNIT NO. 1E/5D

NOTE:

* SFPIA, OR SFPIB
1/4" SEE DEV. SHEET 10, FIG. 1, DETAIL C
TCS-THERMAL CUTOUT SWITCH LOG IN MTR.



REV.						
ORIGINAL	GJF DRAWN BY	RND 8/19/75 CK'D	RBA, RESP ENG'D	DEL ENG'D UCK	1/27/76 DATE	

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

No. 10905-126

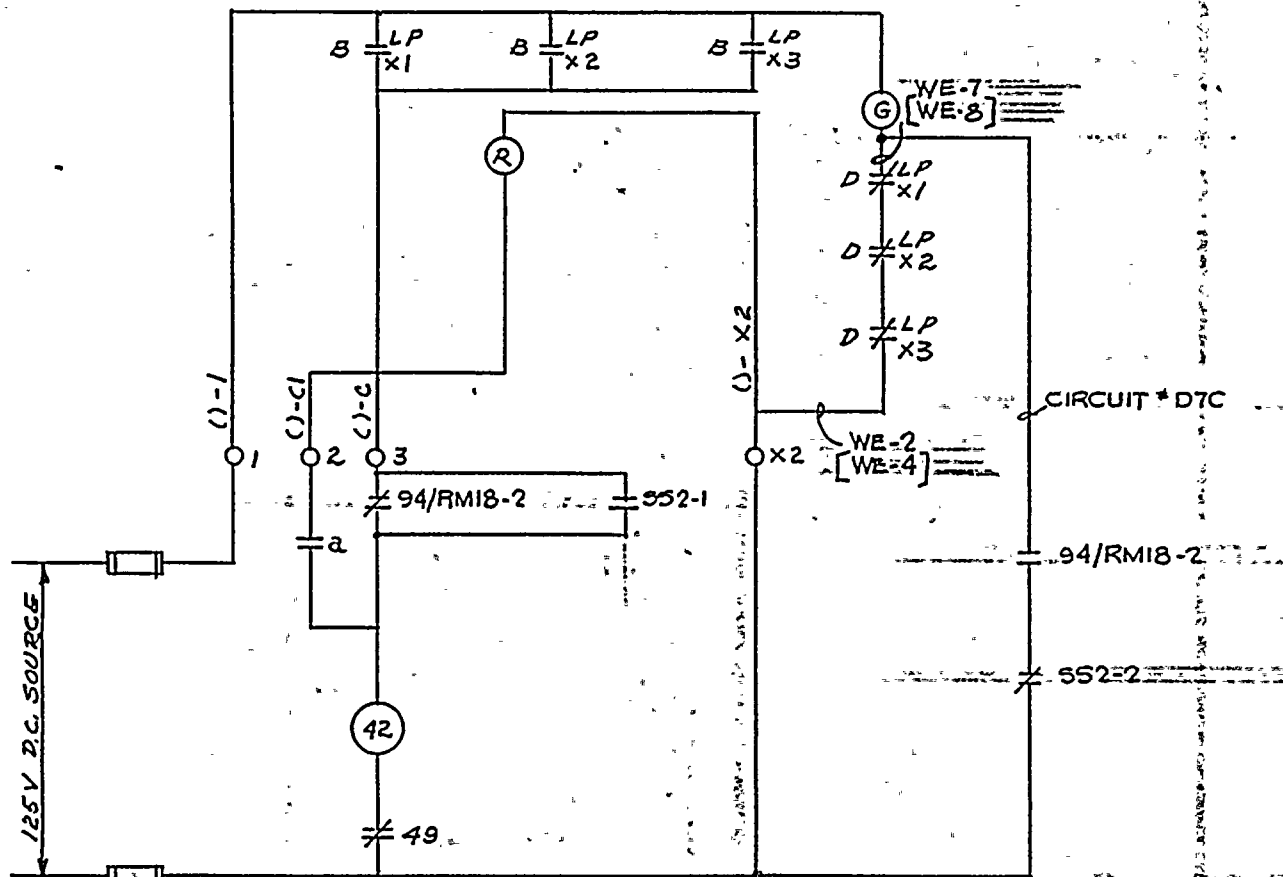
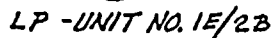
ROBERT EMMETT SINNA NUCLEAR
POWER STATION UNIT NO. 1

ELEMENTARY WIRING DIAGRAM
GAS STEPPER FEED

NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING 499B425-SH126

DATE	BY	SCALE	APPROVED	FOLDER NO.	JOB NO.
		NONE			

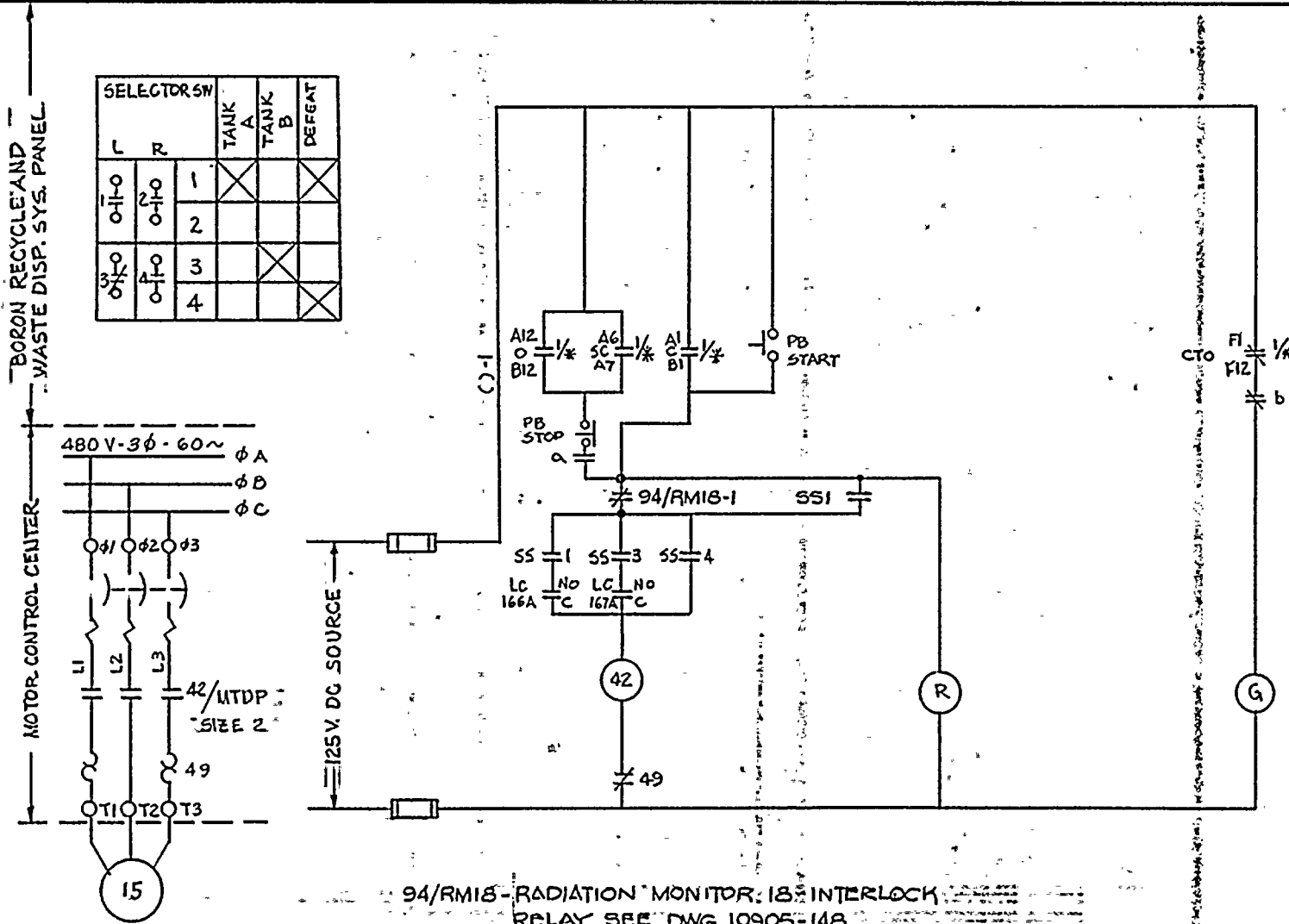
NOTE:
*-LP
-LPX1, LPX2, LPX3, SH. 331



94/RM18 - RADIATION MONITOR 18 INTERLOCK
RELAY SEE DWG. 10905-148
SS2 - RADIATION MONITOR 18 INTERLOCK
RELAY DEFEAT SWITCH
SEE DWG. 10905-148

THIS DWG. SUPERSEDES WESTINGHOUSE DWG. 499B425 SH. 127

REV.	△	Q.H.	R.W.	7-27	7-27	REL.	7/27/57
ORIGINAL		N.T.A.	R.W.	7/16/56	7/16/56	REL.	7/20/56
		BY	CH'D	ENGR.	ENGR.	ENGR.	DATE
ROBERT EMMETT GINNA NUCLEARE POWER STA.				SCALE			
UNIT NO. 1				APPROVED			
ELEMENTARY WIRING DIAGRAM				FOLDER NO.			
LAUNDRY PUMP				JOB NO.			



SELECTOR SW		TANK A	TANK B	DEFEAT
L	R			
1	2	1	X	X
2	3	2		
3	4	3	X	
4		4		X

MTDP UNIT NO. 1E/8F

94/RM18 - RADIATION MONITOR 18 INTERLOCK RELAY SEE DWG. 10905-148
55-3 - RADIATION MONITOR 18 INTERLOCK RELAY DEFEAT SWITCH
SEE DWG. 10905-148

NOTE:

- PB - LOCAL PUSH BUTTON
- SS - TANK SELECTOR SWITCH
- LC - TANK LOW LEVEL PRESS. SW.
- * - MTDP

1/4 - SEE DEV. SHEET 10, FIGURE 1, DETAIL C

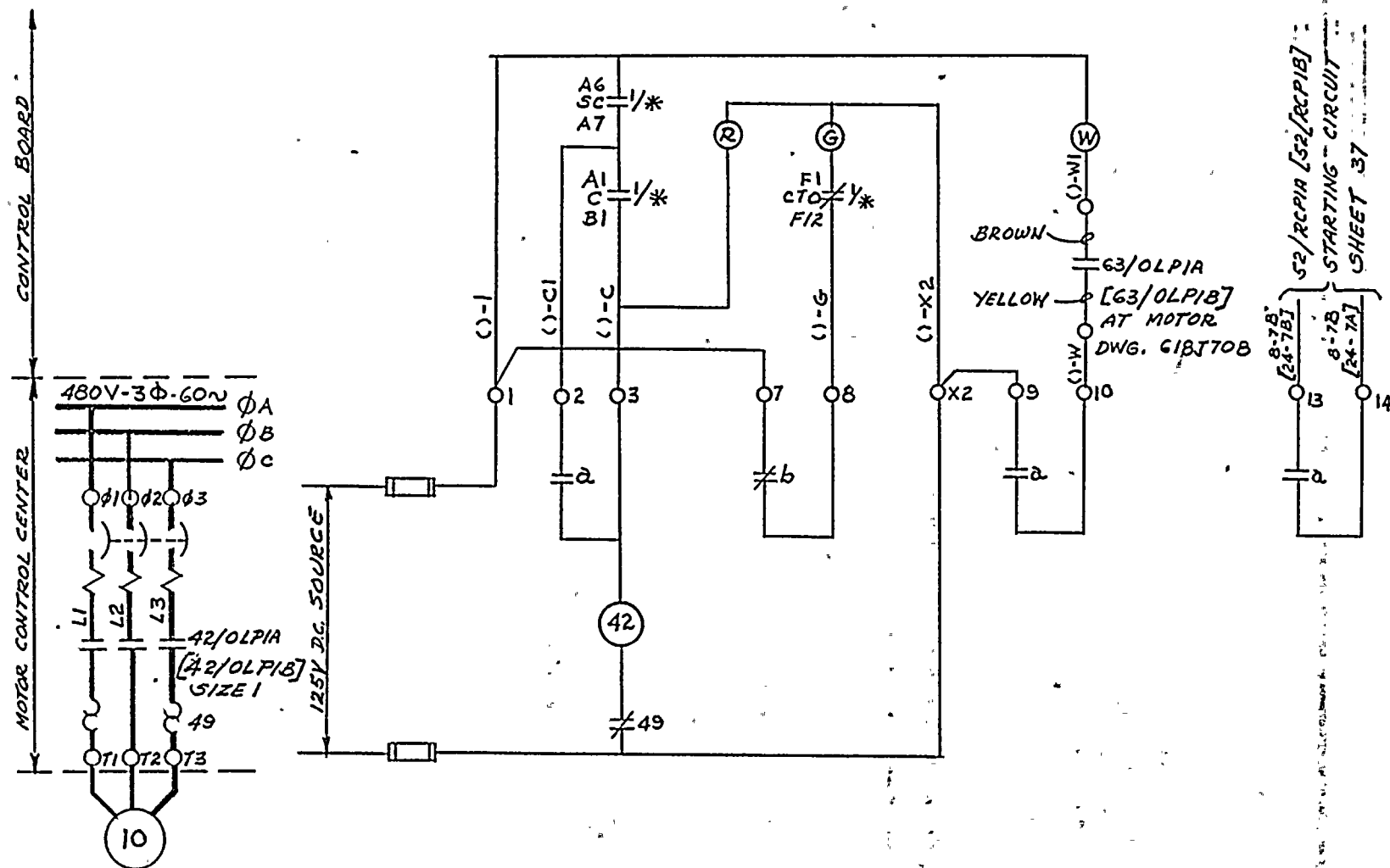
NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING 499B425 SH128

ROBERT EMMETT GINNA, NUCLEAR POWER
STATION UNIT 1, NO. 1
ELEMENTARY WIRING DIAGRAM
MONITOR TANK DISCHARGE PUMP

REV.	DATE	BY	DATE	BY	DATE
1	1-7-77	6JF	1-2-77	6JF	1/1/77
2	2/19/78	CK'D	2/19/78	ENG'R	5/1/78
3				ENGR MGR	

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING
No. 10905-128

DRAWN BY
TRACED
CHECKED
ENG.
DATE
SCALE NONE
APPROVED
FOLDER NO.
JOB NO.



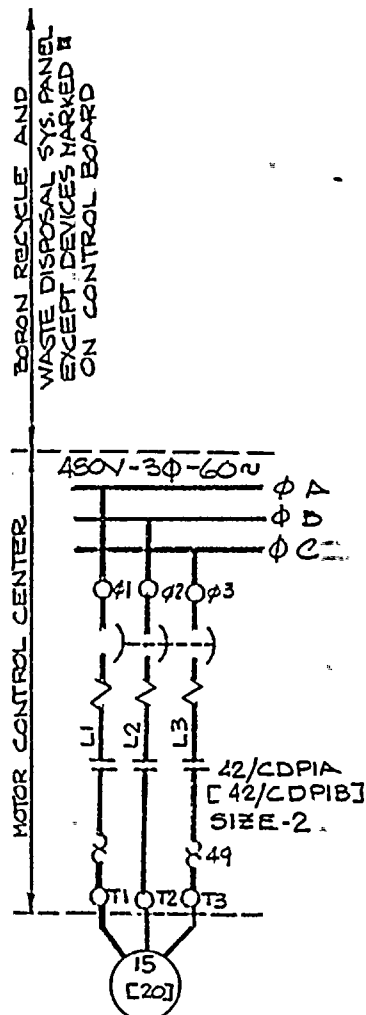
OLPIA-UNIT NO. 1E/1D
[OLPIB-UNIT NO. 1E/4D]

NOTE:
* - OLPIA, OR OLPIB
1/* - SEE DEV. SHEET-10, FIGURE NO. 1, DETAIL C

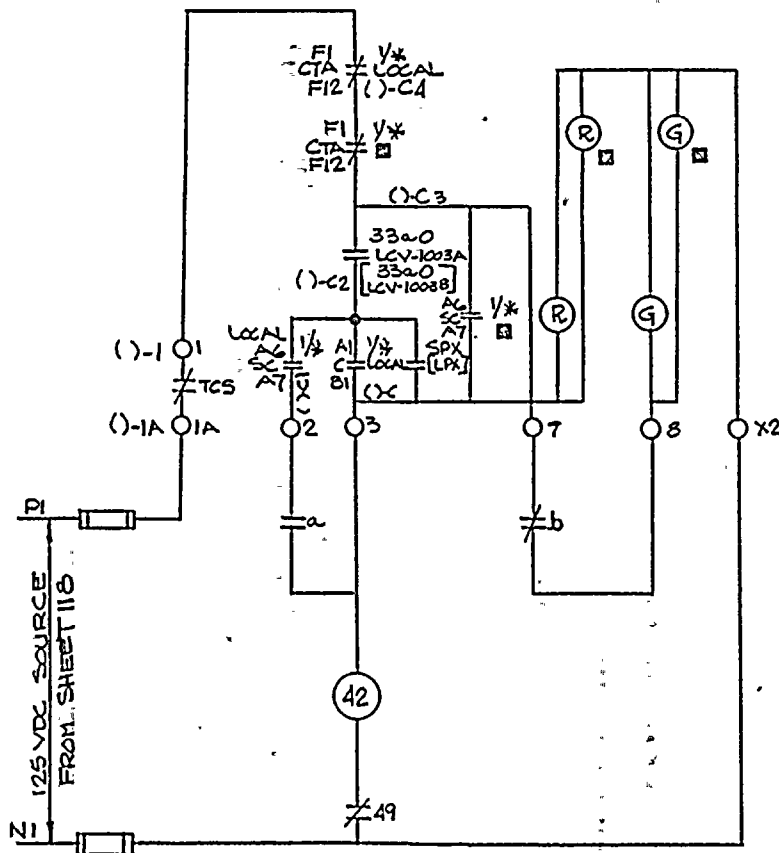
THIS DRAWING SUPERSEDES WESTINGHOUSE DWG. 10905-129

REV.	DATE	BY	CHK'D	ENGR.	DATE
ORIGINAL	1/16/56	N.T.A.	CH'D	RESR.	7/14/76
				ENGR.	
				MAGR.	

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ENGINEERING	DEPT	NO. 10905-129
ROBERT EMMETT SINHA NUCLEAR POWER STR.		UNIT NO. 1	
ELEMENTARY WIRING DIAGRAM		RCP OIL LIFT PUMP 1A & 1B	



CDPIA UNIT NO. 10/38
CDPIB UNIT NO. 10/30



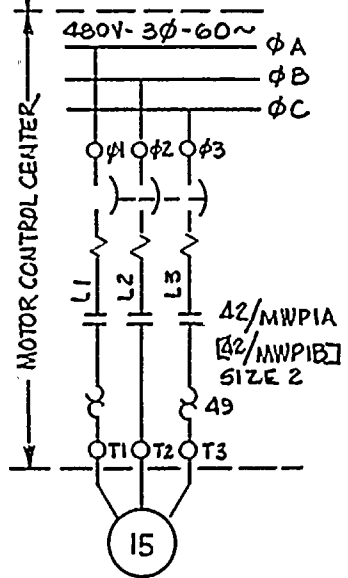
NOTE
TCS THERMAL CUTOUT SW. LOC. IN MTR.
* CDPIA, OR CDPIB
1/2 SEE DEV. SHEET-10, FIG. 1, DETAIL D
SPX & LPX SHEET 333
□ - AT MAIN CONTROL BOARD

THIS DNG. SUPERSEDES W. DWG. 499 B425 SH. 130

REV.					
ORIGINAL	BY DWN.	CHK'D CK'D	RES'D ENG'R	ENG'D MGR.	DATE 11/21/70

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK		ROBERT EMMETT GINNA NUCLEAR POWER STATION - UNIT NO. 1 ELEMENTARY WIRING DIAGRAM REACTOR COOLANT DRAIN PUMP 1A-1B		DATE	SCALE
DEPT		DRAWN	TRACED	APPROVED	
		CHECKED			
		ENG.			
No. 10905-130					

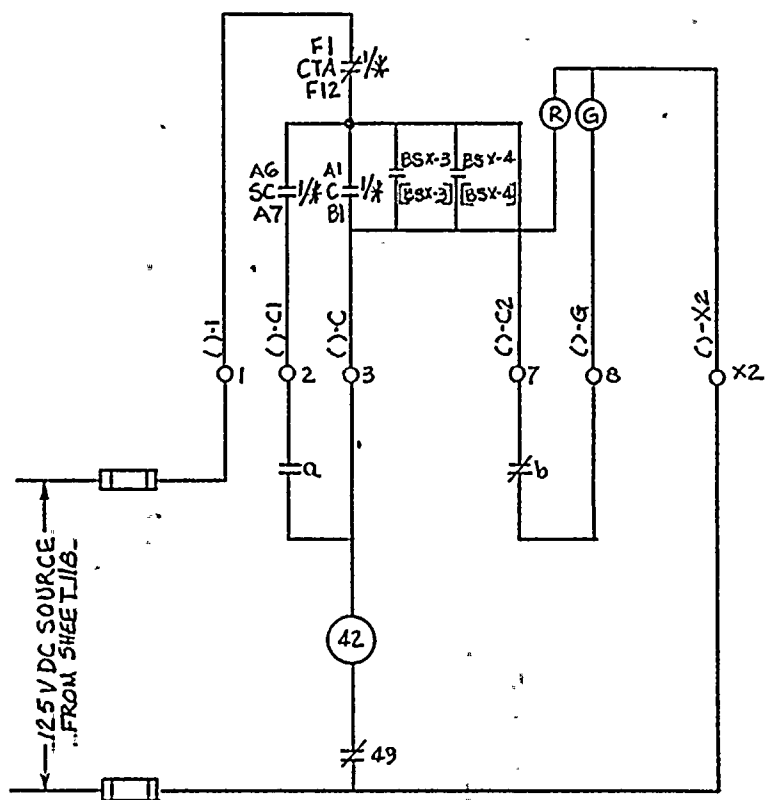
CONTROL BOARD



MWPIA - UNIT NO. 1C/13B
 [MWPIB - UNIT NO. 1D/1B]

NOTE:

* - MWPIA, OR MWPIB
 1/4 - SEE DEV. SHEET-10, FIG. 1, DET. D
 BSX-3 & BSX-4 - SEE SHEET-330



REV.						
ORIGINAL	GJF	6/19/75	RFA	JEL	4/27/76	
	DRAWN BY	CXD	RESP ENGR	ENGR MGR	DATE	

NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING NO. 499B425 SH131

ROCHESTER GAS & ELECTRIC CORP.
 ROCHESTER, NEW YORK

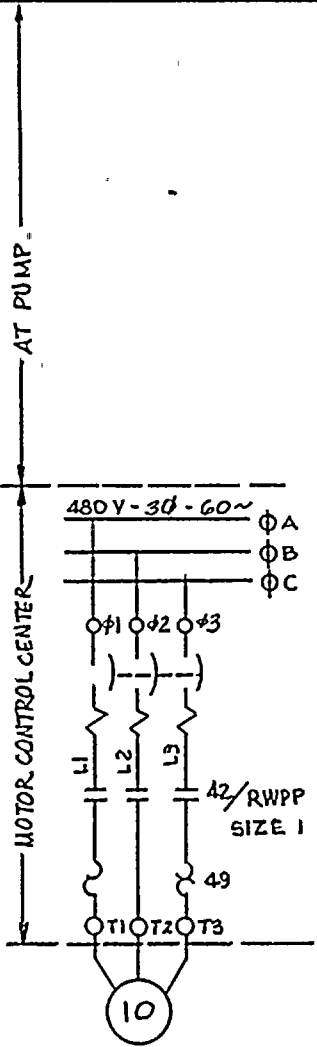
ENGINEERING

DEPT

No. 10905-131

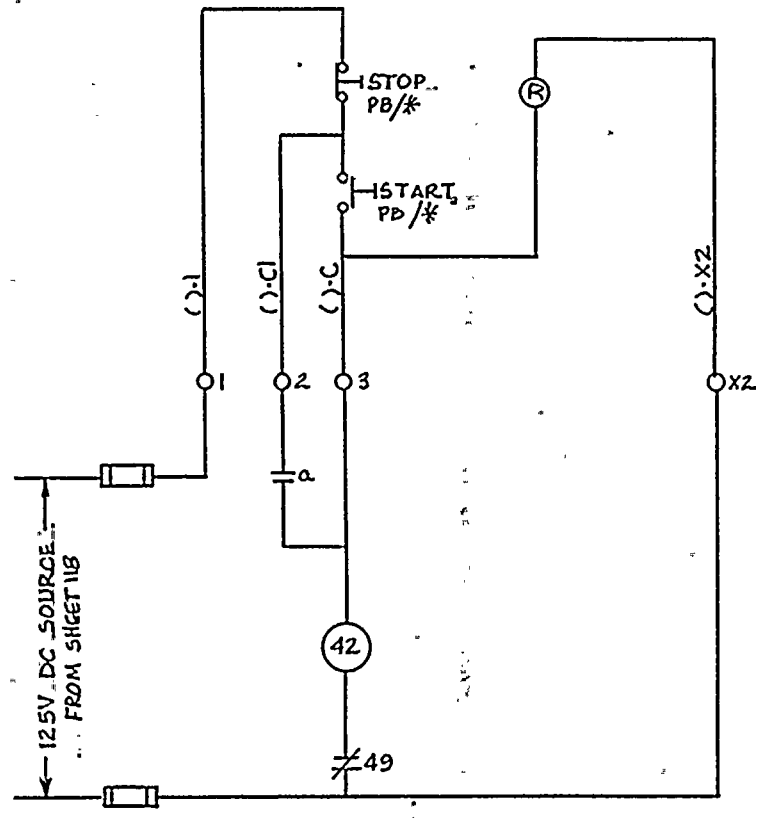
ROBERT EMMETT GINNA NUCLEAR POWER
 STATION UNIT NO. 1
 ELEMENTARY WIRING DIAGRAM
 REACTOR MAKEUP WATER PUMP 1A & 1B

DATE	BY	SCALE	NOTE
		APPROVED	
		FOLDER NO.	
		JOB NO.	



RWPP-UNIT NO. 1C/13D.

NOTE:
*- RWPP



REV.					
ORIGINAL	GJF DRAWN BY	RW 9/9/85 CK'D	RGA RSG ENGR	QEL ENGR NGR	4/27/86 DATE

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

No. 10905-133

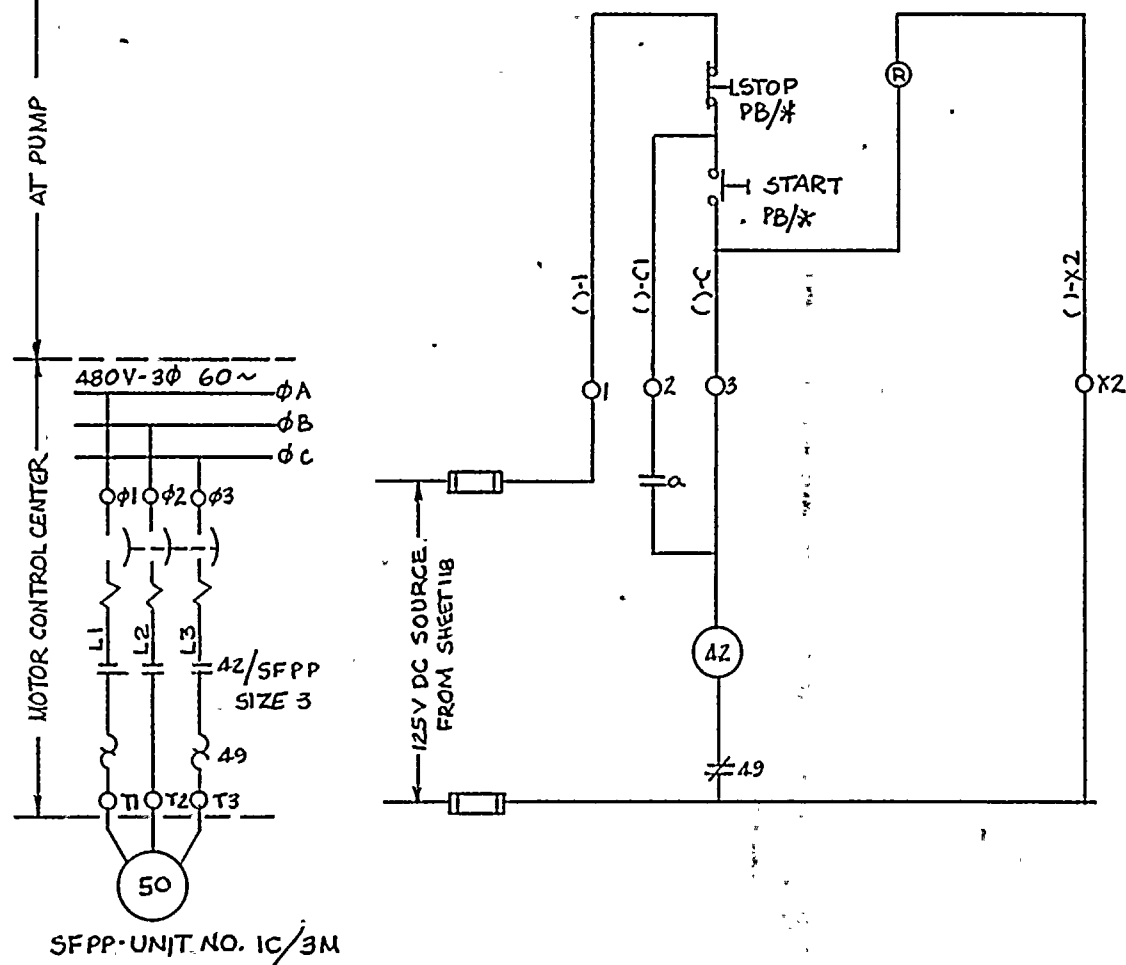
NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING NO. 499B425-SH133

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT NO. 1

ELEMENTARY WATER PURIFICATION PUMP

DRAWN	BY	DATE	SCALE	NONE
TRACED			APPROVED	
CHECKED			FOLDER NO.	
ENG.			JOB NO.	

NOTE:
*-SFPP

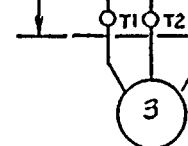


RCV.						
ORIGINAL	GJF	BW	RFG	JEL	H/1/76	
	DRAWN BY	CK'D	RESP ENGR	ENG'G MGR	DATE	

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK		DEPT ENGINEERING		No. 10905-134	
NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING NUMBER 4998425 SH 134				DRAWN BY	
ROBERT EMMETT SINHA, NUCLEAR POWER				DATE	
STATION UNIT NO. 1				SCALE NONE	
ELEMENTARY WIRING DIAGRAM				APPROVED	
SPENT FUEL PIT PUMP				FOLDER NO.	
				JOB NO.	

BORON RECYCLE AND
WASTE DEP. SYS. PANEL

MOTOR CONTROL CENTER



43 SWITCH		
CONTACT	POSITION	
	R	L
A11-B11		X
A12-B12	X	
A1-B1		X
A5-B5		X
A6-B6	X	
A7-B7		X
C11-D11	X	
C12-D12		X
C1-D1	X	
C5-D5	X	
C6-D6		X
C7-D7	X	

TYPE W2 S305A 221G01
(MAINTAINED)

480V. 3Φ-60~

ΦA
ΦB
ΦC

42/STPIA
42/STPIB
SIZE 1

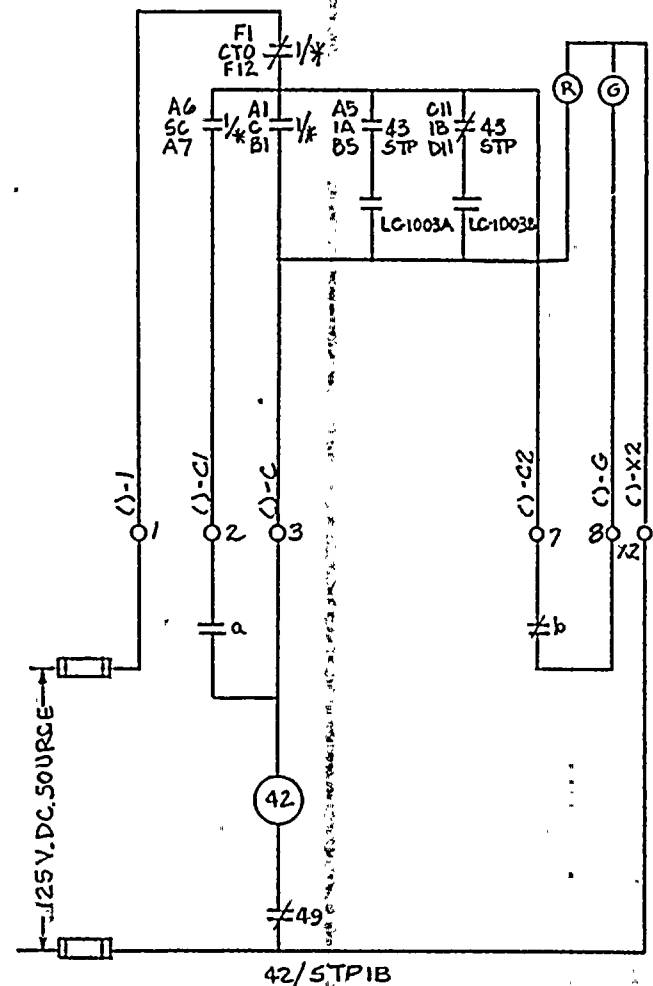
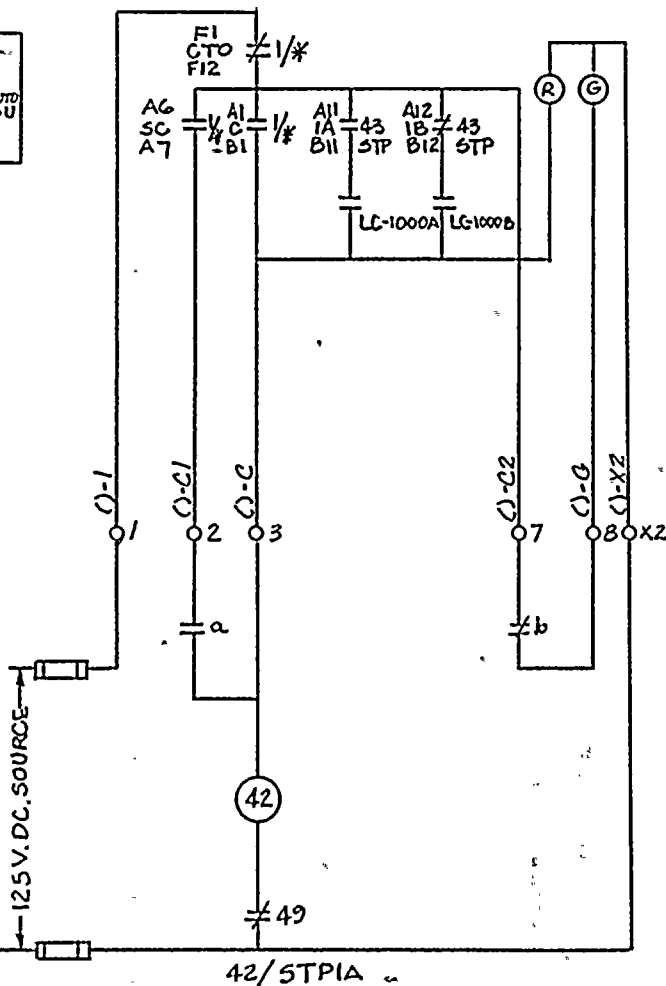
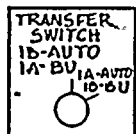
49

T1 T2 T3

3

STPIA- UNIT NO. 1C/1B
STPIB- UNIT NO. 1E/8D

NOTES:
* - STPIA OR STPIB
43/STP- SEC SWITCH DEV. THIS SHEET
1/* - SEE DEV. SHEET 10, FIG. 1, DET. D.



NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499-8475 SH 182

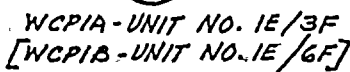
ROBERT EMETT GWINN NUCLEAR POWER
STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
SUMP PUMPS 1A, 1B

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING
No. 10905-136

REV.						
ORIGINAL	GJF	Rm	RPA	REL	1/10/16	
	DRAWN BY	CKD	RESP. ENGR	ENGR. IN CH	DATE	

DATE	BY	DATE	SCALE	APPROVED	FOLDER NO.	JOB NO.
			NONE			

BORON RECYCLE AND
WASTE DISP. SYS. PNL.
DWG. TAYLOR-SKOGG-24-W2

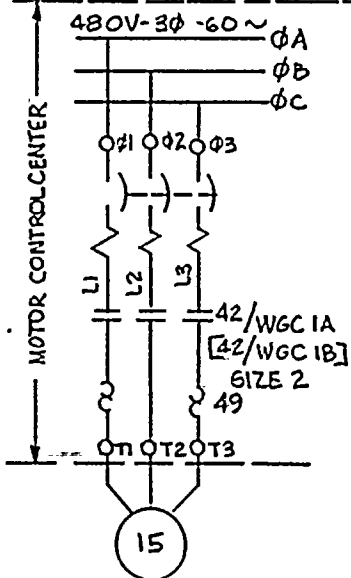


*WCPIA, OR [WCPIB]
WCX1, WCX2, WCX3, WCX4-SH.332

94/RM18-RADIATION MONITOR 18 INTERLOCK-
RELAY-SEE DWG. 10905-148
SS3, SS4-RADIATION MONITOR 18 INTERLOCK
RELAY DEFEAT SWITCH
SEE DWG. 10905-148

THIS DWG. SUPERSEDES WESTINGHOUSE DWG. NO 499B125-137

REV.	①	Q.H.	R.W. 1-7-77	7-23 1-2-77	REL.	1/2/77
ORIGINAL		N.T.A.	R.W. 7/6/76	REC 7/17/76	REL 7/17/76	
		DRWN BY	C.K.D.	ENGR. ENGR.	ENGR. ENGR.	DATE
ROBERT EMMETT GINNA NUCLEAR POWER STA. ELEMENTARY WIRING DIAGRAM WASTE CONDENSATE PUMPS 1A & 1B						
ROCHESTER GAS & ELECTRIC CORP.						
ROCHESTER, NEW YORK						
ENGINEERING	DEPT					
NO. 10905 - 137		A				

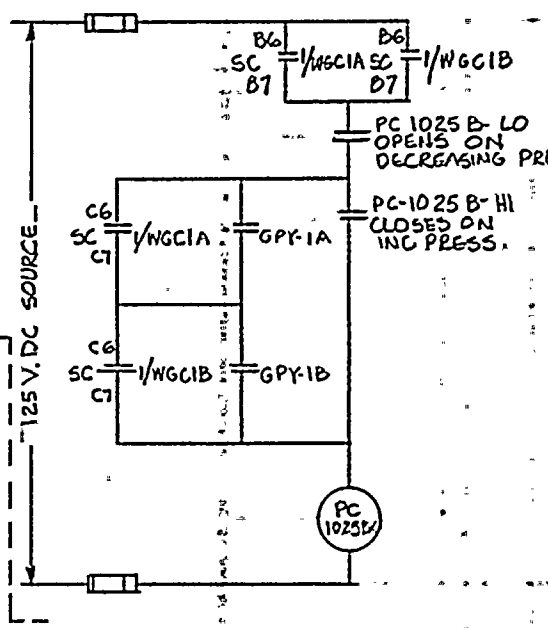
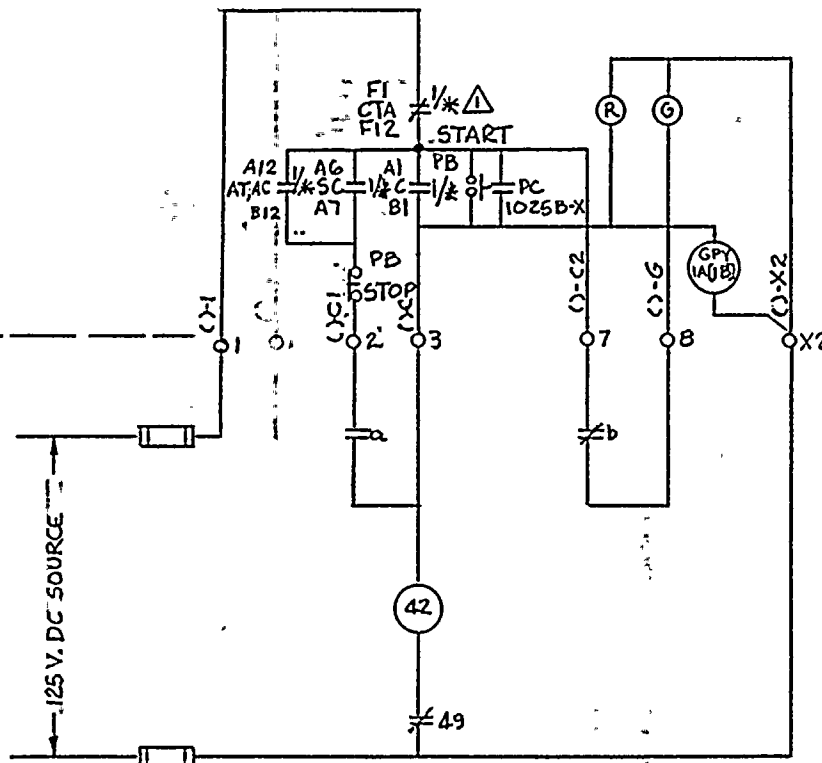


WGC-1A-UNIT NO. 1E/2F
WGC-1B-UNIT NO. 1E/5F

NOTE:

*-WGCIA, OR WGCIB

1/4" - SEC DEY. SHEET 10, FIG 1, DETAIL D



NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 4998423

ROCHESTER GAS & ELECTRIC CORP.

ROBERTEMMETT GINNA NUCLEAR POWER

ENGINEERING


ENGINEER 1/NO
No. 10905-139

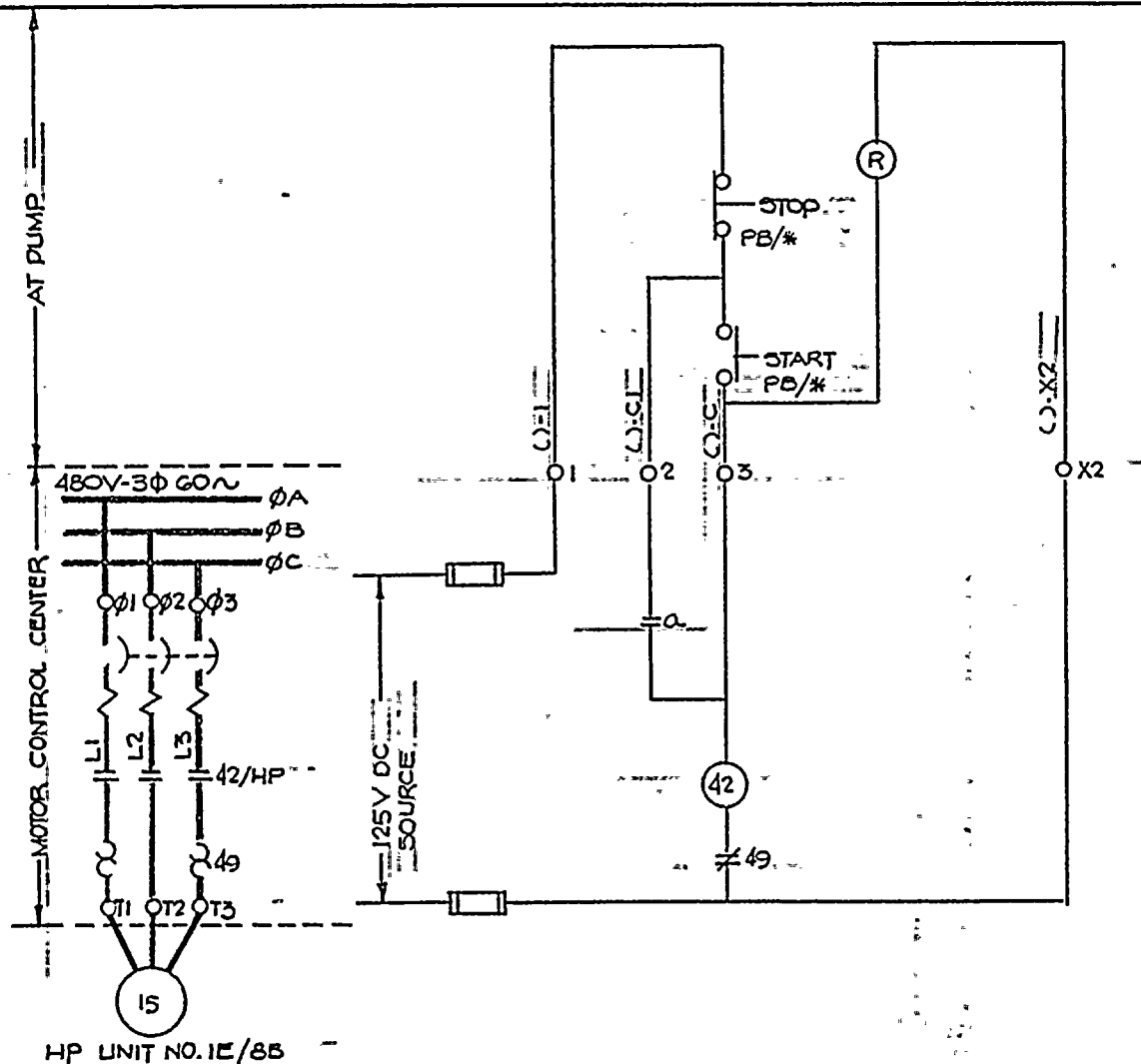
DRAWN	BY	DATE	SCALE	NO
-------	----	------	-------	----

TRACED	APPROVED
--------	----------

CHECKED	FOLDER NO.
ENG.	JOB NO.

ELEMENTARY WIRING DIAGRAM
WASTE GAS COMPRESSOR 1A & 1B

REV.		Rev 7-7-76	DH 7-9-76	RFR 7-12-74	JED	7/24/77
ORIGINAL		GJF	Rm 7/29/75	RFA	JEL	4/27/72
		DRAWN BY	CY'D	REC'D ENGR	ENG'R MGK.	DATE



NOTE
* - HP

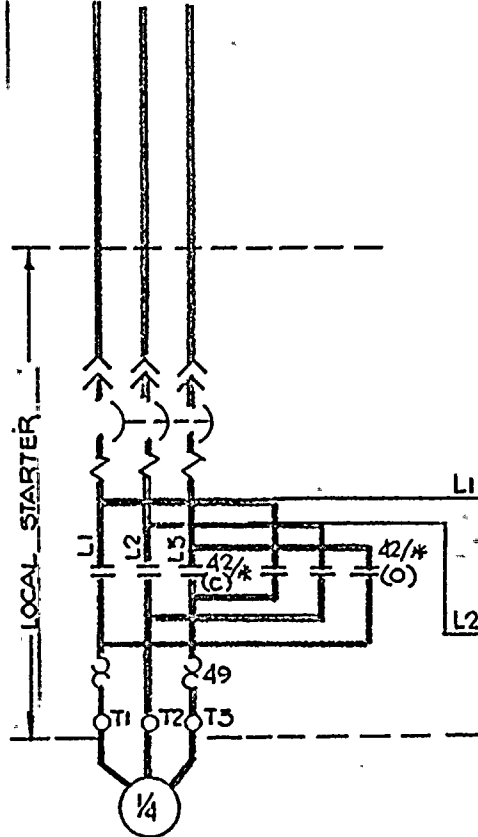
THIS DWG. SUPERCEDES WESTINGHOUSE DWG. NO. 499B425-140

REV	△					
ORIGINAL		DEF.	PM	RGA	YEB	9/20/76
		DRAWN BY	CK'D	ENG'R	ENG'R MARK	DATE

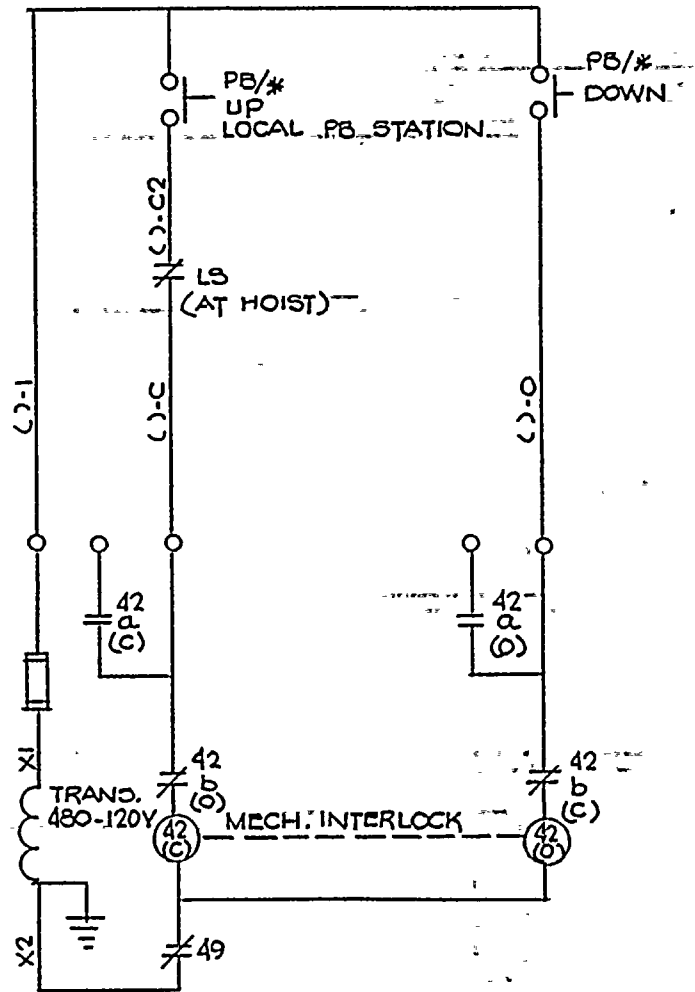
ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMMETT GINNA, NUCLEAR POWER STATION UNIT NO. 1 ELEMENTARY WIRING DIAGRAM HYDROSTAT PUMP	DATE	SCALE
ENG'R		BY	APPROVED
		DRAWN	FOLDER NO.
		TRACED	JOB NO.
		CHECKED	
		ENG.	

No. 10905-140

CONTAINMENT
480V DIST. PNL.
BKR #10



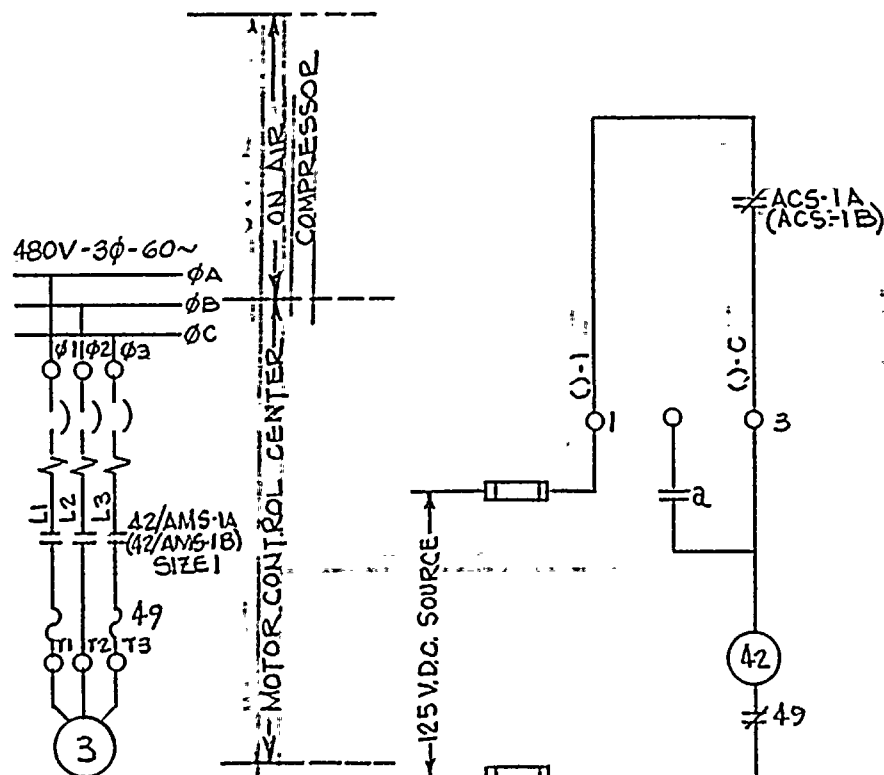
NOTE:
* - RCC



REV.	DATE	BY	CHK'D	ENGR.	DATE
ORIGINAL		DRN	CK'D	ENGR.	DATE
	8/17/76	DM	9/23/76	9/21	9/23/76

THIS DWG, SUPERCEDES WESTINGHOUSE DWG #499B425-141.

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1	DATE	SCALE
ENG'R	ELEMENTARY WIRING DIAGRAM	DRAWN	APPROVED
	RCC CHANGE FIXTURE HOIST DR.	TRACED	FOLDER NO.
No. 10905-141		CHECKED	JOB NO.



AMS-1A-UNIT 1J/1B
AMS-1B-UNIT 1H/1B

NOTES:

ACS - AIR COMPRESSOR
PRESSURE SWITCH

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B425 SH 142

REV.						
ORIGINAL	8/10/76 DRAWN BY	Rm 9/2/76 CK'D	RFA 9/23/76 RESP ENGR	SEL ENGR MGR	9/23/76 DATE	

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

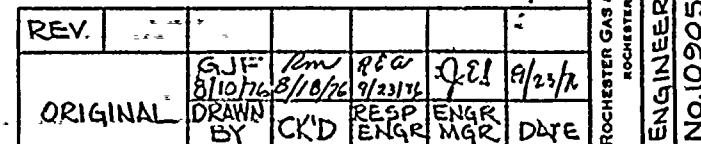
ENGINEERING DEPT

NO. 10905-142

R.E. GINNA NUCLEAR POWER STATION

UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
DIESEL START AIR COMP. 1A(1B)

DATE	BY	SCALE
	GJF	
DATE	TRACED	APPROVED
DATE	CHECKED	FOLDER NO.
DATE	SIN.	JOB NO.



RE GINNA NUCLEAR POWER
STATION - UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
DIESEL GEN IA(B) PRELUDE PUMP

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

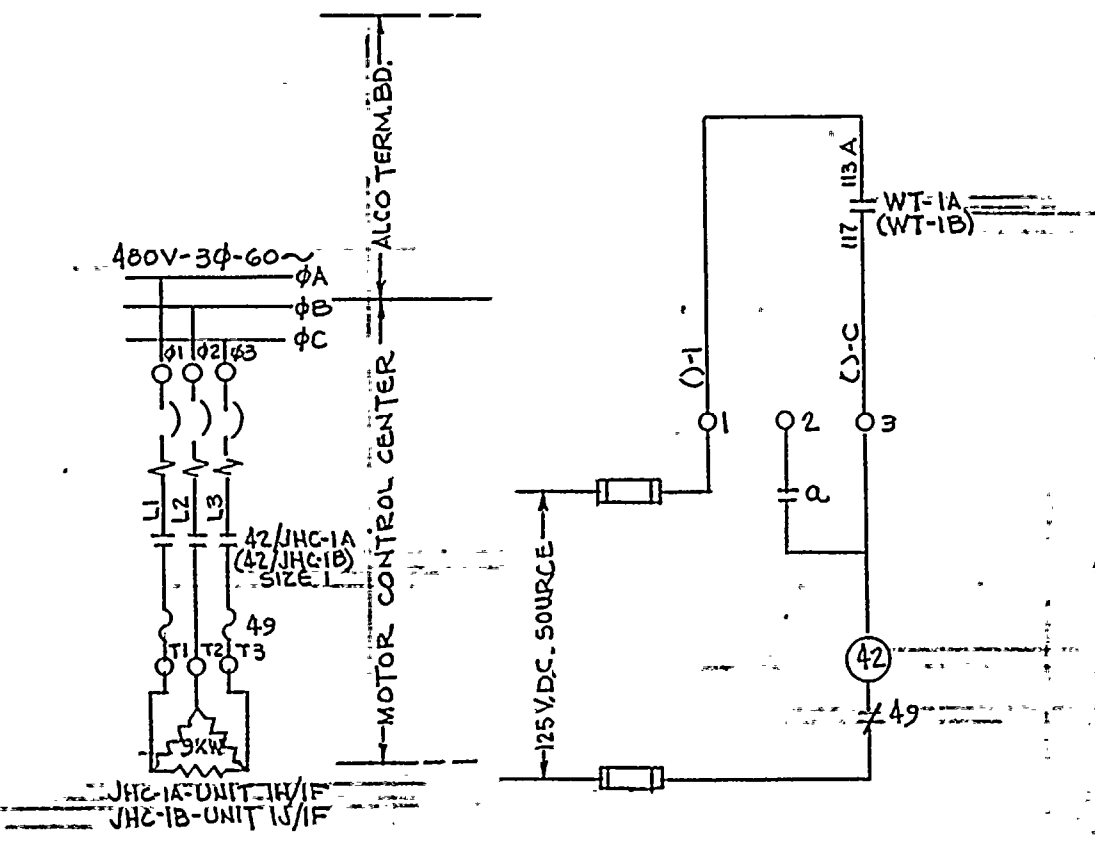
ENGINEERING

DEPT

NO. 10905-143

DRAWN	BY	DATE	SCALE
TRACED			APPROVED
CHECKED			POLOER NO.
-- SMC.			JOB NO.

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING "NO. 499B425" SH 143

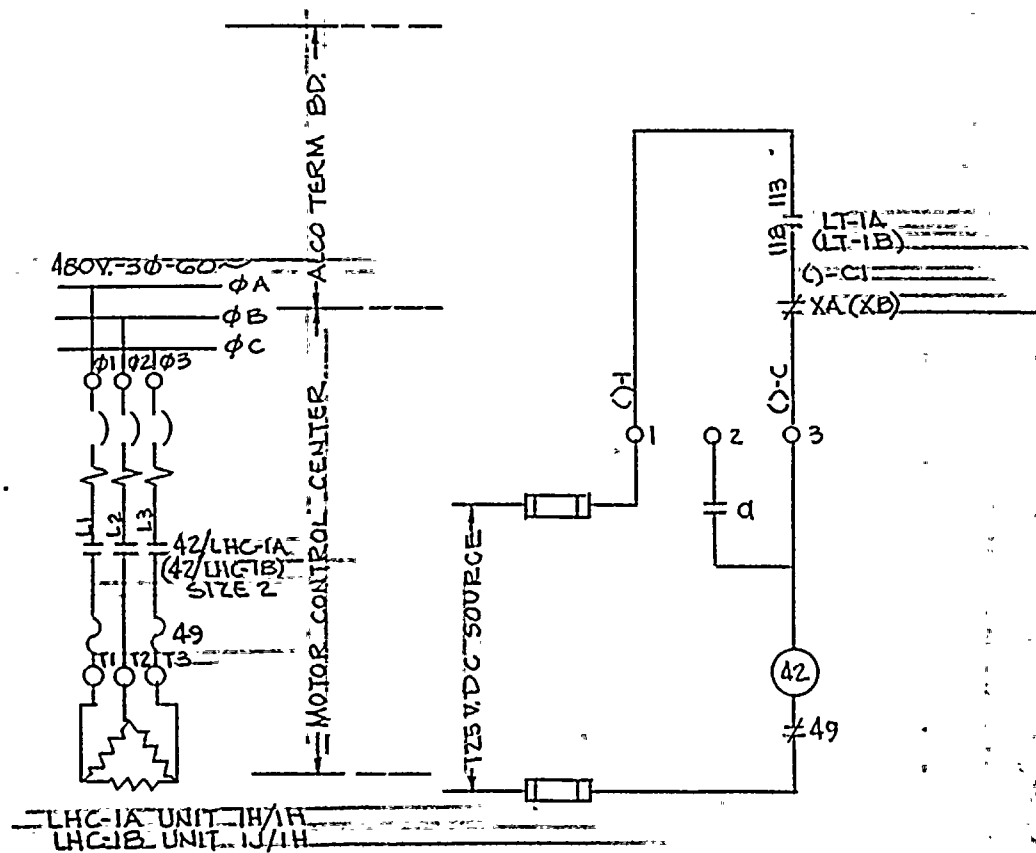


NOTES:
WT-WATER TEMP SW

NOTE- THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B4-25-144

REV	DATE	BY	CHK'D	APP'D	DATE
ORIGINAL	8/11/76	GJF	RW	REA	9/23/76
		DRAWN	CK'D	RESP	ENG
				ENGR	MGR
					DATE

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	RE GINNA NUCLEAR POWER STATION	DATE	BY	DRAWN	TRACED	CHECKED	ENG.
ENGINEERING	UNIT NO. 1						
DEPT.	ELEMENTARY WIRING DIAGRAM						
NO. 10905-144	DIESEL GEN. 1A(1B) JACKET WTR. HTRS.						



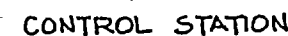
NOTES:

- LT - LUBE OIL TEMP SW.
- XA(XB) - RELAY IN BASSLER
- CABINET - SEE ALCO

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH.145

REV.	DATE	BY	CHK'D	RES'G	ENGR	DATE
ORIGINAL	8/11/76	Rm	9/2/76	RFA	9/2/76	9/2/76

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ENGINEERING	DEPT	NO. 10905-145	RE GINNA NUCLEAR POWER STATION UNIT NO. 1 ELEMENTARY WIRING DIAGRAM DIESEL GEN. 1A1B1 LUBE OIL HT. SW.	SCALE	DATE	BY	DRAWN	TRACED	CHECKED	INCH	APPROVED	FOLDER NO.	JOB NO.
---	-------------	------	---------------	---	-------	------	----	-------	--------	---------	------	----------	------------	---------



NOTES

X-DSFIAI, 1A2, 1B1, 1B2
1/4-SEE SW. DEV. W SH. 14
OPT-2(IC)-OIL PRESSURE
TIMER-INSTANTANEOUS
CONTACT

NOTE-THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B725 SH.146

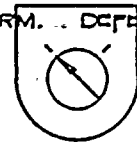
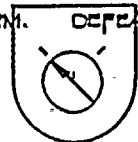
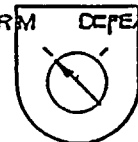
REV						
ORIGINAL	GJF	Rnw	RFW	FEb		
	8/12/76	8/16/76	9/23/76			9/23/76
	DRAWN	CK'D	RESP	ENGR	ENGR	DATE
	BY		ENGR	MGR		

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

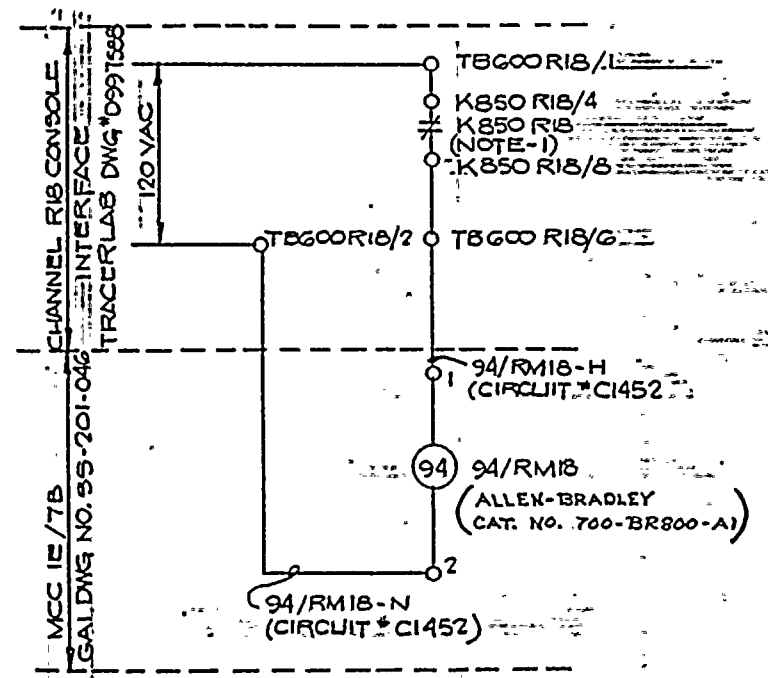
RE GINNA NUCLEAR POWER PLANT
STATION: UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
Diesel-2 M-SUPPLY FAN (A) 1A2 1B1 1B2

NORM. DEFEAT NORM. DEFEAT NORM. DEFEAT NORM. DEFEAT



RM 18 DEFEAT SW. FOR LAUNDRY PUMP
RM 18 DEFEAT SW. FOR MONITOR TANK DISCHARGE PUMP
RM 18 DEFEAT SW. FOR WASTE COND. PUMP 1A
RM 18 DEFEAT SW. FOR WASTE COND. PUMP 1B

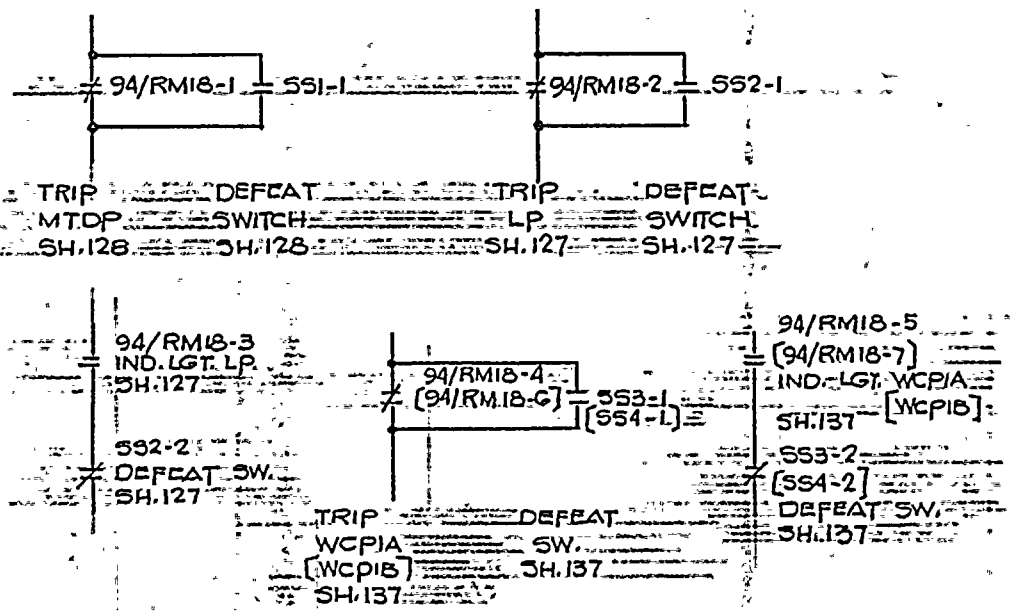
SWITCH LAYOUT ON FRONT PNL. OF MCC 1E/7B



NOTES:
1-ALARM RELAY K850R18
DENERGIZED FOR ALARM

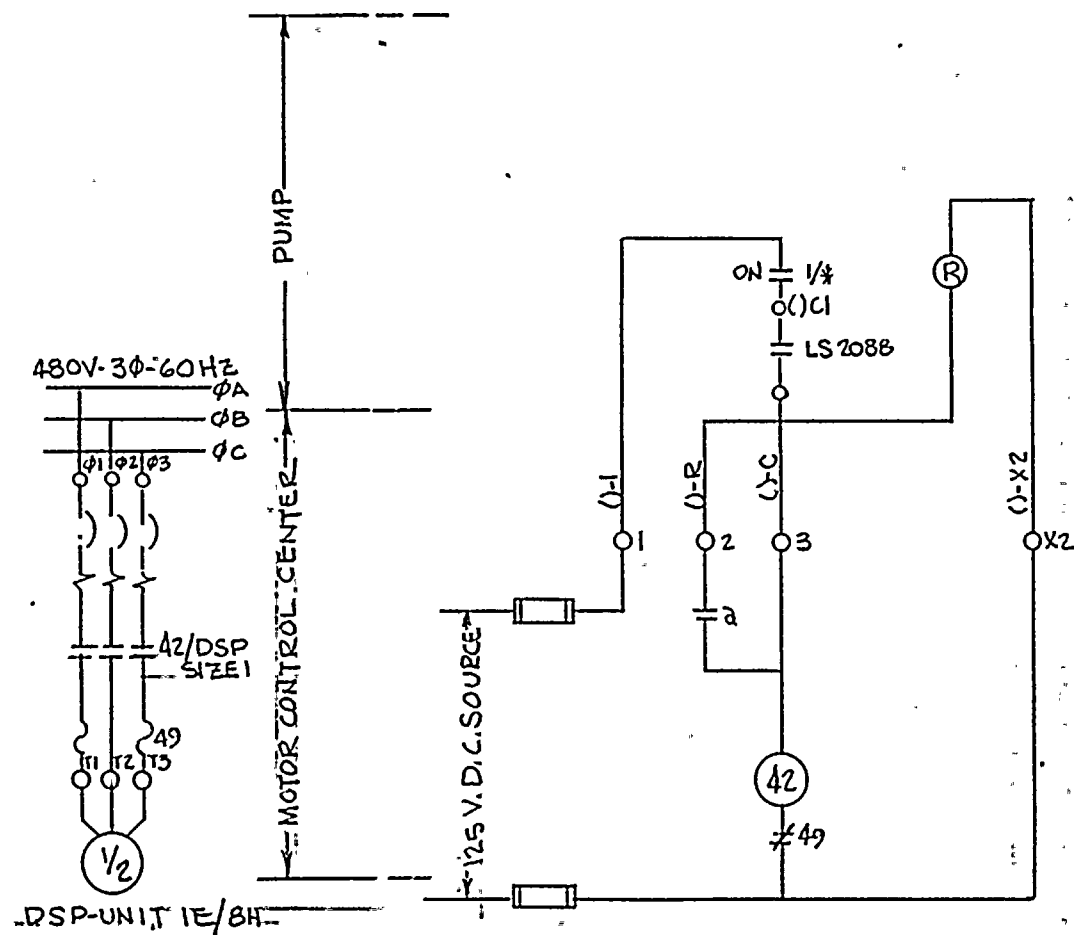
CONTACT BLOCK	CIRCUIT POSITION	
	L	R
1ST BLOCK (FRONT) TYPE OT2A		
NORM. DEFEAT OPERATOR OT2B1		
2- POSITION MAINTAINED		

SS1, SS2, SS3, SS4 SWITCH DEVELOPMENT



REV	△	DATE	BY	CHK'D	ENG'G	ENGR MGR	DATE
ORIGINAL		1-7-77	DH.	RW	1-7-77	JES	1-7-77
			DH.	RW	1-7-77	JES	1-7-77

DATE	SCALE	APPROVED	FOLDER NO.	JOB NO.
DESIGN	TRACED	CHECKED	ENR.	
ROBERT EMMETT GINNA NUCLEAR	POWER STATION UNIT NO. 1	ELEMENTARY WIRING DIAGRAM	RADIATION MONITOR IS TRIPPING RELAY	
ROCHESTER GAS & ELECTRIC CORP.	ROCHESTER, NEW YORK	ENGINEERING	DEPT	NO. 10905-145



NOTES

*-DSP

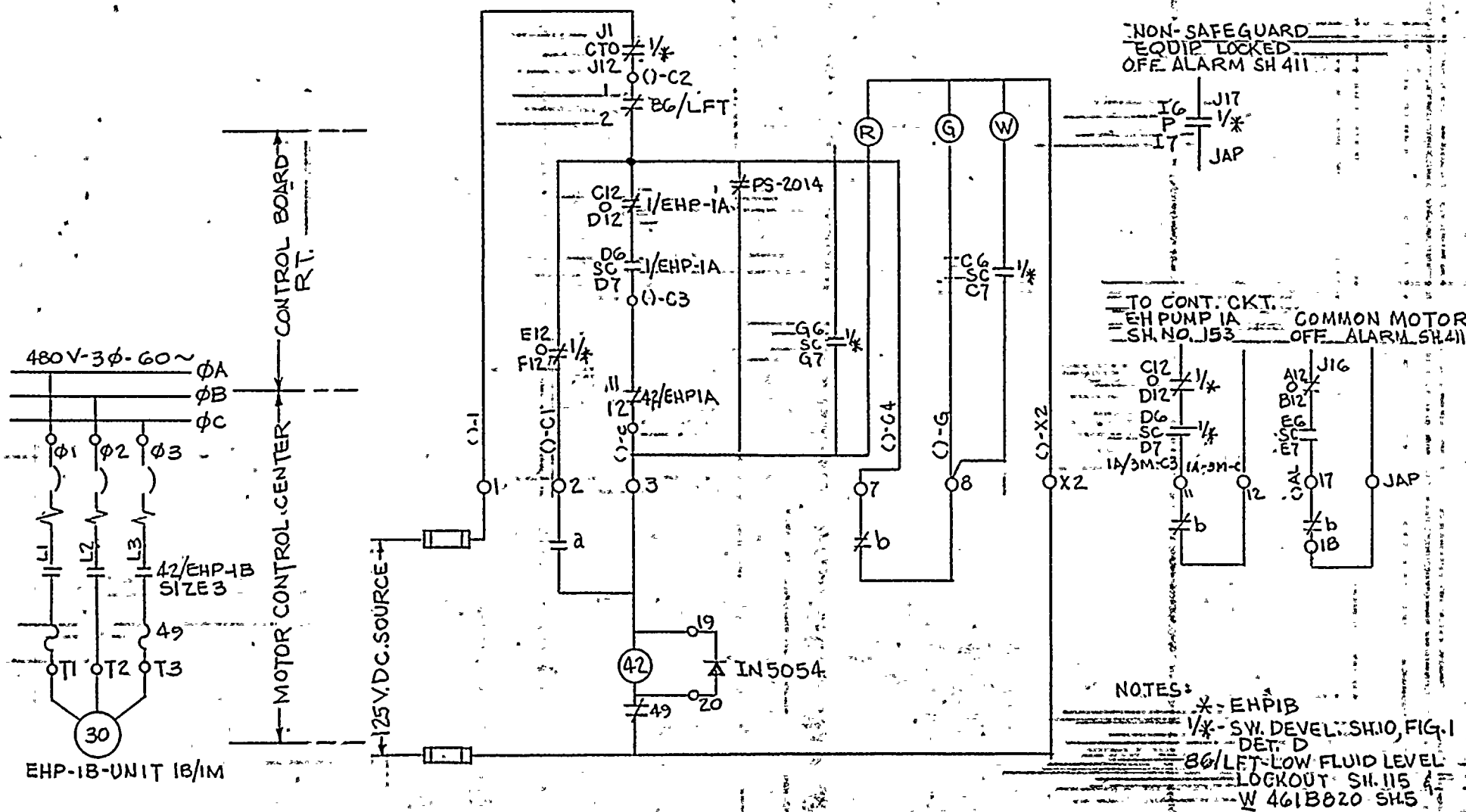
1/2 - ON-OFF SEL. SW

LS208B LOCATED ON COSTE
COLLECTING TANK

REV	DATE	BY	CHK'D	RESP	ENGR	DATE
ORIGINAL		GJF 8/12/76	RW 8/18/76	RFA 9/23/76	JEL 9/23/76	7/23/76
		DRAWN	OK'D	RESP	ENGR	DATE
					MGR	

REGINNA NUCLEAR POWER STATION	DATE	SCALE
UNIT NO 1		APPROVED
ELEMENTARY WIRING DIAGRAM		FOLDER NO.
DE-SUPER HEATER PUMP		JOB NO.
ENGINEERING		
ROCHESTER GAS & ELECTRIC CORP.		
ROCHESTER, NEW YORK		
NO. D9905-150		

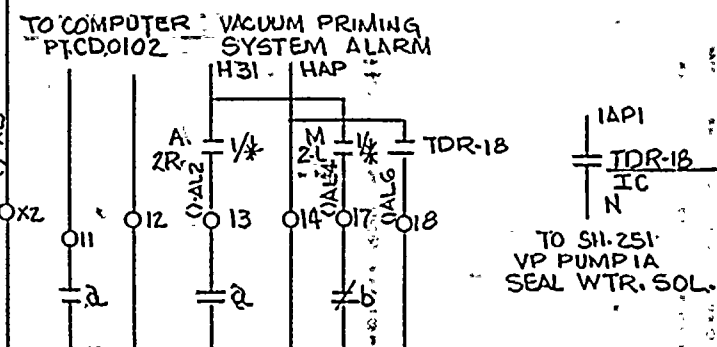
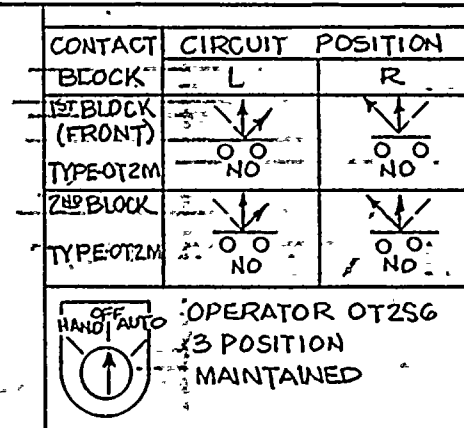
NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B475 SH 150



REV					
ORIGINAL	GJF 8/19/76 DRAWN BY	Rmw 8/23/76 CK'D	RGA 9/23/76 RESP ENGR	JEL 9/23/76 ENGR MGR	9/23/76 DATE

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH 154

RE: GUINNA NUCLEAR POWER STATION		UNIT NO. 1	DATE	BY	DRAWN	TRACED	APPROVED	FOLDER NO.	JOB NO.
ELEMENTARY WIRING DIAGRAM									
EHP SUPPLY PUMP 1B									
ENGINEERING		DEPT							
NO 10005-154									

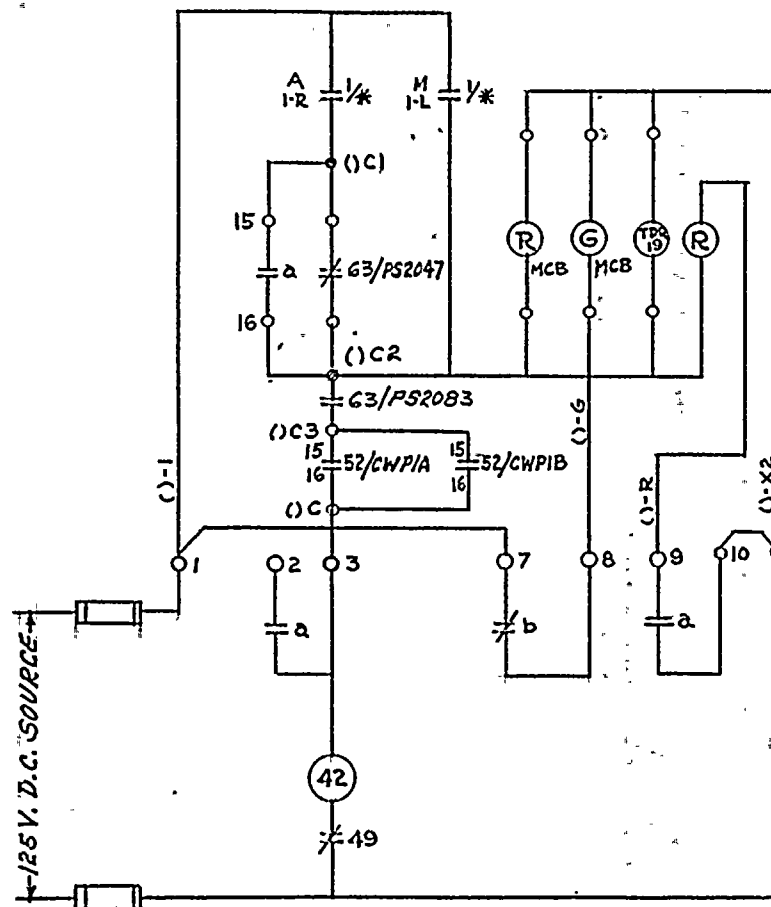
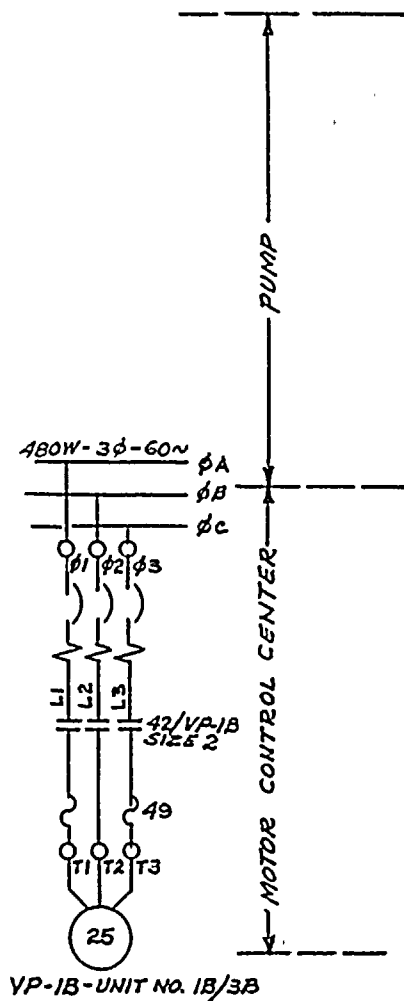






NOTES:
 1/4 * - VP-1A
 63/PS2047 ON VAC TANK CLOS. ON DEC.
 VAC
 TDR-18-TIME DELAY RELAY LOCATED IN
 RELAY ROOM
 TDR-18-IC INSTANTANEOUS CONTACT

REV.						
ORIGINAL	GTF 8-23-76	Rm 9/7/76	RFA 9/23/76	JED	9/23/76	
	DRAWN BY	CKD	RESP ENGR	ENGR MGR	DATE	

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	R.E. GINNA NUCLEAR POWER STATION		DRAWN	BY	DATE	SCALE
	UNIT NO. 1					
	ELEMENTARY WIRING DIAGRAM		TRACED			APPROVED
			CHECKED			FOLDER NO.
ENGINEERING DEPT NO 10905-155	VACUUM PRIMING PUMP 1A		ENG.			JOB NO.

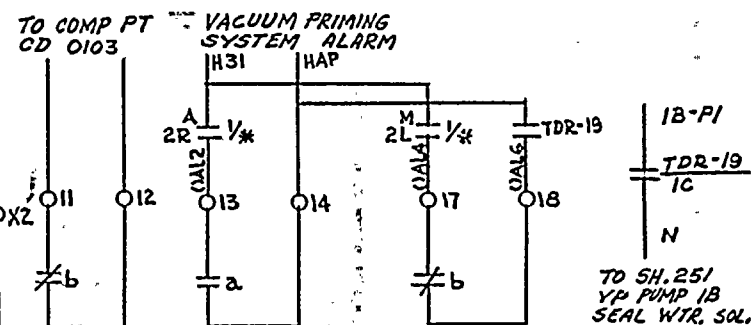
NOTE-THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH.155



CONTACT BLOCK	CIRCUIT POSITION	
	L	R
1 ST BLOCK FRONT TYPE-DT2M	 NO	 NO
2 ND BLOCK TYPE-DT2M	 NO	 NO

OFF
HAND 1 AUTO

OPERATOR DT2SG
3 POSITION
MAINTAINED



NOTES:

- *-VP-1B
- $\frac{1}{2}$ *-SEE SW. DEV. THIS SHEET
- 63/PS2047 ON VAC. TANK CLOSURES ON DEC. VAC.
- 63/PS2083 SEAL WATER PRESSURE SW.
- TDR-19 TIME DELAY RELAY LOCATED IN RELAY RM.
- TDR-19-1C INSTANTANEOUS CONTACT

THIS DWG. SUPERSEDES WESTINGHOUSE DWG. 499B425 SH. 156

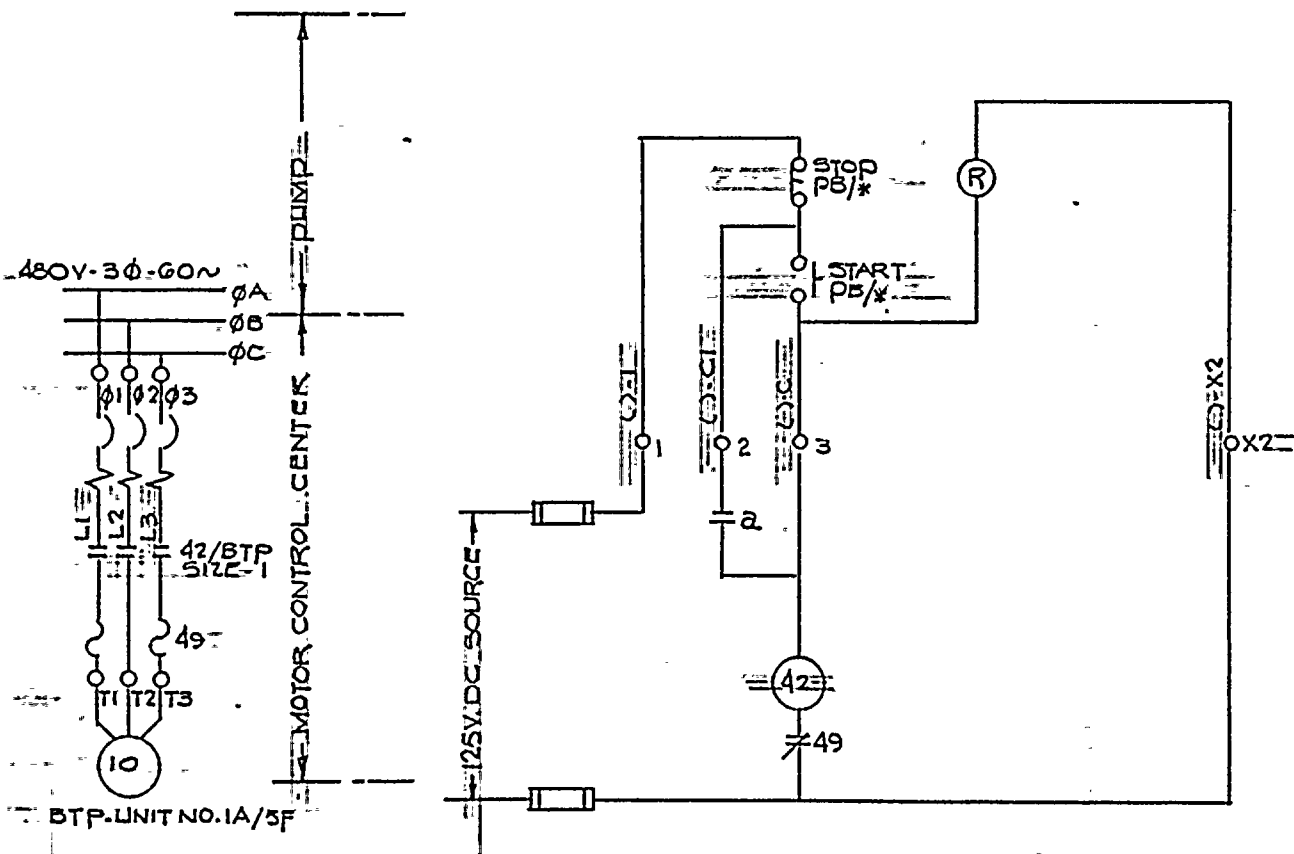
REV.	ORIGINAL	DATE	9/23/76
		DESIGNER	RESA
		CHECKER	CK'D.
		SCALE	1/2"=1'
		APPROVED	
		FOLDER NO.	
		JOB NO.	

ROBERT EMMETT GINNA NUCLEAR POWER STA.
UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
VACUUM PRIMING PUMP-1B

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

NO 10905-156



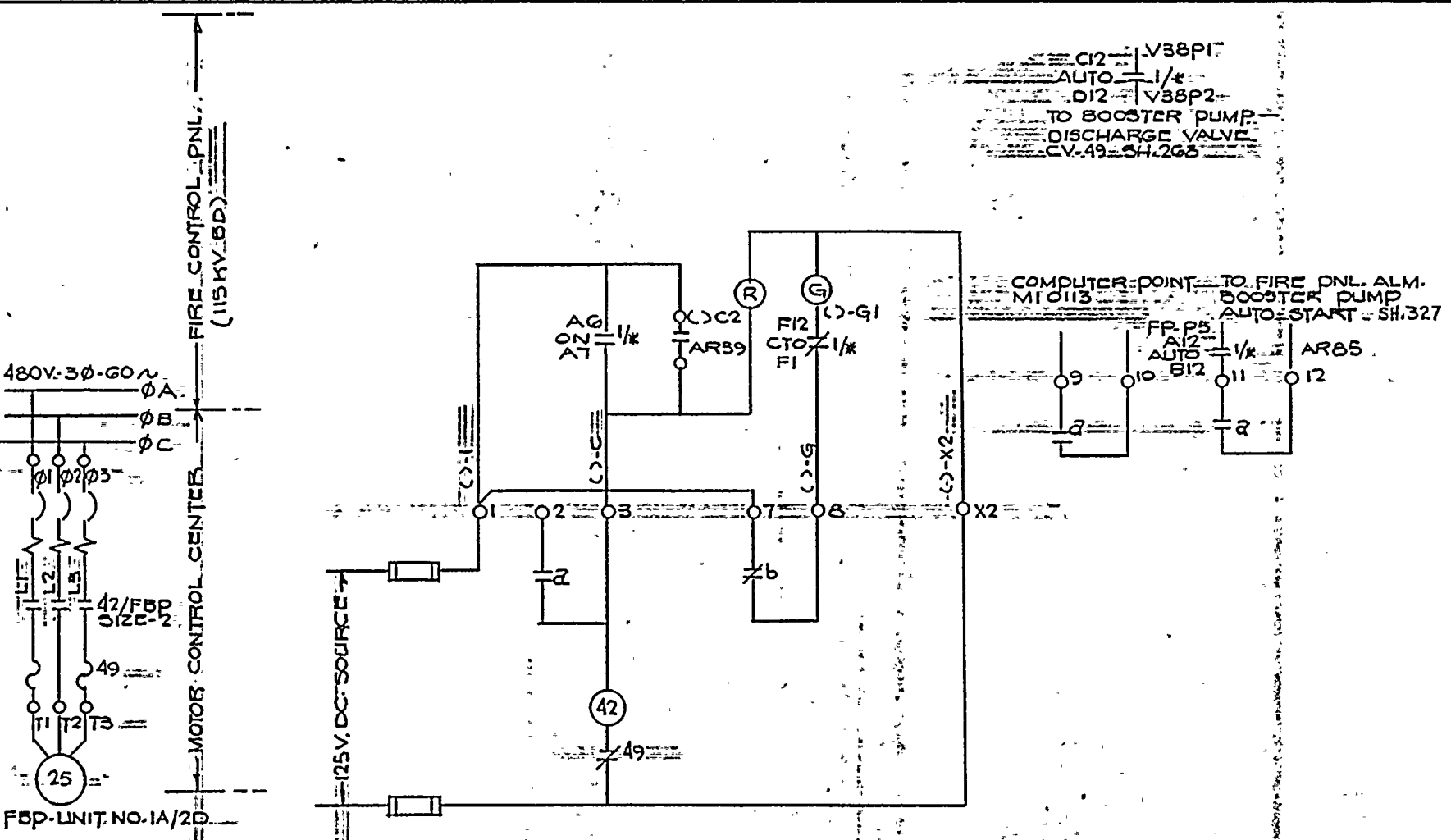
NOTES

*BTP

THIS DWG. SUPERCEDES WESTINGHOUSE DWG. NO. 499B425-159

REV.					
ORIGINAL	DH. 1-1-77 DRAWN BY	DG 1-5-77 CKD	WDB 1-6-77 RESD ENGR	JEB 1-6-77 ENGR MGR	1-1-77 DATE

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1 ELEMENTARY WIRING DIAGRAM RI CONT'D UNIT 1 TECHNICAL DEPT	DATE	SCALE	APPROVED	FOLDER NO.	JOB NO.
ENGR						
10005-150						

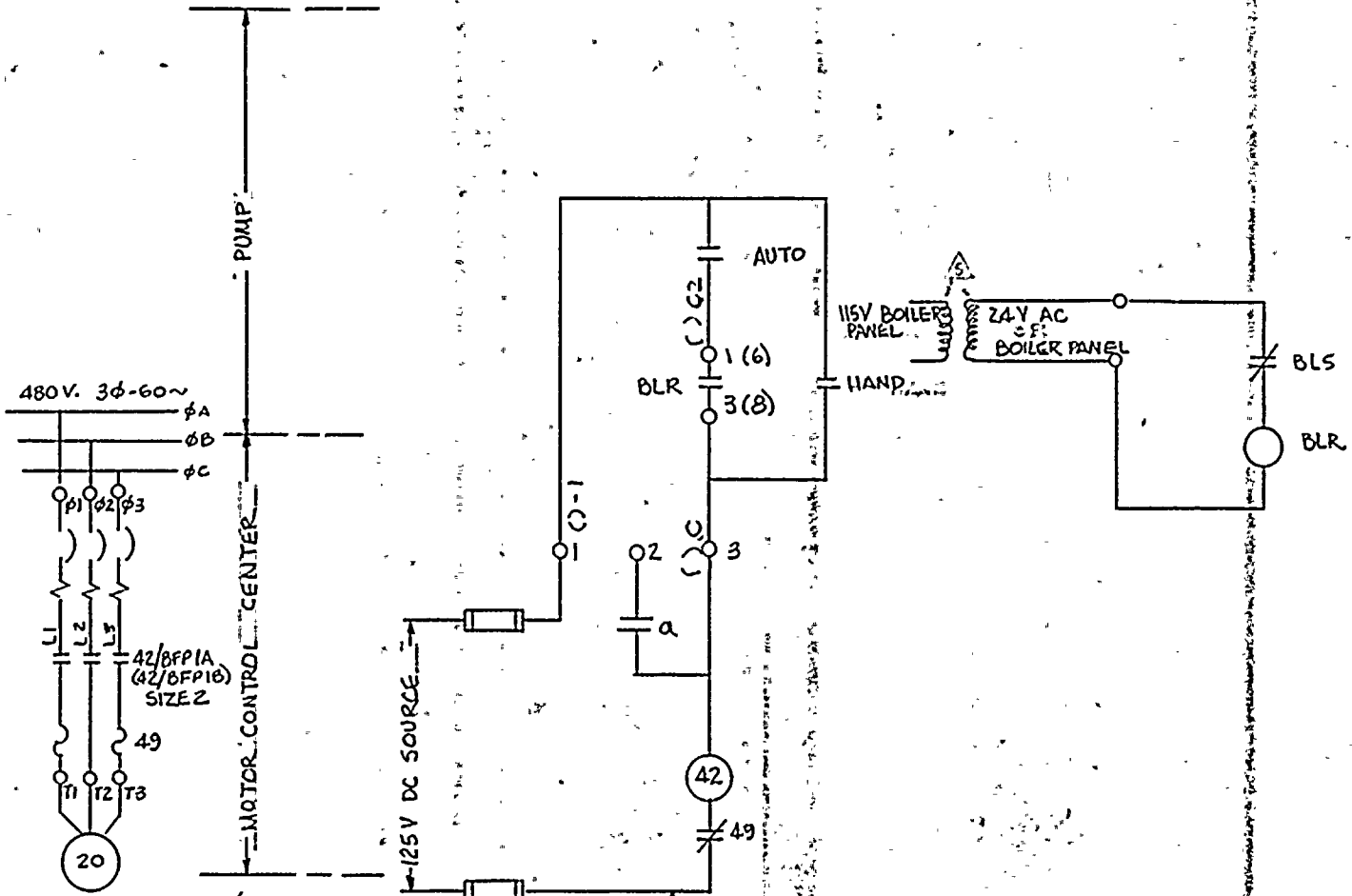


NOTES:
* FBP
FOR AR39 ACTUATION SEE SH.268
1/4-SEE DEV. SH.10, FIG.1, DET. D

THIS DWG. SUPERCEDES WESTINGHOUSE DWG. NO. 499B425-1G1

REV.	DATE	BY	CHK'D	ENGR	DATE
ORIGINAL	04-15-77	DR	CK'D	ENGR	1-1-77
		BY		ENGR	

ROBERT EMMETT GINNA-NUCLEAR		DATE	BY	SCALE
POWER STATION UNIT NO. 1		DATE	BY	SCALE
ELEMENTARY WIRING DIAGRAM		DATE	BY	SCALE
FIRE-SERV. BOOSTER PUMP		DATE	BY	SCALE
ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK		DATE	BY	SCALE
ENGR.		DATE	BY	SCALE
NO. 10905-1G1		DATE	BY	SCALE



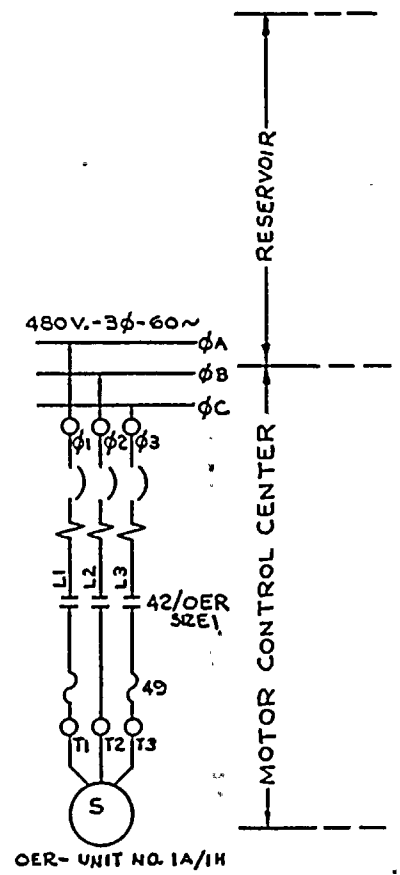
BFP-1A- UNIT NO. 1F/6F
BFP-1B- UNIT NO. 1F/6H

NOTE:
BLR- LEVEL RELAY LOCATED IN
SWITCH BOX (LOCAL)
BLS- BOILER LEVEL SWITCH
* BFP-1A OR BFP-1B

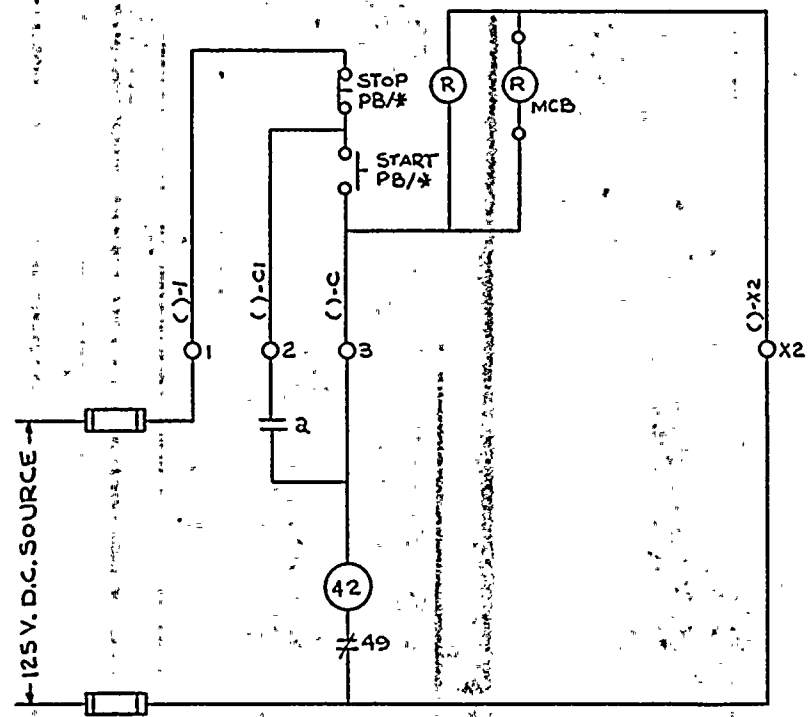
REV						
ORIGINAL	GJT	Rm	RGR	DEL	4/22/62	DATE
	DRAWN BY	CKB	RESP ENGR	ENGR MGR		

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK		STATION UNIT NO. 1		DRAWN BY		DATE		SCALE		NONE	
ENGINEERING		ELEMENTARY WIRING DIAGRAM		TRACED		CHECKED		APPROVED		FOLDER NO.	
NO. 10905-162		CHARTER BLR- BLR FEED PUMP START		ENGR		PNO		JOB NO.		JOB NO.	

NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING NO. 4998425 5H162

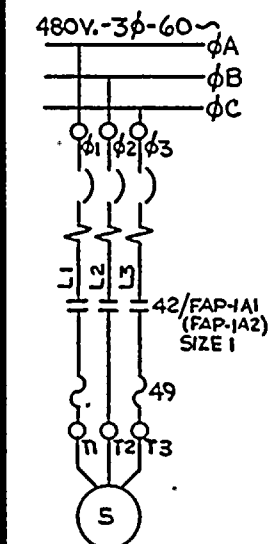


NOTES:
* OER



THIS DWG SUPERSEDES WESTINGHOUSE DWG. NO. 499B425-163

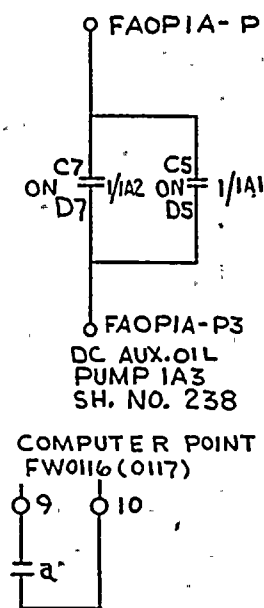
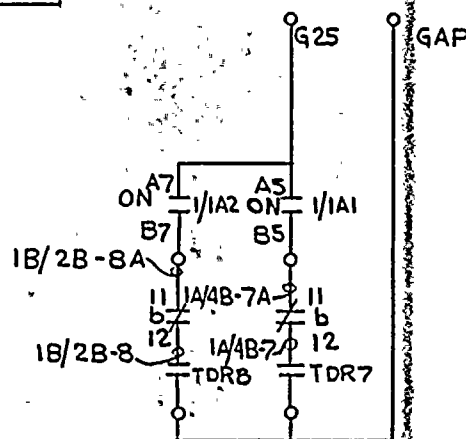
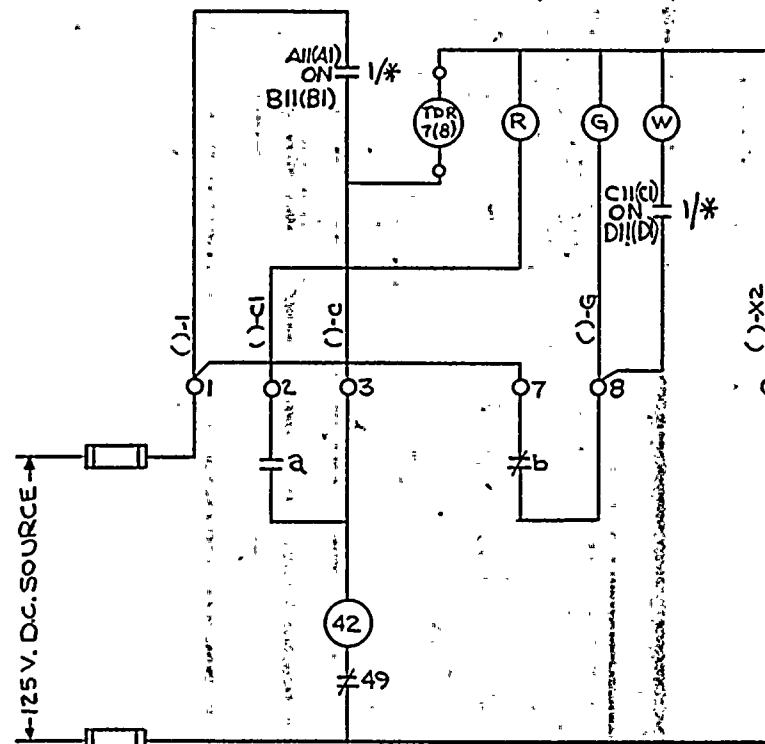
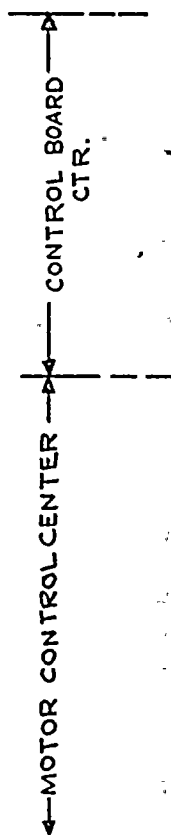
REVISION	DATE	INITIAL	DRAWN BY	CHECKED	RESP. ENG.	ENG. MANOR.	ELEMENTARY WIRING DIAGRAM		
							VAP EXT. TURB. OIL RESV R.		
1							FACILITY GINNA STATION		
2							SCALE		
3							JOB NO.		
4							DRAWING NO.		
5							REV.		
6							ROCHESTER GAS & ELECTRIC CORP.		
7							ROCHESTER, NEW YORK		
8							10905-163		
9							10905-163		
10							10905-163		



FAP-1A1-UNIT NO. 1A/4B
(FAP-1A2-UNIT NO. 1B/2B)

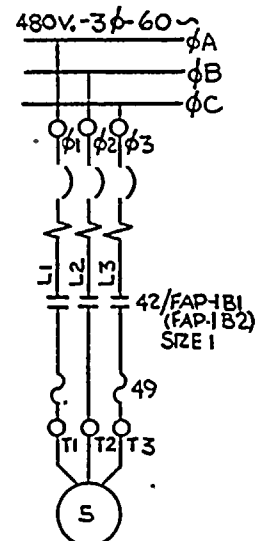
NOTES:

- * FAP-1A1 & FAP-1A2
- 1/* - TYPE W-2 MAINTAINED CONTACT 3 POSITION CONT. SW. CONTROLS FAP-1A1 & FAP-1A2 SW. DEV. SH. 10, FIG. 2, DETAIL E
- TDR7(8) - TIME DELAY RELAY - RELAY RACK



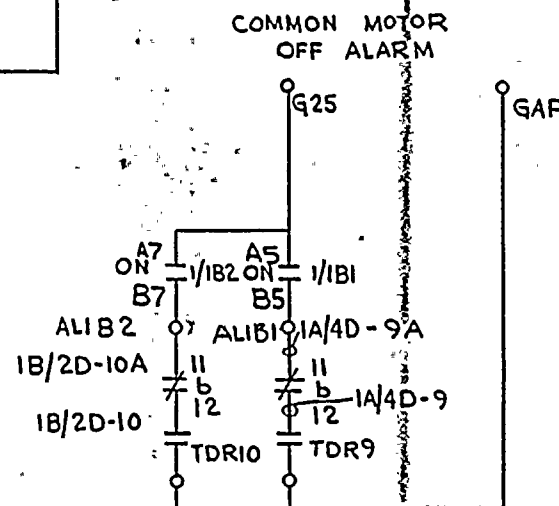
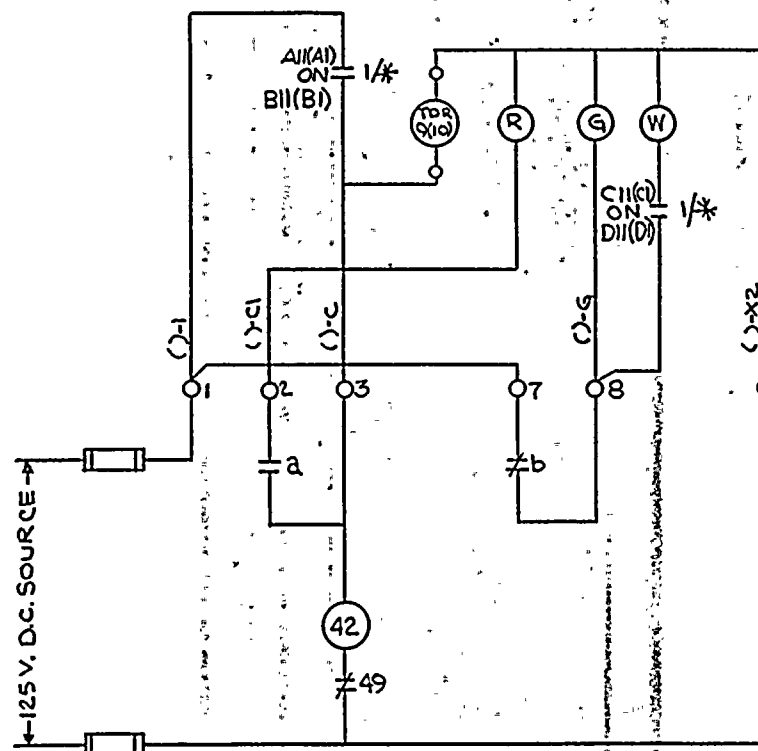
THIS DRAWING SUPERSEDES WESTING HOUSE DRAWING 499B 425-165

ELEMENTARY WIRING DIAGRAM				STATION				DRAWING NO.			
STM. GEN. F.W. AUX. OIL P. 1A1 (1A2)				ROCHESTER GAS & ELECTRIC CORP.				10905-165			
FACILITY				SCALE				JOB NO.			
INITIAL				DATE				REV.			
ORIGINAL				3/23/77				10905-165			
DRAWN BY				CHECKED				REV.			
NUMBER				DRAWN BY				REV.			



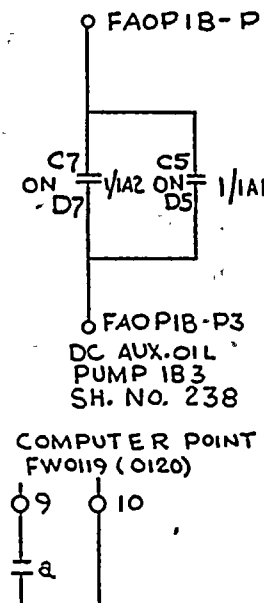
CONTROL BOARD
CTR.

MOTOR CONTROL CENTER







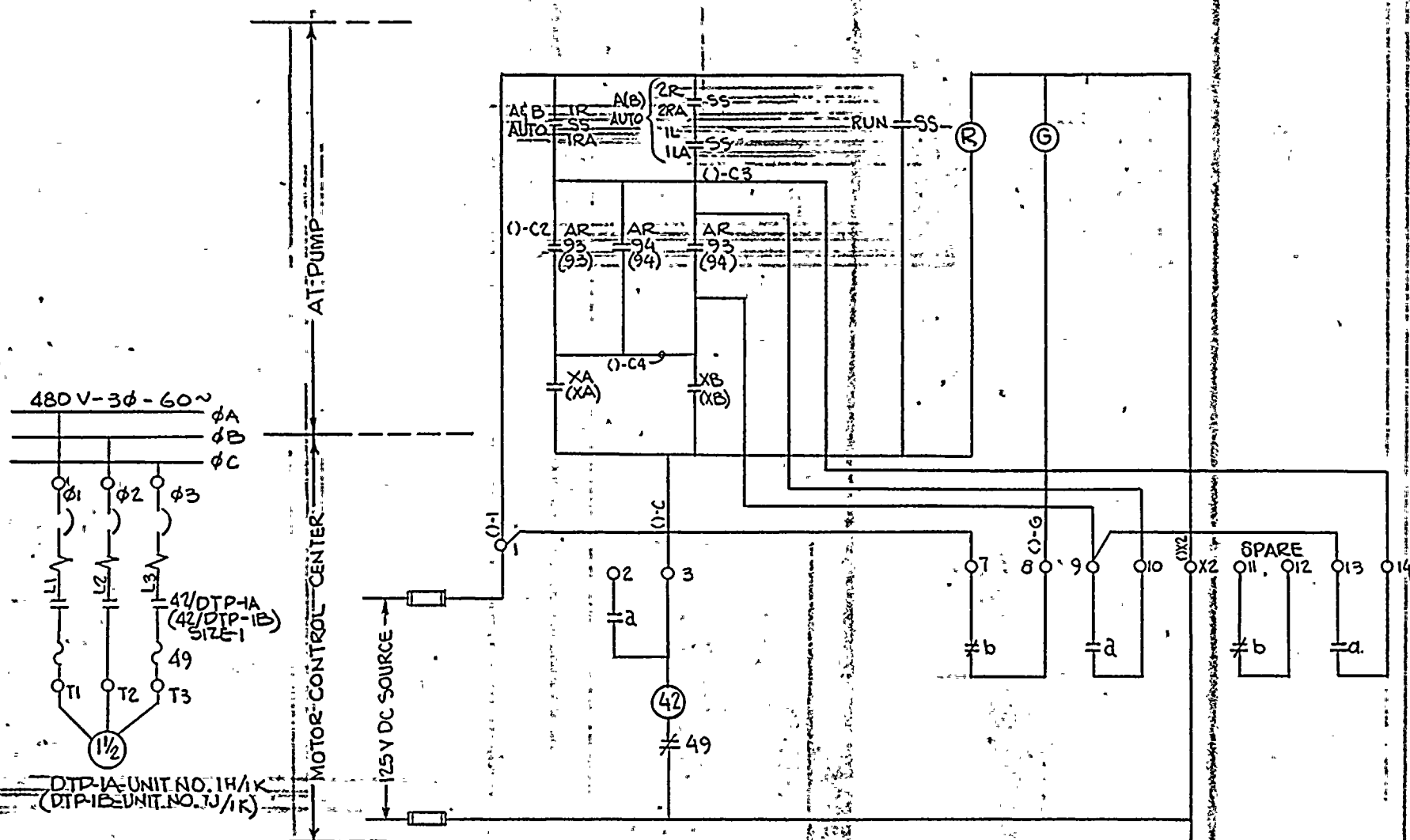
NOTES:

- * FAP-1B1 & FAP-1B2
- 1/2 - TYPE W-2 MAINTAINED CONTACT 3 POSITION CONT. SW. CONTROLS FAP-1B1 & FAP-1B2 SW. DEV. SH 10, FIG. 2, DETAIL F OVAL HANDLE
- TDR9(10) - TIME DELAY RELAY - RELAY RACK



THIS - DRAWING - SUPERSEDES - WESTINGHOUSE DRAWING - 499 B425-166

											ELEMENTARY WIRING DIAGRAM										DRAWING NO.		REV.	
											STM, GEN. F.W.P. AUX. OIL P 1B1 (1B2)										10905-166			
											FACILITY 'GINNA' STATION										JOB NO.			
											SCALE													
											ROCHESTER GAS & ELECTRIC CORP.													
											ROCHESTER, NEW YORK													
											DATE										REVISION		NUMBER	
											INITIAL										DATE			
											3/24/77										3/24/77		10905-166	
											6/19/78										6/19/78		10905-166	
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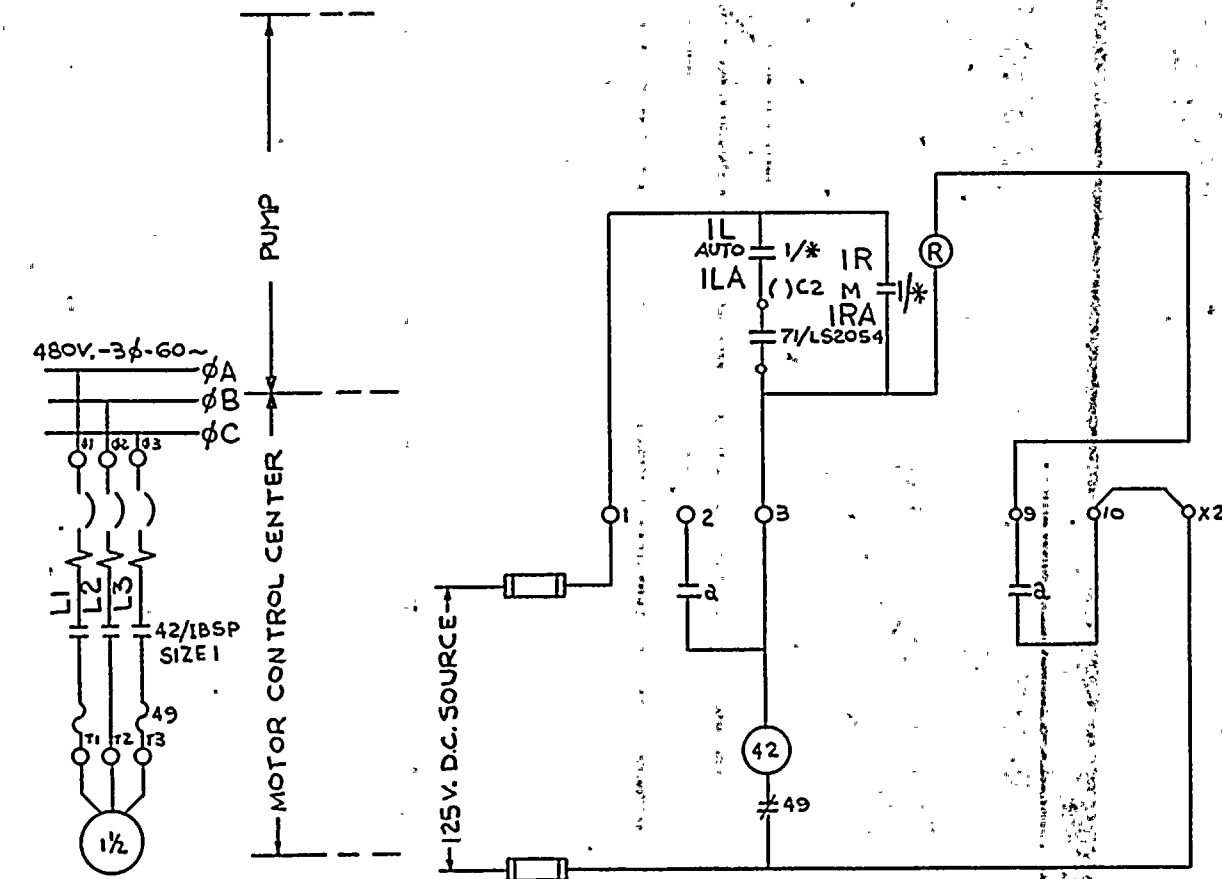


NOTES:

- 55-3 POSITION SELECTOR SWITCH (TANKS A4B AUTO, TANK A AUTO, RUN)- PUMP-1A (TANKS A4B AUTO, TANK B AUTO, RUN)- PUMP-1B
- AR 93(94) LOCATED IN DIESEL PUMP CONTROL PANEL ELEM. SH 320
- XA(XB) RELAYS LOCATED IN BASLER CABINET - SEE ALCO DWG. 59075310620

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO 499B425 SH 167

ELEMENTARY WIRING DIAGRAM DIESEL F.O. TRANSFER PUMP 1A (1B)				ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK		REV.
FACILITY GINNA STA		DRAWING NO.		REV.		
SCALE		JOB NO.		10905-167		
REVISION	DATE	INITIAL	BY	CHECKED	REVIEWED	ENG. MANOR.
ORIGINAL						
REVISION						
NUMBER						

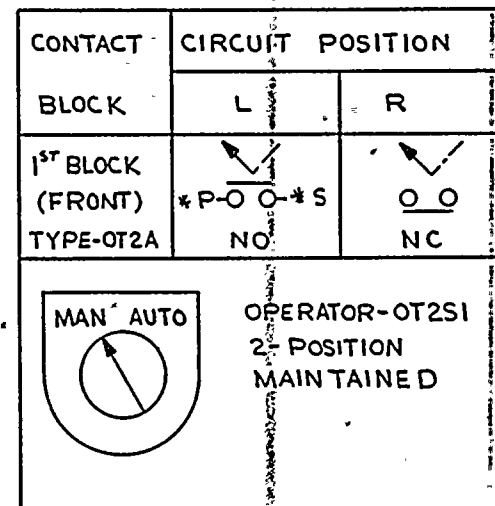


IBSP-UNIT NO 1F/6D

NOTES:

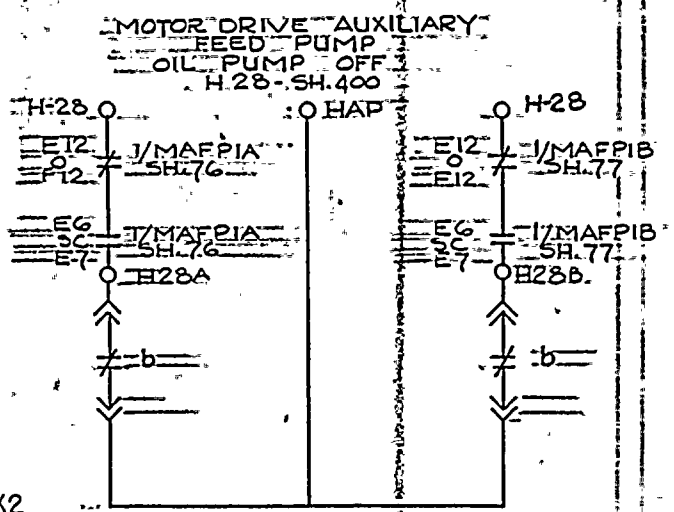
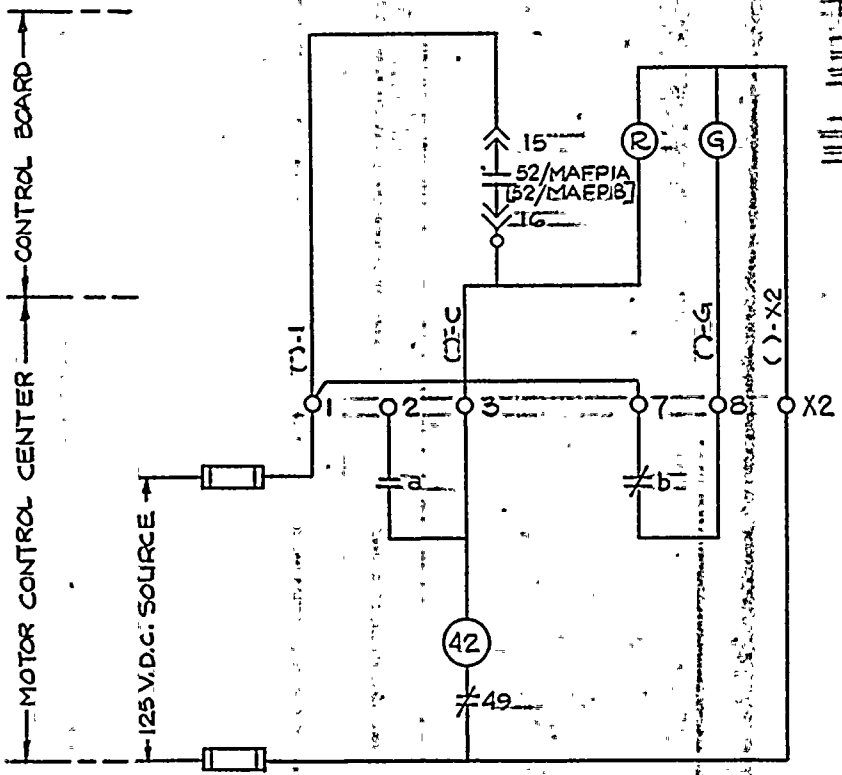
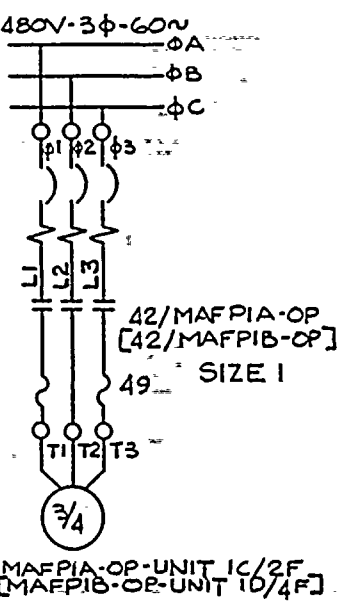
*IBSP

71/LS 2054-LEVEL SWITCH WHICH CLOSSES
ON HIGH SUMP WATER LEVEL

















































































THIS DWG. SUPSEDES WESTING HOUSE DWG. NO. 499B425-168

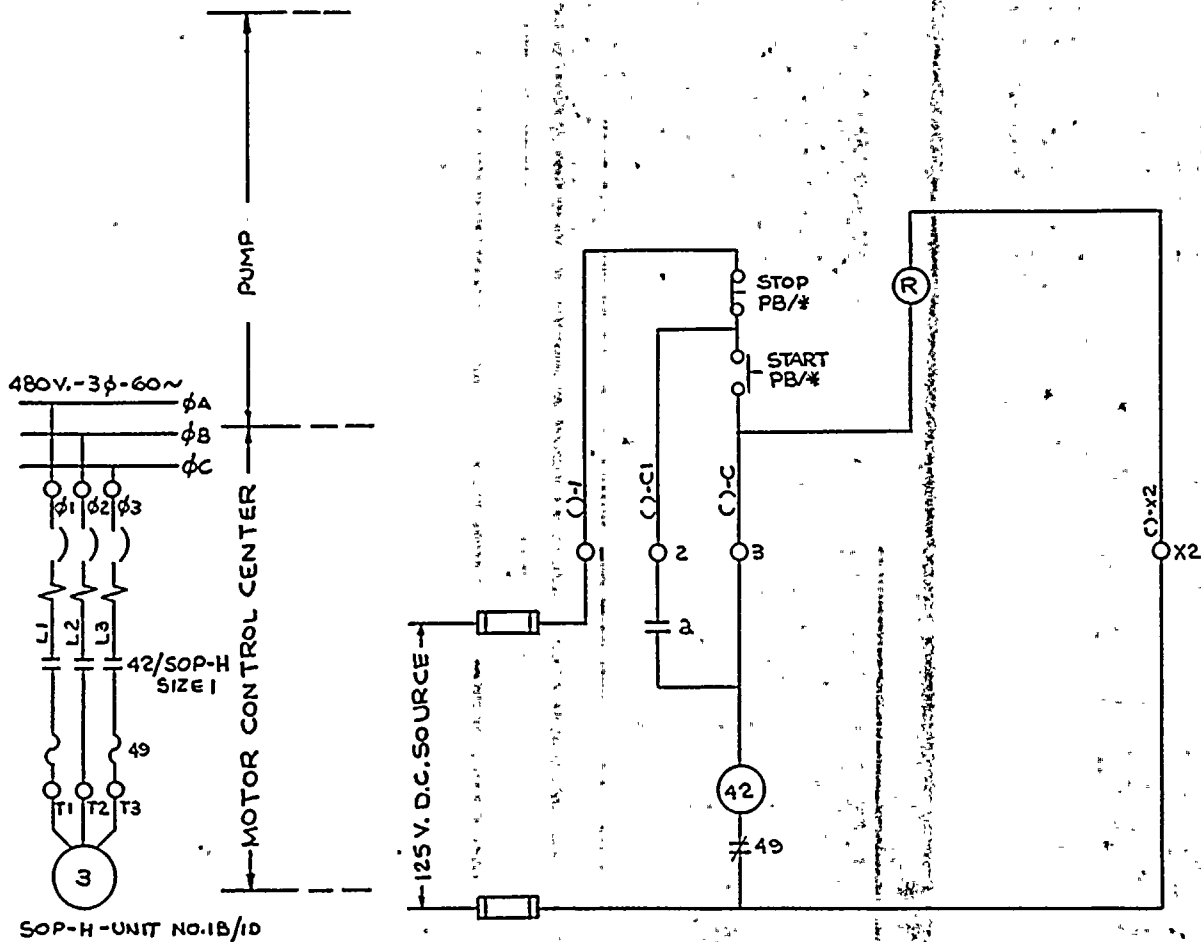
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THIS DWG. SUPERSEDES WEST.HSE. DWG. 499B425-169

ELEMENTARY WIRING DIAGRAM MOT. DR. AF1A [1B] - OIL PUMP	FACILITY - GINNA		ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	
	SCALE - NONE	JOB NO.	DRAWING NO.	REV.
ORIGINAL	DATE	INITIAL	DATE	REVISION
AVM	6/13/77	AVM	6/13/77	1
DRAWN BY	3/13/77	AVM	3/13/77	2
CHECKED		AVM		3
RESP. ENG.		AVM		4
ENG. MANG.		AVM		5
NUMBER				

	ELEMENTARY WIRING DIAGRAM										ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK				
	TURB. DVN. AUX. FWP-AC OIL PUMP.										FACILITY GINNA STATION				
	SCALE										JOB NO.		DRAWING NO.		REV.
													10905-170		
	ORIGINAL										REVISION		NUMBER		
	DATE										CHECKED		BY		
	INITIAL										DRAWN		ENG.		
	DATE										3/25/77		6/1/77		
	TMD										PMS		HSD		
	DATE										3/25/77		6/1/77		
	DATE										3/25/77		6/1/77		
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	DATE										3/25/77		6/1/77		



NOTES:
* SOP-H

THIS DRAWING SUPERSEDES
WSTINGHOUSE 499B425 - 171

ELEMENTARY WIRING DIAGRAM
GEN. H₂ SIDE SEAL-OIL PUMP

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

FACILITY: GINNA STATION
SCALE

NO. 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ORIGINAL
DATE
3/16/77
3/25/77
6/15/77
6/15/77

REVISION

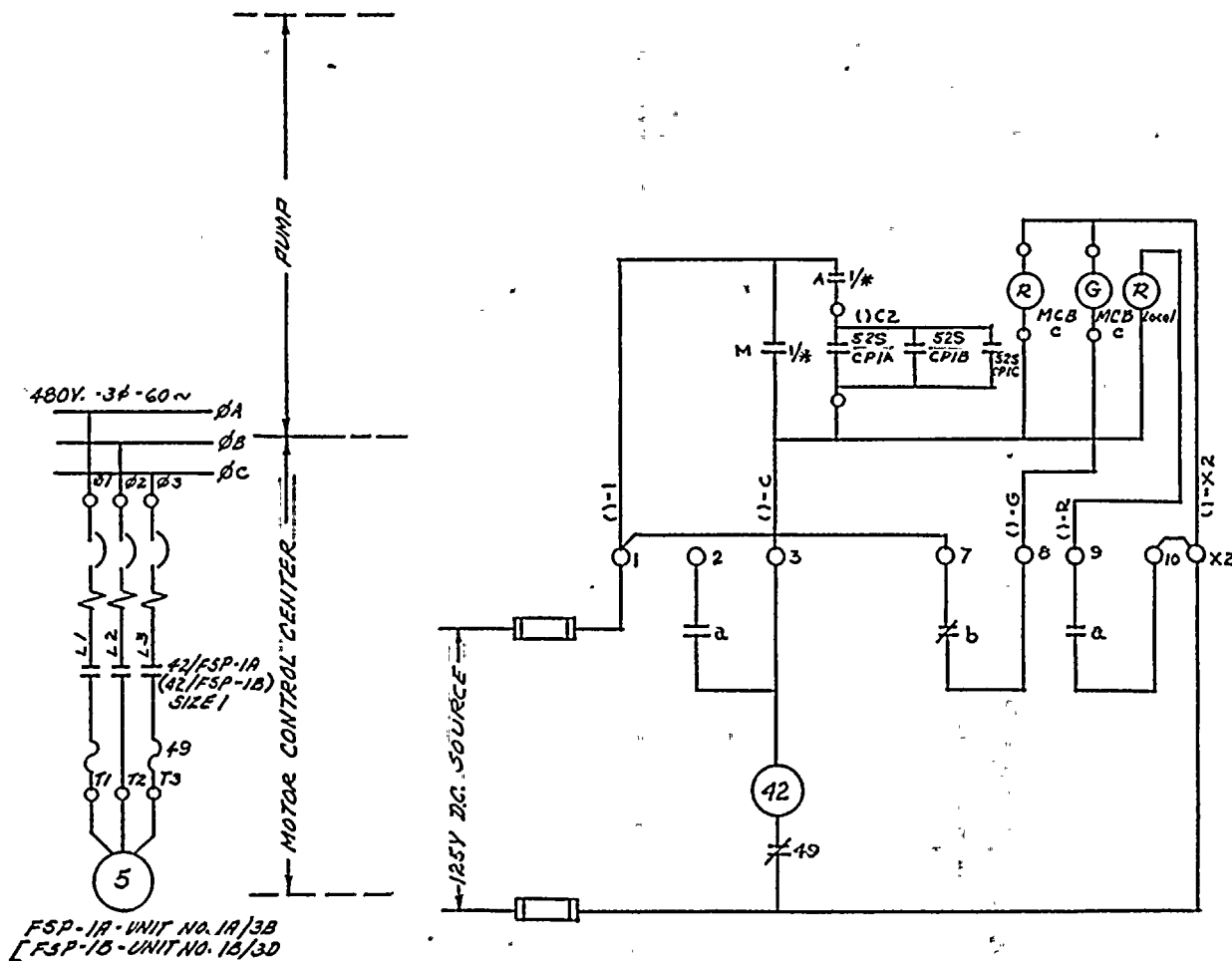
NO. 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

NO. 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

NO. 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

NO. 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

	ORIGINAL	INITIAL	DRAWN BY	CHECKED	RESP. ENG.	ENG. MANOR.	JOB NO.	DRAWING NO.	REV.						
			MD	5-6-77	5/10/77	6/15/77		10905-175							



FSP-1A - UNIT NO. 1A/3B
[FSP-1B - UNIT NO. 1B/3D]

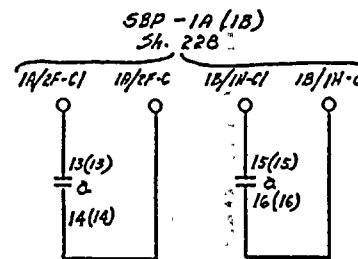
NOTES:

*-FSP-1A OR FSP-1B.

1/* SEE DEV. U EXCEPT NAMEPLATE
TO READ MAN/OFF/AUTO SH.13




52S/CP1A, 1B, 1C, CONDENSATE PUMP
Sh. 32, 33, 34

THIS DRAWING SUPERCEDES WESTINGHOUSE
DWG. 499 B425, SH. NO. 176, (REV. 5)



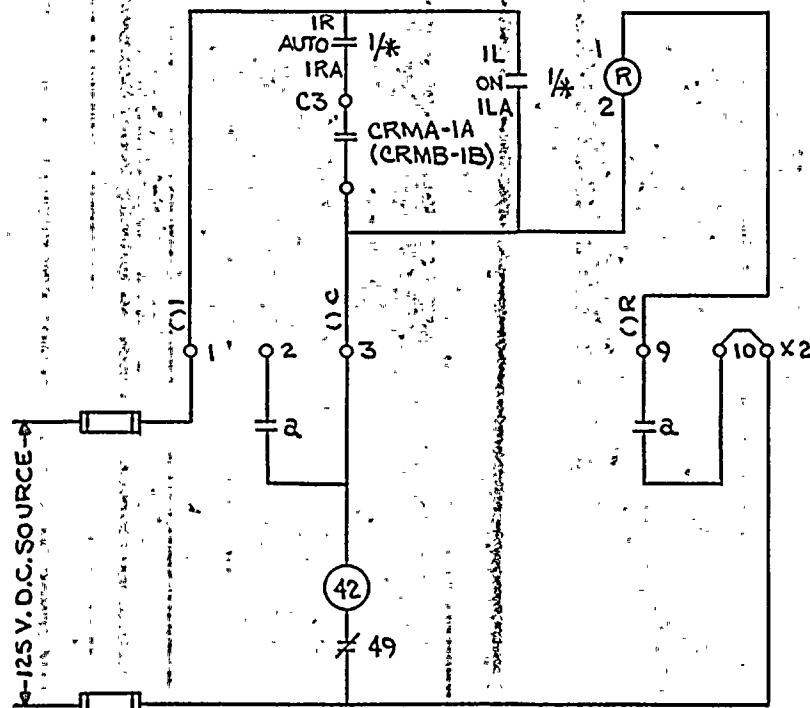
REV.						
ORIGINAL	N.J.A.	R.H.M.	PCX	RCM	6/5/75	
	DRAWN BY	CK'D.	RESP. ENG'R.	ENG'R. MGR.	DATE	

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ENGINEERING	DEPT	NO. 10905-176
ROBERT EMMETT GUNN NUCLEAR POWER STATION UNIT I ELEMENTARY WIRING DIAGRAM FEED PUMP SEAL DRAIN PUMPS 1A, 1B	SCALE	DATE	BY
	1/16"	6/7/75	A.S.D.
	APPROVED		
	FOLDER NO.		
	JOB NO.		

	NUMBER	REVISION	DATE	INITIAL	DRAWN BY	CHECKED	RES. ENG.	ENG. MANOR.	JOB NO.	DRAWING NO.	REV.
			4/18/77	mgd	mgd	4/29/77	4/29/77	4/10/77		10905-178	
											
<p>ELEMENTARY WIRING DIAGRAM CDSER PIT AUX. SUMP PUMP</p> <p>FACILITY GINNA "STATION"</p> <p>SCALE 1"=100' (SEE SHEET 10905-178 FOR DETAILS)</p> <p>ROCHESTER GAS & ELECTRIC CORP. 1000 W. WOODSTOCK RD. ROCHESTER, N.Y. 14609</p>											

NOTES:

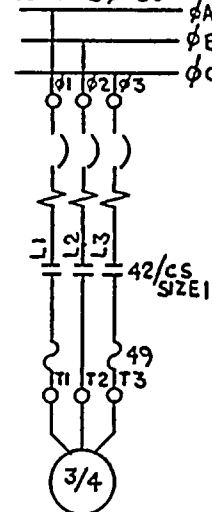
CRCP-1A (CRCP-1B)
1/* SEE DEV'L SH.13
CRMA-1A (CRMA-1B) - ALTERNATING FLOAT SW.
WHICH OPERATES CRCP-1A & CRCP-1B



THIS DRAWING SUPERSEDES WESTING HOUSE DRAWING 499.B425 - 179.

	ORIGINAL 10-17-77	INITIAL <i>JMB</i>	DATE 10-17-77	DRAWN BY 5-17-77	CHECKED 7/2/77	T. REP. END.	ENG. MANGR.	

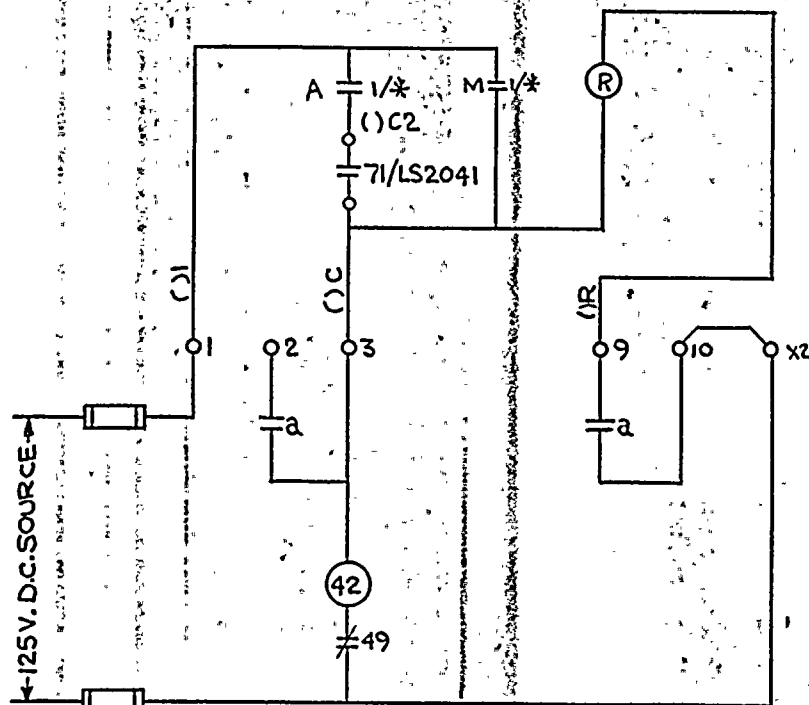
480V.-3 ϕ -60~



CS- UNIT NO.1B/3F

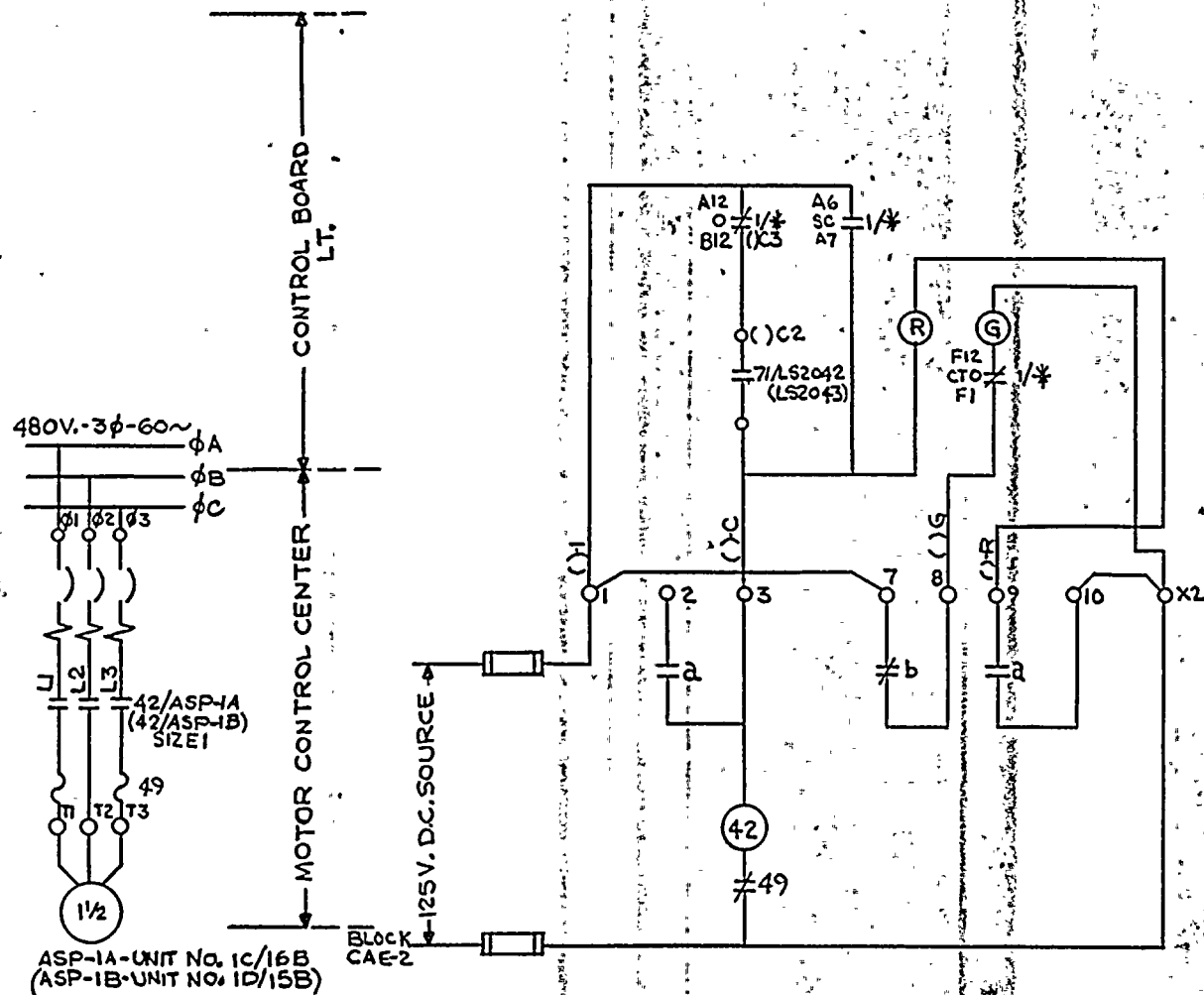
NOTES: 

* CS
SELECTOR SWITCH LOCATED NEAR PUMP
7/LS2041- LEVEL SW. IN CDSTE PIT SUMP



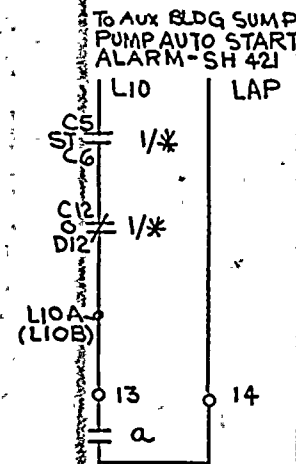
THIS DRAWING SUPERSEDES WESTING HOUSE DRAWING 499 B 425 - 182

△	ORIGINAL	INITIAL	DATE	REVISION	NUMBER
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△	2	ms	5/17/71		2
△	3	ms	5/17/71		3
△	4	ms	5/17/71		4
△	5	ms	5/17/71		5
△	6	ms	5/17/71		6
△	7	ms	5/17/71		7
△	8	ms	5/17/71		8
△	9	ms	5/17/71		9
△	10	ms	5/17/71		10
△	11	ms	5/17/71		11
△	12	ms	5/17/71		12
△	13	ms	5/17/71		13
△	14	ms	5/17/71		14
△	15	ms	5/17/71		15
△	16	ms	5/17/71		16
△	17	ms	5/17/71		17
△	18	ms	5/17/71		18
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△	21	ms	5/17/71		21
△	22	ms	5/17/71		22
△	23	ms	5/17/71		23
△	24	ms	5/17/71		24
△	25	ms	5/17/71		25
△	26	ms	5/17/71		26
△	27	ms	5/17/71		27
△	28	ms	5/17/71		28
△	29	ms	5/17/71		29
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△	31	ms	5/17/71		31
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△	35	ms	5/17/71		35
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△	44	ms	5/17/71		44
△	45	ms	5/17/71		45
△	46	ms	5/17/71		46
△	47	ms	5/17/71		47
△	48	ms	5/17/71		48
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△	51	ms	5/17/71		51
△	52	ms	5/17/71		52
△	53	ms	5/17/71		53
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△	79	ms	5/17/71		79
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△	81	ms	5/17/71		81
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△	89	ms	5/17/71		89
△	90	ms	5/17/71		90
△	91	ms	5/17/71		91
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△	93	ms	5/17/71		93
△	94	ms	5/17/71		94
△	95	ms	5/17/71		95
△	96	ms	5/17/71		96
△	97	ms	5/17/71		97
△	98	ms	5/17/71		98
△	99	ms	5/17/71		99
△	100	ms	5/17/71		100



NOTES: 1/* - SEE DEV. SH.10, FIG. 1 DETAIL D.
* ASP-1A OR ASP-1B

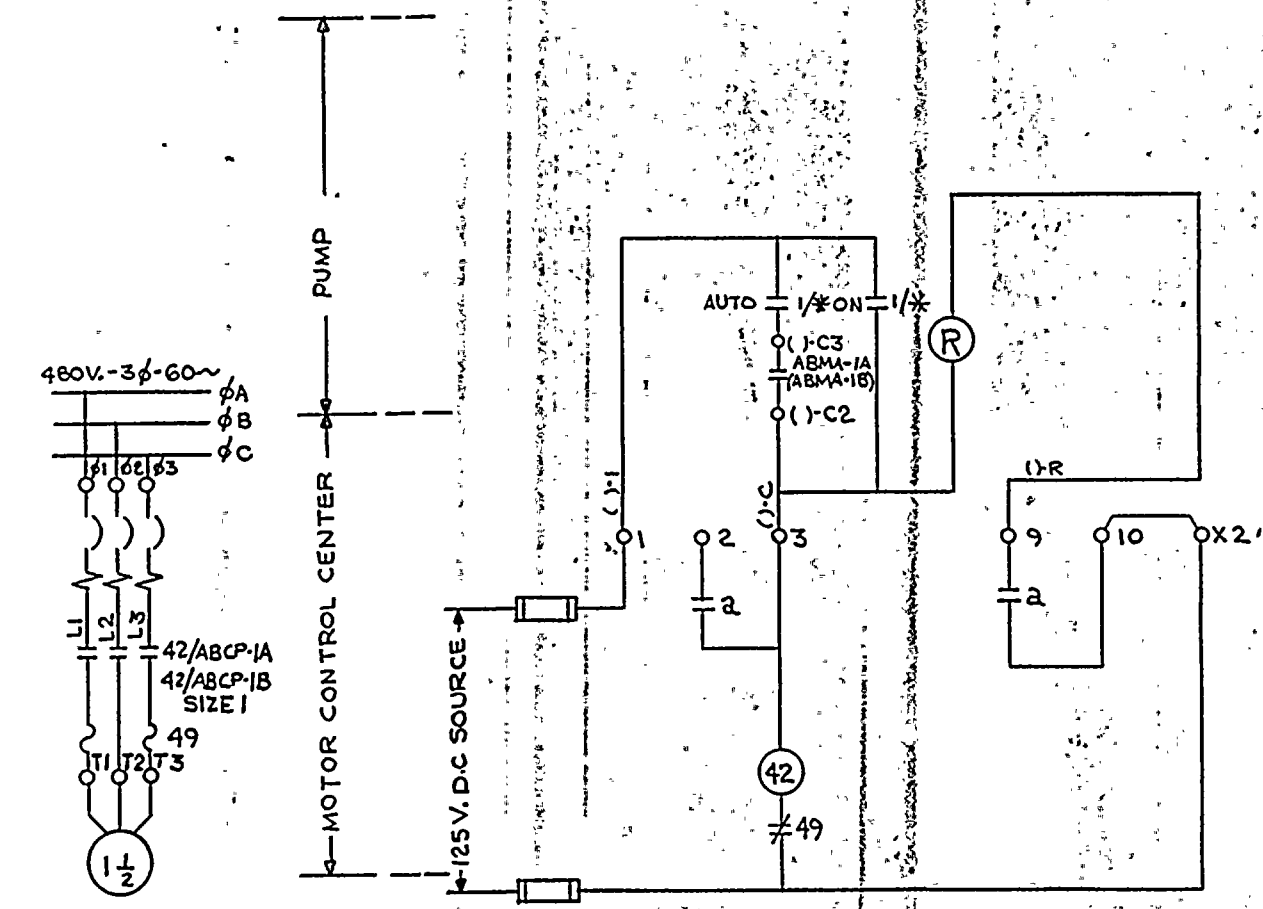
71/LS2042 (LS2043) FLOAT SWITCH ENERGIZES THE SUMP
PUMP MOTOR ON HIGH SUMP LEVEL
SW. DEV. SH. 10



THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425-183

ELEMENARY WIRING DIAGRAM				DRAWING 499B425-183			
REACT. AUX. BLDG. SUMP PUMP 1A, 1B				DRAWING NO.			
FACILITY GINNA STATION				JOB NO.			
SCALE				DRAWING NO.			
INITIAL				DATE			
ORIGINAL				REVISION			
NUMBER				10905-183			
REV.				10905-183			


ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK



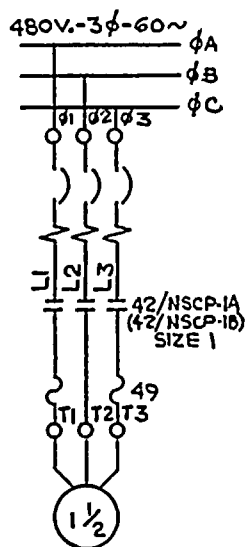
ABCP-1A- UNIT NO. 1E/7D
(ABCP-1B- UNIT NO. 1E/7F)

NOTES:
* ABCP-1A OR (ABCP-1B)
- ABMA-1A OR (ABMA-1B) - ALTERNATING
FLOAT SW. WHICH OPERATES BOTH
ABCP-1A AND ABCP-1B

THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425-184

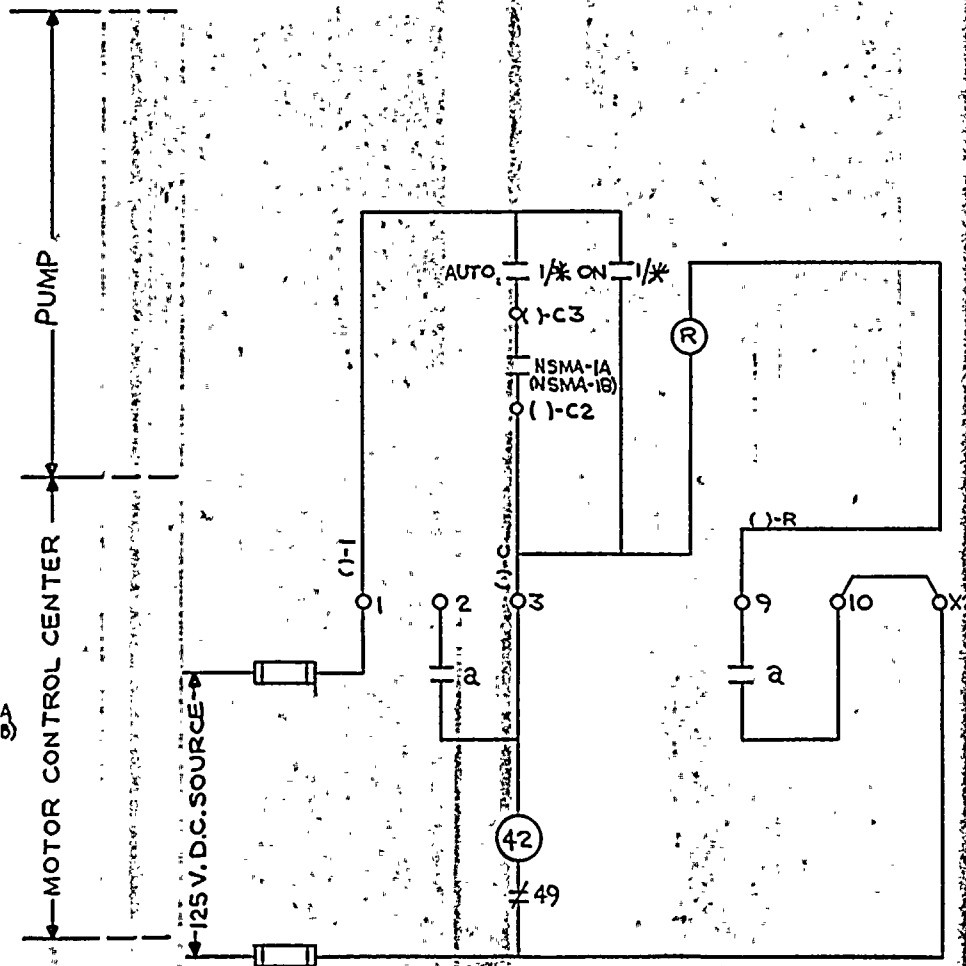
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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NSCP-1A-UNIT 1E/7H
(NSCP-1B-UNIT 1E/7K)



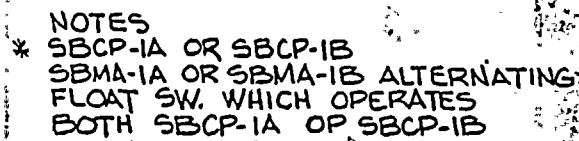
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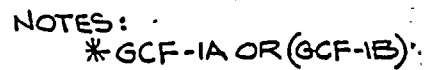
* NSCP-1A OR (NSCP-1B)
NSMA-1A OR (NSMA-1B) ALTERNATING
FLOAT SW. WHICH OPERATES BOTH
NSCP-1A AND NSCP-1B



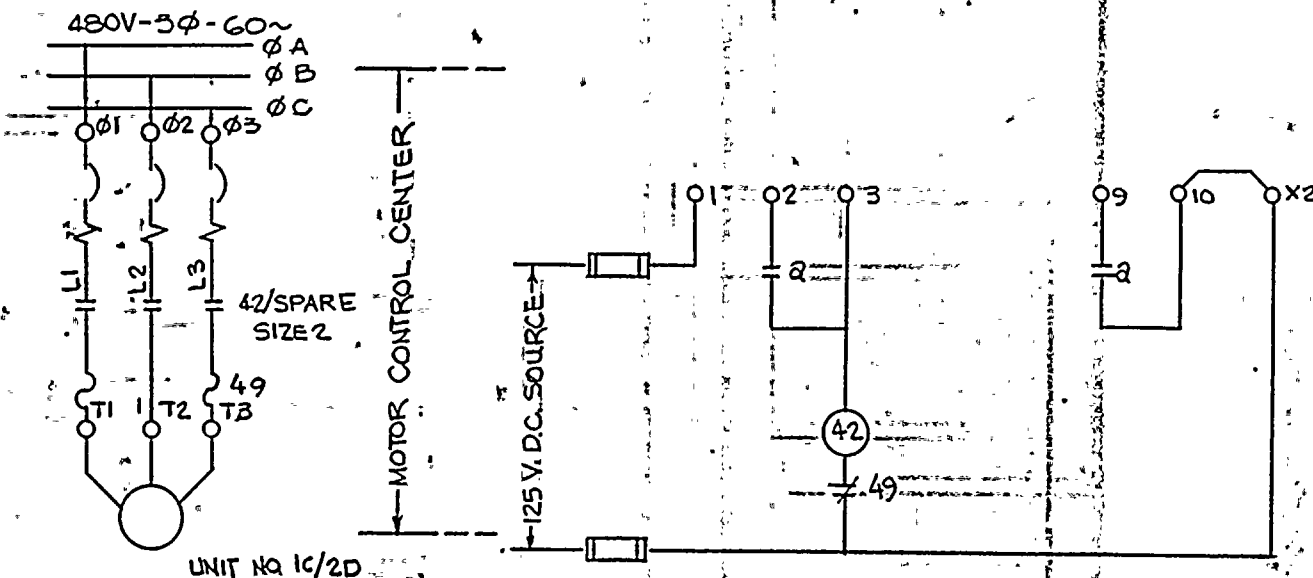
THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425-185

ELEMENTARY WIRING DIAGRAM				AUX. BLDG. NSS. COSTE. RTN. PUMP. TATIB			
FACILITY GINNA STATION				ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK			
SCALE				JOB NO.			
DRAWN BY				DRAWING NO.			
DATE				10905-185			
REVISION				REV.			
NUMBER				1			

[illegible]



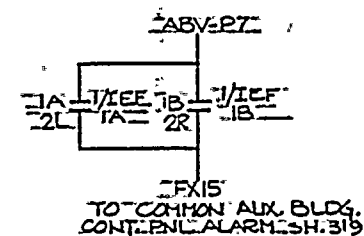
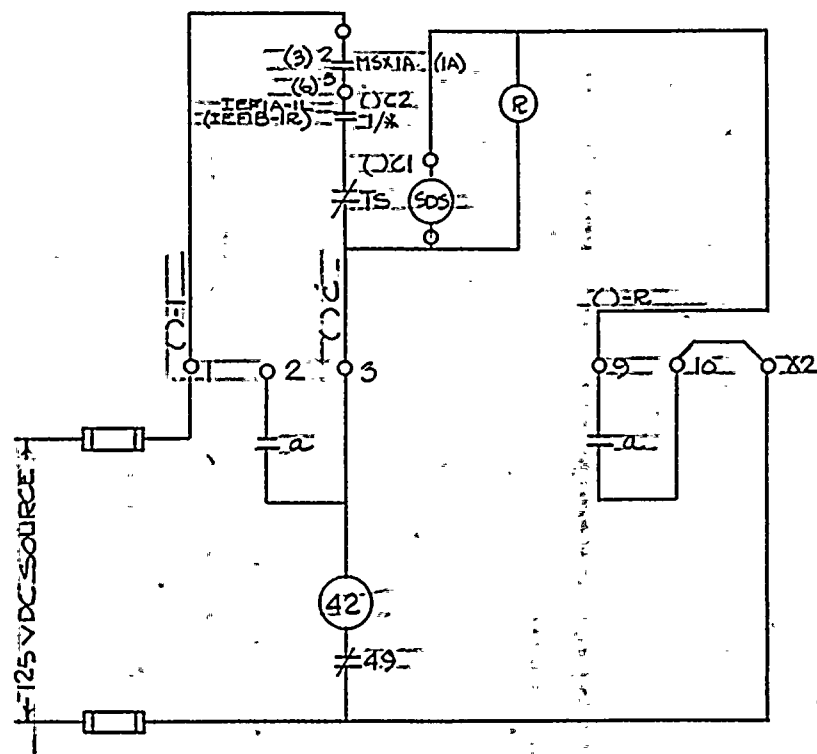
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	1. REVISIONS	2. DATE	3. INITIAL	4. CHECKED	5. DRAWN	6. REV.
	1. REVISIONS	2. DATE	3. INITIAL	4. CHECKED	5. DRAWN	6. REV.
	1. REVISIONS	2. DATE	3. INITIAL	4. CHECKED	5. DRAWN	6. REV.



NOTES:

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH 189

ELEMENTARY WIRING DIAGRAM				ROCHESTER GAS & ELECTRIC CORP.			
SPARE FEEDER				ROCHESTER, NEW YORK			
FACILITY GINNA				SCALE			
JOB NO.				DRAWING NO.			
10905-189				REV.			
DRAWN BY				CHECKED			
GJF				ENG. MAN'G.			
1/11/77				1/10/78			
DATE				1/10/78			
ORIGINAL				1/10/78			
NUMBER				1/10/78			



NOTES:
* IEF-1A & IEF-1B
TS: FIRE PROTECTION THERMOSTAT OPENS
TEMP RISES 3 POSITION SELECTOR.
SW. OPERATES BOTH FANS (1A-OFF-1B)
DEV. M
SDS - SUCT. DAMPER SOLENOID
MSX1A - MASTER SW. AUX. RELAY. SH. 319

REV.						
ORIGINAL	ALJ	RM	NRB	RES	4/29/76	
	DWN BY	CK'D	RESP ENG	ENG. HGR	DATE	

THIS DWG. SUPERSEDES W. DWG. 491 B425 SH. 190

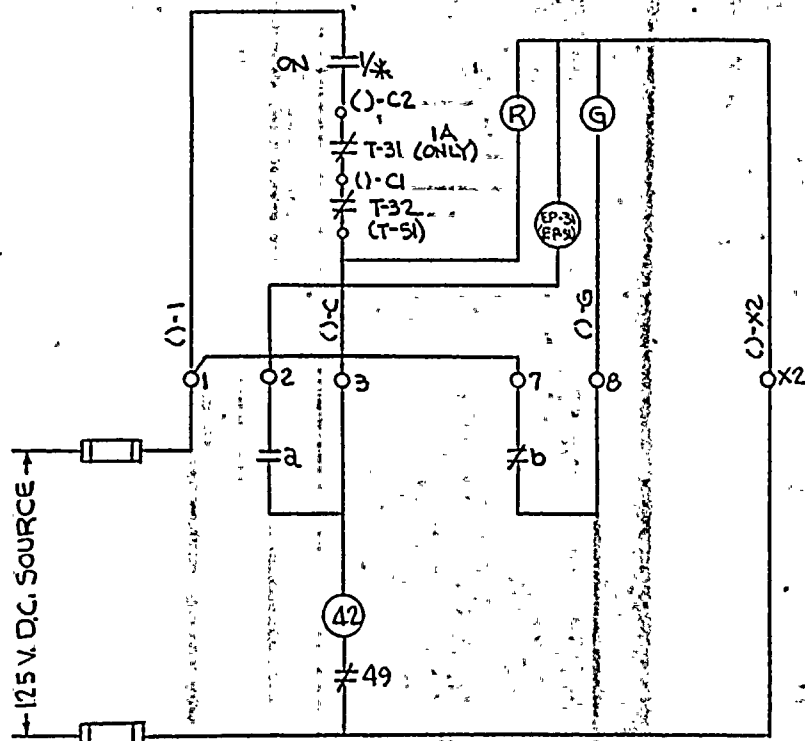
ROCHESTER GAS & ELECTRIC CORP.,
ROCHESTER, NEW YORK

R. E. GINNA. NUCLEAR POWER STA. UNIT #1-
ELEMENTARY WIRING DIAGRAM.

DRAWN	BY	DATE	SCALE
TRACED			APPROVED
CHECKED			FOLDER NO.
REC.			JOB NO.

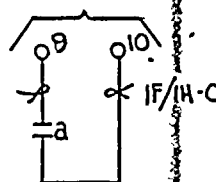
No. 1005100

SBAHU-1A-UNIT NO 1F/3F
(SBAHU-1C-UNIT NO 1F/3K)



~~IF/1H-~~

START S.B.
ROOF EXHAUST FAN ID
UNIT IF/H ONLY
SH. NO. 214



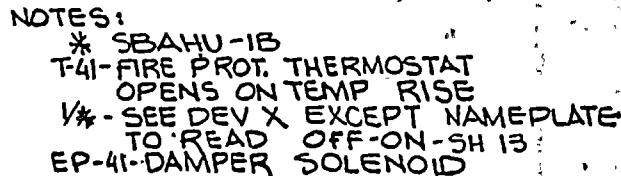
1F/5B-1
START 5B
BTN-AIR FAN 1A
UNIT 1F/5B ONLY
SH NO 195
1E/5B-C

NOTES:

- NOTES:
 *- SBAHU-1A OR (SBAHU-1C)
 1/4 SEE DEV.X EXCEPT NAMEPLATE
 TO READ STOP-START - SHEET 13
 T-31 - LOW TEMP TRIP (SBAHU-1A ONLY)
 T-32 (51) - HIGH TEMP TRIP
 EP 51 (51) - DAMPER SOLENOID

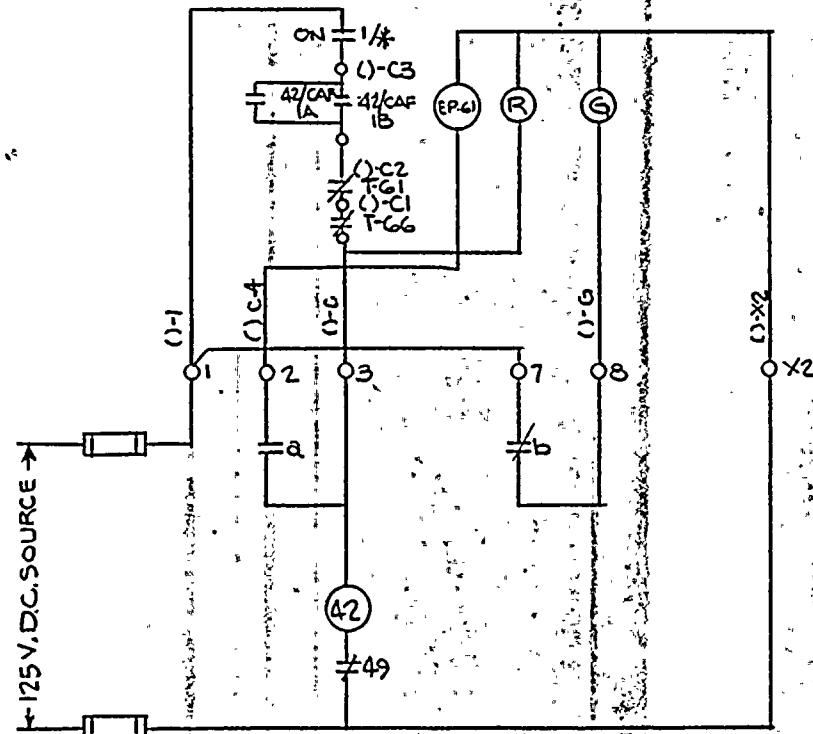
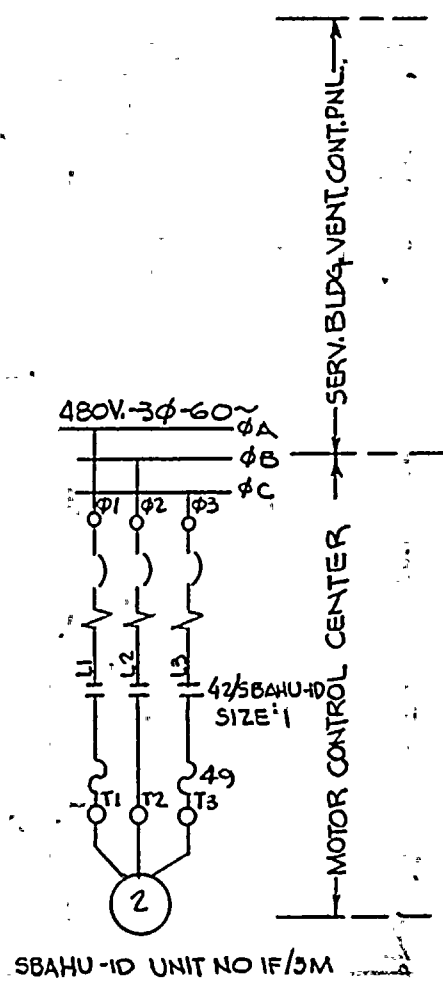
NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425 SH 191

	ORIGINAL	INITIAL DATE	GJF 7/25/67	RW 7/26/67	RW 8/20/67	RW 9/10/67	RW 10/10/67	RW 10/10/67	RW 10/10/67	RW 10/10/67
NUMBER	- REVISION	DATE	DRAWN BY	CHECKED	RESP. ENG.	EMG. MANOR.				
			JOB NO.		DRAWING NO.		REV.			
					10905-191					
			SCALE _____		FACILITY GINNA STA		ROCHESTER GAS & ELECTRIC CORP. 100 CORTLAND ST., ROCHESTER, NEW YORK 14602-1000			
					ELEMENTARY WIRING DIAGRAM SERV BLDG AIR HDQg UNIT 1A,(IC)					



NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425 SH 192

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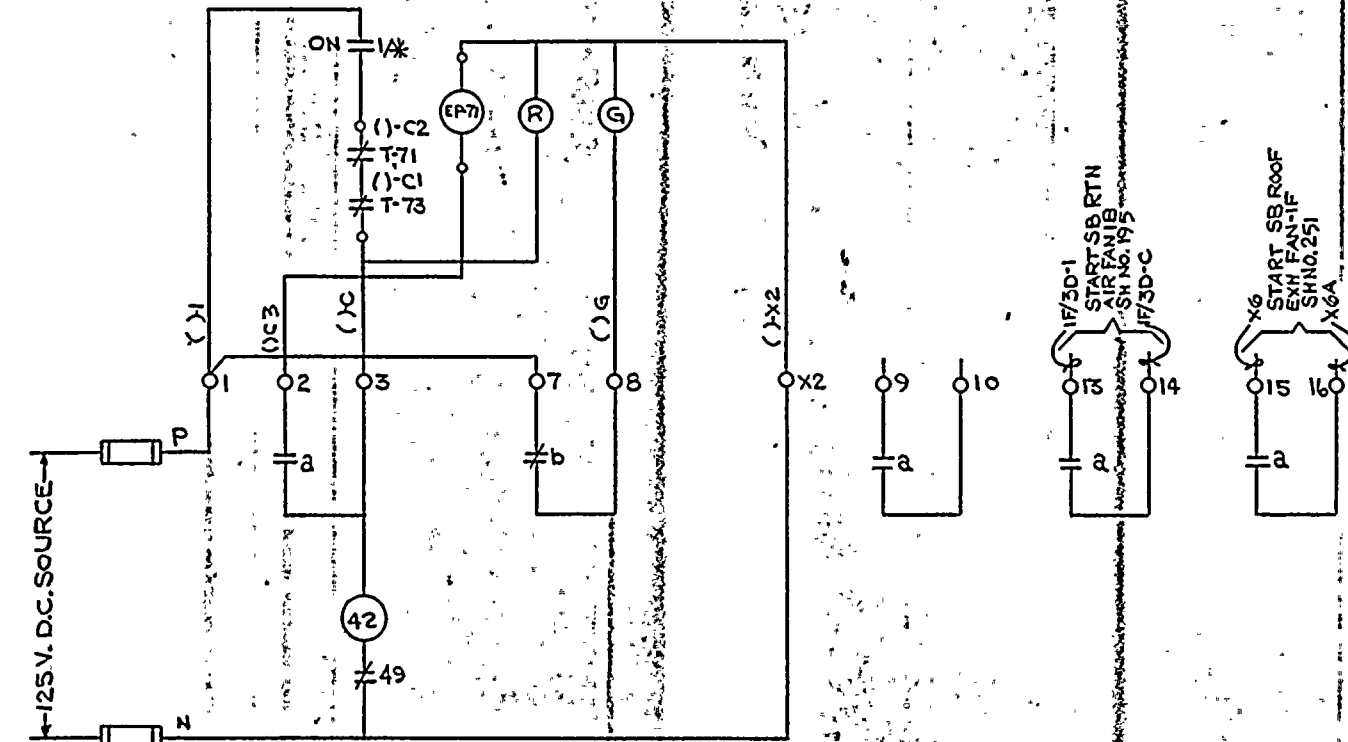
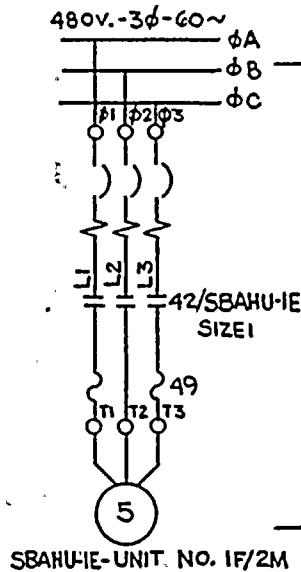


NOTES:

- * SBAHU-1D
- CAF - CONTROL ACCESS AREA
- FAN SH 199.
- T-61 - FIRE PROTECTION THERMOSTAT OPENS ON TEMP RISE
- T-66 - FREESTAT OPENS ON LOW TEMP
- 1/4 - SEE DEV X EXCEPT NAME: PLATE TO READ ON-OFF, SH 13
- EP-61 - DAMPER SOLENOID.

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425 SH 193

										ELEMENTARY WIRING DIAGRAM SERV BLDG. "AIR HDLG. UNIT 1D"	
										FACILITY GINNA STA	
										SCALE	
										JOB NO.	DRAWING NO.
										10905-193	
										REV.	
										A	

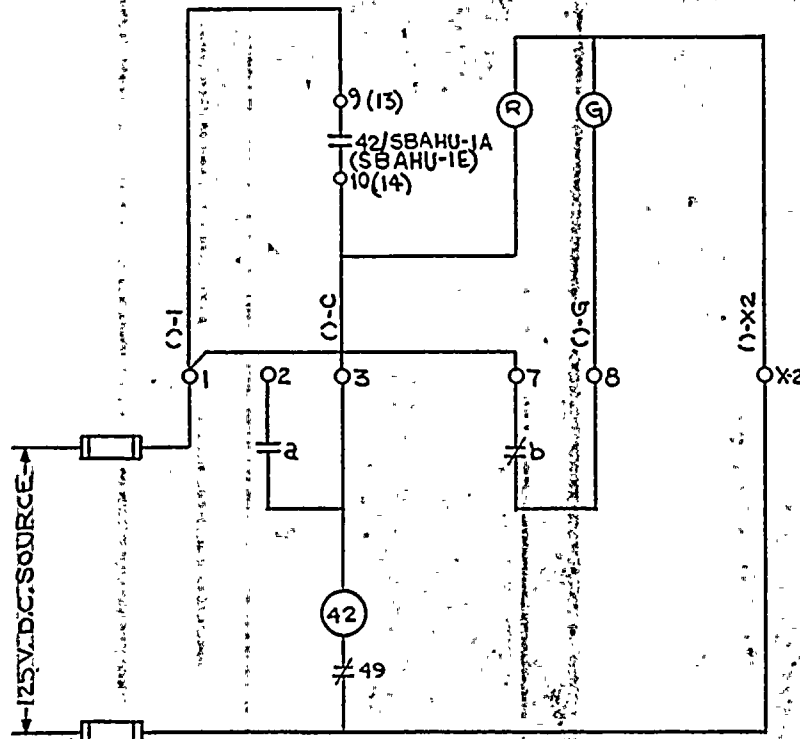
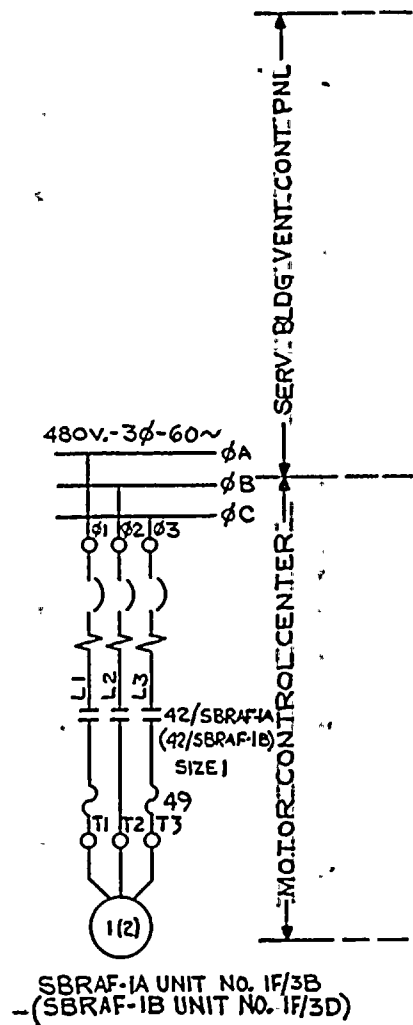


NOTES:

- * SBAHU-IE
- T-71- FIRE PROTECTION THERMOSTAT
OPENS ON TEMP RISE.
- T-73- FREESTAT, OPENS ON LOW TEMP.
- 1/4 - SEE DEV. X EXCEPT NAMEPLATE
TO READ OFF-ON, SHEET 13
- EP-71 DAMPER SOLENOID.

THIS DRAWING SUPERSEDES WESTING HOUSE DRAWING 499B425-194

ELEMENTARY WIRING DIAGRAM SERV BLDG AIR HDLG UNIT 7E				ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK 14609	
NUMBER	ORIGINAL	DATE	REVISION	JOB NO.	DRAWING NO.
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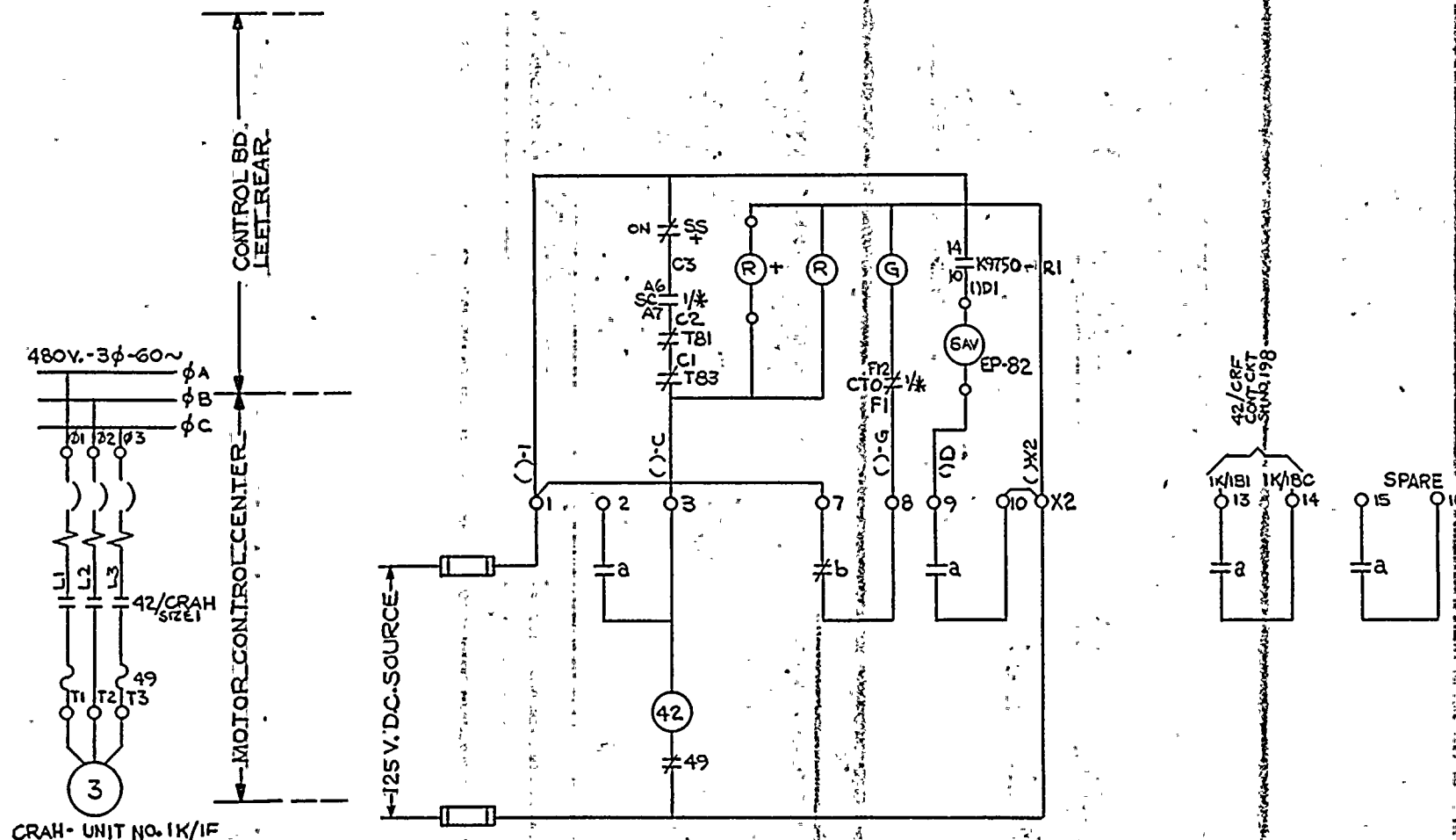


NOTES:

SBAHU-1A - SH. 191
(SBAHU-1E - SH. 194)

THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING
499 B425 - 195

ELEMENTARY WIRING DIAGRAM				SVC. BLDG. RIN. AIR. FAN. 1A (1B)			
FACILITY GINNA STATION				ROCHESTER GAS & ELECTRIC CORP.			
SCALE				ROCHESTER, NEW YORK			
JOB NO.				DRAWING NO.			
10905				195			
REV.				REV.			
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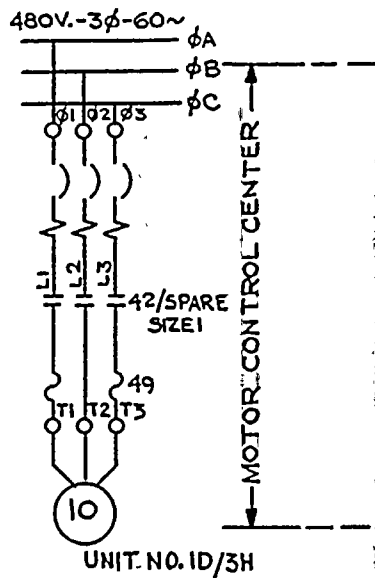


NOTES:

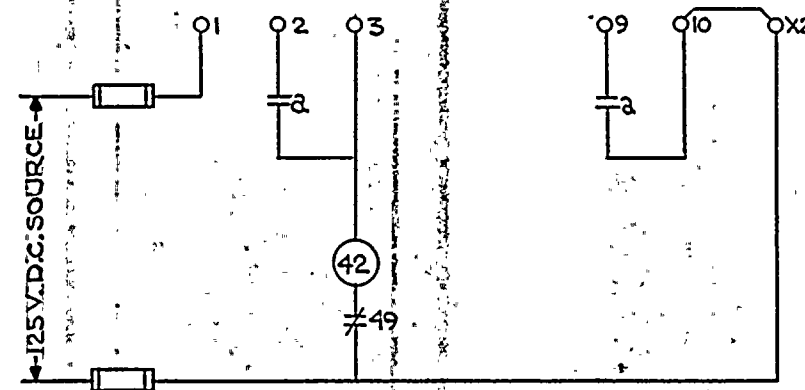
- + - CONTROL STATION LOCATED ON COLUMN JUST OUTSIDE CONTROL RM.
- * CRAH.
- 1/2 SEE DEV. SH. 10, FIG. 1, DETAIL C.
- SAY - DAMPER MECH. SOLENOID (EP-82) SEE JOHNSON SERVICE DRAW. 885-83-8)
- VIIIX V2IX-Ø 110E059 SH. 5
- T81 T83 FIRESTAT/FREESTAT ON CRAH UNIT DUCT
- K9750-RI AUX RELAY CONTACT, AREA 1 RAD MONITOR (CONTROL ROOM) SEE TRACER LAB DWG. D997586

THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499 B425-196


ELEMENTARY WIRING DIAGRAM CONT RM AIR HDLG UNIT				FACILITY: GINNA STATION				ROCHESTER GAS & ELECTRIC CORP. 300 WEST 10TH STREET, ROCHESTER, NEW YORK 14602			
SCALE				JOB NO.				DRAWING NO.			
ORIGINAL				DATE				REV.			
8-16-77				9/2/77				10905-196			
DRAWN BY				CHECKED				DRAWING NO.			
8-16-77				9/2/77				10905-196			
INITIAL				DATE				REV.			
8-16-77				9/2/77				10905-196			
NUMBER				REVISION				DRAWING NO.			
8-16-77				9/2/77				10905-196			



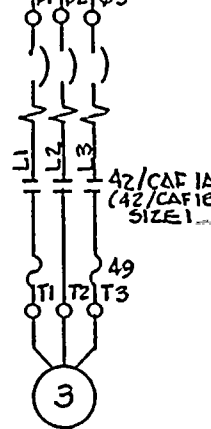
NOTES:



THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425-197

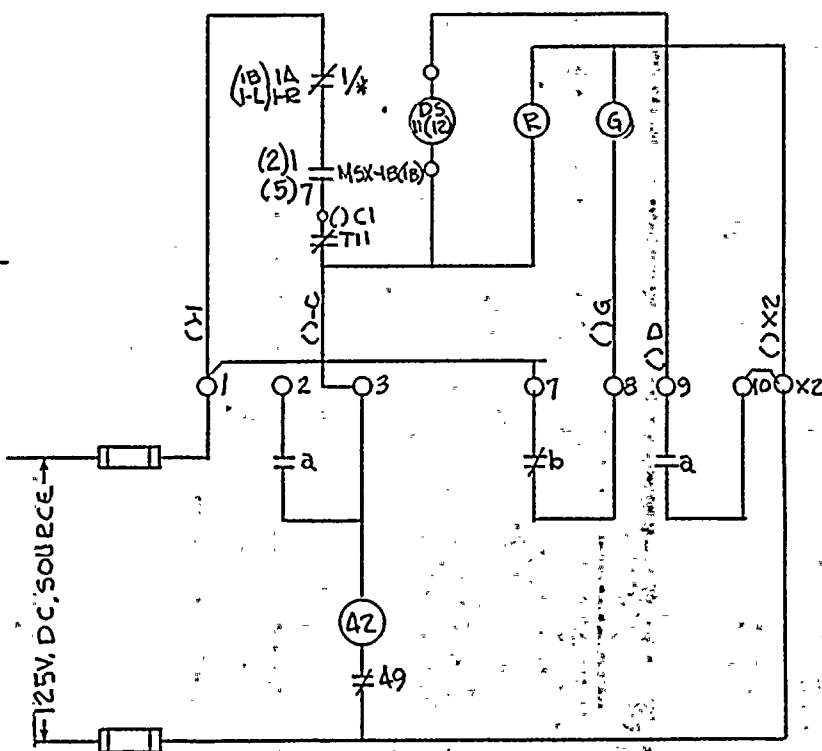
	1. For elementary wiring diagram, see page 10 of the code book.				1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. For elementary wiring diagram, see page 10 of the code book.		1. 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480V.-3 ϕ -60~
 ϕA
 ϕB
 ϕC



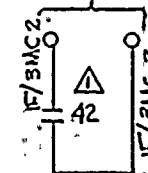
CAF-1A-UNIT NO 1F/2K
 (CAF-1B-UNIT NO 1D/2H)

MOTOR CONTROL CENTER — A.B. VENT SYSTEM CONT PNL

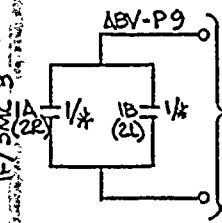


NOTES:

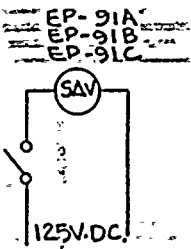
- * CAF-1A OR CAF-1B 3 POSITION-1A OFF-1B
- DS1K(12) DAMPER SOLENOID
- T11 FIRE PROT. THERMOSTAT
- 1/4" - SEE DEV. M
- MSX-1B-MASTER SWITCH AUX. RELAY SU 319



START 42/58AHU-10
 SH NO. 193



TO CAF
 125V DC
 SH 319

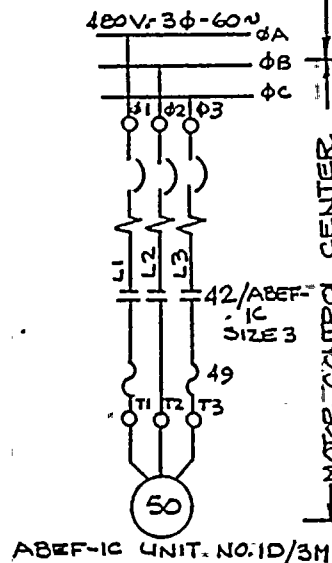


EWR 2127
 42 WAS 2

REV.	DATE	BY	CHKD	APPD	DATE
ORIGINAL	4/16	BY	CD	RESP ENGR	DATE

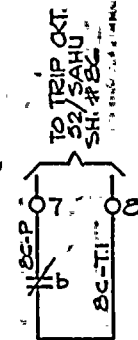
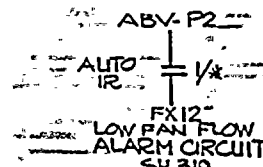
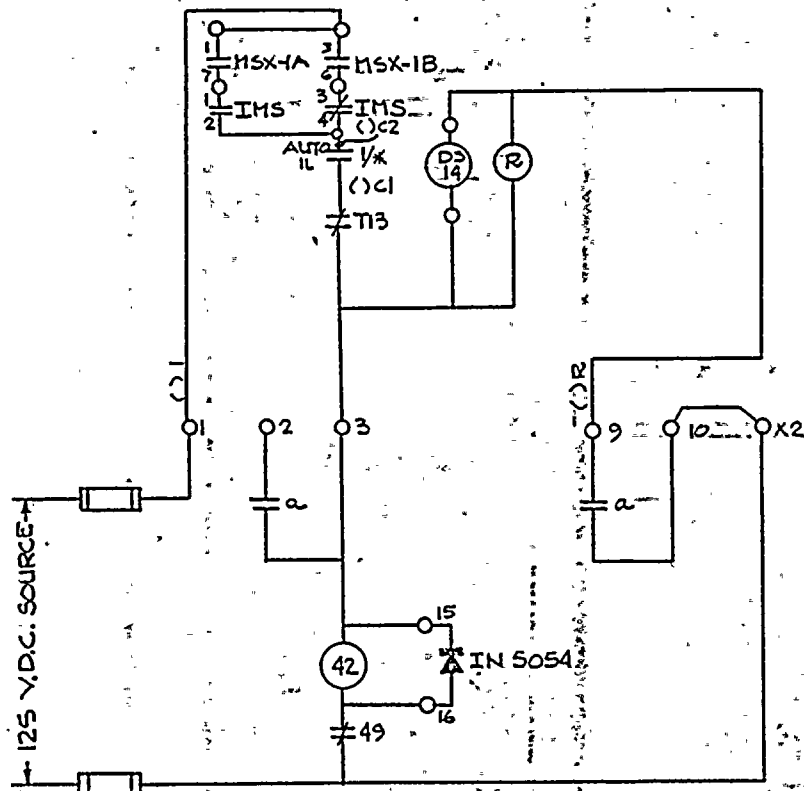
NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B425-192

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ENGINEERING	DEPT	NO. 107025-199
ROBERT EMETT GINNA NUCLEAR POWER STATION UNIT NO. 1	ELEMENTARY WIRING DIAGRAMS	CONT. ACCESS FANS 1A(1B)	
BY	DATE	SCALE	
DRAWN	TRACED	APPROVED	
CHECKED	FOUNDER NO.		
	JOB NO.		



NOTE: CONTROL CENTER

FAN



NOTES:

- * ABEF-IC
- T13-FIRE PROT. THERMOSTAT OPENS ON TEMP. RISE
- DS14-DISCH. DAMPER SOLENOID
- 1/2-SEE DEV. X, SH. 13
- MSX-1A-MASTER SW. AUX. RELAY, SH. 29
- MSX-1B-

THIS DWG. SUPERSEDES. V. DWG. 499B425 SH. 201.

REV.					
ORIGINAL	AW	Rm	W	98	4/28/76
	DWN BY	CK'D	RESP. ENG.	ENG. MGR.	DATE

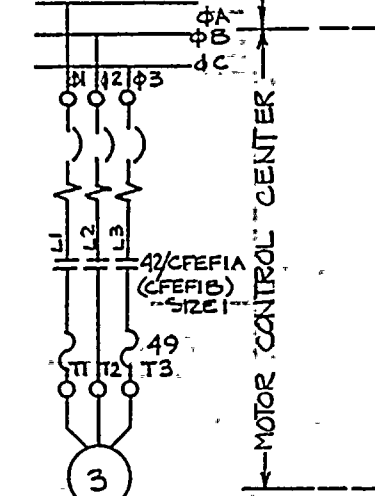
ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMETT GINNA NUCLEAR POWER STATION
UNIT
ELEMENTARY WIRING DIAGRAM
AUX. BLDG. EXHAUST FAN, IC

DRAWN BY
TRACED
CHECKED
DATE
SCALE
APPROVED
FOLDER NO.
JOB NO.

NO. 10905-201

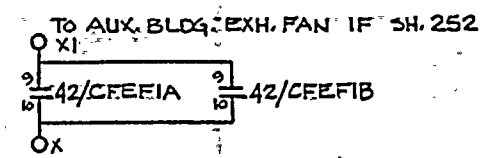
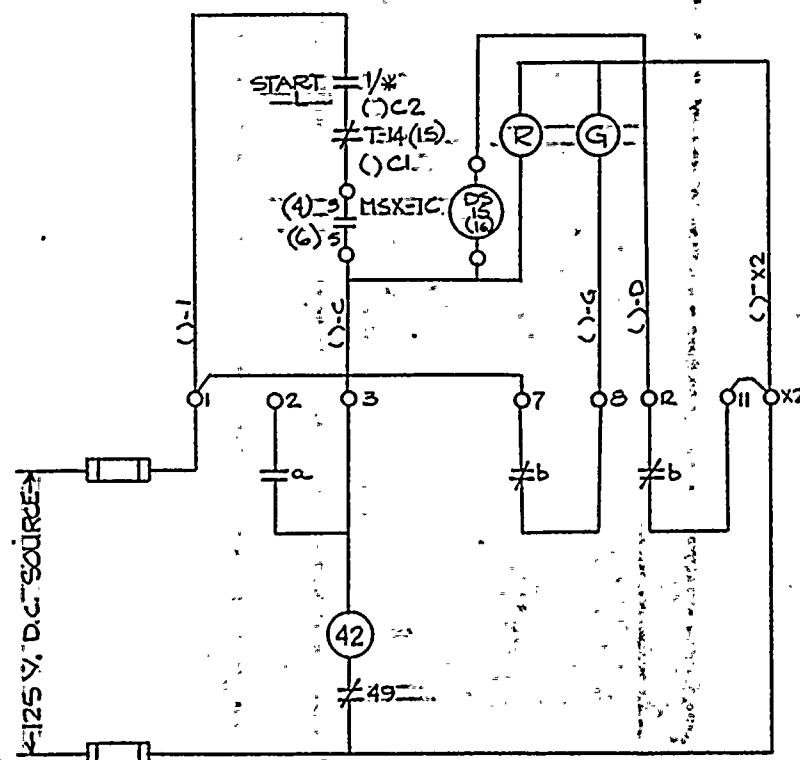
480V-3 ϕ -60 ω



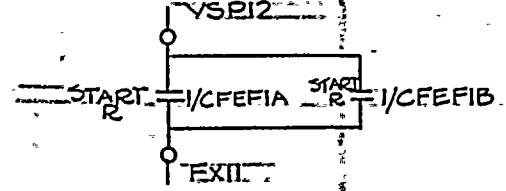
AUX. BLDG. CONT. PANEL

MOTOR CONTROL CENTER

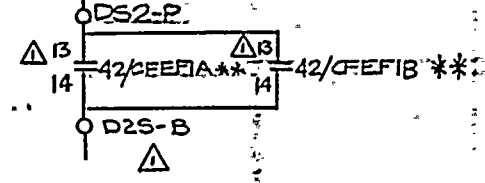
CFEF-IA- UNIT NO. 1C/2B
CFEF-IB-UNIT NO. 1C/1H



TO CHARCOAL FILTER FAN
LOW FLOW ALARM SH. 319



TO AUX. BLDG. MAIN EXH. FAN
BY-PASS DAMPER SOL. (SH. 299)



NOTES
* CEEFIA OR CEEFIB

TEH (15) - FIRE PROTECTION THERMOSTAT OPENS
ON TEMP. RISE
1/4 SW. DEV. X EXCEPT NAMEPLATE
TO READ STOP-START
DS-15 (16) - DAMPER SOLENOID (OPERATES BOTH
SUCTION & DISCHARGE DAMPERS)
SEE J-S FLOW DIAG. 785-871
** ADD ONE (1) NO & ONE (1) NC CONTACT BLOCK
TO STARTER & WIRE CONTACTS 13 & 14 TO
SAME POINTS ON STARTER TERM. BLOCK
LEAVING 11 & 12 BLANK ON TERM. BLOCK
MSX-1C MASTER SWITCH AUX. RELAY SH. 319

THIS DWG. SUPERSEDES W. DWG. 499B425 SH. 202

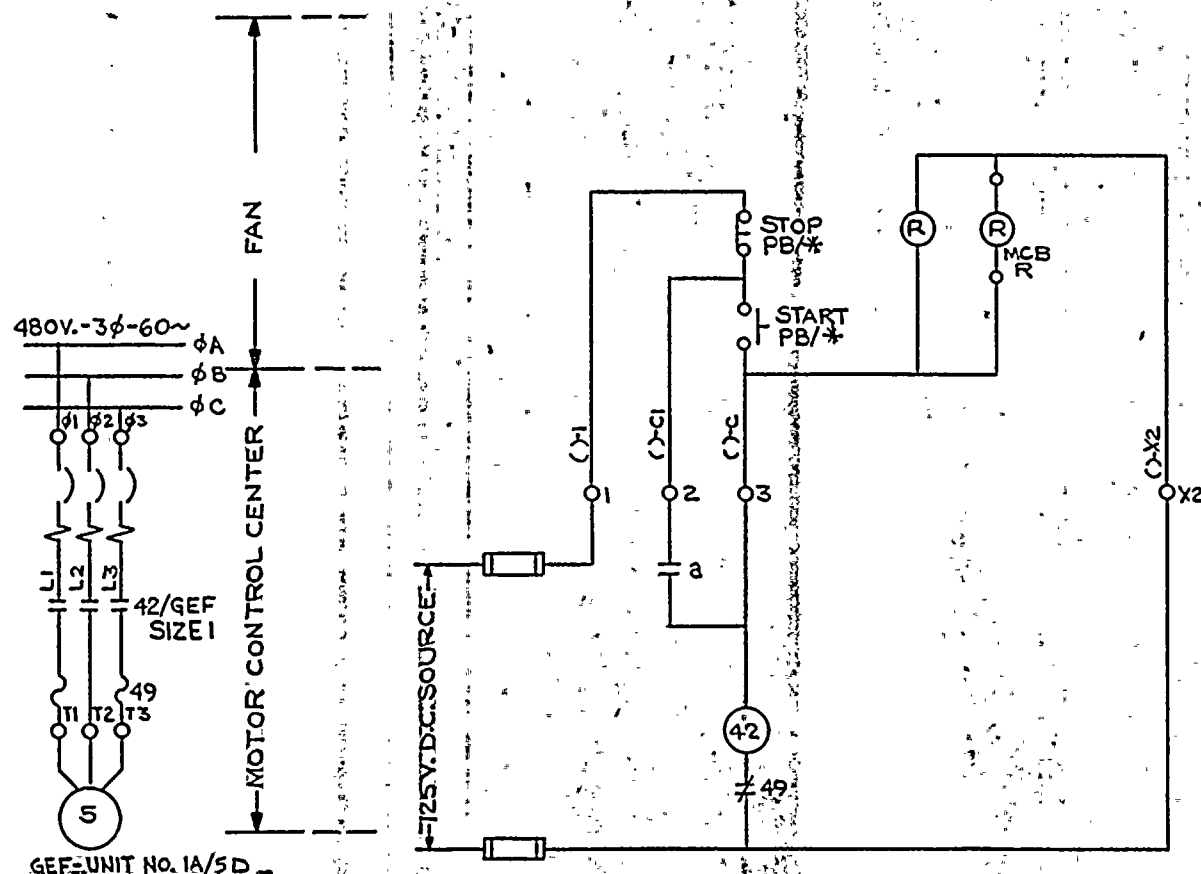
REV.	DATE	BY	CHKD	APPD	DATE
ORIGINAL	7/8/76	AWH	Rm	REL	7/20/76
	7-9-76	DWN	CKD	REL	4/24/76
				ENG.	
				ENG. MGR.	

ROBERT ENHETT SINNA NUCLEAR POWER STATION		DATE	SCALE
UNIT NO. 1		BY	APPROVED
ELEMENTARY WIRING DIAGRAM		DRAWN	FOLDER NO.
CHARCOAL FILTER EXHAUST FAN		CHECKED	JOB NO.
IA (IB)		DATE	

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

DEPT

NO. 10905-202



NOTE:
* GEF

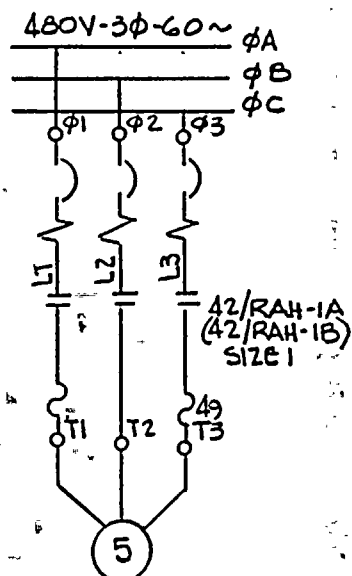
THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425-203

NUMBER	REVISION	DRAWN BY	CHECKED	REV. ENG.	ENG. MANOR.	JOB NO.	DRAWING NO.	REV.
1	ORIGINAL	1-21-77	8/8/77	9/10/77	9/10/77		109D5-203	
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ELEMENTARY WIRING DIAGRAM
GLAND STM COND AIR EXH FAN

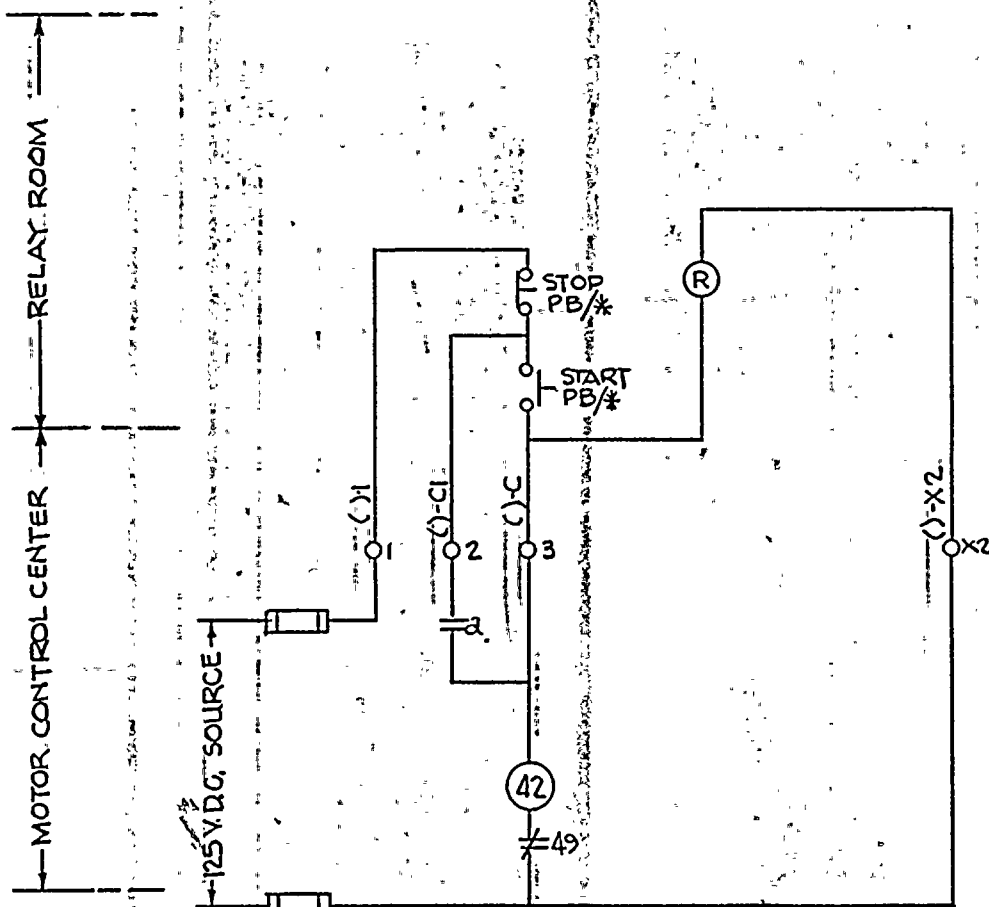
FACILITY GINNA STATION
SCALE
ROCHESTER GAS & ELECTRIC CORP.
MADE IN U.S.A. ROCHESTER, NEW YORK

JOB NO.
DRAWING NO.
109D5-203
REV.






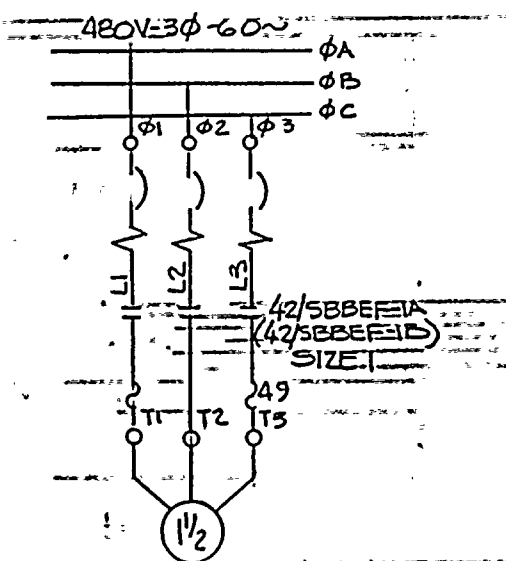
RAH-1A-UNIT NO. 1B/2M
 RAH-1B-UNIT NO. 1B/2MM

NOTES:
 * RAH-1A OR RAH-1B

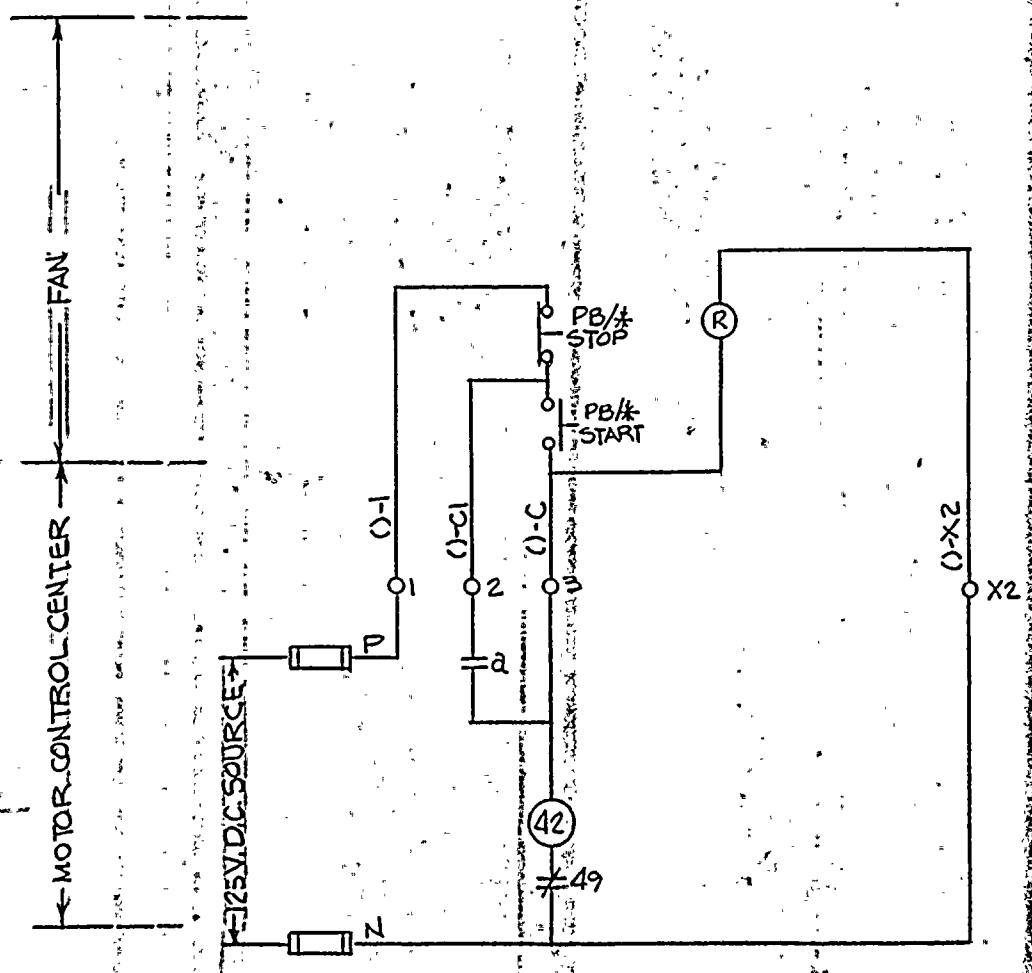


NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH 205.

	ELEMENTARY WIRING DIAGRAM RELAY RM AIR HDLG UNIT '1A & 1B										FACILITY GINNA STA		ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK		REV.	
											SCALE		JOB NO.		DRAWING NO.	
	ORIGINAL		INITIAL		DATE		GJF		Rw		9/10/77		9/10/77		9/10/77	
NUMBER	REVISION		DRAWN BY		CHECKED		RES'D		ENG.		MANOR.		10905-205		A	



SBBEE-1A UNIT NO. 1F/2B
SBBEE-1B UNIT NO. 1F/2D

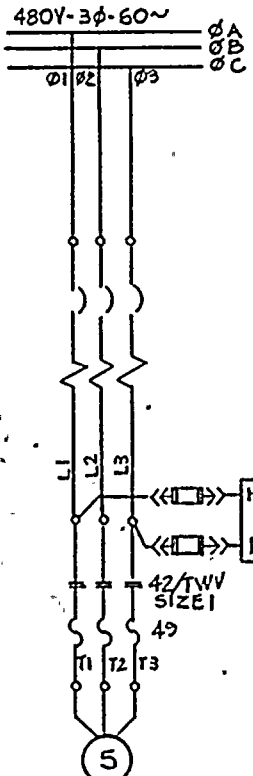


NOTES

* SBBEE-1A OR SBBEE-1B

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH 206

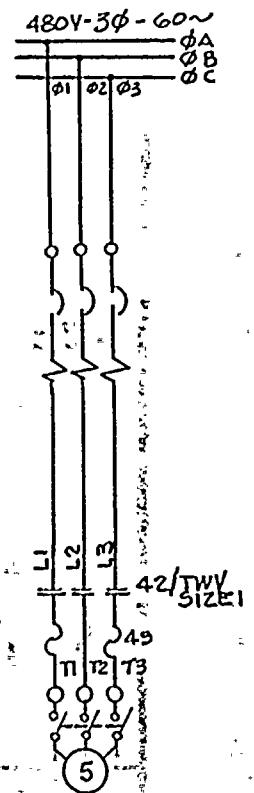
ELEMENTARY WIRING DIAGRAM				SERV BLDG BSMT. EXH FAN 1A & 1B			
REVISION	INITIAL	DATE	DRAWN BY	CHECKED	RESP. ENG.	END. MANOV.	REV.
1	SLF	12/17	13/17	1/10/17	1/10/17	1/10/17	10905-206
FACILITY GINNA STA				ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK			
SCALE				JOB NO.			
DRAWING NO.				REV.			
10905-206				A			



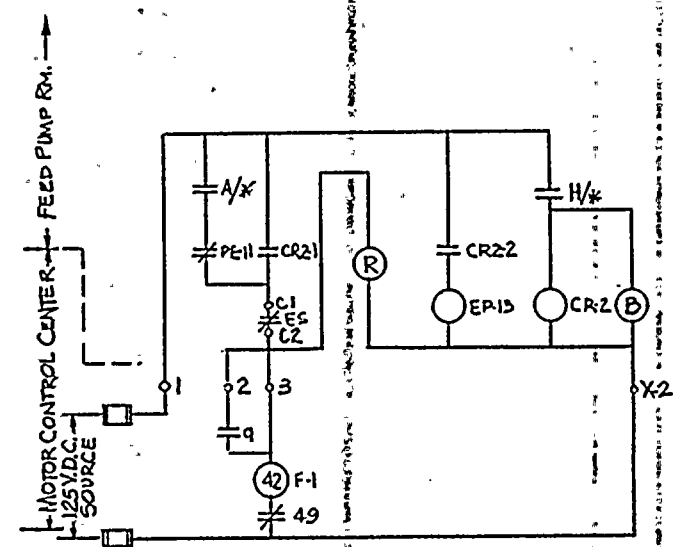
SUPPLY FAN
STEAM GENERATOR FEED PUMP

NOTES:
EP-11 AND EP-12 - SOLENOID VALVES
LL-11 - LOW LIMIT THERMOSTAT
(MANUAL RESET)

T1V UNIT NO. 1A/3D



T1V UNIT NO. 1A/7B



NOTES: EMERGENCY SHUTDOWN
SWITCH ON MCB FIRE PANEL
EP-13 - SOLENOID VALVE
EXHAUST FAN

EW2134

REV.	Δ	GJF	11/9/71	11/9/71	11/9/71
ORIGINAL		GJF	11/9/71	11/9/71	11/9/71
DRAWN BY	CK'D	RESP	ENG'R	ENG'R	DATE

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

No. 10905-207

ROBERT EMMETT GINNA - NUCLEAR POWER
STATION UNIT NO. 1

ELEMENTARY WIRING DIAGRAM
STEAM GENERATOR FEED PUMP
ROOM VENTILATION

NOTES: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING 499B 425 5H 207.

DATE

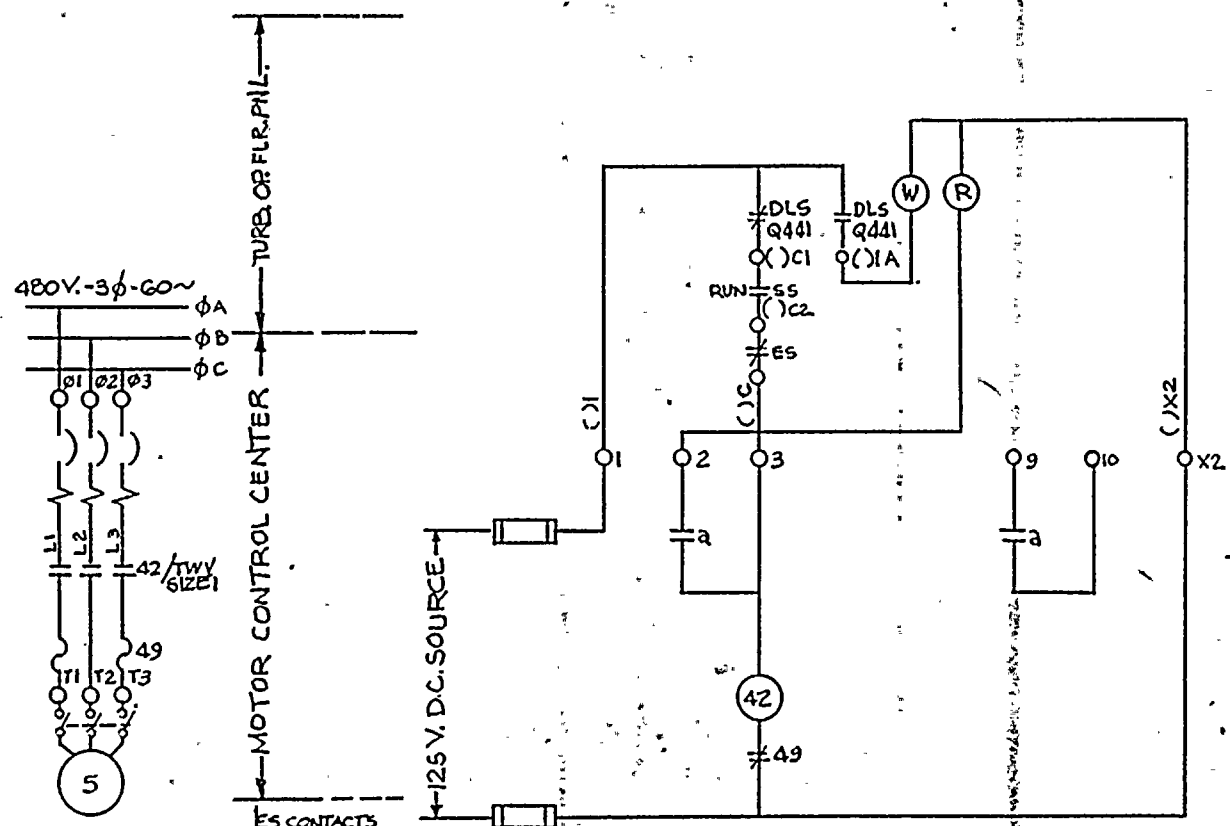
BY

SCALE NONE

APPROVED

FOLDER NO.

JOB NO.



- TWV-IB - UNIT 1A/7D A3-B3
TWV-IC - UNIT 1A/7F A5-B5
TWV-ID - UNIT 1A/7H A7-B7
TWV-IE - UNIT 1A/7K A9-B9
TWV-IF - UNIT 1B/6B A11-B11
TWV-IG - UNIT 1B/6D C1-D1
TWV-IH - UNIT 1B/6F C3-D3
TWV-IJ - UNIT 1B/6H C5-D5

NOTES:
T* TWV-IB, TWV-IC, TWV-ID, TWV-IE, TWV-IF, TWV-IG, TWV-IH, TWV-IJ
DAMPERS NORMALLY DRIVEN CLOSED BY DAMPER MOTOR
DAMPERS OPEN AND REMAIN OPEN UPON LOSS OF POWER
DM - DAMPER MOTOR
SS - 3 POS. SEL. SW. - CLOSE-OFF-RUN
ES - EMERG. SHUTDOWN SW. ON MCB FIRE PNL
(STOP - NORMAL)

REV.	DATE	BY	CHKD	APPD	DATE
ORIGINAL	7/8/76	GJF	RFL	JES	7/14/76
	8-16-76	CL'D	ENGR	NGR	

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DWG. 4998425 SH-208

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

No. 10905-208

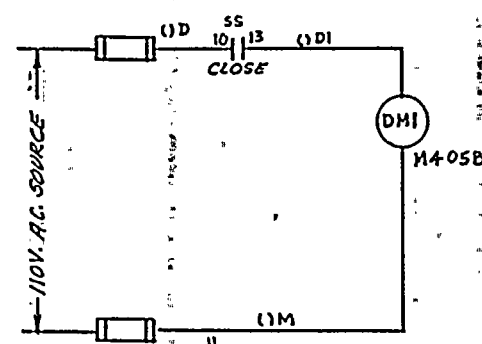
ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT NO. 1

ELEMENTARY WIRING DIAGRAM
TURB. RM. WALL EXHAUST FANS

DRAWN GJF
TRACED
CHECKED
ENG.

DATE
SCALE NONE

APPROVED
FOLDER NO.
JOB NO.



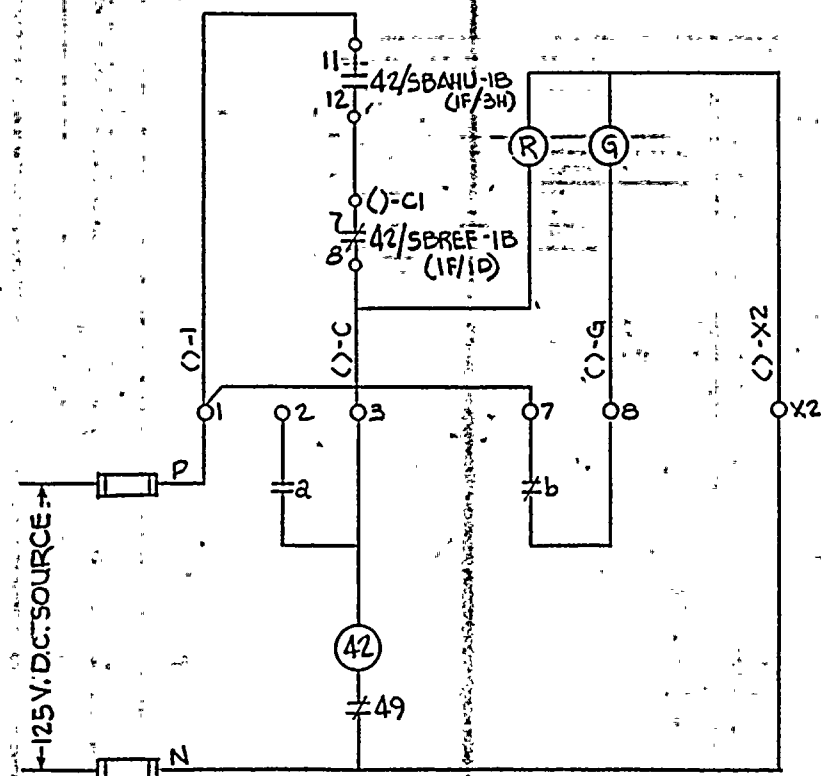
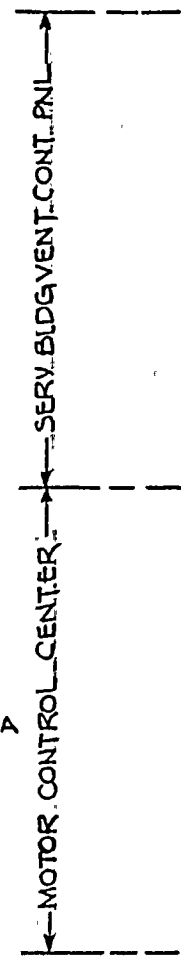
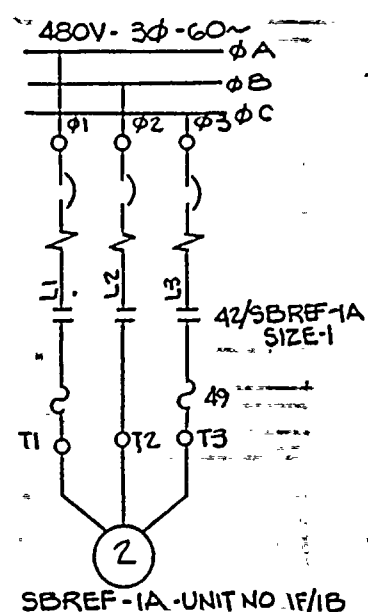
* -TRV-1A, TRV-1B, TRV-1C, TRV-1D, TRV-1E,
TRV-1F
DAMPERS ARE NORMALLY DRIVEN CLOSED BY
DAMPER MOTOR.
DAMPERS OPEN AND REMAIN OPEN UPON
- LOSS OF POWER
DM - DAMPER MOTOR
SS - 3 POSITION SELECTOR SW. CLOSE -
OFF - RUN.

REV.						
ORIGINAL	N.J.A.	R.H.M. 4/18/75	PCX	RCM	6/5/75	
	DRAWN BY	CK'D	RESP. ENGR.	ENGR. MGR.	DATE	

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	DEPT
ENGINEERING	
NO 19925-209	

ROBERT EMMETT GUNNA MILLER, POWEE STATION UNIT 1
ELEMENTARY WIRING DIAGRAM
TURBINE ROOM LEAVE EXHAUST FAN

DRAWN	BY N.T.A.	DATE 8-74	SCALE NONE
TRACED			APPROVED
CHECKED			FOLDER NO.
INDEXED			JOB NO.



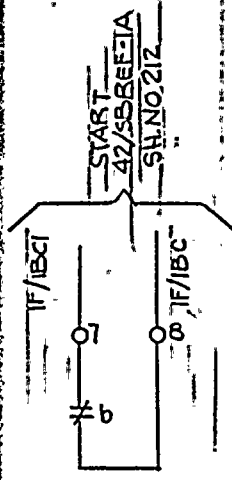
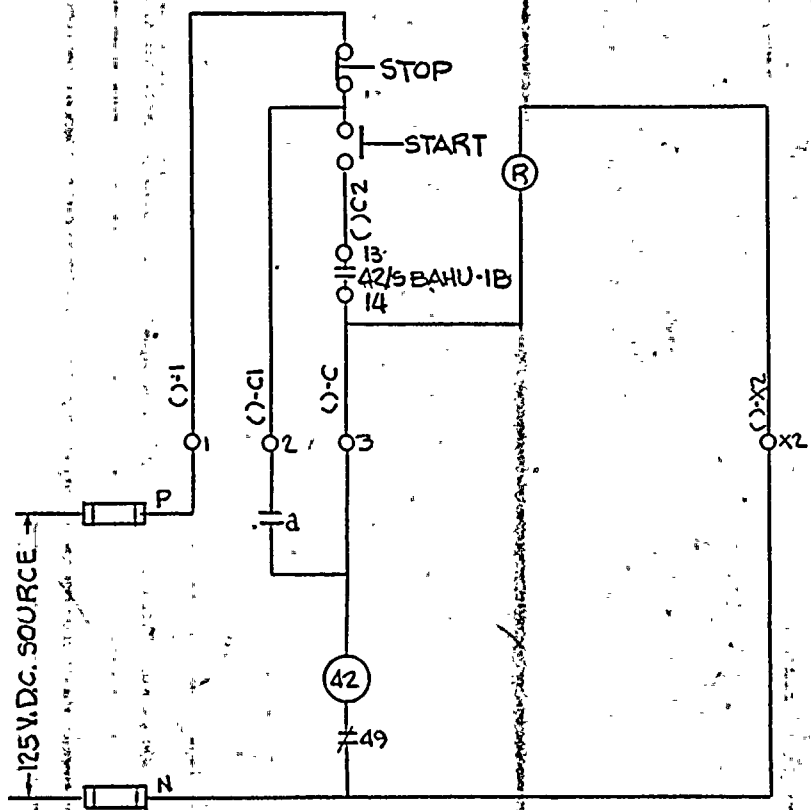
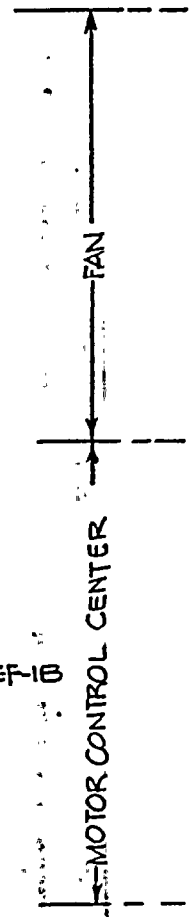
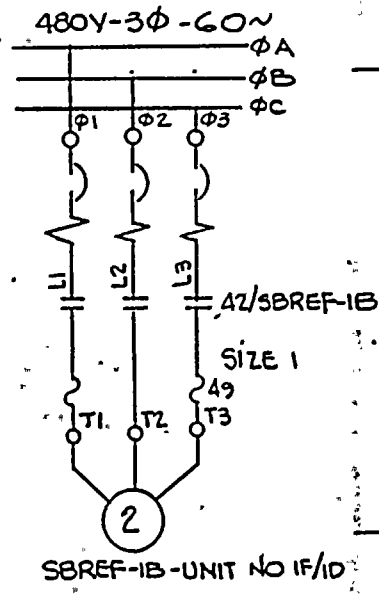
NOTES:

42/SBAHU-1B SH 192

(42/SBREF-1B SH 213)

NOTE: THIS DRAWING SUPERSEDES, WESTINGHOUSE DRAWING 499B425 SH 212

ELEMENTARY WIRING DIAGRAM				SERV BLDG ROOF EXH FAN 1A			
FACILITY GINNA STA				ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK			
SCALE				DRAWING NO. 10905-212			
JOB NO.				REV. A			
CHECKED BY				DATE			
INITIAL				REVISION			
NUMBER				DRAWN BY			

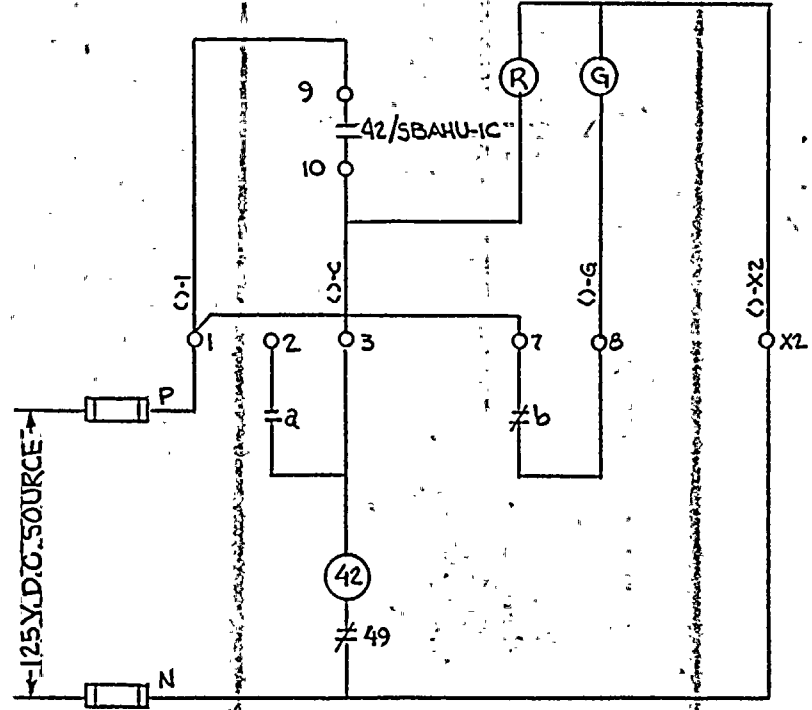


NOTES:
42/5BAHU-IB SH 192






















































































































































































































































































































































































NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B425 SH 213

	REVISION	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIA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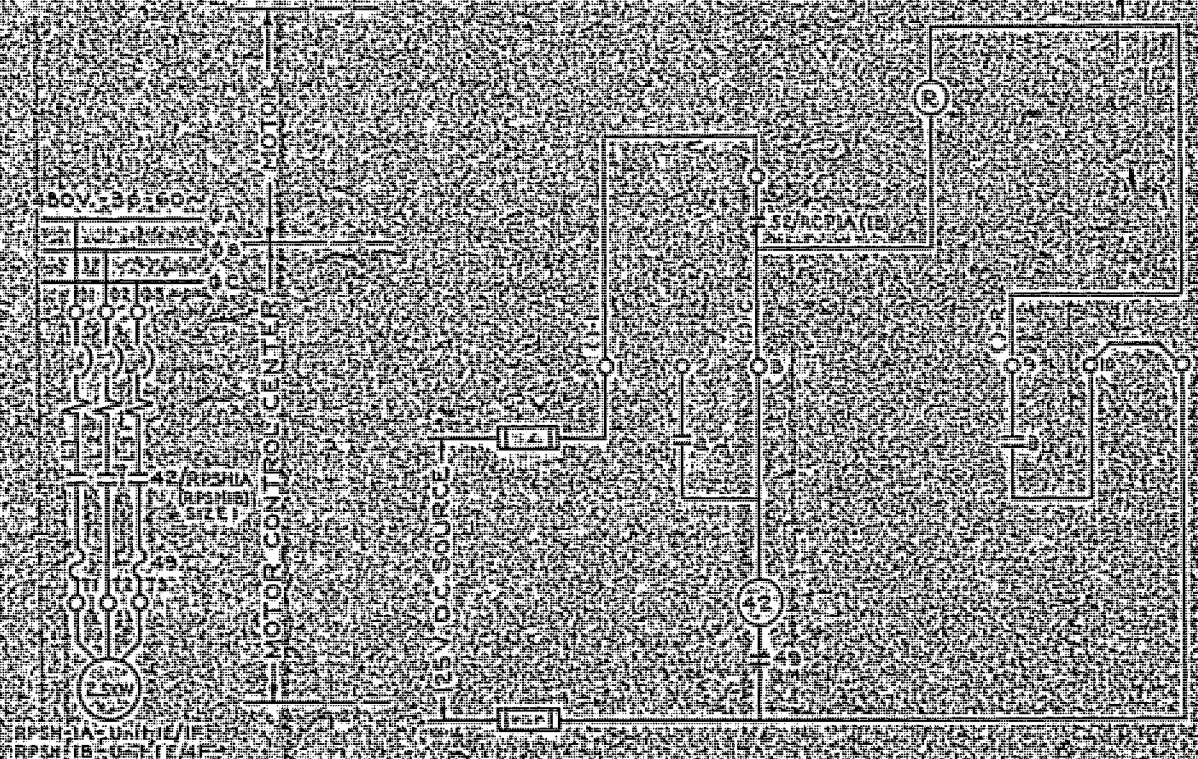
NOTES:
SBAHU-1C SERV BLDG. AIR HAND. UNIT-1C SH 191



NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO 499B425 SH 214.

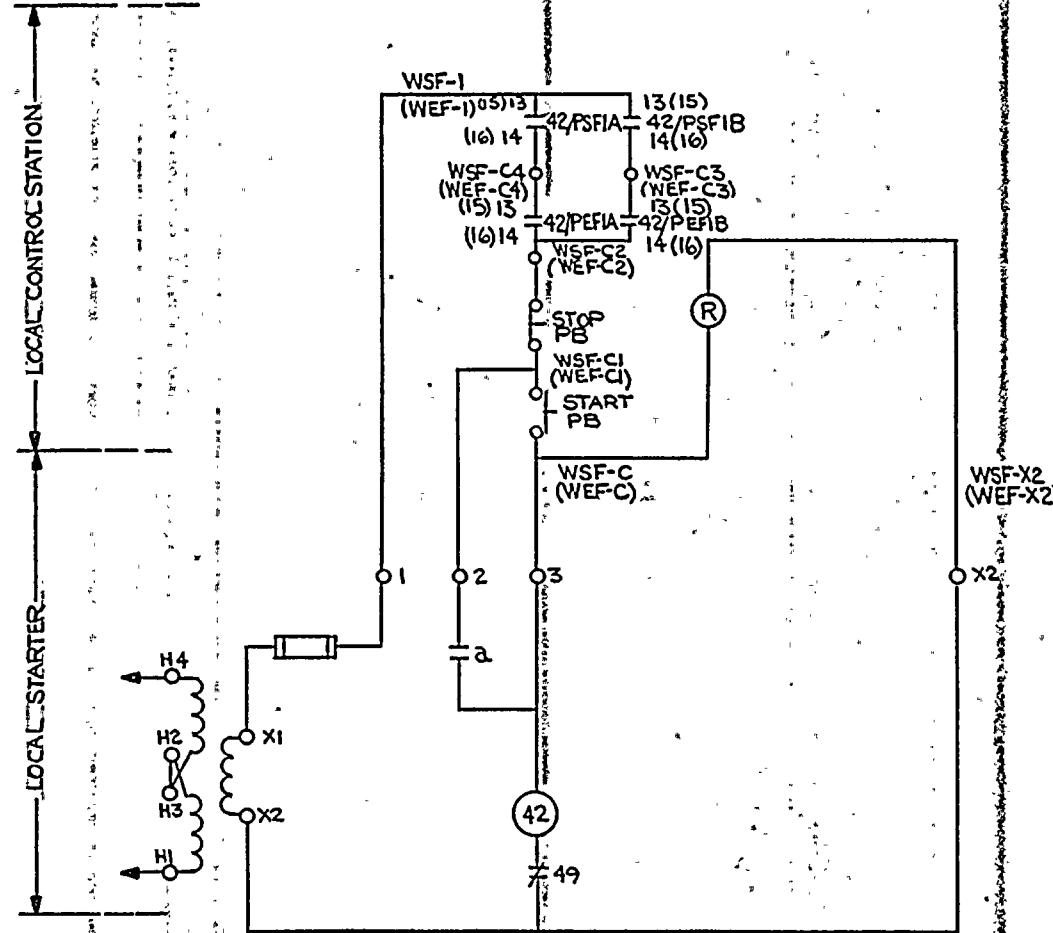
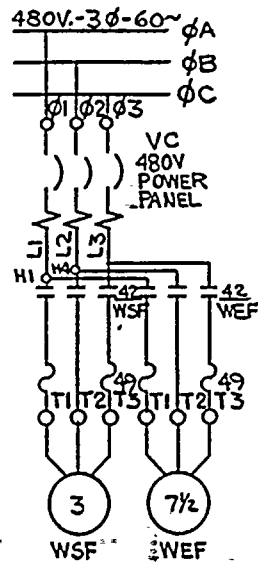
GILBERT ASSO. ENGINEERS, INC.
 ENGINEERS, ARCHITECTS, PLANNERS
 150 WEST 42ND STREET, NEW YORK 36, N.Y.
 41551 33-208-516



NOTES
 * RP3H1A OR RP3H1B

THIS DRAWING IS NOT AN ORIGINAL

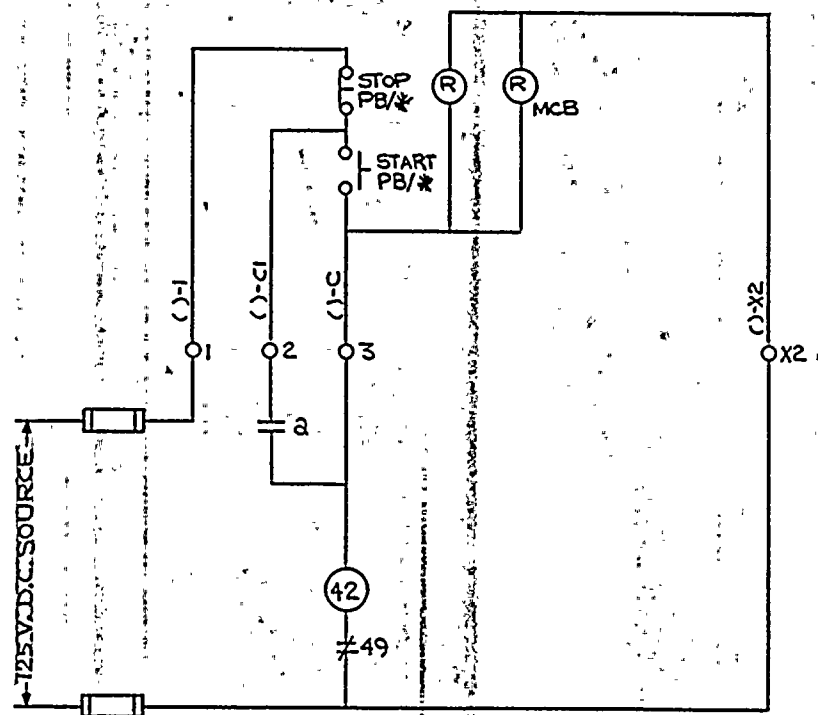
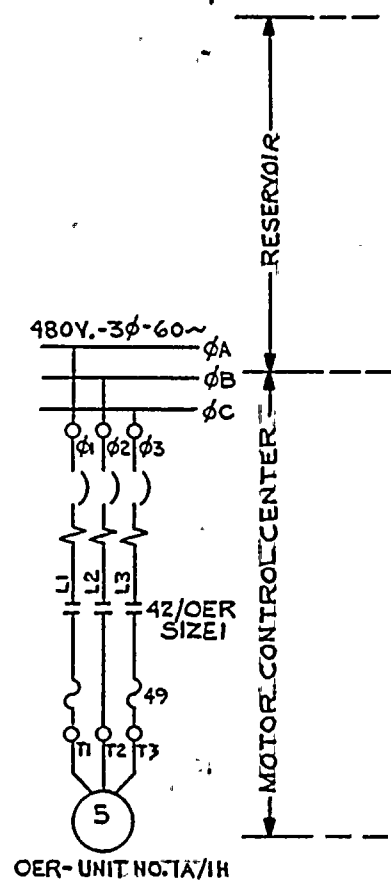
Westinghouse Electric Corporation			
TITLE: ROCHESTER GAS & ELECTRIC CORPORATION			
ROBERT EMMETT GRINA NUCLEAR POWER STATION - UNIT NO. 1			
ELEMENTARY WIRING DIAGRAM		3R-CR IN STD. SPACE HEATERS	
499B425	SHEET NO. 216		
ATOMIC POWER DIV.			



NOTES:
 42/PSFIA, 1B, 42/PEFIA, 1B PURGE SUPPLY / EXHAUST
 FANS SH. 222 & 223
 STOP PB @ OT2BIN, START PB @ OT2BIM
 SAME PUSHBUTTON FOR BOTH FANS

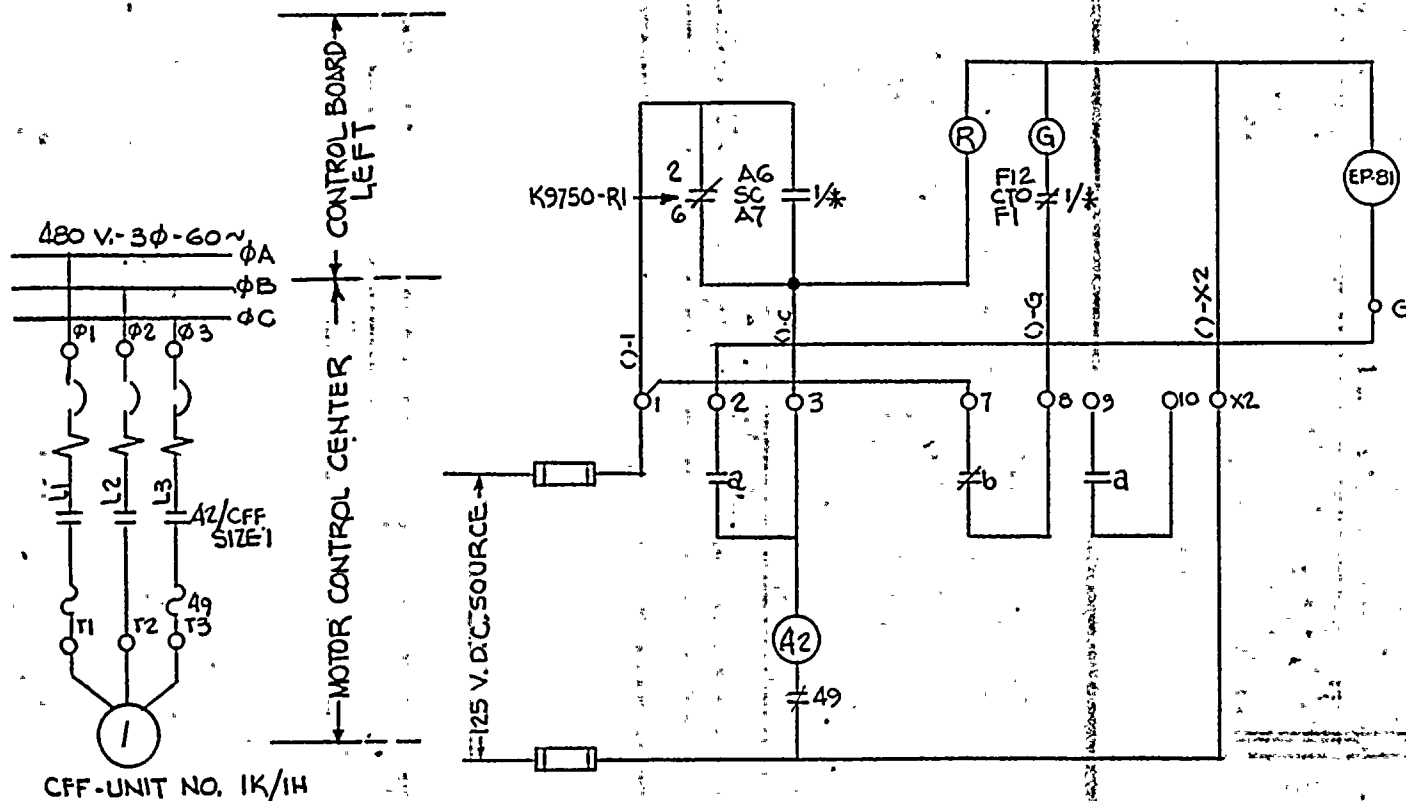
THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499 B425-218

ELEMENTARY WIRING DIAGRAM WATER SURFACE SUPPLY (EXH) FANS				FACILITY GINNA STATION		ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	
SCALE				JOB NO.		DRAWING NO.	
INITIAL				DATE		REV.	
ORIGINAL				8-25-77		10905-218	
CHECKED				10/12/77		ENG. MANOR	
DRAWN BY				10/12/77		ENG. MANOR	
NUMBER				10/12/77		ENG. MANOR	



THIS DRAWING SUPERSEDES WESTING HOUSE DRAWING 499B425-220

[illegible]



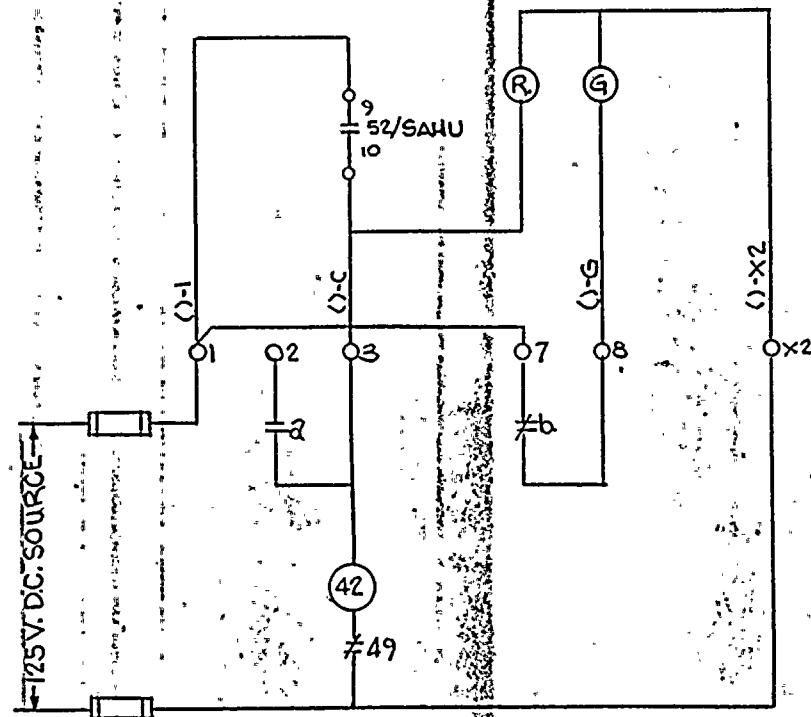
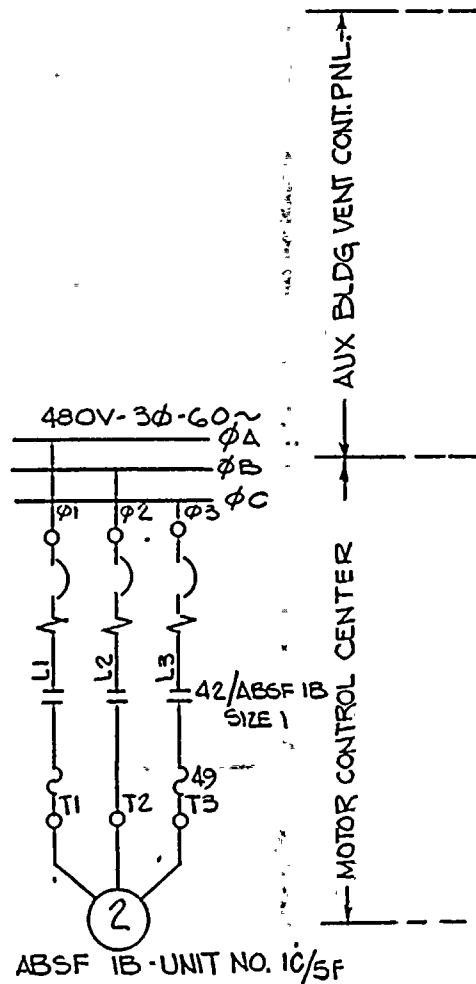
NOTES

* CFF

EP-81 DAMPER SOLENOID - JOHNSON SERVICE, DWG 885-83-8
 1/2" - SW DEV. SH 10, FIG. 11, DETAIL C
 K9750-R1 - AUXILIARY RELAY CONTACT AREA 1 RAD
 MONITOR SEE TRACER LAB DWG D997586

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH NO. 224

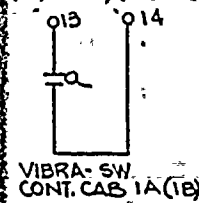
ELEMENTARY WIRING DIAGRAM CONTROL ROOM CHARCOAL FILTER FAN				ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK				REV.	
FACILITY: QINNA STA				SCALE				JOB NO.	
DRAWN BY				CHECKED				DRAWING NO.	
DATE				ENG. MANOR.				10905-224	
ORIGINAL				REVISION				A	



NOTES:
SAHU - AUX BLDG SUPPLY
A.H. UNIT 5H 86

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B 425 SHEET NO. 225

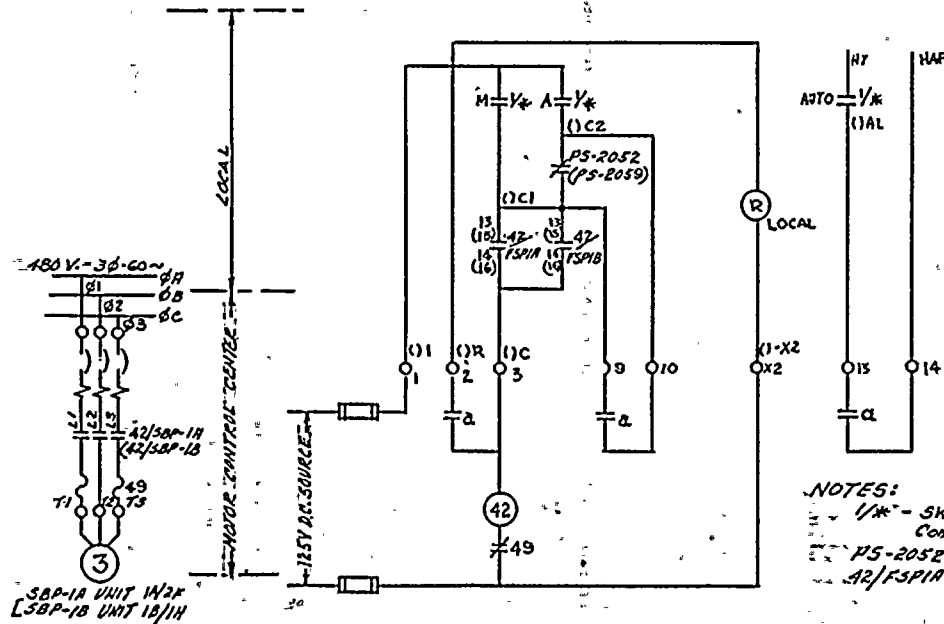
ELEMENTARY WIRING DIAGRAM				AUX BLDG SUPPLY FAN IB			
FACILITY GINNA STA				ROCHESTER GAS & ELECTRIC CORP ROCHESTER, NEW YORK			
SCALE				JOB NO.			
ORIGINAL				DRAWING NO.			
INITIAL				REV.			
DATE				10905-225			
DRAWN BY				10905-225			
CHECKED				10905-225			
RES. ENG.				10905-225			
ENG. MANAGER				10905-225			



NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH 226

	REVISION	DATE	INITIAL	GJF	Rm	8/30/77	DRAWN CHECKED	RESP. END.	ENG. MANGR.	JOB NO.	DRAWING NO.	REV.
										10905-226		A
	ORIGINAL	8/30/77								SCALE	FACILITY GINNA STA	ROCHESTER GAS & ELECTRIC CORP ROCHESTER, NEW YORK
											ELEMENTARY WIRING DIAGRAM REACTOR COMPT. FAN 1A(1B)	

THIS DRAWING SUPERCEDES
WESTINGHOUSE DRAWING
499B425, SHT. 228, (REV. I)

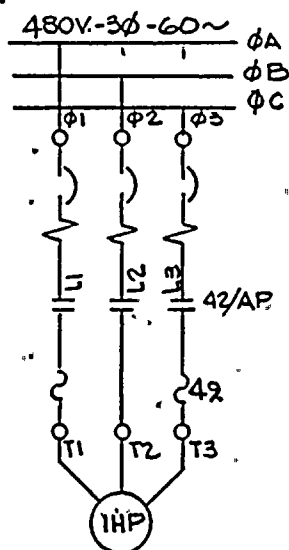


NOTES:

1/* - SW. DEV. N. SH. 13 Three Position Maintained
Contact Except Nameplate To Read Auto-Off-Man.
P5-2052 (P5-2059) Seal Diff. Press. SW.
AR/FSP1A(1B) FEED Pump Seal Drain Pump - SH. 176

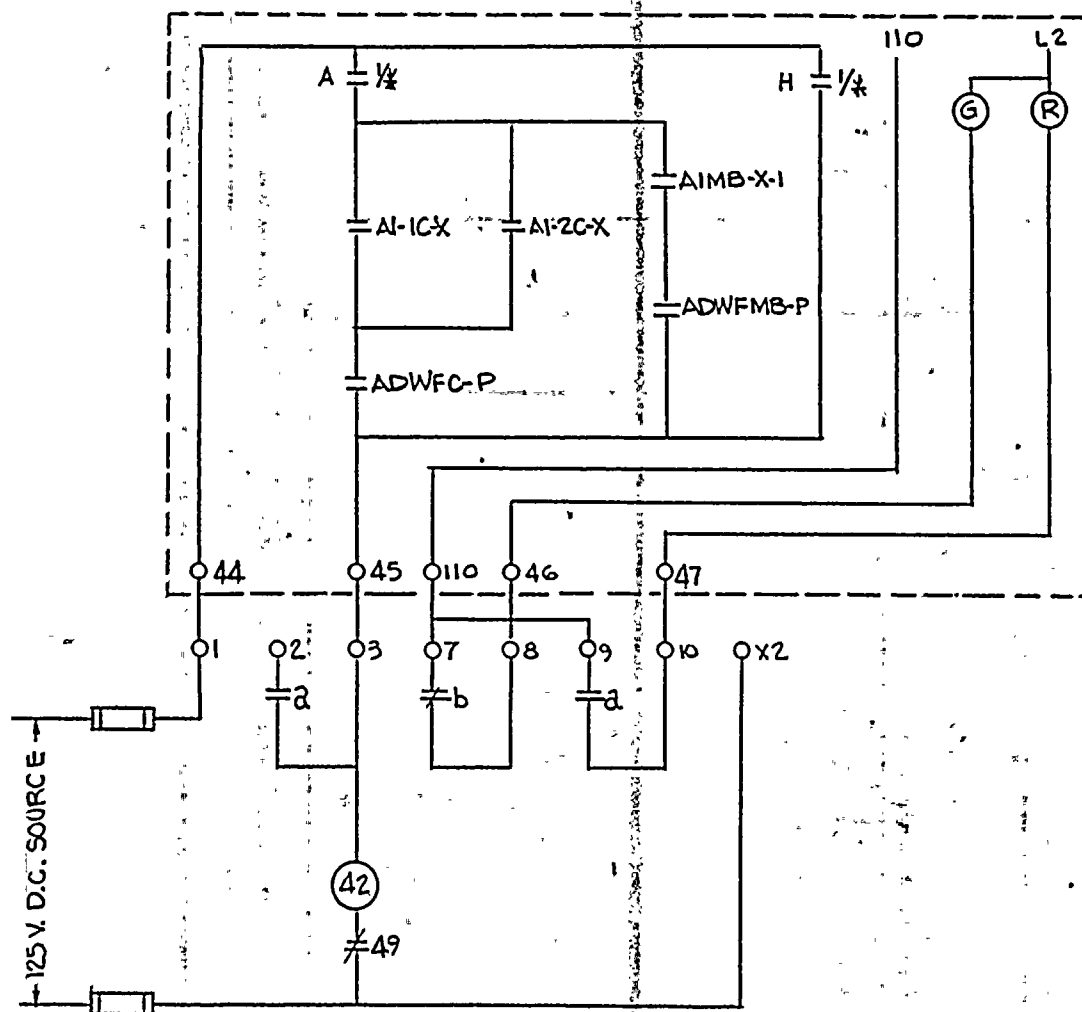
AR/FSP1A(1B) FEED: Pump 500/ Drain Pump - SH. 176

REV.									
ORIGINAL		N.J.A.	RHM	per	LEN	4/5/75			
		DRAWN BY	CK'D	RESP. ENGR.	ENG'R MGR.	DATE			
ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK			DATE R-74		SCALE		NONE		
ROBERT EMMETT SINHA NUCLEAR POWER STATION UNIT I ELEMENTARY WIRING DIAGRAM F.W. PUMP SEAL DILE BOOSTER PUMP 1A (1B)			TRACED		APPROVED				
			CHECKED				FOLDER NO.		
			ENCL.				JOB NO.		
ENGINEERING			DEPT		No. 10905-228				



AP-UNIT NO 1F/7K

MOTOR CONTROL CENTER



NOTES:

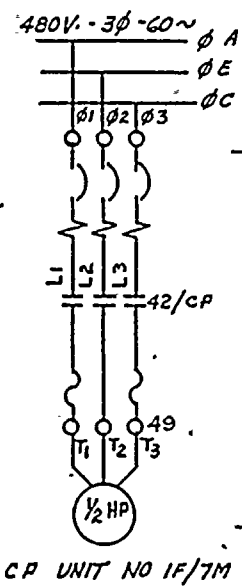
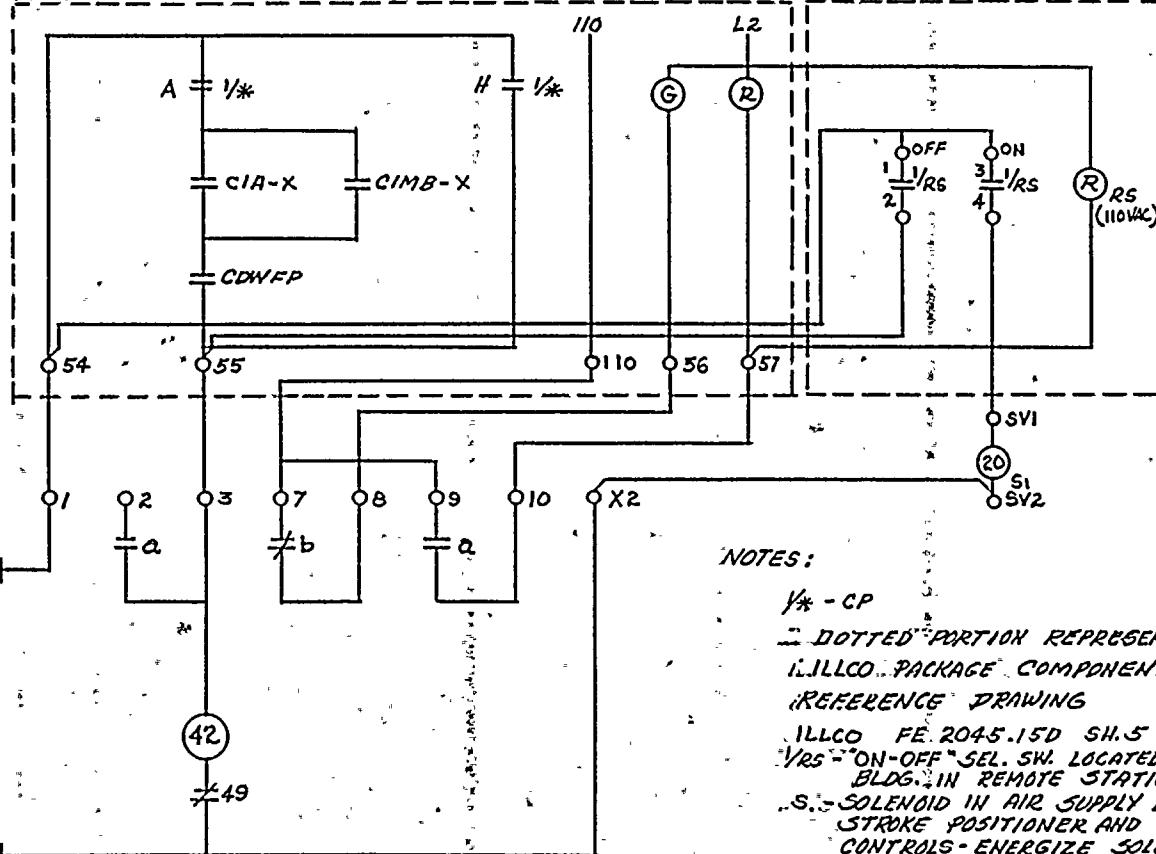
1/4-AP
DOTTED PORTION REPRESENTS
ILLCO PACKAGE COMPONENTS
REFERENCE DRAWING
ILLCO FE 2045.13D SH5.

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SHEET 229

ELEMENTARY WIRING DIAGRAM				ROCHESTER GAS & ELECTRIC CORP.			
ACID PUMP				ROCHESTER, NEW YORK			
FACILITY GINNA STA				SCALE			
JOB NO.				DRAWING NO.			
10905				229			
ORIGINAL				REVISION			
INITIAL				DATE			
GJE				8/2/77			
DRAWN BY				CHECKED			
B. J. F.				R. S. M.			
ENG. MAN.				REV.			
10905				229			

PRIMARY WATER TREATMENT PANEL

REMOTE STN. IN AUX. BLDG.



NOTES:

- 1/2 - CP
- DOTTED PORTION REPRESENTS ILLCO PACKAGE COMPONENTS (REFERENCE DRAWING)
- ILLCO FE 2045.15D SH.5
- 1/RS - ON-OFF SEL. SW. LOCATED N. AUX. BLDG. IN REMOTE STATION
- S - SOLENOID IN AIR SUPPLY LINE BTWN. STROKE POSITIONER AND REGEN. CONTROLS - ENERGIZE SOLENOID TO CLOSE WHEN SWITCH 1/RS IS ON

REV.					
ORIGINAL	N.J.A.	RHM	PCX	RCM	6/5/75
	DRAWN BY	CK'D.	RESP. ENGR	ENG'R. MGR.	DATE

This drawing is a modification of drawing 499425 SH. 230 (REV. 4)

ROBERT EMNETT GUNNA NUCLEAR POWER STATION UNIT I

ELEMENTARY WIRING DIAGRAM

CAUSTIC PUMP

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK

ENGINEERING

NO. 10905-230

SCALE NONE

APPROVED

FOLDER NO.

DATE

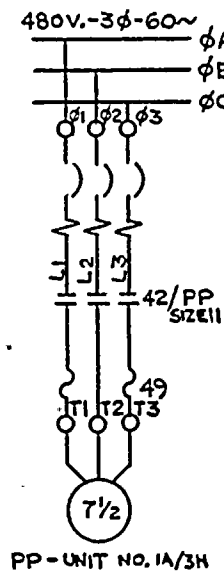
DRAWN

TRACED

SH. 230 (REV. 4)

ENGR.

JOB NO.

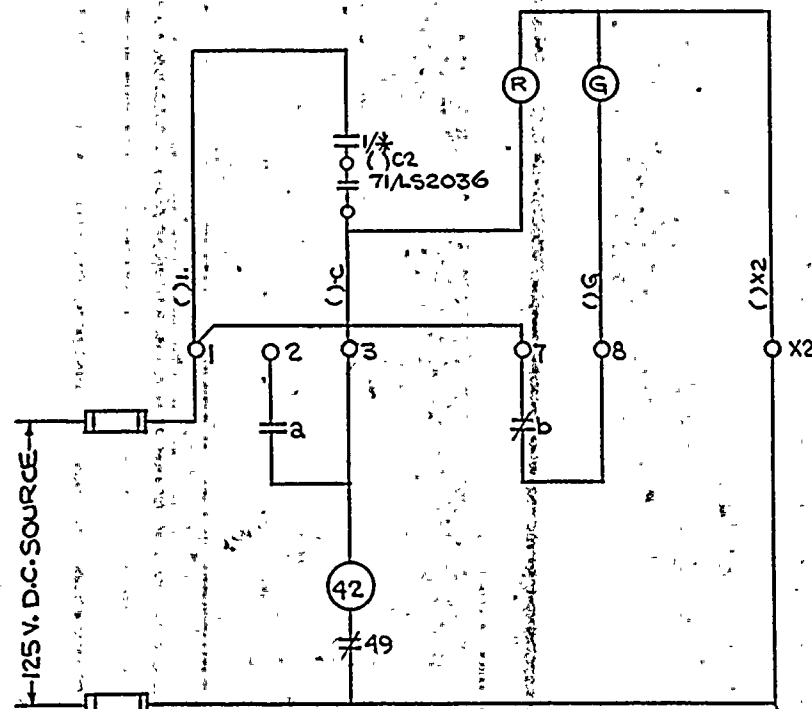


MOTOR CONTROL CENTER

SEC. WTR. TREAT CONT PNL

NOTES:

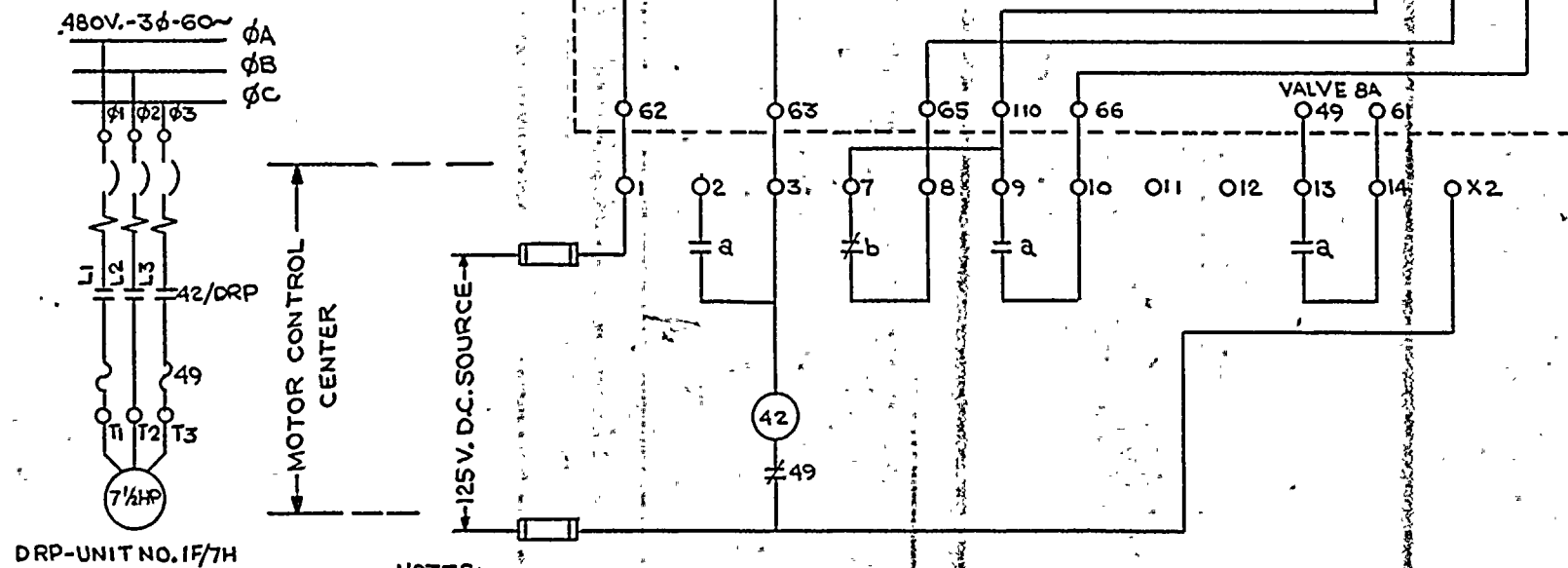
* PP
7 1/2 LS2036 LEV. SW. ON PHOSPHATE TANK
1/* SEE SW. DEV. N SH. 13



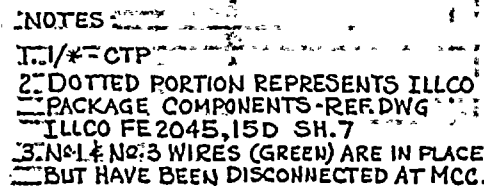
RXP7
LS2036
AR9
TO AUX. RELAY AR9
SH. 321

THIS DRAWING SUPERSEDES WESTINGHOUSE 499.B425-231

ELEMENTARY WIRING DIAGRAM				PHOSPHATE PUMP			
FACILITY				GINNA STATION			
ROCHESTER GAS & ELECTRIC CORP.				ROCHESTER, NEW YORK			
SCALE				JOB NO.			
DRAWING NO.				10905-231			
REV.				REV.			
NUMBER				REVISION			
ORIGINAL				DATE			
INITIAL				DRAWN BY			
DATE				CHECKED			
REVISION				ENG. MANG'.			
NUMBER				REVISION			



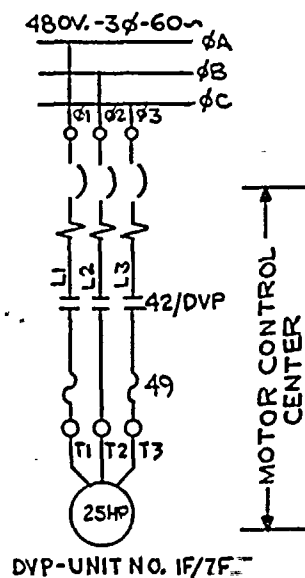
THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499 B425-232



ENGINEERING DEPT
NO 10905-233

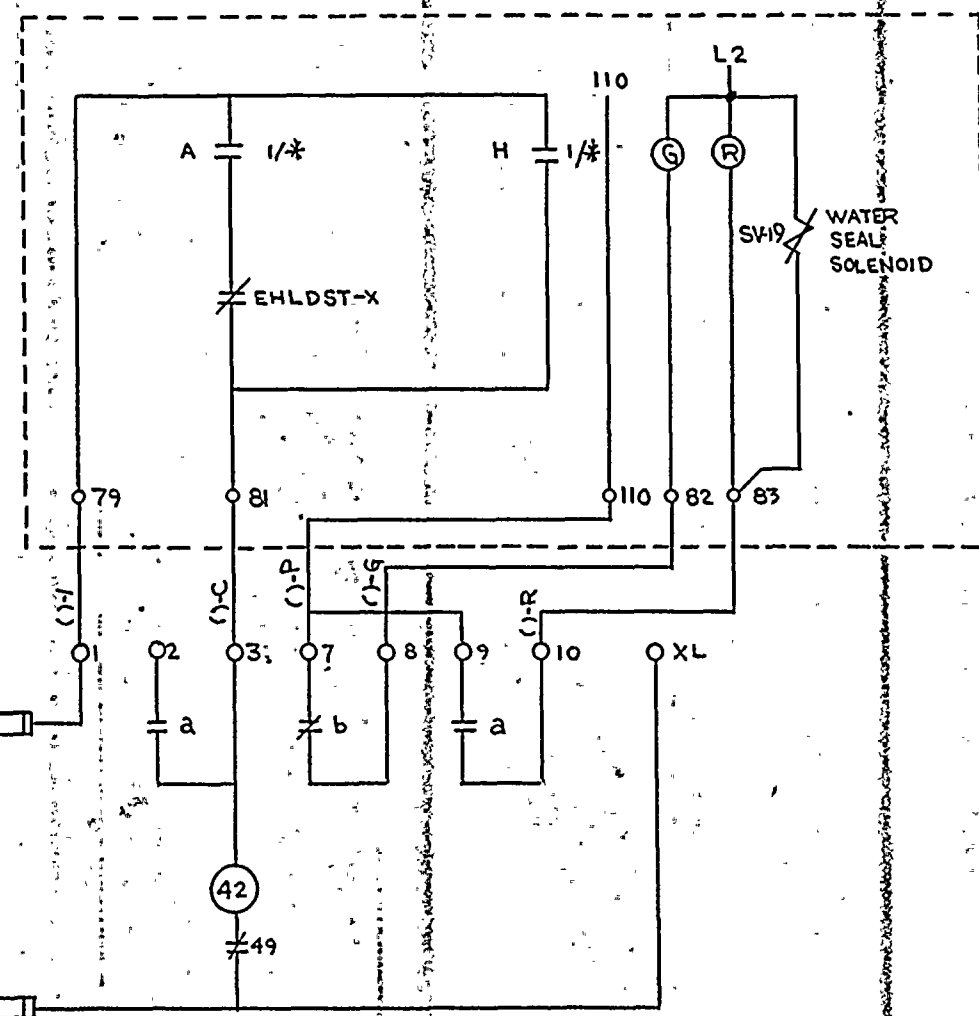
ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT No. 1
CONDENSATE TRANSFER PUMP
WIRING DIAGRAM

REV.								
ORIGINAL	Eff.	RHM	Det	Rev	6/5/58			
	DRAWN BY	CK'D	ENG'R	DISC. MGR	DATE			
OVER	DRAWN	DATE	SCALE					
	TRACED	BY	APPROVED					
	CHECKED		FOLDER NO.					
	ENCL.		JOB NO.					



NOTES:

* - DVP
 DOTTED PORTION
 REPRESENTS ILLCO
 PACKAGE COMPONENTS
 REFERENCE DRAWING
 ILLCO FE2045.15D SH. 6



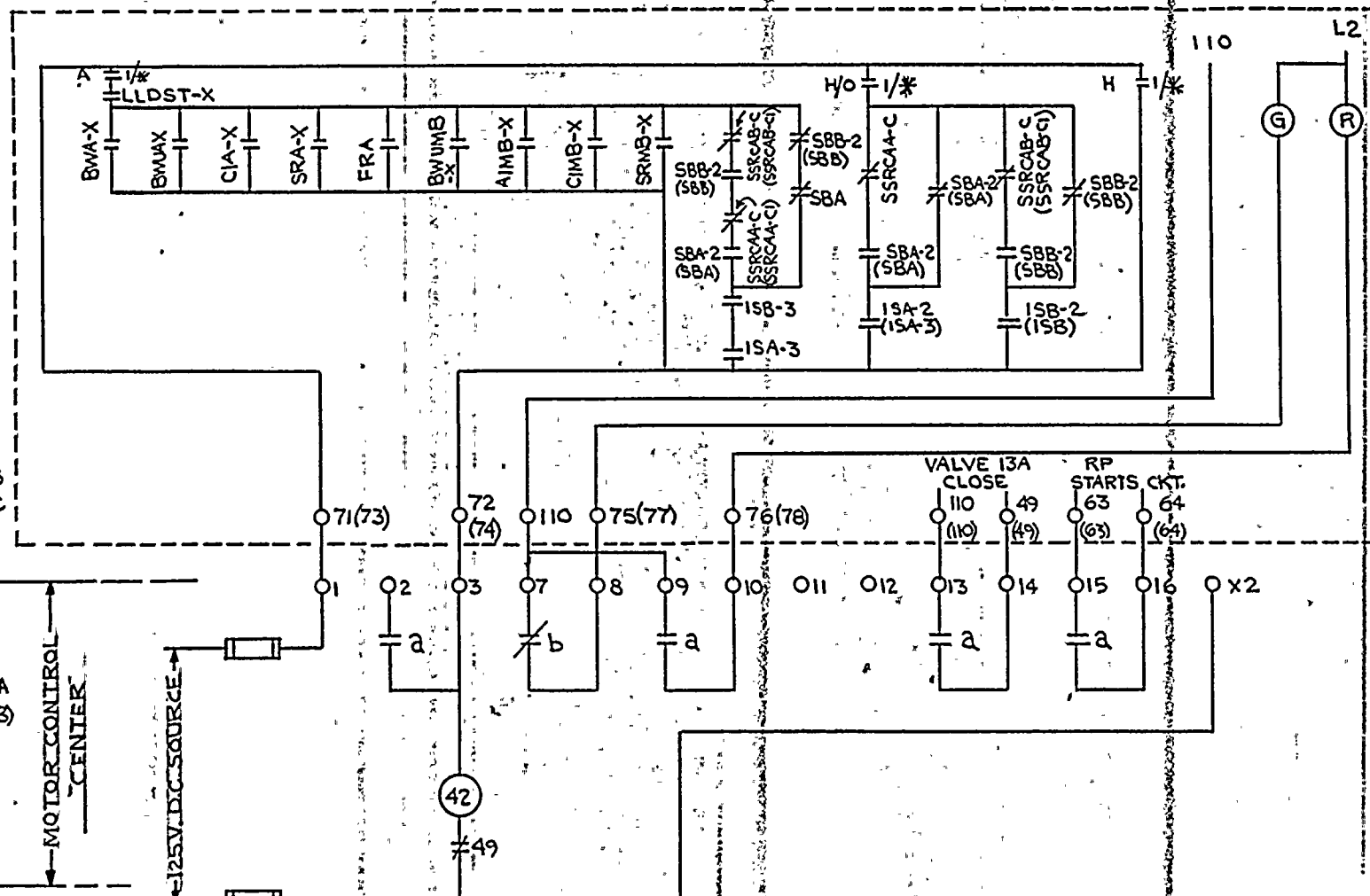
THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425-234

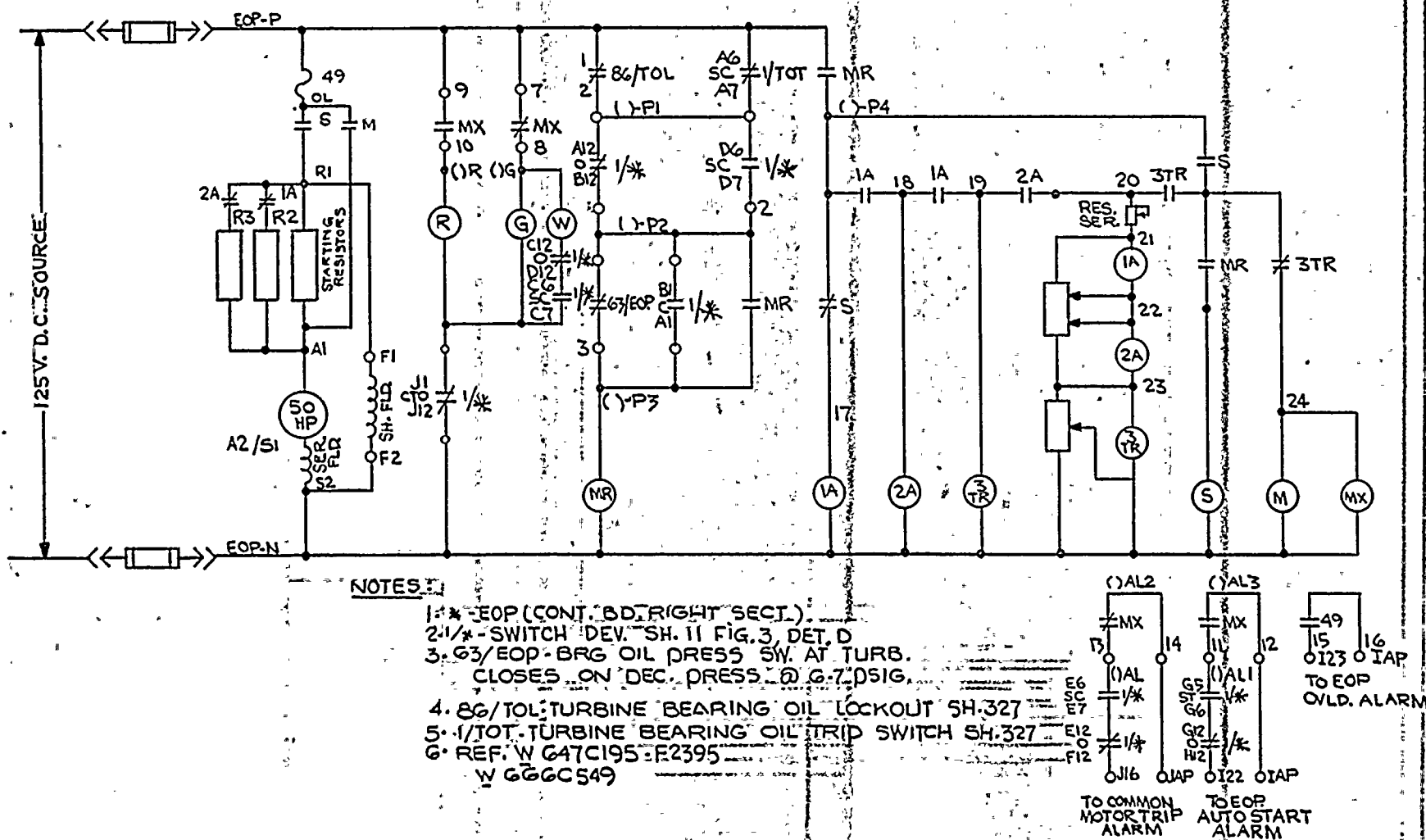
ELEMENTARY WIRING DIAGRAM DEGASIFIER VACUUM PUMP				FACILITY GINNA STATION		ROCHESTER GAS & ELECTRIC CORP. 133 JEFFERSON AVE. ROCHESTER, NEW YORK 14604		REV.	
				SCALE	JOB NO.	DRAWING NO.		10905-234	
INITIAL	DATE	REVISION	NUMBER	DESIGNED	CHECKED	ENG. MANG'D	ENG. MANG'D		
MDR	12/30/77	1/2/78	1/2/78	MDR	MDR	MDR	MDR		

NOTES:

*-DBP-1A OR (DBP-1B)
DOTTED PORTION REPRESENTS
ILLCO PACKAGE COMPONENTS
REFERENCE DRAWING
ILLCO EE-2045.15 D SH.6

THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 4998425-235

[illegible]



THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499 B425-236

ELEMENTARY WIRING DIAGRAM
EMERG. OIL PUMP

NO.	DATE	BY	CHECKED	REP. ENG. MANOR.	ENG. MANOR.
1	1/17/78	MyD	1/18/78	9/21/78	8/12/78
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

SCALE

FACILITY GINNA STATION

ROCHESTER GAS & ELECTRIC CORP.

ROCHESTER, NEW YORK

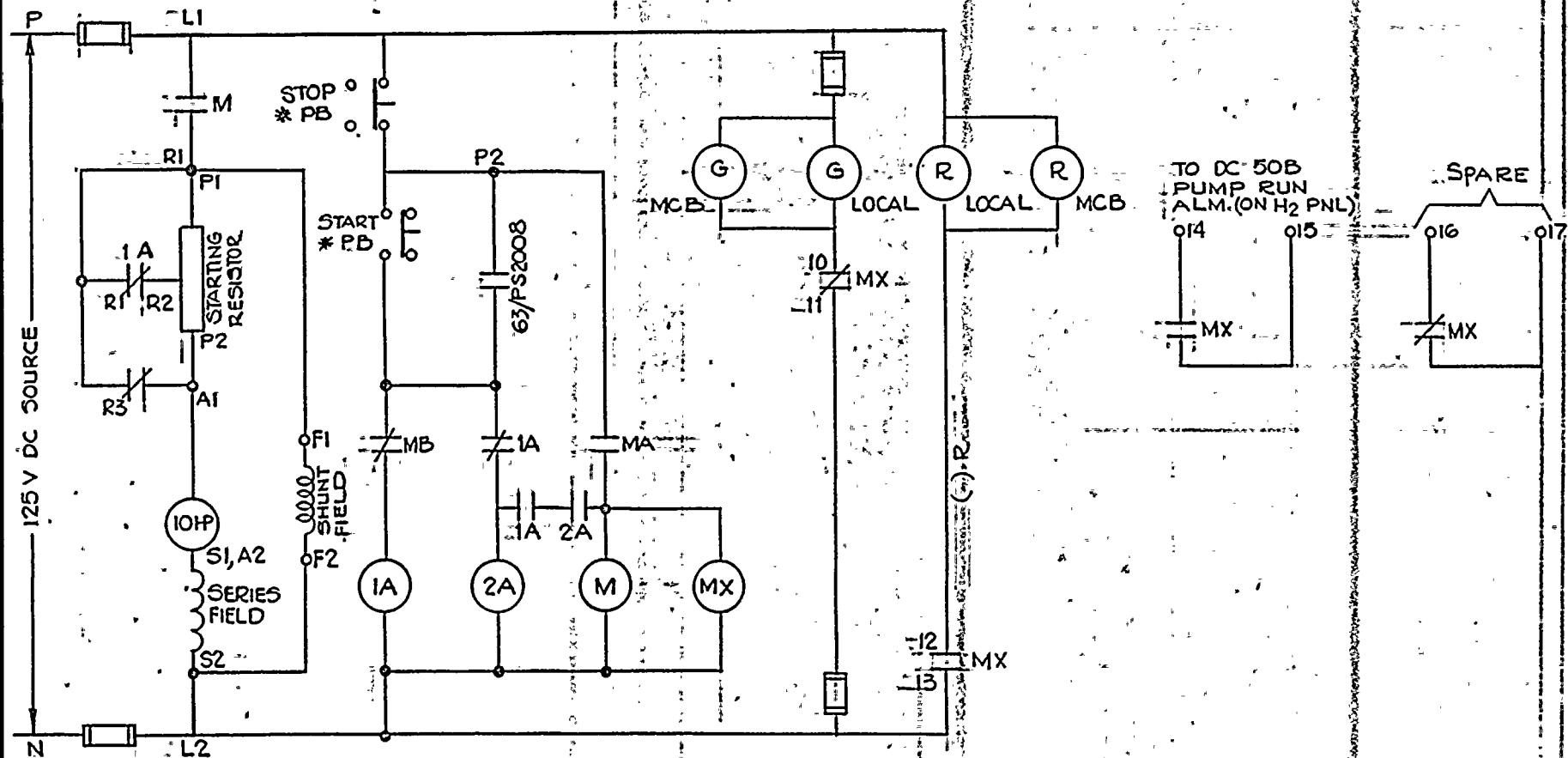
DRAWING NO.

JOB NO.

REV.

10905-236

NUMBER



* DENOTES DC-50B
PUSHBUTTON STATION AND RED AND GREEN LIGHT
MOUNTED LOCALLY. (W) CLASS 8522B WITH 3 POINT
ACCELERATION AND SIZE 3 STARTER.

NOTE

THIS DWG SUPERSEDES WESTINGHOUSE
DWG 499B425 SHEET 237 REV 2

[illegible]



- H2O
|
PS2040
|
HAP

THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425 - 239

REVISION	DATE	INITIAL	CHECKED BY	DATE	REVISION	DATE	INITIAL	CHECKED BY	DATE	REVISION
1	1/5/78	WJB	WJB	1/10/78	1	1/5/78	WJB	WJB	1/10/78	1
2	1/10/78	WJB	WJB	1/10/78	2	1/10/78	WJB	WJB	1/10/78	2
3	1/10/78	WJB	WJB	1/10/78	3	1/10/78	WJB	WJB	1/10/78	3
4	1/10/78	WJB	WJB	1/10/78	4	1/10/78	WJB	WJB	1/10/78	4
5	1/10/78	WJB	WJB	1/10/78	5	1/10/78	WJB	WJB	1/10/78	5
6	1/10/78	WJB	WJB	1/10/78	6	1/10/78	WJB	WJB	1/10/78	6
7	1/10/78	WJB	WJB	1/10/78	7	1/10/78	WJB	WJB	1/10/78	7
8	1/10/78	WJB	WJB	1/10/78	8	1/10/78	WJB	WJB	1/10/78	8
9	1/10/78	WJB	WJB	1/10/78	9	1/10/78	WJB	WJB	1/10/78	9
10	1/10/78	WJB	WJB	1/10/78	10	1/10/78	WJB	WJB	1/10/78	10
11	1/10/78	WJB	WJB	1/10/78	11	1/10/78	WJB	WJB	1/10/78	11
12	1/10/78	WJB	WJB	1/10/78	12	1/10/78	WJB	WJB	1/10/78	12
13	1/10/78	WJB	WJB	1/10/78	13	1/10/78	WJB	WJB	1/10/78	13
14	1/10/78	WJB	WJB	1/10/78	14	1/10/78	WJB	WJB	1/10/78	14
15	1/10/78	WJB	WJB	1/10/78	15	1/10/78	WJB	WJB	1/10/78	15
16	1/10/78	WJB	WJB	1/10/78	16	1/10/78	WJB	WJB	1/10/78	16
17	1/10/78	WJB	WJB	1/10/78	17	1/10/78	WJB	WJB	1/10/78	17
18	1/10/78	WJB	WJB	1/10/78	18	1/10/78	WJB	WJB	1/10/78	18
19	1/10/78	WJB	WJB	1/10/78	19	1/10/78	WJB	WJB	1/10/78	19
20	1/10/78	WJB	WJB	1/10/78	20	1/10/78	WJB	WJB	1/10/78	20
21	1/10/78	WJB	WJB	1/10/78	21	1/10/78	WJB	WJB	1/10/78	21
22	1/10/78	WJB	WJB	1/10/78	22	1/10/78	WJB	WJB	1/10/78	22
23	1/10/78	WJB	WJB	1/10/78	23	1/10/78	WJB	WJB	1/10/78	23
24	1/10/78	WJB	WJB	1/10/78	24	1/10/78	WJB	WJB	1/10/78	24
25	1/10/78	WJB	WJB	1/10/78	25	1/10/78	WJB	WJB	1/10/78	25
26	1/10/78	WJB	WJB	1/10/78	26	1/10/78	WJB	WJB	1/10/78	26
27	1/10/78	WJB	WJB	1/10/78	27	1/10/78	WJB	WJB	1/10/78	27
28	1/10/78	WJB	WJB	1/10/78	28	1/10/78	WJB	WJB	1/10/78	28
29	1/10/78	WJB	WJB	1/10/78	29	1/10/78	WJB	WJB	1/10/78	29
30	1/10/78	WJB	WJB	1/10/78	30	1/10/78	WJB	WJB	1/10/78	30
31	1/10/78	WJB	WJB	1/10/78	31	1/10/78	WJB	WJB	1/10/78	31
32	1/10/78	WJB	WJB	1/10/78	32	1/10/78	WJB	WJB	1/10/78	32
33	1/10/78	WJB	WJB	1/10/78	33	1/10/78	WJB	WJB	1/10/78	33
34	1/10/78	WJB	WJB	1/10/78	34	1/10/78	WJB	WJB	1/10/78	34
35	1/10/78	WJB	WJB	1/10/78	35	1/10/78	WJB	WJB	1/10/78	3

VALVE NO. MCC NO	FIG/ SH	SW/ SH	OPER MODE	CS/LGTS LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
313 1C/13J SEAL WATER RETURN ISOL.	9/288	C/12	O/FAI	CB		110E059 SH 5
350 1D/11M EMER. BORATO	1/280	C/12	C/FAI	CB		
515 1C/6C PRESS. REL. STOP	1/280	C/12	O/FAI	CB		
516 1D/6C PRESS. RELIEF STOP	1/280	C/12	O/FAI	CB		
700 1C/7F R.H.R. SUCTION STOP FROM LOOP A	6/285	C/12	C/FAI	CB		110E074 SH 1, 2 & 3 SH 305
701 1D/7F R.H.R. SUCTION STOP FROM LOOP A	6/285	C/12	C/FAI	CB		110E074 SH 2 & 3 SH 305
720 1C/7C R.H.R. DISCHARGE TO LOOP B	1/280	C/12	C/FAI	CB		
721 1D/7C R.H.R. DISCHARGE TO LOOP B	6/285	K/13	C/FAI	CB		110E074 SH 1
738A 1C/9M C.C. TO 1A R.H.R. HX	1/280	C/12	C/FAI	CB		
738B 1D/9M C.C. TO 1B R.H.R. HX	1/280	C/12	C/FAI	CB		
704A 1C/15F 1A R.H.R. PUMP SUCT.	13/278	C/12	O/FAI	CB		
704B 1D/16M 1B R.H.R. PUMP SUCT.	13/278	C/12	O/FAI	CB		

OPER. MODE

O - NORMALLY OPERATED OPEN
C - NORMALLY OPERATED CLOSED
X - NORMALLY OPERATED OPEN &
CLOSED
FC - FAILED CLOSED
FO - FAILED OPEN
FAI - FAILED AS IS

CONTROL SWITCH AND/OR POS. LGT LOCATIONS:

L - LOCAL
CB - CONTROL BOARD
SR - SAMPLE ROOM
BWP - BORON RECYCLE & WASTE
DISPOSAL PANEL

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425 SH 240

△									ELEMENTARY WIRING DIAGRAM MOTOR OPERATED VALVE TABLE
△									FACILITY GINNA ST
△	ORIGINAL	INITIAL	JF	PM	KWD	KWD			ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK
		DATE	11/9/77	12/9/77	7/18/78	7/18/78			SCALE
									JOB NO.
									DRAWING NO.
									REV.
	NUMBER	REVISION	DRAWN BY	CHECKED	REP. ENG.	ENG. MANO'R.			10905-240

VALVE NO. MCC NO.	FIG. /SH	SW. DEV.	OPER. MODE	CS/LGTS. LOCATION	INTERLOCKS	REF. DWG. #REMARKS
825B ID/9J R.W.S.T. To S.I. PUMPS SUCTION	303	C/12	%FAI	CB		110 E 059 SH 3 110 E 074 SH.2,4&5
826A IC/9C B.A.TANKS To S.I. PUMPS SUCTION	304	C/12	%FAI	CB		110 E 059 SH.3 110 E 074 SH.2,4,5&303
826B IC/9F B.A.TANKS To S.I. PUMPS SUCTION	304	C/12	%FAI	CB		110 E 059 SH.3 110 E 074 SH.2,4&5
826C ID/9C B.A.TANKS To S.I. PUMPS SUCTION	304	C/12	%FAI	CB		110 E 059 SH.3 110 E 074 SH.2,4&5
826D ID/9F B.A.TANKS To S.I. PUMPS SUCTION	304	C/12	%FAI	CB		110 E 059 SH.3 110 E 074 SH.2,4&5
841 IC/12F LOOP-B Acc. STOP	8/287	%12	%FAI	CB		110 E 059 SH.3
850A SUMP B IC/6J TOR.H.R.PP	305	%12	%FAI	CB	—	
850B SUMP B ID/6J TOR.H.R.PP	305	%12	%FAI	CB	—	
851A SUMP B IC/10M TOR.H.R.PP	13/278	%12	%FAI	CB	—	
851B SUMP B ID/10M TOR.H.R.PP	13/278	%12	%FAI	CB	—	

OPER. MODE
 O-NORMALLY OPERATED OPEN
 C-NORMALLY OPERATED CLOSED
 X-NORMALLY OPERATED OPEN & CLOSED
 FC-FAILED CLOSED
 FO-FAILED OPEN
 FAI-FAILED AS IS

CONTROL SWITCH AND/OR POS. LGT.
 LOCATION
 L-LOCAL
 CB-CONTROL BOARD
 SR-SAMPLE ROOM
 AP-AUXILIARY PANEL
 BWP-BORON RECYCLE & WASTE
 C-DISPOSAL PANEL

THIS DRAWING SUPERCEDES WESTINGHOUSE
 DWG. NO. 499 B 425, SHT. 242, (REV. 7)

ORIGINAL
 DRAWN BY: *Chant*
 CK'D. *Phineas*
 RES. *Phineas*
 ENGR. *Phineas*
 MGR. *Phineas*
 DATE: 2/25/75

ROCHESTER GAS & ELECTRIC CORP.
 ROCHESTER, NEW YORK
 ENGINEERING DEPT
 No. 10905-247

ROBERT EMMETT GINNA NUCLEAR POWER
 STATION UNIT NO. 1
 ELEMENTARY WIRING DIAGRAM
 MOTOR OPERATED VALVE TABLE

DRAWN	BY	DATE	SCALE
TRACED			APPROVED
CHECKED			FOUNDER NO.
ENG.			JOB NO.

			D/H	Rm	M/D	P/S	10
	2	2-6-77	2-16-77	K/GA	9-16-76	2-15-77	
	1	7/8/76	7-9-76	7-12-76	9-2-76	7-15-76	
REV.							
ORIGINAL							

VALVE NO.	FIG	SW	OPER	CS/LGT.	INTERLOCKS	REFERENCE DRAWING
MCC NO	SH	SH	MODE	LOCATION		AND REMARKS
B52A		C/12	C/FAT	CB	12 IC/7J-02 ST-15X 10 1C/7J-0	NO E059 SH 3 NOTE: KEY SWITCH IN. CLOSE COIL CIRCUIT
IC/7J RHR TO REACTOR (LOW HEAD SIS)	313					
B52B		C/12	C/FAT	CB	ID/7J-02 ST-26X 5 ID/7J-0	NO E059 SH 3 NOTE: KEY SWITCH IN. CLOSE COIL CIRCUIT
ID/7J RHR TO REACTOR (LOW HEAD SIS)	313					
B56	13/218	C/12	C/FAT	CB		
IC/10C R.W. S.T. TO R.H.R. PUMP DUCT						
B57A		C/12	C/FAT	CB	1C/1M-03 PIC-629 2 850 2 897 2 898 AX 6 20X1 6 1C/1M- 1C/1M-0 896 2 896 6 86 2 AX 2 8X 6 850 2 850 5 1C/1M- 2 8X 8 AX 1 850 8 1C/1M-0 8X ID/17M-0 2	NO E074 SH 2,3,5 SH 259,301,305,277
IC/17M A.R.H.R. HX TO ST & CS PUMPS	276					
B57B	276	C/12	C/FAT	CB	3 850 2 897 3 898 AX 7 20X1 7 1C/1M- 1C/1M-0 896 2 896 7 850 3 AX 5 8X 2 850 4 850 8 1C/1M- 3 8X 8 AX 1 850 8 1C/1M-0 8X ID/17M-0 2	NO E074 SH 2,3,5 SH 259,301,305,277
ID/17M B.E.H.R. HX TO ST & CS PUMPS						
B57C		C/12	C/FAT	CB	1C/15J-02 2 850 2 897 2 898 AX 13 20X1 13 1C/15J- 1C/15J-0 896 13 896 13 850 5 AX 9 8X 9 850 13 850 21 1C/15J- 21 AX 17 898 1C/15J-0 8X	NO E074 SH 2,3,5 SH 259,301,305,277
IC/15J A.R.H.R. HX TO ST & CS PUMPS	276					
B60A	8/287	C/12	C/FAT	CB	1C/8J-02 ST-10X 5 1C/8J-0	NO E059 SH 5
IC/8J TA CS PUMP DISCH						
B60B	8/287	C/12	C/FAT	CB	ID/8J-02 ST-20X 8 ID/8J-0	NO E059 SH 5
ID/8J TA CS PUMP DISCH						
B60C	8/287	C/12	C/FAT	CB	1C/11E-02 ST-10X 21 1C/11E-0	NO E059 SH 5
IC/11E IB CS PUMP DISCH						
B60D	8/287	C/12	C/FAT	CB	ID/11E-02 ST-20X 22 ID/11E-0	NO E059 SH 5
ID/11E IB CS PUMP DISCH						
OPER MODE					CONTROL SWITCH AND/OR POS. LGT.	
O: NORMALLY OPER. OPEN					LOCATION	
C: NORMALLY OPER. CLOSED					LOCAL	
X: NORMALLY OPER. OPEN & CLOSED					CB: CONTROL BOARD	
FC: FAILED CLOSED					SR: SAMPLE ROOM	
FO: FAILED OPEN					AP: AUXILIARY PANEL	
EAT: FAILED AS IS					BYPL: BAYON, RECYCLE & WASTE	
					DISPL: PANEL	

[illegible]

VALVE NO MCC NO	FIG /SH	SW /SH	OPER MODE	CS/LGTS LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
1813A 1C/13M SUMP B TO RCDT PUMP A.	7/286	C/12	C/FAL	CB		
1813B 1D/13M SUMP B TO RCDT PUMP B.	7/286	C/12	C/FAL	CB		
1815A 1C/15M C.S.I.P. SUCTION FROM RWST.	8/287	C/12	C/FAL	CB		110E059 SH3
1815B 1D/16J C.S.I.P. SUCTION FROM RWST.	8/287	C/12	C/FAL	CB		110E059 SH3
4663 1C/11M ACTV-1A1	8/282	C/12	C/FAL	CB		110E059 SH3 SHEET 65 AIR COND. CHILLER SERV WATER ISOL VALVE 1A1 4663
4007A 1C/6M AFDV-1A	4/283	BB/14	C/FAL	CB		SHEET 76 & 317 MOTOR DRIVEN AUX FEED PUMP 1A DISCHARGE VALVE 4007
4008 1D/6M AFDV-1B	4/283	BB/14	C/FAL	CB		SHEET 77 & 317 MOTOR DRIVEN AUX FEED PUMP 1B DISCHARGE VALVE 4008
4027 1C/12C AEP5V-1A	5/284	C/12	C/FAL	CB		MOTOR DRIVEN AUX FEED PUMP 1A SERVICE WATER SUPPLY VALVE 4027
1A733 1D/14J ACTV-1A2	3/282	C/12	C/FAL	CB		110E059 SH3 SHEET 66 AIR COND. CHILLER SERV WATER ISOL VALVE 1A2 4733
<p>OPER MODE CONTROL SWITCH AND/OR POS. LGT.</p> <p>O=NORMALLY OPERATED OPEN. LOCATION:</p> <p>C=NORMALLY OPERATED CLOSED. L=LOCAL</p> <p>X=NORMALLY OPERATED OPEN CB=CONTROL BOARD</p> <p>CLOSED SR=SAMPLE ROOM</p> <p>FC=FAILED CLOSED</p> <p>FO=FAILED OPEN</p> <p>FAL=FAILED AS IS</p>						

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMNETT GINNA NUCLEAR POWER STATION UNIT NO. 1	DRAWN BY	DATE	SCALE NONE
ENGINEERING DEPT	ELEMENTARY WIRING DIAGRAM	TRACED		APPROVED
NO. 10905-245	MOTOR OPERATED VALVE TABLE	CHECKED		FOLOER NO.
		ENG.		JOB NO.

NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING NO. 499B425 SH 246 REV. 5

VALVE NO. MCC NO.	FIG. /SH	SW /SH	OPER. MODE	CS/LGT LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
402B ID/12J AFPSV-7B	5/284	9/12	9/FAT	CB		MOTOR DR. AUX. F.P. 1B SERV. WTR. SUPPLY VALVE 402B
4013 ID/12M AFPSV-K	5/284	9/12	9/FAT	CB		TURB. DR. AUX. F.P. SERV. WTR. SUPPLY VALVE 4013
3154 1A/8C CIV-1A1	11/290	9/13 BLOCK NO. 1 LEFT CONT	9/FAT	CB REAR	1A/8C-C1 = CVX1 1A/8C-C	SINGLE SWITCH FOR CIV-1A1 & CIV-1B2 CONDENSER INLET VALVE 1A1 SH 316
3152 1A/8F CIV-1A2	11/290	9/13 BLOCK NO. 1 LEFT CONT	9/FAT	CB	1A/8F-C1 = CVX2 1A/8F-C	SINGLE SWITCH FOR CIV-1A2 & CIV-1B1 CONDENSER INLET VALVE 1A2 SH 316
3155 1A/8J CIV-1B1	11/290	9/13 BLOCK NO. 1 RIGHT CONT	9/FAT	CB	1A/8J-C1 = CVX2 1A/8J-C	SINGLE SWITCH FOR CIV-1A2 & CIV-1B1 CONDENSER INLET VALVE 1B1 SH 316
3153 1A/8M CIV-1B2	11/290	9/13 BLOCK NO. 1 RIGHT CONT	9/FAT	CB	1A/8M-C1 = CVX1 1A/8M-C	SINGLE SWITCH FOR CIV-1A1 & CIV-1B2 CONDENSER INLET VALVE 1B2 SH 316
3158 1B/4C COV-1A1	11/290	9/13 BLOCK NO. 1 LEFT CONT	9/FAT	CB	1B/4C-C1 = CVX3 1B/4C-C	SINGLE SWITCH FOR COV-1A1 & COV-1B2 CONDENSER OUTLET VALVE 1A1 SH 316

REV	
ORIGINAL	
DRAWN BY	CUT
CHKD BY	BLS
ENG'G	REC
APPR	REC
DATE	4/2/74

OPER. MODE CONTROL SWITCH AND/OR POS. LGT
 O=NORMALLY OPERATED OPEN LOCATION:
 C=NORMALLY OPERATED CLOSED L=LOCAL
 X=NORMALLY OPERATED OPEN & CB=CONTROL BOARD
 CLOSED SR=SAMPLE ROOM
 FC=FAILED CLOSED
 FO=FAILED OPEN
 FA=FAILED AS IS
 BWP=BORON RECYCLE & WASTE
 DISPOSAL PANEL

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT NO. 1

ENGINEERING DEPT

ELEMENTARY WIRING DIAGRAM
MOTOR OPERATED VALVE TABLE

No. 10905-246

DRAWN BY	DATE	SCALE NONE
TRACED		APPROVED
CHECKED		FOLDER NO.
ENG.		JOB NO.

NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING 499B425 5H247 REV.5

VALVE NO. NCC NO.	FIG. SH	SW SH	OPER MODE	CS/LGTS LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
3156 IB/4E COV-1A2	1/290	1/13 BLOCK NO.1 LEFT CONT.	0/FAT	CB	IB/4F-C1 CYX4 IB/4F-C	SINGLE SWITCH FOR COV-1A2 & COV-1B1 CONDENSER OUTLET VALVE 1A2 SH 316
3159 IB/4J COV-1B1	1/290	1/13 BLOCK NO.1 RIGHT CONT.	0/FAT	CB	IB/4J-C1 CYX4 IB/4J-C	SINGLE SWITCH FOR COV-1A2 & COV-1B1 CONDENSER OUTLET VALVE 1B1 SH 316
3157 IB/4M COV-1B2	1/290	1/13 BLOCK NO.1 RIGHT CONT.	0/FAT	CB	IB/4M-C1 CYX3 IB/4M-C	SINGLE SWITCH FOR COV-1A1 & COV-1B2 CONDENSER OUTLET VALVE 1B2 SH 316
33977 1A/5J FDV-1A	3/282	6/12	0/FAT	CB	1A/5J-C2 52S/FPIA 1A/5J-C	SHEET 30 STM GEN FW PUMP DISCHARGE VALVE
33976 IB/8G FDV-1B	3/282	6/12	0/FAT	CB	IB/8G-C2 52S/FPIB IB/8G-C	SHEET 30 STM GEN FW PUMP DISCHARGE VALVE
4675 1C/14J ABIV-1B1	3/282	6/12	0/FAT	CB	1C/14J-C2 1C/14J-C3 52/18B-X 52/18B-X 1C/14J-C3	110E059 SH3 SHEET 65 AUX BLDG SERV WTR ISOLATION VALVE
4734 1D/6E ABIV-1B2	3/282	6/12	0/FAT	CB	1D/6E-C2 1D/6E-C3 52/11B-X 52/11B-X 1D/6E-C3	110E059 SH3 SHEET 66 AUX BLDG SERV WTR ISOLATION VALVE
4609 1H/2M SHMY-1A1	3/282	6/12	0/FAT	CB	1H/2M-C2 1H/2M-C3 52/18B-X 52/18B-X 1H/2M-C3	110E059 SH3 SHEET 65 SCREEN WASH SERV WATER ISOL VALVE 1A1
4780 1J/2M SHMY-1A2	3/282	6/12	0/FAT	CB	1J/2M-C2 1J/2M-C3 52/11B-X 52/11B-X 1J/2M-C3	110E059 SH3 SHEET 66 SCREEN WASH SERV WATER ISOL VALVE 1A2
<p>OPER MODE</p> <p>O-NORMALLY OPERATED OPEN</p> <p>C-NORMALLY OPERATED CLOSED</p> <p>X-NORMALLY OPERATED OPEN & CLOSED</p> <p>FC-FAILED CLOSED</p> <p>FO-FAILED OPEN</p> <p>FAT-FAILED AS IS</p> <p>CONTROL SWITCH AND/OR POS. LGT LOCATION:</p> <p>L-LOCAL</p> <p>CB-CONTROL BOARD</p> <p>SR-SAMPLE ROOM</p> <p>BWP-BORDON RECYCLE & WASTE DISPOSAL PANEL</p>						
<p>ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK</p> <p>ENGINEERING DEPT</p> <p>No. 10905-247</p>				<p>ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1</p> <p>ELEMENTARY WIRING DIAGRAM</p> <p>MOTOR OPERATED VALVE TABLE</p>		
<p>ORIGINAL</p> <p>KEY</p> <p>DRAWN BY GJF</p> <p>CHK'D DKG</p> <p>RES'D RFA</p> <p>ENG'K GEL</p> <p>DATE 1/1/74</p>				<p>DRAWN BY DATE SCALE NONE</p> <p>TRACED APPROVED</p> <p>CHECKED FOLDER NO.</p> <p>ENG. JOB NO.</p>		

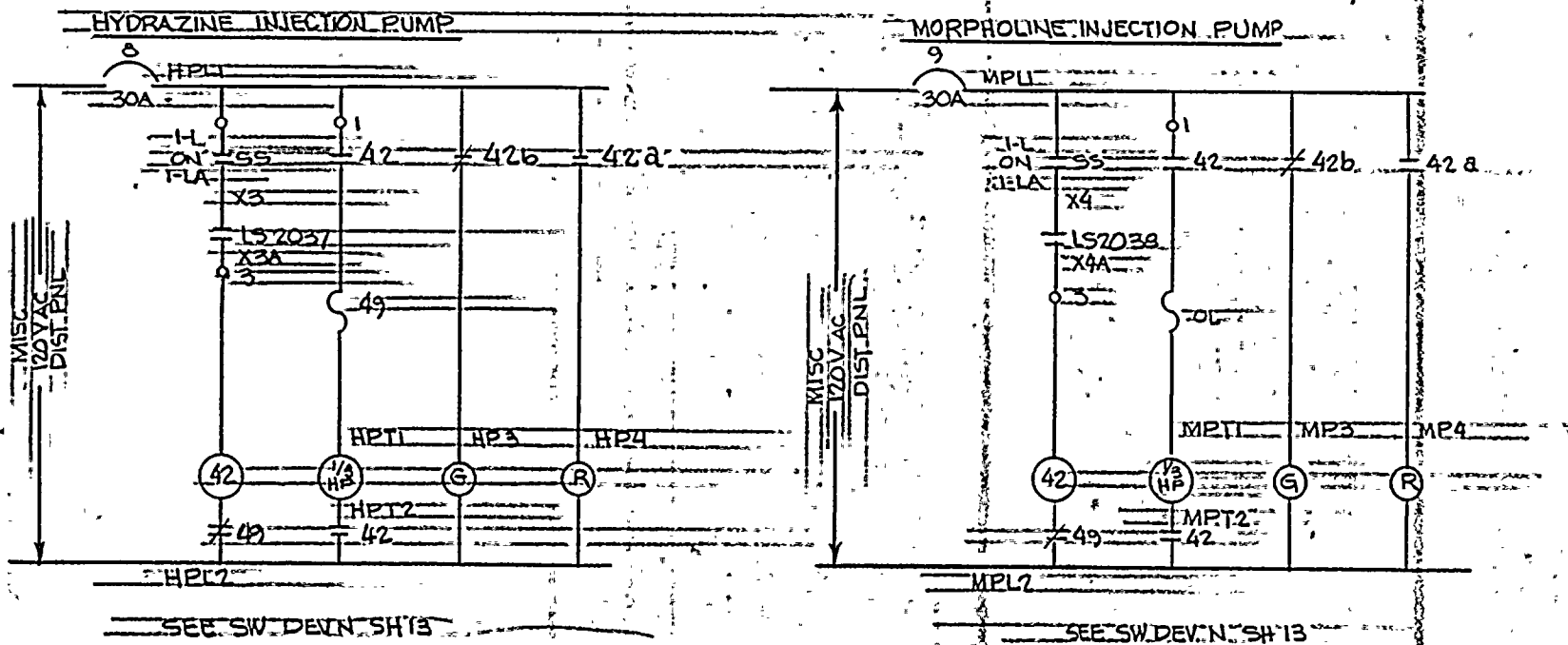
NOTE- THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING NO. 492B 425 SH. 248 REV. 5

VALVE NO	FIG.	SW.	OPER.	CS/LGT.	LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
4614 1C/14M	3/282	9/12	9/FAT	CB			110E059 SH.3 SHEET 65 TURB. BLDG. SERV. WTR. ISOLATION VALVE
4664 1D/13F	3/282	9/12	9/FAT	CB			110E059 SH.3 SHEET 66 TURB. BLDG. SERV. WTR. ISOLATION VALVE
4670 1H/2J	3/282	9/12	9/FAT	CB			110E059 SH.3 SHEET 65 TURB. BLDG. SERV. WTR. ISOLATION VALVE
4613 1D/1J	3/282	9/12	9/FAT	CB			110E059 SH.3 SHEET 66 TURB. BLDG. SERV. WTR. ISOLATION VALVE
4616 1C/6F	3/282	9/12	9/FAT	CB			110E059 SH.3 SHEET 65 AUX. BLDG. SERV. WTR. ISOLATION VALVE
4735 1D/13C	3/282	9/12	9/FAT	CB			110E059 SH.3 SHEET 66 AUX. BLDG. SERV. WTR. ISOLATION VALVE
<p>OPER. MODE: CONTROL SWITCH AND/OR POS. LGT. O-NORMALLY OPERATED OPEN LOCATION: C-NORMALLY OPERATED CLOSED L-LOCAL X-NORMALLY OPERATED OPEN & CLOSED CB-CONTROL BOARD SR-SAMPLE ROOM</p> <p>FO-FAILED CLOSED FO-FAILED OPEN FAT-FAILED AS IS</p> <p>BWP-BORON RECYCLE & WASTE DISPOSAL PANEL</p>							

REV	
ORIGINAL	
DRAWN BY	GJF
CHKD	P. G.
RESD	P. G.
ENGR	P. G.
DATE	4/2/76

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMMETT GINNA NUCLEAR STATION UNIT NO. 1
ENGINEERING DEPT	ELEMENTARY WIRING DIAGRAM
No. 10905-248	MOTOR OPERATED VALVE TABLE

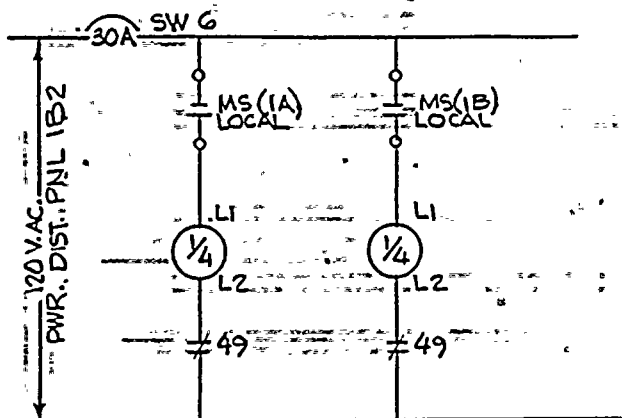
DRAWN	BY	DATE	SCALE NONE
TRACED			APPROVED
CHECKED			FOLDER NO.
ENG.			JOB NO.



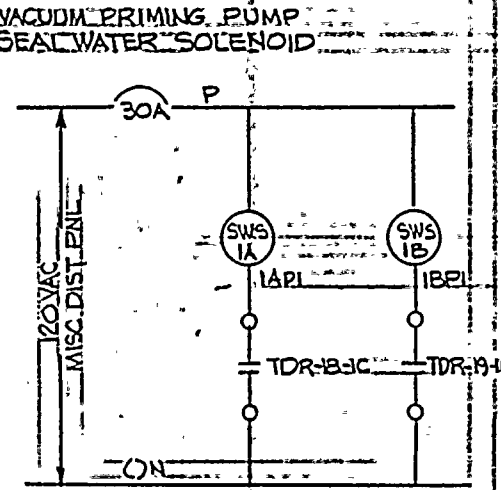
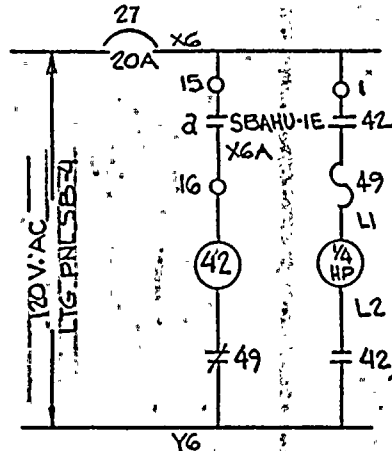
NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499 B 425 SH 250

ELEMENTARY WIRING DIAGRAM				HYDRAZINE AND MORPHOLINE INJECTION PUMPS			
NUMBER	ORIGINAL	INITIAL	DATE	FACILITY GINNA STA		ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	
				SCALE		JOB NO.	
DRAWN BY	GJF	1/26/77	1/26/77	CHECKED	1/26/77	DRAWING NO.	
						10905-250	
REVISION	1	1/26/77	1/26/77	RESP. ENG.	1/26/77	REV.	
						A	

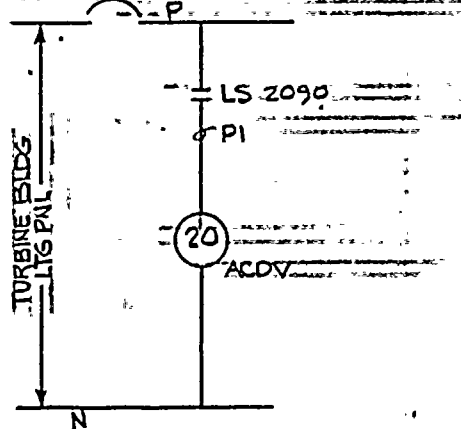
BATTERY ROOM EXH FAN 1A (1B)



SERVICE BLDG. ROOF EXH FAN 1E VACUUM PRIMING PUMP SEAL WATER SOLENOID



LEAK TEST AFTER COOLER DRAIN VALVE



NOTES:

TDR-18-IC SHEET 155
TDR-19-IC SHEET 156

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH 251

ELEMENTARY WIRING DIAGRAM

REVISION	DATE	INITIAL	BY	CHECKED	REVIEWED	ENG. MANG.
1	12/8/77	SJF	BW	12/8/77	12/8/77	12/8/77
2	12/8/77	SJF	BW	12/8/77	12/8/77	12/8/77
3	12/8/77	SJF	BW	12/8/77	12/8/77	12/8/77
4	12/8/77	SJF	BW	12/8/77	12/8/77	12/8/77
5	12/8/77	SJF	BW	12/8/77	12/8/77	12/8/77
6	12/8/77	SJF	BW	12/8/77	12/8/77	12/8/77
7	12/8/77	SJF	BW	12/8/77	12/8/77	12/8/77
8	12/8/77	SJF	BW	12/8/77	12/8/77	12/8/77
9	12/8/77	SJF	BW	12/8/77	12/8/77	12/8/77
10	12/8/77	SJF	BW	12/8/77	12/8/77	12/8/77

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

JOB NO. 10905-251

DRAWING NO.

REV.

1

2

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4

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17

THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425 SH-254 REV 5

VALVE NO. B/M NO.	FIG. /SH	SV DEV.	OPER. MODE	CS/LGT LOCATION	INTERLOCKS	REFERENCE AND DRAWING REMARKS
3505 TAFSV-1A RN21A	322	6/329	C/FAT	CB	TAFSV-1A-02 MFPX-1A2 MFPX-1B2 TAFSV-1A-0	SH-317 TURB. DRV. STM. GEN. FW. PUMP STM. ADM. VALVE-1A Q1 33bc Q1 33bc
3504 TAFSV-1B RN21B	322	6/329	C/FAT	CB	TAFSV-1B-02 MFPX-1A2 MFPX-1B2 TAFSV-1B-0	SH-317 TURB. DRV. STM. GEN. FW. PUMP STM. ADM. VALVE-1B Q1 33bc Q1 33bc
3596 TAFDV	1293	6/12	C/FAT	CB	TAFDV-02 MFPX-1A2 MFPX-1B2 TAFDV-XR TAFSV-1A TAFSV-1B TAFDV-0	SH-317 TURB. DRV. STM. GEN. FW. PUMP DISCH. VALVE (WATER)
3150 CWDV-1A	1294	6/12	9/FAT	PB LOCAL CWP-1A CB	SEE SH-294	SH-314 316 CIRC. WTR. PUMP DISCH. VALVE-1A
3151 CWDV-1B	1294	6/12	9/FAT	PB LOCAL CWP-1B CB	SEE SH-294	SH-314 316 CIRC. WTR. PUMP DISCH. VALVE-1B
317F FBIY RNG3	1292	6/12	9/FAT	CONT. RM FIRE CONT PANEL		Q1 33bc TURB. RM. FIRE CPT. SERV. ISOL. VALVE 1011G
<div>OPER. MODE</div> <div>O-NORMALLY OPER. OPEN C-NORMALLY OPER. CLOSED X-NORMALLY OPER. OPEN & CLOSED FC: FAILED CLOSED FO: FAILED OPEN FAT: FAILED AS IS</div> <div>CONTROL SWITCH AND/OR POS. LGT. LOCATION: L-LOCAL CB-CONTROL BOARD SR-SAMPLE ROOM AP-AUXILIARY PANEL WP-WASTE DISPOSAL PANEL</div>						

REV	1
ORIGINATOR	Av
DESIGNED BY	D.H.
CHECKED BY	Av
DATE	4/1/74

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1	DRAWN BY C.H.	DATE 8-75	SCALE
ENGINEER	DEPT	TRACED	APPROVED	
No. 10905-254	CLEW WIRING DIAGRAM	CHECKED	FOLDER NO.	
	MOTOR OPERATED VALVES	ENG.	JOB NO.	

THIS DRAWING SUPERSEDES WORKING HOUSE DRAWING 499 B425 SIF 295 REV. 6

VALVE	FIG./SH	SW/SH	OPER. MODE	CS/LGT. LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
200A LET DOWN ORIFICE STOP	3/300	E/12	O/FC	CB	9/1 200A-RX 13/1 20X/427 200A-S	FIG. 4 SHEET 295
200B LET DOWN ORIFICE STOP	3/300	E/12	O/FC	CB	10/1 200B-RX 14/1 20X/427 200B-S	FIG. 4 SHEET 295
202 LET DOWN ORIFICE STOP	3/300	E/12	O/FC	CB	11/1 202-RX 15/1 20X/427 202S	FIG. 4 SHEET 295
244 DEBORATE DI. DIVERSION	1/295	E/12	O/FC	CB		MARK FACE PLATE 'NORMAL' INSTEAD OF 'CLOSE' 'OVERT' INSTEAD OF 'OPEN'
258 VCT VENT	3/295	G/12	C/FC	CB		
270A 1A RCP SEAL DISCH.	1/295	F/12	O/FO	CB		
270B 1B RCP SEAL DISCH.	1/295	F/12	O/FO	CB		
29A CHARGING COLD LEG LOOP B	1/295	E/12	X/FC	CB		
296 AUX. SPRAY TO PRZR.	1/295	E/12	X/FC	CB		

OPER. MODE
 O-NORMALLY OPER. OPEN
 C-NORMALLY OPER. CLOSED
 X-NORMALLY OPER. OPEN & CLOSED
 FC-FAILED CLOSED

CONTROL SWITCH AND/OR POS. LGT. LOCATION
 L-LOCAL
 CB-CONTROL BOARD
 SR-SAMPLE ROOM

REV.					
ORIGINAL	D.H.	Rm	Rza.	ged	1/12/76
	DRAWN BY	CHK'D	RESP. ENGR	ENG'R M.W.C.	DATE

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK		ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1		DRAWN	OH.	DATE	SCALE
ENG'R		ELEM-WIRING-DIAGRAM		TRACED			APPROVED
NO. 10705-255		SOLENOID & SOLENOID PILOT VALVE		CHECKED			FOLDER NO.
				ENG.			JOB NO.

VALVE	FIG. SH.	SW. SH.	OPER. MODE	CS/LGTS LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
310	1/295	E/12	O/FC	CB		
EXCESS LETDOWN STOP						
312	1/295	E/12	O/FC	CB		MARK FACE PLATE : "NORMAL" INSTEAD OF "CLOSE" "DIVERT" INSTEAD OF "OPEN"
EXCESS LETDOWN DIVERSION			FAIL TO NORM			
371	10/296	E/12	O/FC	CB	317-C 317-SI 317-S	110E059 SH.5
LETDOWN ISOL.						
386	1/295	E/12	O/FC	CB		
RCP SEAL BYPASS						
392A	1/295	E/12	O/FC	CB		
CHARGING HOT LEG LOOP B						
392B	1/295	E/12	O/FC	CB		
ALTERNATE CHARGING COLD LEG LOOP A						
508	10/296	E/12	O/FC	CB	508-C 508-SI 508-S	110E059 SH.5
R.M.W. TO C.V. STOP						
521	1/295	E/12	O/FO	CB		
REACTOR VESSEL FLANGE LEAK OFF						

OPER. MODE:

O = NORMALLY OPERATED OPEN
 C = NORMALLY OPERATED CLOSED
 X = NORMALLY OPERATED OPEN & CLOSED
 FC = FAILED CLOSED
 FO = FAILED OPEN
 FAI = FAILED AS IS

CONTROL SW. AND/OR POS. LGT. LOCATION:

L = LOCAL, CB = CONTROL BOARD,
 SR = SAMPLE ROOM, BWP = BORON RECYCLE
 & WASTE DISPOSAL PANEL

THIS DRAWING SUPERSEDES WESTINGHOUSE
 DWG 499B425 SHEET 256 REV. 4

Rev.						
Original	qsk	RW	RGA	REL	4/1/76	
	drawn by	ck'd.	resp. eng'r	eng'r mon'r	date	

ROCHESTER GAS & ELECTRIC CORP.
 ROCHESTER, NEW YORK

ENGINEERING DEPT

No. 10905-256

ROBERT EMMETT GINNA NUCLEAR POWER
 STATION UNIT NO. 1

ELEMENTARY WIRING DIAGRAM
 SOLENOID & SOLENOID PILOT VALVE

DRAWN	BY	DATE	SCALE
TRACED			APPROVED
CHECKED			FOLDER NO.
ENG.			JOB NO.

VALVE	FIG/SH	SIZE	OPER. MODE	CS/LG ID. LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
526 PRT DRAIN	1/295	E/12	C/FC	CB		
527 PRT VENT TO Y.H.	3/295	E/12	C/FC	CB	2/ #PC-A40B-X. 6/	110E074 SH.1
539 PRT TO GAS ANAL	309	A/314	C/FC	CB	3/ #C10X 539-C 7/ #C20X 539-SI 3/ #C20X 539-S	110E059 SH.5 MINE SFTY. APPL. ASK 1675-675
548 R/W TO PRT	1/295	E/12	C/FC	CB		
550A R/W TO A STAND PIPE	1/295	E/12	C/FC	CB		
550B R/W TO B STAND PIPE	1/295	E/12	C/FC	CB		
745 CC FROM A PCB THERMAL BARRIER	1/295	E/12	O/FC	CB		CC RETURN FROM EXCESS LETDOWN .HX (AIR OP)
754A CC FROM A PCB THERMAL BARRIER	1/295	E/12	O/FC	CB		
754B CC FROM B PCB THERMAL BARRIER	1/295	E/12	O/FC	CB		
854A N ₂ TO B LOOP ACC	1/295	E/12	C/FC	CB		
854B N ₂ TO A LOOP ACC	1/295	E/12	C/FC	CB		
855A E/L TO LOOP B ACC	1/295	E/12	C/FC	CB		

REV					
ORIGINAL	894	END	APR.	938	1/27/76
	DESIGNED		ENG	ENG	DATE

OPER. MODE: CONTROL SWITCH AND/OR POS. LGT.
O=NORMALLY OPER. OPEN LOCATION:
C=NORMALLY OPER. CLOSED L=LOCAL
X=NORMALLY OPER. OPEN & CB=CONTROL BOARD
CLOSED SR= SAMPLE ROOM
FC=FAILED CLOSED
FO= FAILED OPEN BW/D= BORON RECYCLE AND WASTE
FAT= FAILED AS IS DISPOSAL PANEL

NOTE: THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING NO 499B425 5R257

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1	DRAWN	BY	DATE	SCALE $\frac{1}{2}$
		TRACED			APPROVED
ENGINEERING DEPT.	ELEMENTARY WIRING DIAGRAM SOLENOID AND SOLENOID PILOT VALVE	CHECKED			FOLDER NO.
NO. 10905-257		ENG.			JOB NO.

VALVE	FIG / SH	SW / GN	OPER. MODE	LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
B35B Fill To Loop A Acc.	1/295	E/12	C/FC	<u>CB</u>	_____	
B36A Dischg. From NAOH Tank	4/312	—	—	—	_____	SPRAY ADDITIVE TANK DISCH. VALVE
B36B Dischg. From NAOH Tank	4/312	—	—	—	_____	SPRAY ADDITIVE TANK DISCH. VALVE
B39A Loop B Acc. Dump Line Test	1/295	E/12	C/FC	<u>CB</u>	_____	
B39B Loop B Acc. Dump Line Test	1/295	E/12	C/FC	<u>CB</u>	_____	
B40A Loop A Acc. Dump Line Test	1/295	E/12	C/FC	<u>CB</u>	_____	
B40B Loop A Acc. Dump Line Test	1/295	E/12	C/FC	<u>CB</u>	_____	
B44A Loop B Acc. To R.C.D.T. Stop	1/295	E/12	C/FC	<u>CB</u>	_____	
B44B Loop A Acc. To R.C.D.T. Stop	1/295	E/12	C/FC	<u>CB</u>	_____	

REV.	
ORIGINAL	
DRAWN BY	N.J.A.
CHK'D BY	RHM
RES'D BY	PCY
ENG'R. MGR.	RCM
DATE	6/5/75

OPER. MODE

O = NORMALLY OPERATED OPEN
 C = NORMALLY OPERATED CLOSED
 X = NORMALLY OPERATED OPEN &
 CLOSED

FC = FAILED CLOSED
 FO = FAILED OPEN
 FAI = FAILED AS IS

CONTROL SWITCH AND/OR POS. LGT.
 LOCATION:

L = LOCAL
CB = CONTROL BOARD
SR = SAMPLE ROOM

BWP = BORON RECYCLE & WASTE
 DISPOSAL PANEL

"This DWG." Supersedes Westinghouse Dwg. 499B425 SH. 25B Rev. 5

ROCHESTER GAS & ELECTRIC CORP.
 ROCHESTER, NEW YORK

ENGINEERING DEPT

No. 10905-258

ROBERT EMMETT GINNA NUCLEAR POWER STA. UNIT I
 ELEMENTARY WIRING DIAGRAM
 SOLENOID & SOLENOID PILOT VALVE

DRAWN	N.J.A.	DATE	SCALE	NONE
TRACED			APPROVED	
CHECKED			FOLDER NO.	
ENG.			JOB NO.	

VALVE	FIG / SH	SW / SH	OPER MODE	CS / LGTS. LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
846 Master N ₂ Stop To Acc's	10/296	E/12	O/FC	<u>CB</u>		110E059 SH.5
						VALVE 874A DELETED
						VALVE 874B DELETED
897 S.I. Test & Recirc. To R.W.S.T.	30/301	E/12	O/FC	<u>CB</u>	—	20X1=110E074 SH.2
898 S.I. Test & Recirc. To R.W.S.T.	30/301	E/12	O/FC	<u>CB</u>	—	20X1=110E074 SH.3
1275A No. 3 H.U.T. Gas Anal. Solenoid	309	—	X/FC	—	SEE SH. 309	—
1275B No. 2 H.U.T. Gas Anal. Solenoid	309	—	X/FC	—	SEE SH. 309	—
1275C No. 1 H.U.T. Gas Anal. Solenoid	309	—	X/FC	—	SEE SH. 309	—
1275D V.C.T. Gas Anal Solenoid	309	—	X/FC	—	SEE SH. 309	—

REV.	
ORIGINAL	
DRAWN BY	N.L.A.
CK'D.	RHM
RESP. ENGR.	POK
ENGR. MGR.	RCM
DATE	6/5/75

OPER. MODE

O: NORMALLY OPERATED OPEN
 C: NORMALLY OPERATED CLOSED
 X: NORMALLY OPERATED OPEN & CLOSED
 FC: FAILED CLOSED
 FO: FAILED OPEN
 FAI: FAILED AS IS

CONTROL SWITCH AND/OR POS. LGT.

LOCATION:

L: LOCAL

CB: CONTROL BOARD

SR: SAMPLE ROOM

BWP: BORON RECYCLE & WASTE DISPOSAL PANEL

This Dwg. Supersedes Westinghouse Dwg. 499B425 SH. 259 (REV.7)

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

No. 10905-259

ROBERT EMMETT GINNA NUCLEAR POWER STA. UNIT I

ELEMENTARY WIRING DIAGRAM

SOLENOID & SOLENOID PILOT VALVE

DRAWN	ST. M.J.P.	DATE	8-74	SCALE	NONE
TRACED				APPROVED	
CHECKED				FOLDER NO.	
ENG.				JOB NO.	

VALVE	FIG./SH	SH/SH	OPER. MODE	CS/LGT. LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
951 PRZR. STEAM SPACE STOP	35/301	E/12	C/FC	SR		WHITE LIGHT ON CB 110E059 SH. 5 1/5 ON CB
953 PRZR. LIQUID SPACE STOP	35/301	E/12	C/FC	SR		WHITE LIGHT ON CB 110E059 SH. 5 1/5 ON CB
955 LOOP B HOT LEG SAMPLE	35/301	E/12	C/FC	SR		WHITE LIGHT ON CB 110E059 SH. 5 1/5 ON CB
959 R.H.R. LOOP SAMPLE	35/301	E/12	C/FC	SR		WHITE LIGHT ON CB 110E059 SH. 5 1/5 ON CB
966A PRZR. STEAM SPACE C.V. ISOL. STOP	35/301	E/12	C/FC	SR		WHITE LIGHT ON CB 110E059 SH. 5 1/5 ON CB
966B PRZR. LIQUID SPACE C.V. ISOL. STOP	35/301	E/12	C/FC	SR		WHITE LIGHT ON CB 110E059 SH. 5 1/5 ON CB
966C LOOP B HOT LEG C.V. ISOL. STOP	35/301	E/12	C/FC	SR		WHITE LIGHT ON CB 110E059 SH. 5 1/5 ON CB

SEE SH. 263 FOR 1090 - 1091 - 1092 - 1093

1597 R-10A R-11 R-12 AUTO AIR INLET	10/296	E/12	O/FC	CB		110E059 SH. 5
1598 R-11 R-12 AUTO AIR OUTLET	10/296	E/12	O/FC	CB		110E059 SH. 5

OPER. MODE

O = NORMALLY OPERATED OPEN
C = NORMALLY OPERATED CLOSED
X = NORMALLY OPERATED OPEN & CLOSED
FC = FAILED CLOSED
FO = FAILED OPEN
FAI = FAILED AS IS

CONTROL SW. AND/OR POS. LGT. LOCATION

L = LOCAL
CB = CONTROL BOARD
SR = SAMPLE ROOM

BWP = BORON RECYCLE & WASTE DISPOSAL PANEL

THIS DWG. SUPERCEDES WESTINGHOUSE DWG. NO. 499B425 SH. 260

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

No. 10905 - 260

ROBERT EMMETT GINNA NUCLEAR POWER STA.
UNIT NO. 1

ELEMENTARY WIRING DIAGRAM

SOLENOID AND SOLENOID PILOT VALVE

DRAWN	NJ.A	DATE	SCALE ~
TRACED			APPROVED
CHECKED			FOLDER NO.
ENG.			JOB NO.

REV.	
ORIGINAL	
BY	
DATE	
CHKD.	
DATE	
ENG.	
DATE	
DRG.	
DATE	

VALVE	FK SH	SW SH	OPER MODE	CS/LGT LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
1600A RCDT TO GA	309		X/FC		1600AP 9 C 13 22X 1600AS	SH 309 110E059 SH. 5
1600B VCT TO GA	309		X/FC		SEE SH. 309	
1600C SRT TO GA	309		X/FC		SEE SH. 309	
1600D SRT TO GA	309		X/FC		SEE SH. 309	
1600E PRT TO GA	309		X/FC		SEE SH. 309	
1600F GDT TO GA AUTO	309		X/FC		SEE SH. 309	
1600G HUT #1 TO GA	309		X/FC		SEE SH. 309	
1600H HUT #2 TO GA	309		X/FC		SEE SH. 309	
1600J HUT #3 TO GA	309		X/FC		SEE SH. 309	
1600K GDT TO GA MANUAL	309		X/FC		SEE SH. 309	
OPER. MODE CONTROL SWITCH AND/OR POS. LGT. O: NORMALLY OPERATED OPEN LOCATION: C: NORMALLY OPERATED CLOSED L: LOCAL GA: GAS ANALYZER X: NORMALLY OPERATED OPEN CB: CONTROL BOARD CLOSED SR: SAMPLE ROOM FC: FAILED CLOSED BWP: BORON RECYCLE & WASTE FO: FAILED OPEN DISPOSAL PANEL FA: FAILED AS IS						

REV.	
ORIGINAL	
DRAWN BY	D/FH 6-4-76
CHKD	R/W 6/7/76
RESP. ENGR.	M/D 6/8/76
DATE	6/8/76

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGR. DEPT
NO 10905-261

ROBERT EMMETT GINNA, NUCLEAR
POWER STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
BORON RECYCLE & WASTE DISPOSAL PANEL

DRAWN	BY	DATE	SCALE
TRACED			APPROVED
CHECKED			FOLDER NO.
ENG.			JOB NO.

THIS DRAWING SUPERCEDES WESTINGHOUSE DWG. NO. 499B425 SH. 262

VALVE	FIG. /SH.	SW. /SH.	OPER MODE	CS/LGTS. LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
1600L GAS STIPPER TO GA	309	—	X/FC	—	SEE SH. 309	—
1629 #1 GDT REUSE DISCHG.	1/295	E/12	C/FC	BWP	—	—
1630 #2 GDT REUSE DISCHG.	1/295	E/12	C/FC	BWP	—	—
1631 #3 GDT REUSE DISCHG.	1/295	E/12	C/FC	BWP	—	—
1632 #4 GDT REUSE DISCHG.	1/295	E/12	C/FC	BWP	—	—
1641 A S.R.T. TO V.H.	1/295	E/12	C/FC	DP	—	—
1642 B S.R.T. TO V.H.	1/295	E/12	C/FC	DP	—	—
1684 A S.R.T. TO DRUM STA.	1/295	E/12	C/FC	DP	—	—
1687 B S.R.T. TO DRUM STA.	1/295	E/12	C/FC	DP	—	—
1692 H ₂ TO TOP A S.R.T.	1/295	E/12	C/FC	DP	—	—
1693 H ₂ TO TOP B S.R.T.	1/295	E/12	C/FC	DP	—	—
1700 H ₂ TO A S.R.T. (LOWER)	1/295	E/12	C/FC	DP	—	—
1702 H ₂ TO B S.R.T. (LOWER)	1/295	E/12	C/FC	DP	—	—
1643 H ₂ TO W.G.C.	1/295	E/12	C/FC	BWP	—	—

OPER. MODE CONTROL SW. AND/OR POS. LGT. LOCATION:
 O = NORMALLY OPERATED OPEN L = LOCAL
 C = NORMALLY OPERATED CLOSED CB = CONTROL BOARD
 X = NORMALLY OPERATED OPEN SR = SAMPLE ROOM
 F = CLOSED DP = DRUMING PANEL
 EC = FAILED CLOSED GA = GAS ANALIZER
 FO = FAILED OPEN BWP = BORON RECYCLE & WASTE DISPOSAL, PANEL
 FAI = FAILED AS IS

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK		ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1 ELEMENTARY WIRING DIAGRAM SOLENOID AND SOLENOID PILOT VALVE		REV.		N.J.A. 6/2/76		W.R.B. 6/1/76		J.E.S. 6/1/76	
ENGINEERING DEPT				ORIGINAL		DRAWN BY		CK'D.		DATE	
No. 10905-262						N.J.A.		SCALE ~			
						TRACED		APPROVED			
						CHECKED		FOLDER NO.			
						ENG.		JOB NO.			

VALVE	FIG./SH.	SW./SH.	OPER. MODE	CS/LGTS. LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
1090	1/295	E/12	C/FC	CB		CONTAINMENT FAN COOLER 1A CONDENSATE DRAIN VALVE
1091	1/295	E/12	C/FC	CB		CONTAINMENT FAN COOLER 1B CONDENSATE DRAIN VALVE
1092	1/295	E/12	C/FC	CB		CONTAINMENT FAN COOLER 1C CONDENSATE DRAIN VALVE
1093	1/295	E/12	C/FC	CB		CONTAINMENT FAN COOLER 1D CONDENSATE DRAIN VALVE
1694	309	—	C/FC	—	SEE SH. 309	1-A S.R.T. S.D. TO GA
1695	309	—	C/FC	—	SEE SH. 309	1-B S.R.T. S.D. TO GA
1721	3/301	E/12	O/FC	BWP 1/DT & B/314 W LGT. CB	1721-C 2/12X 1721-SI 2/12X 1721-S	110E059 SHEET 5 ROOT VALVE, SUCTION LINE TO R.C.D.T.
1723	11A/296	E/12	O/FC	BWP	1723-S 9/12C 13/13X 1723-SI	110E059 SHEET 5 CONTAINMENT SUMP PUMP DISCHARGE TO WHT STOP VALVE
1728	11A/296	E/12	O/FC	BWP	1728-S 14/12C 10/23X 1728-SI	110E059 SHEET 5 CONTAINMENT SUMP PUMP DISCHARGE TO WHT ROOT VALVE

OPER. MODE

O = NORMALLY OPERATED OPEN
C = NORMALLY OPERATED CLOSED
X = NORMALLY OPERATED OPEN
& CLOSED
FC = FAILED CLOSED
FO = FAILED OPEN
FAI = FAILED AS IS

CONTROL SW. AND/OR POS. LGT. LOCATION

L = LOCAL
CB = CONTROL BOARD
SR = SAMPLE ROOM
GA = GAS ANALYZER
BWP = BORON RECYCLE & WASTE
DISPOSAL PANEL

THIS DRAWING SUPERCEDES WESTINGHOUSE DRAWING 4998425 SH. 263

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING DEPT
No. 10905 - 263

ROBERT EMMETT GINNA NUCLEAR POWER STA.
UNIT No. 1
ELEMENTARY WIRING DIAGRAM
SOLENOID AND SOLENOID PILOT VALVE

REV.					
ORIGINAL	NJA.	BY 6/8/76	WRD 6/9/76	GE 2 6/9/76	
	DRAWN BY	CK'D.	RESP. ENGR.	ENGR. MGR.	DATE
	DRAWN	NJA.	DATE 6/7/76	SCALE	~
	TRACED			APPROVED	
	CHECKED			FOLDER NO.	
	ENG.			JOB NO.	

VALVE	FIG. / SH	SW. / SH	OPER. MODE	OR LGT. LOCATION	INTERLOCKS	REFERENCE AND DRAWING REMARKS
1786	35/301	E/12 1/VH A/314	Q/FC	BWP	1786C 1/VH 1786-51 3/C 12X 1786-S	WHITE LIGHT ON CB 110E059 SH.5 R.C.D.T TO VH PRIMARY ISOL. VALVE
1787	35/301	E/12 1/VH A/314	Q/FC	BWP	1787-C 1/VH 1787-51 10/C 22X 1787-S	WHITE LIGHT ON CB 110E059 SH.5 R.C.D.T. TO VH SECONDARY ISOL. VALVE
1789	309	A/314	C/FC	CB	1789-51 12X 1789-S	110E059 SH.5 MINE SAFETY APPLIANCES OWG. ASK 1673-615 RCOT. TO GA OUTLET ISOL.
1798A	30/300	H/12 NP CLOSE OPEN	C/FC	DP	1798A S1 LEVEL SW. AT DRUM OPENS ONLY AT HI LIMIT 1798AS	S.R.T. SO. RESIN DISPENSING VALVE
1798B	30/300	H/12 NP CLOSE OPEN	C/FC	DP	1798B S1 LEVEL SW. AT DRUM OPENS ONLY AT HI LIMIT 1798BS	S.R.T. SO. RESIN DISPENSING VALVE
1798C	30/300	H/12 NP CLOSE OPEN	C/FC	DP	1798C S1 LEVEL SW. AT DRUM OPENS ONLY AT HI LIMIT 1798CS	S.R.T. SO. RESIN DISPENSING VALVE
1798D	30/300	H/12 NP CLOSE OPEN	C/FC	DP	1798D S1 LEVEL SW. AT DRUM OPENS ONLY AT HI LIMIT 1798DS	S.R.T. SO. RESIN DISPENSING VALVE
1798E	30/300	H/12 NP CLOSE OPEN	C/FC	DP	1798E S1 LEVEL SW. AT DRUM OPENS ONLY AT HI LIMIT 1798ES	S.R.T. SO. RESIN DISPENSING VALVE
1799A	30/300	H/12 NP CLOSE OPEN	C/FC	DP	1799A S1 LEVEL SW. AT DRUM OPENS ONLY AT HI LIMIT 1799AS	WE. S.O. CONCENTRATED DISPENSING VALVE
1799B	30/300	H/12 NP CLOSE OPEN	C/FC	DP	1799B S1 LEVEL SW. AT DRUM OPENS ONLY AT HI LIMIT 1799BS	WE. S.O. CONCENTRATED DISPENSING VALVE

REV.	
ORIGINAL	
DOWN BY	DH.
CWO	By
DATE	4-7-74

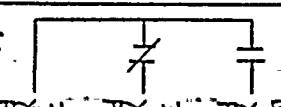
OPER. MODE
P-NORMALLY OPER. OPEN
C-NORMALLY OPER. CLOSED
X-NORMALLY OPER. OPEN
CLOSED
FC-FAILED CLOSED
FO-FAILED OPEN
FDI-FAILED AS IS

CONTROL SWITCH AND/OR POS. LGT. LOCATION;
L-LOCAL
CB-CONTROL BOARD
SR-SAMPLE ROOM
GA-GAS ANALYZER PANEL
BWP-BORON RECYCLE & WASTE DISPOSAL PNL.
DP-DRUMMING PANEL

THIS DRAWING SUPERSEDES WESTINGHOUSE 499B425 SH.264

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT CMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1 ELEM. WIRING DIAGRAM SOLENOID & SOLENOID PILOT VALVE	DRAWN BY TRACED CHECKED ENG.	DATE 10/25/74	SCALE	APPROVED	FOLDER NO.	JOB NO.
No. 10905-264							

THIS Dwg SUPERSEDES W. DWS 4478425 SH. 245

VALVE	FIG/SH.	SW DEV.	OPER MODE	CS/LGTS. LOCATION	INTERLOCKS	REFERENCE DWG. AND REMARKS
1799C	30/300	H/12	C/FC	DP	1799CS1 LEVEL SW AT DRUM OPENS ONLY AT HI LIMIT 1799CS	W.E. S.O. CONCENTRATES DISPENSING VALVE
1799D	30/300	H/12	C/FC	DP	1799DS1 LEVEL SW AT DRUM OPENS ONLY AT HI LIMIT 1799DS	W.E. S.O. CONCENTRATES DISPENSING VALVE.
1799E	30/300	H/12	C/FC	DP	1799ES1 LEVEL SW AT DRUM OPENS ONLY AT HI LIMIT 1799ES	W.E. S.O. CONCENTRATES DISPENSING VALVE
TURB DRAIN DVB 3336	311	SH. 10 COMMON SWITCH	C/FC	CB	SEE SH. 311	D-302-141 461B420-SH.9
TURB. DRAIN DV7 3338	311		C/FC	CB	SEE SH. 311	D-302-141 461B420 SH.9
TURB. DRAIN TB121 3834	311		C/FC	CB	SEE SH. 311	D-302-141 461B420 SH.9 COMP TB0310
TURB. DRAIN HPOT 3841	311		C/FC	CB	SEE SH. 311	D-302-141 461B420 SH.9 COMP TB0311
TURB. DRAIN 32 3845	311		C/FC	CB	SEE SH. 311	D-302-141 461B420 SH.9 COMP TB0309
TURB. DRAIN B1 3850	311		C/FC	CB	SEE SH. 311	D-302-141 461B420 SH.9 COMP TB0307
TURB. DRAIN A2 3855	311		C/FC	CB	SEE SH. 311	D-302-141 461B420 SH.9 COMP TB0308
TURB. DRAIN A1 3860	311		C/FC	CB	SEE SH. 311	D-302-141 461B820 SH.9 COMP TB0306
AUX FP LATCHED TURB. GOV. VALVE V6R, V6N	26/297			-/CB	 TD4-N TD4-W TD4-R	SPDT SW ON VALVE RED LIGHT LATCHED WHITE LIGHT UNLATCHED

OPER. MODE CONTROL SWITCH AND/OR POS. LGT.
O - NORMALLY OPERATED OPEN LOCATION:
C - NORMALLY OPERATED CLOSED L - LOCAL
X - NORMALLY OPERATED OPEN & CB - CONTROL BOARD
CLOSED SR - SAMPLE ROOM
FC - FAILED CLOSED GA - GAS ANALYZER
FO - FAILED OPEN BWP - BORON RECYCLED WASTE
FAI - FAILED AS IS DP - DRUMMING PANEL

REV.	
ORIGINAL	
DWN. BY	WJE
CHKD	RND
REPR. ENGR	WJE
DATE	4/27/76

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GINNA NUCLEAR POWER
STATION, UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
SOL & SOL PILOT VALVES

DRAWN	BY	DATE	SCALE
TRACED			APPROVED
CHECKED			FOLDER NO.
ENG.			JOB NO.

No. 10905-265

NOTE






REV	
ORIGINAL	
BY	RM
CHKD	RM
ENG'D	RM
DATE	4-27-74

VALVE B/M NO. (FIXED)	FIG/ SH	SW DEV	OPER MODE	CS/LGTS LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
3339 CV-1 3335 CV-5 (N12P) (V12N)	16/ 297		C/FO	—	AR7	MOISTURE SEPIA DRAIN VALVE SHEET 316 F672 D-302-111
3340 CV-2 3337 CV-6 (N13P) (V13N)	16/ 297		C/FO	—	AR7	MOISTURE SEP 1B DRAIN VALVE SHEET 316 F672 D-302-111
3341 CV-3 3342 CV-7 (N14P) (V14N)	16/ 297		C/FO	—	AR7	MOISTURE SEPIA DRAIN VALVE SHEET 316 F672 D-302-111
3347 CV-4 3346 CV-8 (N15P) (V15N)	16/ 297		C/FO	—	AR7	MOISTURE SEP 2B DRAIN VALVE SHEET 316 F672 D-302-111
4316 CV-10 4311 CV-13 (N19P) (V19N)	18/ 297		O/FO	—/SWTP	20X1-AR-38 CA 2003 RECORDER CONTACT CB	CONDENSATE MAKE UP FEED MODULATING VALVES F673 OPEN ON INCREASING CONDUCTIVITY D-302-101 S-205-673
3977 CV-18 RN47A (N10P) (V10N)	15/ 297		O/FO	—/CB	20X1-AR1 20X2-AR2 20X3-AR3 V10B B0F5L B0F5N 2002 2001 20X1 PS V10P2 CV-185	FEED PUMP 1A RECIRC VALVE 1-1 1-2 1-3 1-4 1-5 1-6 1-7 1-8 1-9 1-10 1-11 1-12 1-13 1-14 1-15 1-16 1-17 1-18 1-19 1-20 1-21 1-22 1-23 1-24 1-25 1-26 1-27 1-28 1-29 1-30 1-31 1-32 1-33 1-34 1-35 1-36 1-37 1-38 1-39 1-40 1-41 1-42 1-43 1-44 1-45 1-46 1-47 1-48 1-49 1-50 1-51 1-52 1-53 1-54 1-55 1-56 1-57 1-58 1-59 1-60 1-61 1-62 1-63 1-64 1-65 1-66 1-67 1-68 1-69 1-70 1-71 1-72 1-73 1-74 1-75 1-76 1-77 1-78 1-79 1-80 1-81 1-82 1-83 1-84 1-85 1-86 1-87 1-88 1-89 1-90 1-91 1-92 1-93 1-94 1-95 1-96 1-97 1-98 1-99 1-100 1-101 1-102 1-103 1-104 1-105 1-106 1-107 1-108 1-109 1-110 1-111 1-112 1-113 1-114 1-115 1-116 1-117 1-118 1-119 1-120 1-121 1-122 1-123 1-124 1-125 1-126 1-127 1-128 1-129 1-130 1-131 1-132 1-133 1-134 1-135 1-136 1-137 1-138 1-139 1-140 1-141 1-142 1-143 1-144 1-145 1-146 1-147 1-148 1-149 1-150 1-151 1-152 1-153 1-154 1-155 1-156 1-157 1-158 1-159 1-160 1-161 1-162 1-163 1-164 1-165 1-166 1-167 1-168 1-169 1-170 1-171 1-172 1-173 1-174 1-175 1-176 1-177 1-178 1-179 1-180 1-181 1-182 1-183 1-184 1-185 1-186 1-187 1-188 1-189 1-190 1-191 1-192 1-193 1-194 1-195 1-196 1-197 1-198 1-199 1-200 1-201 1-202 1-203 1-204 1-205 1-206 1-207 1-208 1-209 1-210 1-211 1-212 1-213 1-214 1-215 1-216 1-217 1-218 1-219 1-220 1-221 1-222 1-223 1-224 1-225 1-226 1-227 1-228 1-229 1-230 1-231 1-232 1-233 1-234 1-235 1-236 1-237 1-238 1-239 1-240 1-241 1-242 1-243 1-244 1-245 1-246 1-247 1-248 1-249 1-250 1-251 1-252 1-253 1-254 1-255 1-256 1-257 1-258 1-259 1-260 1-261 1-262 1-263 1-264 1-265 1-266 1-267 1-268 1-269 1-270 1-271 1-272 1-273 1-274 1-275 1-276 1-277 1-278 1-279 1-280 1-281 1-282 1-283 1-284 1-285 1-286 1-287 1-288 1-289 1-290 1-291 1-292 1-293 1-294 1-295 1-296 1-297 1-298 1-299 1-300 1-301 1-302 1-303 1-304 1-305 1-306 1-307 1-308 1-309 1-310 1-311 1-312 1-313 1-314 1-315 1-316 1-317 1-318 1-319 1-320 1-321 1-322 1-323 1-324 1-325 1-326 1-327 1-328 1-329 1-330 1-331 1-332 1-333 1-334 1-335 1-336 1-337 1-338 1-339 1-340 1-341 1-342 1-343 1-344 1-345 1-346 1-347 1-348 1-349 1-350 1-351 1-352 1-353 1-354 1-355 1-356 1-357 1-358 1-359 1-360 1-361 1-362 1-363 1-364 1-365 1-366 1-367 1-368 1-369 1-370 1-371 1-372 1-373 1-374 1-375 1-376 1-377 1-378 1-379 1-380 1-381 1-382 1-383 1-384 1-385 1-386 1-387 1-388 1-389 1-390 1-391 1-392 1-393 1-394 1-395 1-396 1-397 1-398 1-399 1-400 1-401 1-402 1-403 1-404 1-405 1-406 1-407 1-408 1-409 1-410 1-411 1-412 1-413 1-414 1-415 1-416 1-417 1-418 1-419 1-420 1-421 1-422 1-423 1-424 1-425 1-426 1-427 1-428 1-429 1-430 1-431 1-432 1-433 1-434 1-435 1-436 1-437 1-438 1-439 1-440 1-441 1-442 1-443 1-444 1-445 1-446 1-447 1-448 1-449 1-450 1-451 1-452 1-453 1-454 1-455 1-456 1-457 1-458 1-459 1-460 1-461 1-462 1-463 1-464 1-465 1-466 1-467 1-468 1-469 1-470 1-471 1-472 1-473 1-474 1-475 1-476 1-477 1-478 1-479 1-480 1-481 1-482 1-483 1-484 1-485 1-486 1-487 1-488 1-489 1-490 1-491 1-492 1-493 1-494 1-495 1-496 1-497 1-498 1-499 1-500 1-501 1-502 1-503 1-504 1-505 1-506 1-507 1-508 1-509 1-510 1-511 1-512 1-513 1-514 1-515 1-516 1-517 1-518 1-519 1-520 1-521 1-522 1-523 1-524 1-525 1-526 1-527 1-528 1-529 1-530 1-531 1-532 1-533 1-534 1-535 1-536 1-537 1-538 1-539 1-540 1-541 1-542 1-543 1-544 1-545 1-546 1-547 1-548 1-549 1-550 1-551 1-552 1-553 1-554 1-555 1-556 1-557 1-558 1-559 1-560 1-561 1-562 1-563 1-564 1-565 1-566 1-567 1-568 1-569 1-570 1-571 1-572 1-573 1-574 1-575 1-576 1-577 1-578 1-579 1-580 1-581 1-582 1-583 1-584 1-585 1-586 1-587 1-588 1-589 1-590 1-591 1-592 1-593 1-594 1-595 1-596 1-597 1-598 1-599 1-600 1-601 1-602 1-603 1-604 1-605 1-606 1-607 1-608 1-609 1-610 1-611 1-612 1-613 1-614 1-615 1-616 1-617 1-618 1-619 1-620 1-621 1-622 1-623 1-624 1-625 1-626 1-627 1-628 1-629 1-630 1-631 1-632 1-633 1-634 1-635 1-636 1-637 1-638 1-639 1-640 1-641 1-642 1-643 1-644 1-645 1-646 1-647 1-648 1-649 1-650 1-651 1-652 1-653 1-654 1-655 1-656 1-657 1-658 1-659 1-660 1-661 1-662 1-663 1-664 1-665 1-666 1-667 1-668 1-669 1-670 1-671 1-672 1-673 1-674 1-675 1-676 1-677 1-678 1-679 1-680 1-681 1-682 1-683 1-684 1-685 1-686 1-687 1-688 1-689 1-690 1-691 1-692 1-693 1-694 1-695 1-696 1-697 1-698 1-699 1-700 1-701 1-702 1-703 1-704 1-705 1-706 1-707 1-708 1-709 1-710 1-711 1-712 1-713 1-714 1-715 1-716 1-717 1-718 1-719 1-720 1-721 1-722 1-723 1-724 1-725 1-726 1-727 1-728 1-729 1-730 1-731 1-732 1-733 1-734 1-735 1-736 1-737 1-738 1-739 1-740 1-741 1-742 1-743 1-744 1-745 1-746 1-747 1-748 1-749 1-750 1-751 1-752 1-753 1-754 1-755 1-756 1-757 1-758 1-759 1-760 1-761 1-762 1-763 1-764 1-765 1-766 1-767 1-768 1-769 1-770 1-771 1-772 1-773 1-774 1-775 1-776 1-777 1-778 1-779 1-780 1-781 1-782 1-783 1-784 1-785 1-786 1-787 1-788 1-789 1-790 1-791 1-792 1-793 1-794 1-795 1-796 1-797 1-798 1-799 1-800 1-801 1-802 1-803 1-804 1-805 1-806 1-807 1-808 1-809 1-810 1-811 1-812 1-813 1-814 1-815 1-816 1-817 1-818 1-819 1-820 1-821 1-822 1-823 1-824 1-825 1-826 1-827 1-828 1-829 1-830 1-831 1-832 1-833 1-834 1-835 1-836 1-837 1-838 1-839 1-840 1-841 1-842 1-843 1-844 1-845 1-846 1-847 1-848 1-849 1-850 1-851 1-852 1-853 1-854 1-855 1-856 1-857 1-858 1-859 1-860 1-861 1-862 1-863 1-864 1-865 1-866 1-867 1-868 1-869 1-870 1-871 1-872 1-873 1-874 1-875 1-876 1-877 1-878 1-879 1-880 1-881 1-882 1-883 1-884 1-885 1-886 1-887 1-888 1-889 1-890 1-891 1-892 1-893 1-894 1-895 1-896 1-897 1-898 1-899 1-900 1-901 1-902 1-903 1-904 1-905 1-906 1-907 1-908 1-909 1-910 1-911 1-912 1-913 1-914 1-915 1-916 1-917 1-918 1-919 1-920 1-921 1-922 1-923 1-924 1-925 1-926 1-927 1-928 1-929 1-930 1-931 1-932 1-933 1-934 1-935 1-936 1-937 1-938 1-939 1-940 1-941 1-942 1-943 1-944 1-945 1-946 1-947 1-948 1-949 1-950 1-951 1-952 1-953 1-954 1-955 1-956 1-957 1-958 1-959 1-960 1-961 1-962 1-963 1-964 1-965 1-966 1-967 1-968 1-969 1-970 1-971 1-972 1-973 1-974 1-975 1-976 1-977 1-978 1-979 1-980 1-981 1-982 1-983 1-984 1-985 1-986 1-987 1-988 1-989 1-990 1-991 1-992 1-993 1-994 1-995 1-996 1-997 1-998 1-999 1-1000 1-1001 1-1002 1-1003 1-1004 1-1005 1-1006 1-1007 1-1008 1-1009 1-1010 1-1011 1-1012 1-1013 1-1014 1-1015 1-1016 1-1017 1-1018 1-1019 1-1020 1-1021 1-1022 1-1023 1-1024 1-1025 1-1026 1-1027 1-1028 1-1029 1-1030 1-1031 1-1032 1-1033 1-1034 1-1035 1-1036 1-1037 1-1038 1-1039 1-1040 1-1041 1-1042 1-1043 1-1044 1-1045 1-1046 1-1047 1-1048 1-1049 1-1050 1-1051 1-1052 1-1053 1-1054 1-1055 1-1056 1-1057 1-1058 1-1059 1-1060 1-1061 1-1062 1-1063 1-1064 1-1065 1-1066 1-1067 1-1068 1-1069 1-1070 1-1071 1-1072 1-1073 1-1074 1-1075 1-1076 1-1077 1-1078 1-1079 1-1080 1-1081 1-1082 1-1083 1-1084 1-1085 1-1086 1-1087 1-1088 1-1089 1-1090 1-1091 1-1092 1-1093 1-1094 1-1095 1-1096 1-1097 1-1098 1-1099 1-1100 1-1101 1-1102 1-1103 1-1104 1-1105 1-1106 1-1107 1-1108 1-1109 1-1110 1-1111 1-1112 1-1113 1-1114 1-1115 1-1116 1-1117 1-1118 1-1119 1-1120 1-1121 1-1122 1-1123 1-1124 1-1125 1-1126 1-1127 1-1128 1-1129 1-1130 1-1131 1-1132 1-1133 1-1134 1-1135 1-1136 1-1137 1-1138 1-1139 1-1140 1-1141 1-1142 1-1143 1-1144 1-1145 1-1146 1-1147 1-1148 1-1149 1-1150 1-1151 1-1152 1-1153 1-1154 1-1155 1-1156 1-1157 1-1158 1-1159 1-1160 1-1161 1-1162 1-1163 1-1164 1-1165 1-1166 1-1167 1-1168 1-1169 1-1170 1-1171 1-1172 1-1173 1-1174 1-1175 1-1176 1-1177 1-1178 1-1179 1-1180 1-1181 1-1182 1-1183 1-1184 1-1185 1-1186 1-1187 1-1188 1-1189 1-1190 1-1191 1-1192 1-1193 1-1194 1-1195 1-1196 1-1197 1-1198 1-1199 1-1200 1-1201 1-1202 1-1203 1-1204 1-1205 1-1206 1-1207 1-1208 1-1209 1-1210 1-1211 1-1212 1-1213 1-1214 1-1215 1-1216 1-1217 1-1218 1-1219 1-1220 1-1221 1-1222 1-1223 1-1224 1-1225 1-1226 1-1227 1-1228 1-1229 1-1230 1-1231 1-1232 1-1233 1-1234 1-1235 1-1236 1-1237 1-1238 1-1239 1-1240 1-1241 1-1242 1-1243 1-1244 1-1245 1-1246 1-1247 1-1248 1-1249 1-1250 1-1251 1-1252 1-1253 1-1254 1-1255 1-1256 1-1257 1-1258 1-1259 1-1260 1-1261 1-1262 1-1263 1-1264 1-1265 1-1266 1-1267 1-1268 1-1269 1-1270 1-1271 1-1272 1-1273 1-1274 1-1275 1-1276 1-1277 1-1278 1-1279 1-1280 1-1281 1-1282 1-1283 1-1284 1-1285 1-1286 1-1287 1-1288 1-1289 1-1290 1-1291 1-1292 1-1293 1-1294 1-1295 1-1296 1-1297 1-1298 1-1299 1-1300 1-1301 1-1302 1-1303 1-1304 1-1305 1-1306 1-1307 1-1308 1-1309 1-1310 1-1311 1-1312 1-1313 1-1314 1-1315 1-1316 1-1317 1-1318 1-1319 1-1320 1-1321 1-1322 1-1323 1-1324 1-1325 1-1326 1-1327 1-1328 1-1329 1-1330 1-1331 1-1332 1-1333 1-1334 1-1335 1-1336 1-1337 1-1338 1-1339 1-1340 1-1341 1-1342 1-1343 1-1344 1-1345 1-1346 1-1347 1-1348 1-1349 1-1350 1-1351 1-1352 1-1353 1-1354 1-1355 1-1356 1-1357 1-1358 1-1359 1-1360 1-1361 1-1362 1-1363 1-1364 1-1365 1-1366 1-1367 1-1368 1-1369 1-1370 1-1371 1-1372 1-1373 1-1374 1-1375 1-1376 1-1377 1-1378 1-1379 1-1380 1-1381 1-1382 1-1383 1-1384 1-1385 1-1386 1-1387 1-1388 1-1389 1-1390 1-1391 1-1392 1-1393 1-1394 1-1395 1-1396 1-1397 1-1398 1-1399 1-1400 1-1401 1-1402 1-1403 1-1404 1-1405 1-1406 1-1407 1-1408 1-1409 1-1410 1-1411 1-1412 1-1413 1-1414 1-1415 1-1416 1-1417 1-1418 1-1419 1-1420 1-1421 1-1422 1-1423 1-1424 1-1425 1-1426 1-1427 1-1428 1-1429 1-1430 1-1431 1-1432 1-1433 1-1434 1-1435 1-1436 1-1437 1-1438 1-1439 1-1440 1-1441 1-1442 1-1443 1-1444 1-1445 1-1446 1-1447 1-1448 1-1449 1-1450 1-1451 1-1452 1-1453 1-1454 1-1455 1-1456 1-1457 1-1458 1-1459 1-1460 1-1461 1-1462 1-1463 1-1464 1-1465 1-1466 1-1467 1-1468 1-1469 1-1470 1-1471 1-1472 1-1473 1-1474 1-1475 1-1476 1-1477 1-1478 1-1479 1-1480 1-1481 1-1482 1-1483 1-1484 1-1485 1-1486 1-1487 1-1488 1-1489 1-1490 1-1491 1-1492 1-1493 1-1494 1-1495 1-1496 1-1497 1-1498 1-1499 1-1500 1-1501 1-1502 1-1503 1-1504 1-1505 1-1506 1-1507 1-1508 1-1509 1-1510 1-1511 1-1512 1-1513 1-1514 1-1515 1-1516 1-1517 1-1518 1-1519 1-1520 1-1521 1-1522 1-1523 1-1524 1-1525 1-1526 1-1527 1-1528 1-1529 1-1530 1-1531 1-1532 1-1533 1-1534 1-1535 1-1536 1-1537 1-1538 1-1539 1-1540 1-1541 1-1542 1-1543 1-1544 1-1545 1-1546 1-1547 1-1548 1-1549 1-1550 1-1551 1-1552 1-1553 1-1554 1-1555 1-1556 1-1557 1-1558 1-1559 1-1560 1-1561 1-1562 1-1563 1-1564 1-1565 1-1566 1-1567 1-1568 1-1569 1-1570 1-1571 1-1572 1-1573 1-1574 1-1575 1-1576 1-1577 1-1578 1-1579 1-1580 1-1581 1-1582 1-1583 1-1584 1-1585 1-1586 1-1587 1-1588 1-1589 1-1590 1-1591 1-1592 1-1593 1-1594 1-1595 1-1596 1-1597 1-1598 1-1599 1-1600 1-1601 1-1602 1-1603 1-1604 1-1605 1-1606 1-1607 1-1608 1-1609 1-1610 1-1611 1-1612 1-1613 1-1614 1-1615 1-1616 1-1617 1-1618 1-1619 1-1620 1-1621 1-1622 1-1623 1-1624 1-1625 1-1626 1-1627 1-1628 1-1629 1-1630 1-1631 1-1632 1-1633 1-1634 1-1635 1-1636 1-1637 1-1638 1-1639 1-1640 1-1641 1-1642 1-1643 1-1644 1-1645 1-1646 1-1647 1-1648 1-1649 1-1650 1-1651 1-1652 1-1653 1-1654 1-1655 1-1656 1-1657 1-1658 1-1659 1-1660 1-1661 1-1662 1-1663 1-1664 1-1665 1-1666 1-1667 1-1668 1-1669 1-1670 1-1671 1-1672 1-1673 1-1674 1-1675 1-1676 1-1677 1-1678 1-1679 1-1680 1-1681 1-1682 1-1683 1-1684 1-1685 1-1686 1-1687 1-1688 1-1689 1-1690 1-1691 1-1692 1-1693 1-1694 1-1695 1-1696 1-1697 1-1698 1-1699 1-1700 1-1701 1-1702 1-1703 1-1704 1-1705 1-1706 1-1707 1-1708 1-1709 1-1710 1-1711 1-1712 1-1713 1-1714 1-1715 1-1716 1-1717 1-1718 1-1719 1-1720 1-1721 1-1722 1-1723 1-1724 1-1725 1-1726 1-1727 1-1728 1-1729 1-1730 1-1731 1-1732 1-1733 1-1734 1-1735 1-1736 1-1737 1-1738 1-1739 1-1740 1-1741 1-1742 1-1743 1-1744 1-1745 1-1746 1-1747 1-1748 1-1749 1-1750 1-1751 1-1752 1-1753 1-1754 1-1755 1-1756 1-1757 1-1758 1-1759 1-1760 1-1761 1-1762 1-1763 1-1764 1-17

OPER. MODE.
O-NORMALLY OPERATED OPEN
C-NORMALLY OPERATED CLOSED
X-NORMALLY OPERATED OPEN &
CLOSED
FC-FAILED CLOSED
FO-FAILED OPEN
FAT-FAILED AS IS

CONTROL SWITCH AND/OR POS LGT LOCATION
L-LOCAL
CB-CONTROL BOARD
Δ-LIMIT SWITCH CONTACTS ARE ON VALVE,
NOT SOLENOID OPERATOR
SR-SAMPLE ROOM

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425 SH 247

					ELEMENTARY WIRING DIAGRAM SOLENOID VALVE TABLE			
					FACILITY <u>GINNA STA</u>			
					ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK			
	ORIGINAL	INITIAL	GJF	Rm	gwd	gwd	SCALE	
		DATE	12/7/77	3/16/78	7/15/78	7/18/78	JOB NO.	DRAWING NO.
NUMBER	REVISION	DRAWN BY	CHECKED	RESP. ENG.	ENG. MANGER		10905-267	REV.
								

						ELEMENTRY WIRING DIAGRAM SOLENOID VALVE TABLE		
						FACILITY GINNA STA		ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK
	ORIGINAL	INITIAL	GJE	Rm	JWD	JWD	SCALE	
		DATE	7/18/77	1/10/78	7/18/78	7/18/78	JOB NO.	DRAWING NO.
NUMBER	REVISION	DRAWN BY	CHECKED	REP. ENG.	ENG. MAND'R.			REV.
						10905-268		

Original	Rev.	VALVE SYM NO. (FUSE NO.)	FIG. /SH	SW. OPER. DEV. MODE	CS./LGTS. LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
by ASM RND RGA JCL 4/1/76		3336 CV-24A 3336A CV-24B (V3P) (V3N)	19/297	N/12 N.R. CV.24 CV.25	C/FC CB/CB	20X1-AR41	REHEATER 1A & 1B DRAIN DUMP VALVE ↓ AR41 TO CPTR TB 0201 D-302-III
		3336B CV-25A 3336A CV-25B (V4P) (V4N)	19/297	CON. SW. WITH CV.24	C/FC CB/CB	20X1-AR42	REHEATER 2A & 2B DRAIN DUMP VALVE ↓ AR42 TO CPTR TB 0202 D-302-III
		4291 CV-27 (V46P) (V46N)	25/238	—	O/EO —/CB	20X1-AR72 FS 2009	H10B TO AUX FWP AR72 RECIRC. VALVE ↓ HAP LGT. LOAD ALARM D-302-101
		3347 CV-30 RN-36B	PNEU OPER	—	C/FC		HP HEATER 5A DRAIN VALVE ↓ 33bc SW. 1 CLOSE COMP HX0201 D-302-III
		3348 CV-31 RN-36B	PNEU OPER	—	C/FC		HP HEATER 5B DRAIN VALVE ↓ 33bc SW. 1 CLOSE COMP HX0202 D-302-III
		3343 CV-33 RN-37B (V43P) (V43N)	16/297	—	O/FC	LS 2012 (SHT 317)	HEATER DUMP VALVE ↓ 33a0 V22P COMP RA-3 CD.0112 D-302-III
		4238 CV-53 RN-33A (V46P) (V46N)	16/297	—	C/FO	PS 2057	CONDENSATE RECIRC. VALVE ↓ 33a0 ↓ 33bc OPEN CLOSE COMP COMP CD0114 CD0115 D-302-101
		3365 CV-59	3/317	—	C/FC —/CB		HEATER DRAIN TANK RECIRC. VALVE ↓ 33 ↓ 33 TO DO TO DO SH. 317 D-302-III
		4304 CV-62 RN-66A (V44P) (V44N)	21/297	—	C/FO —/CB	20X1-AR34 20X2-AR35	MOTOR DR. AUX FP 1A RECIRC. VALVE 1. ↓ AR34 ↓ AR35 ↓ AR34 2. OPEN CLOSE HAP COMP COMP LGT LOAD FW0204 FW0202 D-302-101 B-205-681
		4310 CV-63 RN-66A (V45P) (V45N)	21/297	—	C/FO —/CB	20X1-AR36 20X2-AR37	MOTOR DR. AUX FP 1B RECIRC. VALVE 1. ↓ AR36 ↓ AR37 ↓ AR36 2. OPEN CLOSE HAP COMP COMP LGT LOAD FW0205 FW0203 D-302-101 B-205-681

OPER. MODE:

O - NORMALLY OPERATED OPEN
 C - NORMALLY OPERATED CLOSED
 X - NORMALLY OPERATED OPEN & CLOSED
 FC - FAILED CLOSED
 FO - FAILED OPEN
 FAI - FAILED AS IS

CONTROL SWITCH AND/OR POS LGT LOCATION:

L - LOCAL
 CB - CONTROL BOARD
 SR - SAMPLE ROOM
 AP - AUXILIARY PANEL
 WP - WASTE DISPOSAL PANEL
 Δ - LIMIT SW. CONTACTS ARE ON VALVE, NOT
 SOL. OPERATOR

THIS DRAWING SUPERSEDES WESTINGHOUSE
 DRAWING 499B423 SHEET 269 REV 5

ROCHESTER GAS & ELECTRIC CORP.
 ROCHESTER, NEW YORK

ENGINEERING DEPT

No. 10905-269

ROBERT EMMETT GINNA NUCLEAR POWER
 STATION UNIT NO. 1

ELEMENTARY WIRING DIAGRAM
 SOLENOID VALVE TABLE

DRAWN	BY	DATE	SCALE
TRACED			APPROVED
CHECKED			FOLDER NO.
ENG.			JOB NO.

VALVE	FIG/SH	SW/SH	OPER. MODE	CS/LGT. LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
RCV-014	29/298	—	C/FC	BWP		TRACER LAB D997587 TAYLOR 60G24W2 SH.2 WASTE GAS RELEASE VALVE
RCV-017	3/295	E/12	O/FC	CB		TRACER LAB D997588 C.C. SURGE TANK VENT VALVE
RCV-018	3/295	E/12	C/FC	BWP		TRACER LAB D997588 RA-2 REAR LIQUID WASTE RELEASE VALVE
FCV-110A	4/295	B/12	C/FC	CB		SHEET-330 B.A. TO BLENDER OR CHG. PP. SUCTION
FCV-110B	4/295	A/12	C/FC	CB		SHEET-330 COMPUTER BLENDER DISCH TO V.C.T. OUTLET
FCV-110C	4/295	A/12	C/FC	CB		SHEET-330 COMPUTER BLENDER DISCH TO V.C.T. INLET
FCV-111	4/295	A/12	C/FC	CB		SHEET-330 R.M.W. TO BLENDER
LCV-112A	39/312	A/12	C/FC FAIL TO NORM	CB		MARK FACEPLATE "NORMAL" INSTEAD OF "CLOSE" AND "DIVERT" INSTEAD OF "OPEN" 110E074 SH.2 VCT INLET DIVERSION
LCV-112B	4/295	A/12	C/FC	CB		110E074 SH.2 RWST TO CHG. PUMP SUCTION.
LCV-112C	4/295	B/12	O/FO	CB		110E074 SH.2 V.C.T. OUTLET VALVE

OPER. MODE :
 O = NORMALLY OPERATED OPEN
 C = NORMALLY OPERATED CLOSED
 X = NORMALLY OPERATED OPEN AND CLOSED
 FC = FAILED CLOSED
 FO = FAILED OPEN
 FAI = FAILED AS IS

CONTROL SWITCH AND OR FOS
LGT. LOCATION :
 L = LOCAL
 CB = CONTROL BOARD
 SR = SAMPLE ROOM
 BWP = BORON RECYCLE & WASTE DISPOSAL PANEL

THIS DRAWING SUPERSEDES WESTINGHOUSE
 DRAWING 499B425 SHEET 270 REV. 6

Rev.	AS
Original	drawn by
chkd.	res'd.
eng'd	date

NOTES: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425 S11271

REV	DATE	BY	CHKD	RESD	ENGR	DATE
ORIGINAL						

VALVE FUSE NO	FIG /SH	SW DEV	OPER MODE	CS/LGTS LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
LCV-427	4/295	B/12	%FO	CB		110E074 SH.4 LET DOWN ISOL. STOP
TCV-145	4/295	B/12	%FO	CB		MARK FACEPLATE "NORMAL" INSTEAD OF "CLOSE" AND "DIVER" INSTEAD OF "OPEN" 110E074 SH.2 LET DOWN DIVERSTION
PCV-430	4/295	A/12	%FC	CB		110E074 SH.4 PRER SPRAY VALVE
PCV-431C	4/295	A/12	%FC	CB		110E074 SH.4 PRER SPRAY VALVE
LCV 1030B	40/312	-	%FC		SEE FIG 40 SH.312	WASTE GAS COMPRESSOR DRAIN VALVE
LCV 1032B	40/312	-	%FC		SEE FIG 40 SH.312	WASTE GAS COMPRESSOR DRAIN VALVE
LCV1003A	38/301	A/12	%FC	BWP		110E059 SH5 SH.333 42/CDPIA SHEET-130 A.P.C.D.T. SUCTION VALVE
LCV1003B	38/301	A/12	%FC	BWP		110E059 SH5 SH.333 42/CDPIB SHEET-130 A.P.C.D.T. SUCTION VALVE
PCV1036A	2/295	-	%FC	BWP		SH 334 INLET REG. VALVE TO #1 GDT

OPER MODE CONTROL SWITCH AND/OR POS LGT.
 O=NORMALLY OPERATED OPEN L=LOCAL
 C=NORMALLY OPERATED CLOSED L=LOCAL
 X=NORMALLY OPERATED OPEN & CB=CONTROL BOARD
 CLOSED SR=SAMPLE ROOM
 FC=FAILED CLOSED BWP=BARON RECYCLE & WASTE
 FO=FAILED OPEN DISPOSAL PANEL
 FAI=FAILED AS IS

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMMETT GUINA, NUCLEAR POWER PLANT UNIT NO. 1 ELEMENTARY WIRING DIAGRAM	DRAWN BY	DATE	SCALE
ENGINEERING DEPT	CONTROL VALVE TABLE	TRACED		APPROVED
No. 10005-211		CHECKED		FOLDER NO.
		END.		JOB NO.

THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425 SH.272 REV.4

VALVE	FIG/SH	SW/SH	OPER. MODE	LOCATION	INTERLOCKS	REFERENCE AND DRAWING REMARKS
RCV-1036B	2/295	E/314	C/FC	BWP		SH. 334 OUTLET REG. TO GA FROM #1 GDT.
RCV-1037A	2/295		C/FC	BWP		SH. 334 INLET REG. VALVE TO #2 GDT.
RCV-1037B	2/295	E/314	C/FC	BWP		SH. 334 OUTLET REG. TO GA FROM #2 GDT.
RCV-1038A	2/295		C/FC	BWP		SH. 334 INLET REG. VALVE TO #3 GDT.
RCV-1038B	2/295	E/314	C/FC	BWP		SH. 334 OUTLET REG. TO GA FROM #3 GDT.
RCV-1039A	2/295		C/FC	BWP		SH. 334 INLET REG. VALVE TO #4 GDT.
RCV-1039B	2/295	E/314	C/FC	BWP		SH. 334 OUTLET REG. TO GA FROM #4 GDT.

REV.	
ORIGINAL	
DRAWN BY	D.H.
CKD	En
ENGR.	216
DATE	838
	4.27

OPER. MODE: O - NORMALLY OPER. OPEN
C - NORMALLY OPER. CLOSED
X - NORMALLY OPER. OPEN & CLOSED
FC - FAILED CLOSED
FO - FAILED OPEN
FAI - FAILED AS IS

CONTROL SWITCH AND/OR POS. LGT. LOCATION: L - LOCAL
CB - CONTROL BOARD
SR - SAMPLE ROOM
BWP - BORON RECYCLE & WASTE DISPOSAL PANEL

THIS DRAWING SUPERSEDES WESTINGHOUSE DWG. 499B425 SH.272

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GINNA, NUCLEAR POWER
STATION UNIT NOT

ELEMENTARY WIRING DIAGRAM

CONTROL VALVE TABLE

DRAWN	BY	DATE	SCALE
TRACED			APPROVED
CHECKED			FOLDER NO.
ENG.			JOB NO.

NO. 10905-272

NOTE: THIS DRAWING SURRESCEDES WESTINGHOUSE DRAWING 499B425.

VALVE (FUSE NO.)	FIG. SH	DEV	OPER MODE	CS/LGT LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
CBV (V58)	28/298	1/318	0/FC	CB	** CBVX SH 318	CONDENSATE BYPASS VALVE
MSIV 1A (V5) 1A (V52) 1B RACK RA-1	28/298	1/314	0/FC	CB	REF DWG. 110E059 SH 4 VBP V52P MS 4 MS 1 MS 4 MS 5 1 8 1 5 2 8 2 V8 1 V8 1 V52 1 V52 1 51 53 52 54	MAIN STM. 150L. VALVE 1A 3300 TO CPT T80109
MSIV 1B (V3) 1B (V5) 1A RACK RA-2	28/298	1/314	0/FC	CB	REF DWG. 110E059 SH 4 VBP V7P MS 4 MS 1 MS 4 MS 5 1 8 1 5 2 8 2 V5 1 V5 1 V7 1 V7 1 51 53 52 54	MAIN STM. 150L. VALVE 1B 3300 TO CPT T80101
MAFIA BV (V59) RACK RA-1	16/297	1/297	0/FO	—	V59P PS 2084 V59S	MTR. DR. AUX. FR. 1A COOL WTR. BYPASS VALVE
MAFIB BV (V60) RACK RA-2	16/297	1/297	0/FO	—	V60P PS 2085 V60S	MTR. DR. AUX. FR. 1B COOL WTR. BYPASS VALVE
JAF BV (V61)	16/297	1/297	0/FO	—	V61P PS 2094 V61S	TURB. DR. AUX. FR. COOL WTR. BYPASS VALV
CY-26 (V62)	16/297	1/297	0/FC	—	V62P 19 CPIA 19 CPIO 19 CPIO 20 20 20 V62S	AIR EJECTOR STEAM SUPPLY VALVE SH 32, 33, & 34
CY-58 (V63P) (V63N)	16/297	1/297	0/FO	—	V63BP 10 51 11X V63S	CONTAINMENT VENT TEMP CONTROL VALVE 33 BATTERY 1A TBC ANN (C10) 110E059 SH 3 SH 369
SM-6 (V63P) (V63N)	16/297	1/297	0/FO	—	SM6R 10 51 21X 14 21X SM6S	CONTAINMENT VENT TEMP CONTROL BYPASS VALVE 33 BATTERY 1B TBC ANN (C10) 110E059 SH 3 SH 369

OPER. MODE: CONTROL SWITCH AND/OR POS. LGT.
 O: NORMALLY OPERATED OPEN LOCATION:
 C: NORMALLY OPERATED CLOSED L: LOCAL
 X: NORMALLY OPERATED OPEN & CLOSED CB: CONTROL BOARD
 FC: FAILED CLOSED SR: SAMPLE ROOM
 FO: FAILED OPEN API: AUXILIARY PANEL
 FAL: FAILED AS IS WP: WASTE DISPOSAL PANEL

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GUINA NUCLEAR POWER
STATION UNIT NO. 1

DRAWN BY DATE SCALE NONE

ENGINEERING DEPT






ELEMENTARY WIRING DIAGRAM

TRACED APPROVED

No. 10905-773

125VDC SOLENOID VALVE TABLE

CHECKED FOLDER NO. JOB NO.

	1. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE ROYAL CANADIAN MOUNTED POLICE AND IS NOT TO BE DISCLOSED TO THE PUBLIC WITHOUT THE WRITTEN PERMISSION OF THE ROYAL CANADIAN MOUNTED POLICE.					2. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE ROYAL CANADIAN MOUNTED POLICE AND IS NOT TO BE DISCLOSED TO THE PUBLIC WITHOUT THE WRITTEN PERMISSION OF THE ROYAL CANADIAN MOUNTED POLICE.					ELEMENTARY WIRING DIAGRAM SOLENOID VALVE TABLE				
	3. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE ROYAL CANADIAN MOUNTED POLICE AND IS NOT TO BE DISCLOSED TO THE PUBLIC WITHOUT THE WRITTEN PERMISSION OF THE ROYAL CANADIAN MOUNTED POLICE.					4. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE ROYAL CANADIAN MOUNTED POLICE AND IS NOT TO BE DISCLOSED TO THE PUBLIC WITHOUT THE WRITTEN PERMISSION OF THE ROYAL CANADIAN MOUNTED POLICE.					5. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE ROYAL CANADIAN MOUNTED POLICE AND IS NOT TO BE DISCLOSED TO THE PUBLIC WITHOUT THE WRITTEN PERMISSION OF THE ROYAL CANADIAN MOUNTED POLICE.				
	6. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE ROYAL CANADIAN MOUNTED POLICE AND IS NOT TO BE DISCLOSED TO THE PUBLIC WITHOUT THE WRITTEN PERMISSION OF THE ROYAL CANADIAN MOUNTED POLICE.					7. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE ROYAL CANADIAN MOUNTED POLICE AND IS NOT TO BE DISCLOSED TO THE PUBLIC WITHOUT THE WRITTEN PERMISSION OF THE ROYAL CANADIAN MOUNTED POLICE.					8. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE ROYAL CANADIAN MOUNTED POLICE AND IS NOT TO BE DISCLOSED TO THE PUBLIC WITHOUT THE WRITTEN PERMISSION OF THE ROYAL CANADIAN MOUNTED POLICE.				
	ORIGINAL	INITIAL	GF	BW	BWD	BWD	FACILITY GINNA STA			ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK					
		DATE	12/77	12/8/77	7/6/78	7/6/78	SCALE —			JOB NO. 38					
NUMBER	REVISION	DRAWN BY	CHECKED	ENG. ENG.	ENG. MANG'R.		DRAWING NO.			REV.					
							10905-274								

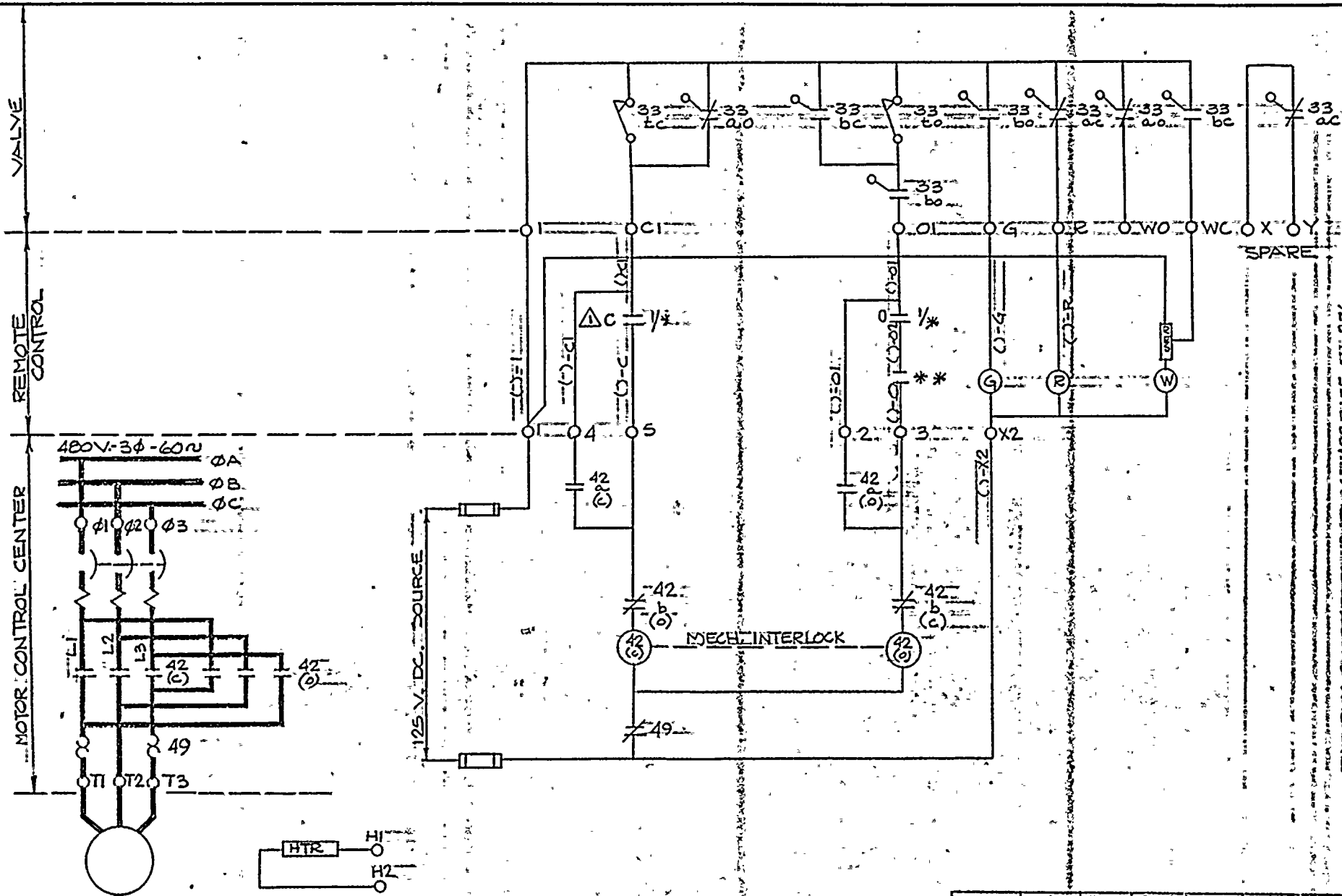
THIS DRAWING IS NOT AN ORIGINAL

VALVE TAG NO. FUSE NO.	FIG. SH	SW DEV	OPER MODE	CS/LGTS LOCATION	INTERLOCKS	REFERENCE DRAWING AND REMARKS
IA1 RN125 V16P V16N	34/100		FC	CB	IA1P 20AXS IA1S	STEAM DUMP D-302-III SH 336 CPTP CPTP
IA2 RN125 V17P V17N	34/100		FC	CB	IA2P 20AXS IA2S	STEAM DUMP D-302-III SH 336 CPTP CPTP
IA3 RN125 V18P V18N	34/100		FC	CB	IA3P 20AXS IA3S	STEAM DUMP D-302-III SH 336 CPTP CPTP
IA4 RN125 V19P V19N	34/100		FC	CB	IA4P 20AXS IA4S	STEAM DUMP D-302-III SH 336 CPTP CPTP
IB1 RN125 V20P V20N	34/100		FC	CB	IB1P 20AXS IB1S	STEAM DUMP D-302-III SH 336 CPTP CPTP
IB2 RN125 V21P V21N	34/100		FC	CB	IB2P 20AXS IB2S	STEAM DUMP D-302-III SH 336 CPTP CPTP
IB3 RN125 V22P V22N	34/100		FC	CB	IB3P 20AXS IB3S	STEAM DUMP D-302-III SH 336 CPTP CPTP
IB4 RN125 V23P V23N	34/100		FC	CB	IB4P 20AXS IB4S	STEAM DUMP D-302-III SH 336 CPTP CPTP

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OPER. MODE: S, C, X, FG, FO
 CONTROL SWITCH AND/OR POS. LGT.
 O NORMALLY OPERATED OPEN
 C NORMALLY OPERATED CLOSED
 X NORMALLY OPERATED OPEN
 CLOSED
 FG FAILED CLOSED
 FO FAILED OPEN
 LOCATION: L, CB, SB
 L LOCAL
 CB CONTROL BOARD
 SB SAMPLE ROOM
 LIMIT SW/CONTACTS ARE ON VALVE
 NOT SOLENOID OPERATOR

499B 425
 SHEET 275



REV.	DATE	BY	CHKD	APP'D	DATE
ORIGINAL	7/8/76	Rm	7/9/76	REL	7/21/76
	7/22/76	REL	7/22/76	REL	7/22/76
	7/22/76	REL	7/22/76	REL	7/22/76
	7/22/76	REL	7/22/76	REL	7/22/76
	7/22/76	REL	7/22/76	REL	7/22/76
	7/22/76	REL	7/22/76	REL	7/22/76
	7/22/76	REL	7/22/76	REL	7/22/76
	7/22/76	REL	7/22/76	REL	7/22/76
	7/22/76	REL	7/22/76	REL	7/22/76
	7/22/76	REL	7/22/76	REL	7/22/76

THIS DWG. SUPERSEDES 12 DWG. 4998125 SH. 276

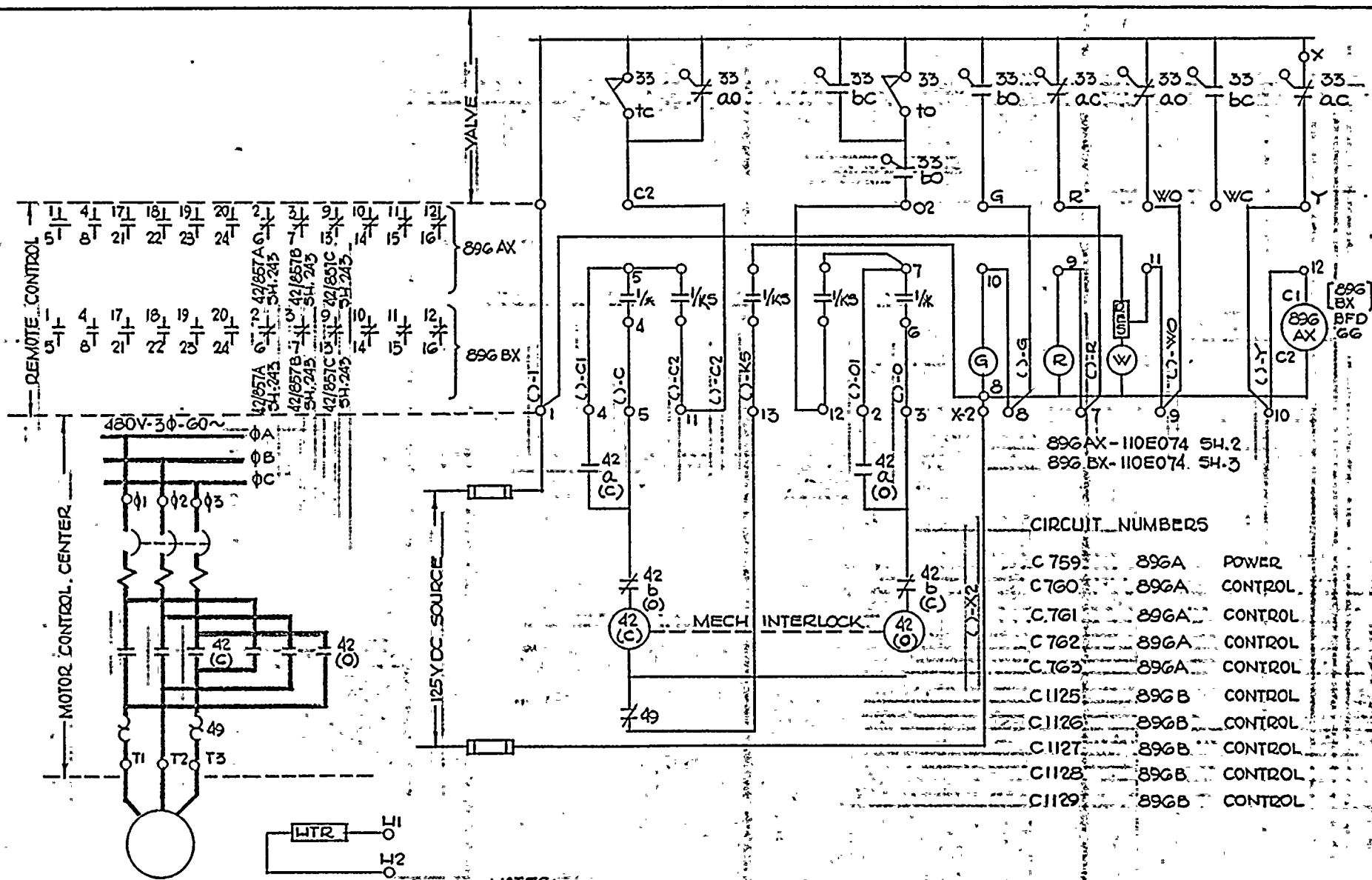
ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GINNA, NUCLEAR
POWER STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
MOTOR OPERATED VALVE

No. J0905276

DATE SCALE
BY
DRAWN
TRACED
CHECKED
ENG.

APPROVED
FOLDER NO.
JOB NO.
JOB NO.



42/896A- UNIT IC/8M
 [42/896B-UNIT ID/8M]

NOTES:
 1/k - SEE DEV.C SHEET 12
 1/k3 - KEY SWITCH

REV.					
ORIGINAL	DL	Rm	REL.	JED	4/30/71
	drawn by	ck'd	resp. eng'r	eng'r	date

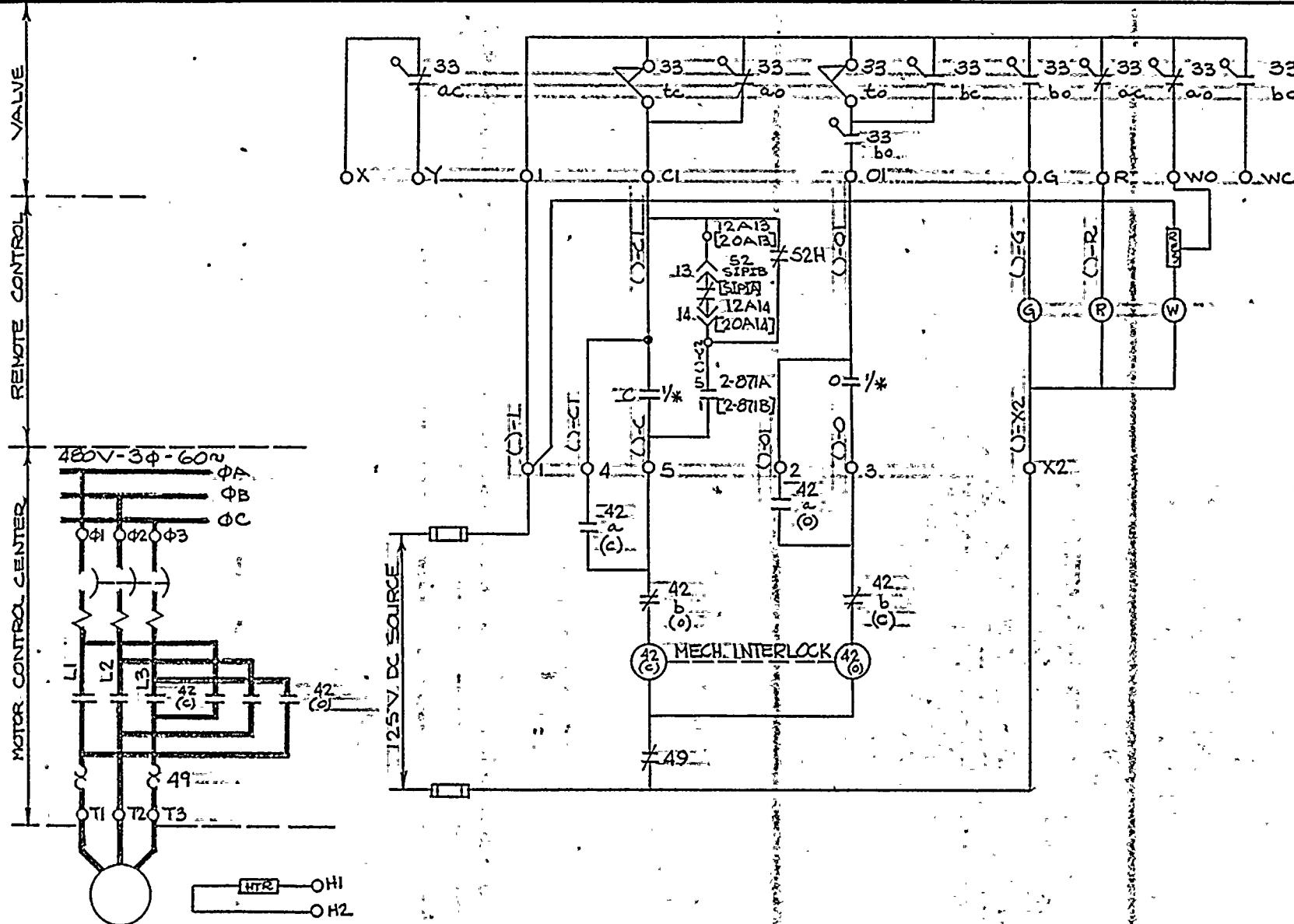
THIS DWG. SUPERCEDES WESTINGHOUSE DWG. NO. 499B425 54-277.

ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1		SCALE 4/2	
ELEMENTARY WIRING DIAGRAM		APPROVED	
MOTOR OPERATED VALVE		FOLDER NO.	
NO. 10005-277		JOB NO.	
DEPT		ENG'R	
ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK		DATE 4/2	



NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B425 SH 278

100



NOTES:
871A AS SHOWN
871B []
1/4 SEE DEV. SH. 12, FIG. C

*VALVE SHOWN IN FULL
OPEN POSITION

THIS DWG. SUPERSEDES W/ DWG. 499B425 SH.279

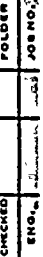
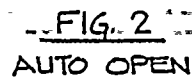
REV						
ORIGINAL	AWJ	PMJ	RPG	DES	4/4/76	
	DWN BY	CKD	REP. ENG	ENG MGR	DATE	

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	ROBERT EMMETT GINNA, NUCLEAR POWER STATION: UNIT NO. 1 ELEMENTARY WIRING DIAGRAM		DRAWN BY	DATE	SCALE
ENGR DEPT	NATLAB OPERATOR VINCENNES		TRACED		APPROVED
			CHECKED		FOLDER NO.
			ENG.		JOIN NO.
NO. 11002970					



NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH 280

1



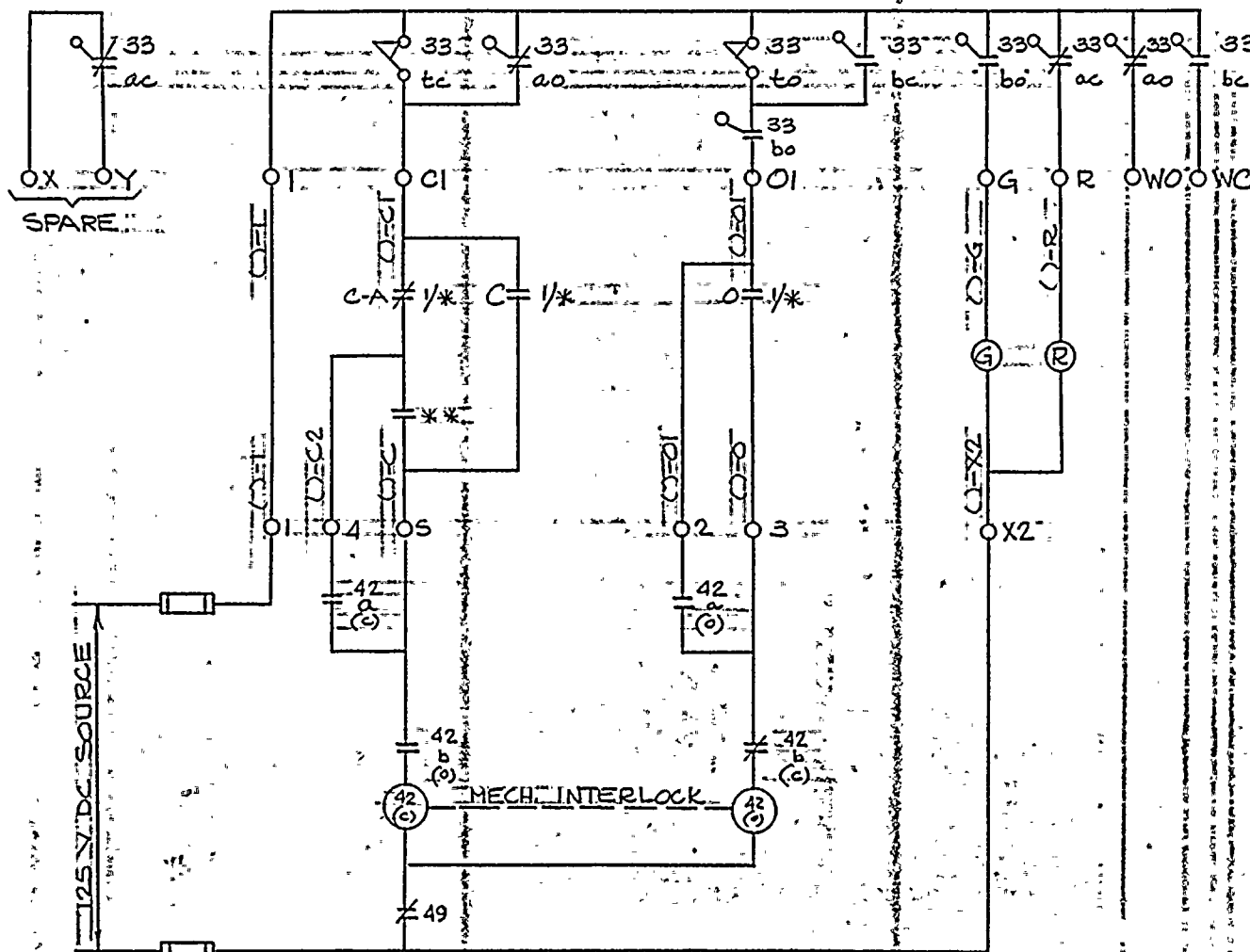
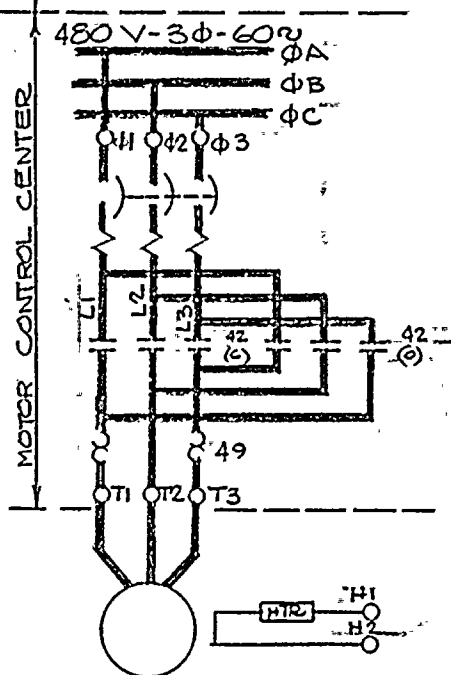


FIG. 3
AUTO_CLOSE

THIS DWG. SUPERSEDES WL 499B425 SH. 282

VALVE SHOWN IN FULL OPEN POSITION

REV.						
ORIGINAL	WJH	DMJ	RCA.	YES.	4/29/81	
	DVN BY	CK'D	DEP. ENG.	ENG. P. WGP.	DATE	

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT. EMMETT GINNA NUCLEAR POWER
STATION - UNIT NO. 1

DRAWN	BY	DATE	SCALE
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TRACED		APPROVED
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ИЗДАНИЕ	ПОЛОНАМ.
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	-ONE		-ONE
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No. 10905-282

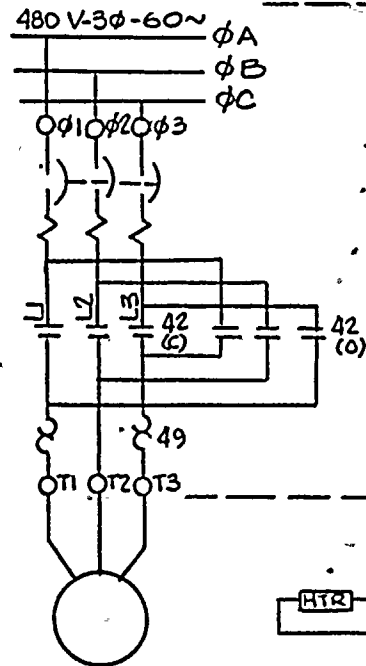


NOTE:

VALVE SHOWN IN FULL
OPEN POSITION.

FIG 5
THROTTLING

HUMPHREY



MOTOR CONTROL CENTER REMOTE CONTROL VALVE

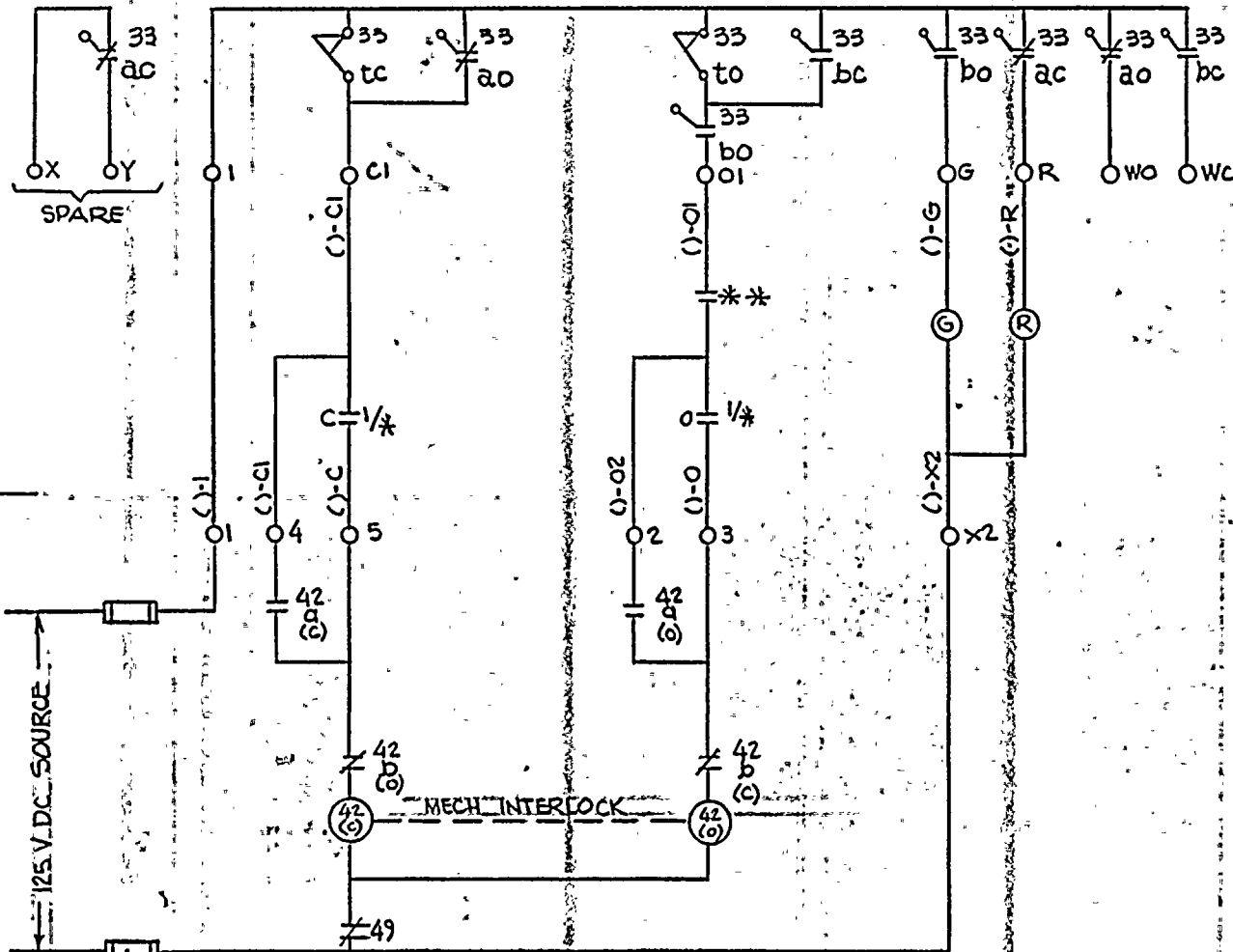
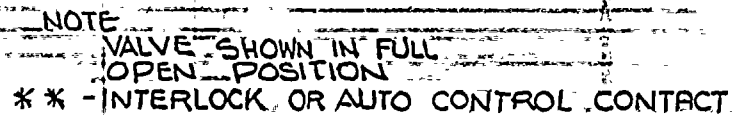


FIG. 6
MANUAL OPERATED, PERMISSIVE
TO OPEN

NOTE: VALVE SHOWN IN FULL
OPEN POSITION
* *- INTERLOCK OR AUTO CONTROL CONTACT

NOTE - THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH 285

ELEMENTARY WIRING DIAGRAM MOTOR OPERATED VALVE				ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK		REV.	
FACILITY GINNA STA				SCALE		DRAWING NO.	
						JOB NO.	
						10905-285	
						REV.	
						A	



NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH 287

[illegible]

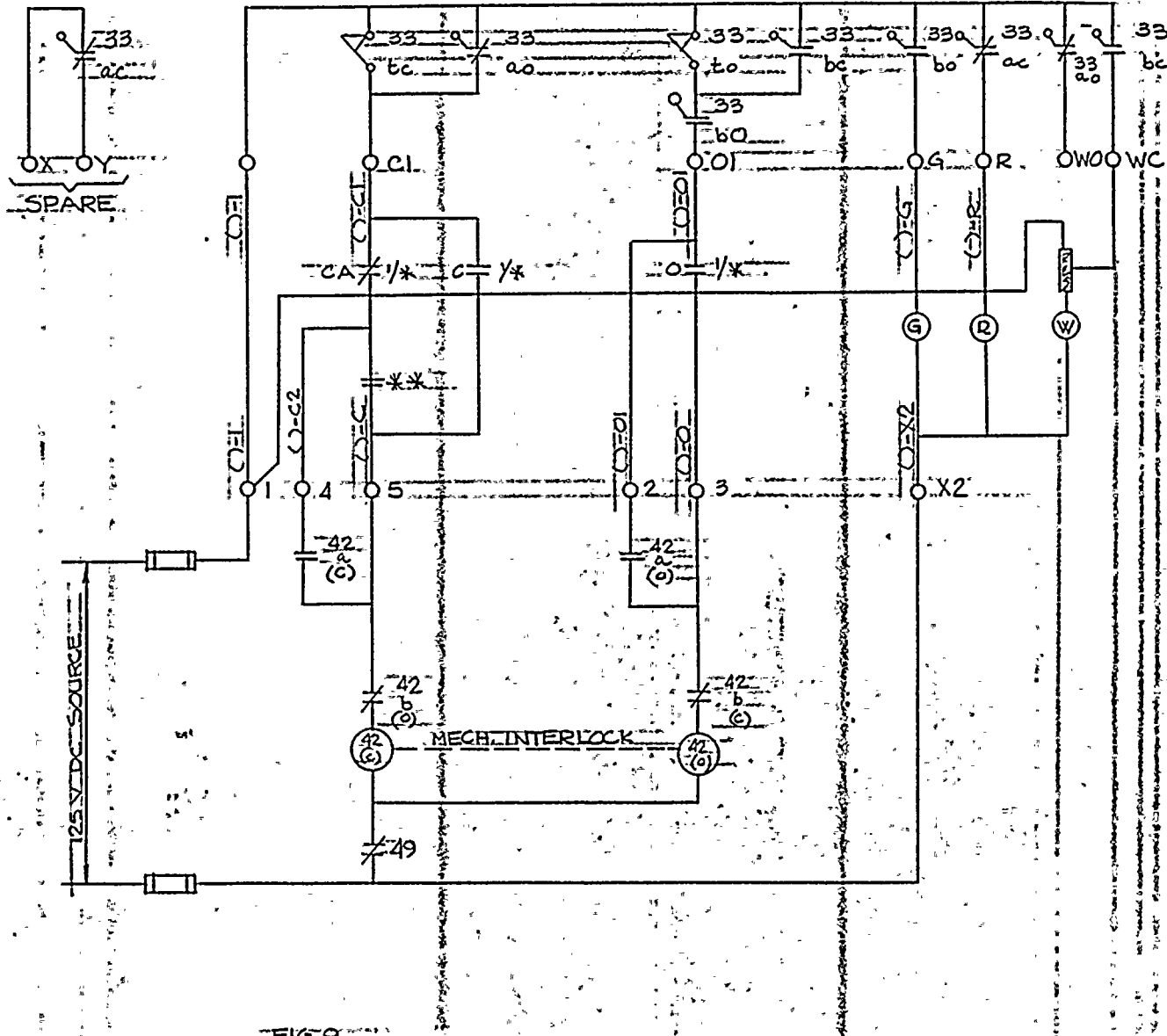
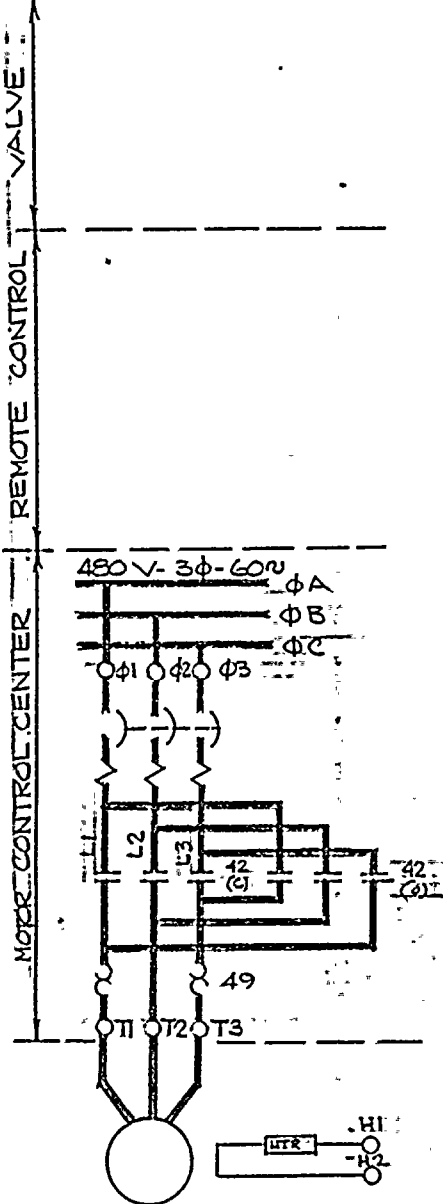


FIG. 9
AUTO CLOSE (SAFEGUARDS)

THIS DWG SUPERSEDES W. DWG. 499B425 SH. 288

REV.	BY	CHK'D.	ENGR.	DATE
ORIGINAL	AWB	RIN	RIG	9/21
	DWN	CK'D.	RESP	4/30/76
			ENGR	
			HGR	

ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1 ELEMENTARY WIRING DIAGRAM MOTOR OPERATED VALVE	DATE	BY	DRAWN	TRACED	CHECKED	APPROVED	FOLDER NO.	JOB NO.
No. 10905-288									

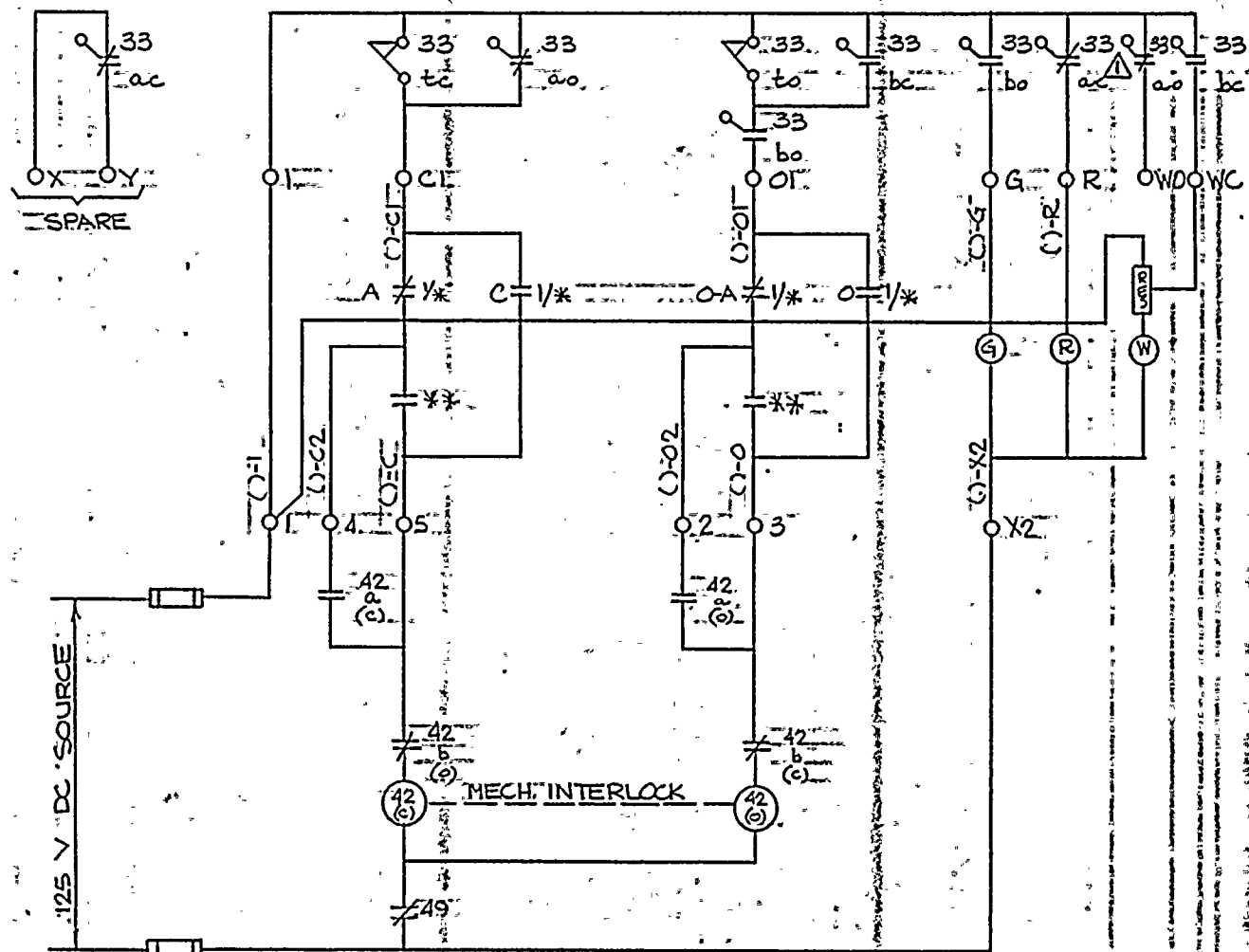
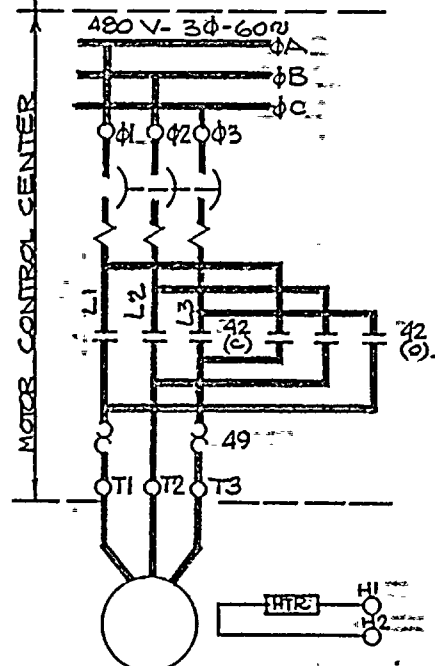


FIG. 10.

AUTO OPEN & CLOSE (SAFE GUARDS)

VALVE SHOWN IN FULL OPEN POSITION

THIS DWG. SUPERSEDES W DWG. 4998425 SH. 289

REV.	1	RW 7/3/76	DH 7-9-76	KAC 7-11-76	9ED	7/16/76
ORIGINAL		QW DWN BY	RW CK'D	KAC RESR ENGR	9ED ENGR MGR	4/10/77 DATE

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

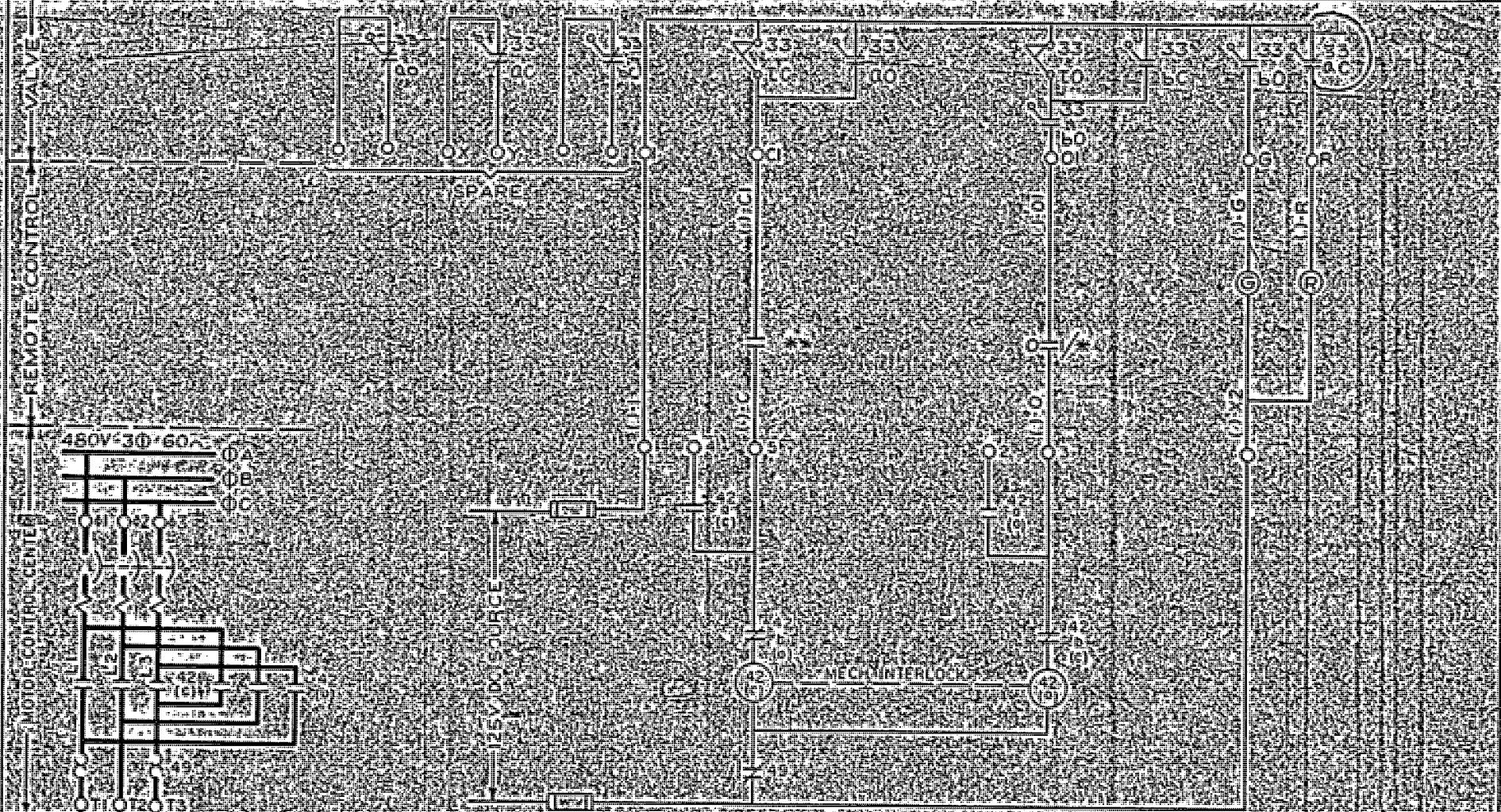
ENGINEER

ENGINEER

ROBERT EMMETT GINNA NUCLEAR POWER
STATION - UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
MOTOR OPERATED VALVE

DRAWN	TRACED	CHECKED	DATE
-------	--------	---------	------

BY	DATE	SCALE
		APPROV
		FOLDER



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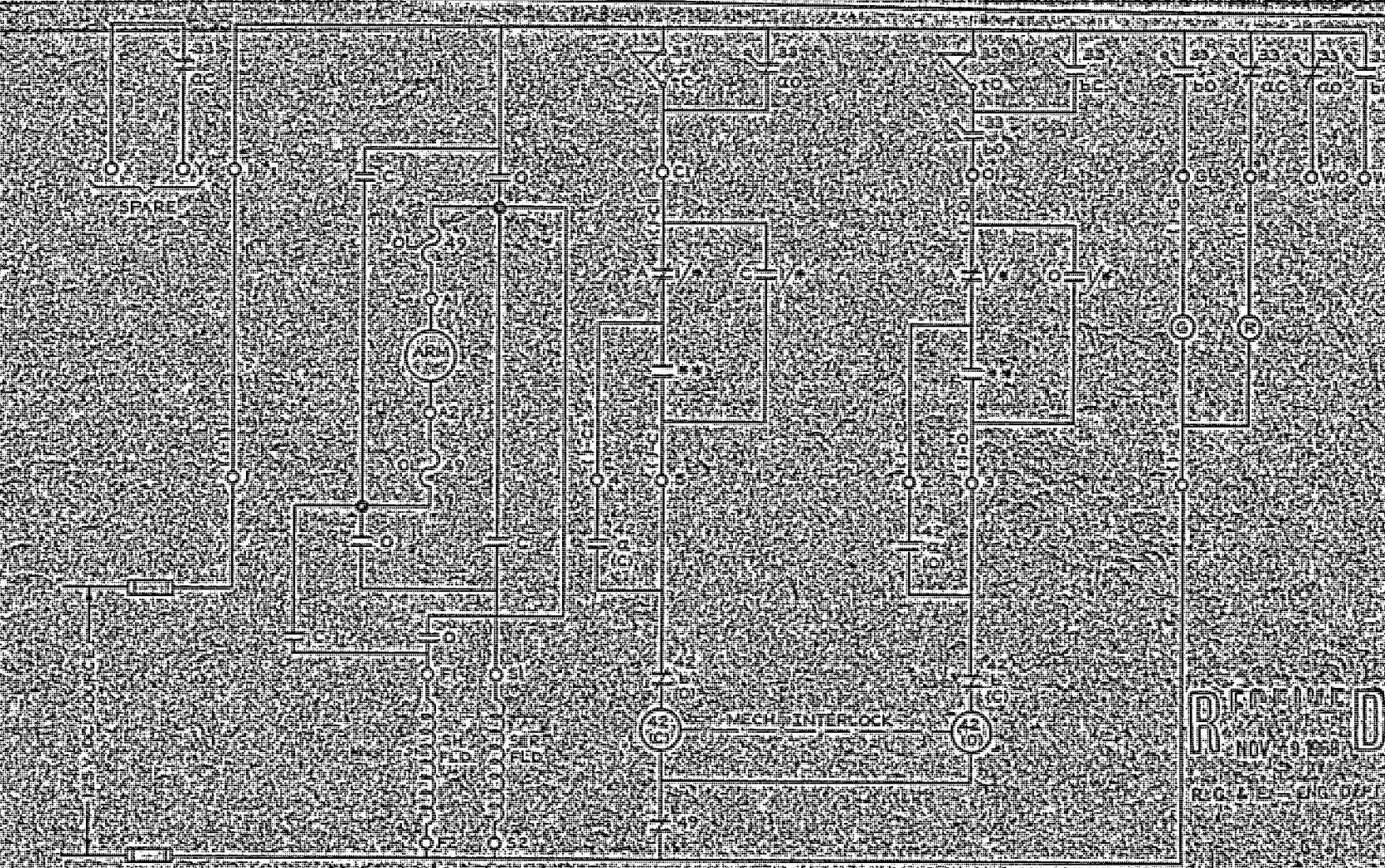
FIG. II

AUTO CLOSE MAN OPEN

FIG. I - FIG. DEET

VALVE SHOWN IN FULL OPEN POSITION	
WESTINGHOUSE	Westinghouse Electric Corporation
ROCHESTER	ROCHESTER GAS & ELECTRIC CORP.
ROBERT EMMETT GINNA	NUCLEAR STATION - UNIT NO. 1
ELEMENTARY WIRING DIAGRAM	MOTOR OPERATED VALVE
R. M. GREG	5-2-59
R. WILSON	5-2-59
499B4-25	SHEET 290
ATOMIC POWER DIVISION	PITTSBURGH, PA. U.S.A.

GILBERT/ASSOCIATES, INC.
 ENGINEERS AND CONSULTANTS
 1555 55th Street, N.W.
 Atlanta, Georgia 30341
 TEL: 404/525-1555
 FAX: 404/525-1556



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AUTO OPEN / CLOSE
 NOTES:
 O - MAIN CONTACT - OPEN CIRCUIT
 C - MAIN CONTACT - CLOSE CIRCUIT

1	Westinghouse Electric Corporation ROCHESTER GAS & ELECTRIC CORPORATION
2	ROBERT ENNETT GINHA NUCLEAR POWER STATION, UNIT NO. 1 ELEMENTARY WIRING DIAGRAM - DC MOTOR OPERATED VALVE
3	499B425
4	SHEET NO. 23

THE

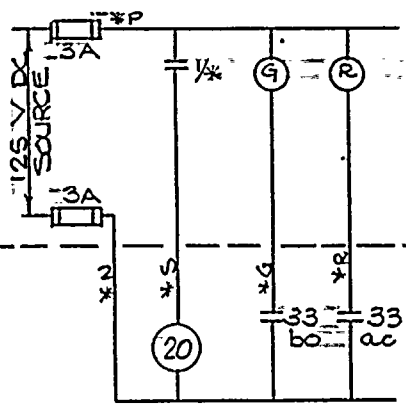


NOTES:
O-MAIN CONTACT OPEN CIRCUIT
C-MAIN CONTACT CLOSE CIRCUIT

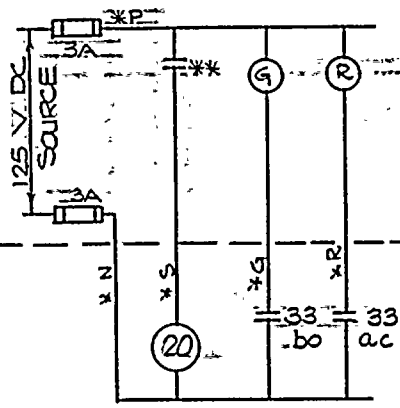
Westinghouse Electric Corporation			
ROCHESTER GAS & ELECTRIC CORPORATION			
ROBERT EMMETT CONNA NUCLEAR POWER STATION, UNIT NO. 1			
ELEMENTARY WIRING DIAGRAM		DC MOTOR OPERATED VALVE	
DATE	REV.	DESCRIPTION	<div style="font-size: 2em; font-weight: bold;">499B425</div> <div>  SHEET OF 7541 </div>
10-1-68	1	AS SHOWN	
10-1-68	1	AS SHOWN	
ATOMIC POWER DIV.		PITTSBURGH, PA. U.S.A.	

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APR 8 1962
R. Q. M. - END OF COPY

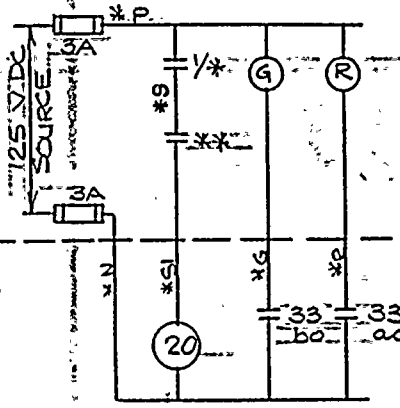
VALVE REMOTE CONTROL



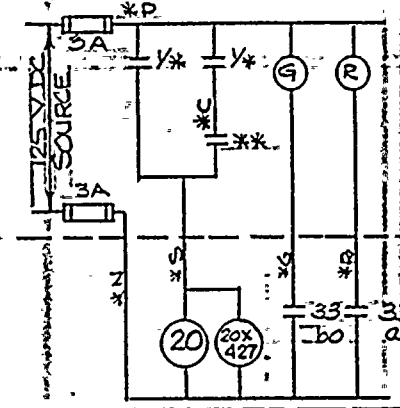
MANUAL CONTROL
FIG. #1



AUTOMATIC CONTROL
FIG. #2

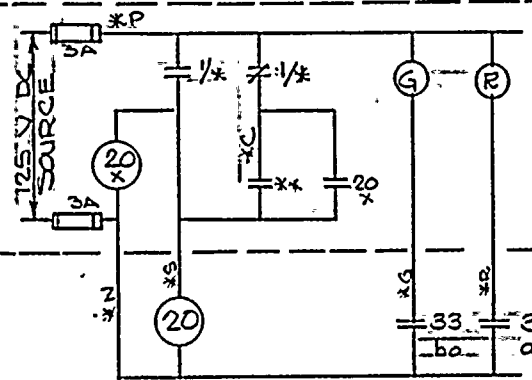


MAN. CONTROL AUTO. OVERRIDE
TO DE-ENERGIZE SOLENOID
FIG. #3

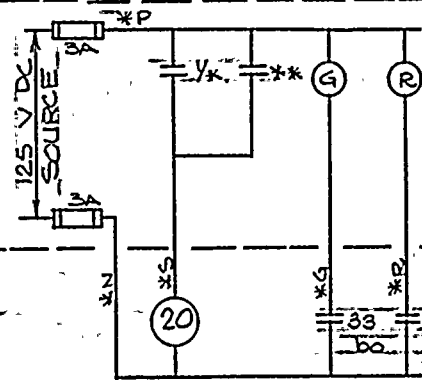


AUTO CONTROL MAN. OVERRIDE
TO ENERGIZE SOLENOID
(AUX. RELAY ON VALVE 1 ONLY)
FIG. #4

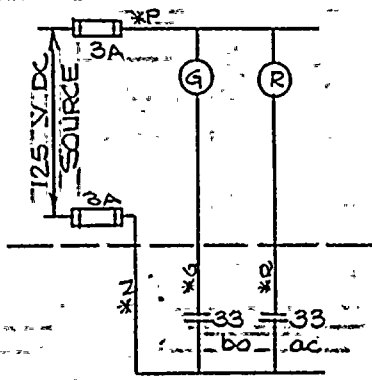
VALVE REMOTE CONTROL



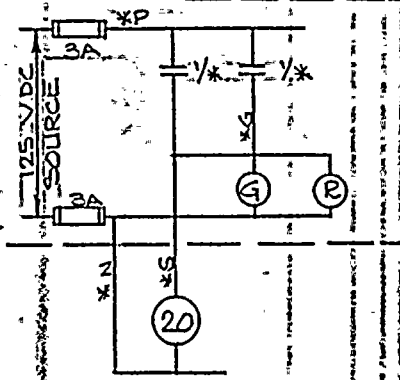
AUTOMATIC CONTROL w/ LOCK UP
MANUAL OVERRIDE TO RESET
FIG. #5



MANUAL CONTROL AUTO. OVERRIDE
TO ENERGIZE SOLENOID
FIG. #6



POSITION LIGHTS
FIG. #7



MANUAL CONTROL
(w/o POSITION SWITCHES)
FIG. #8

SOLENOID & PLO/SOLENOID OPERATED AIR DIAPHRAGM VALVES

THIS DWG. SUPERSEDES W. DWG. 499B425 SH. 295

REV.	BY	DATE	APP'D.	DATE
ORIGINAL	ADW	RM	PEG	2/2/71
	DWN	CRD	RES	4/1/71
	BY	ENR	ENR	

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENG'R
DEPT

No. 10905-295

ROBERT EMMETT GINNA NUCLEAR POWER
STATION - UNIT NO. 1

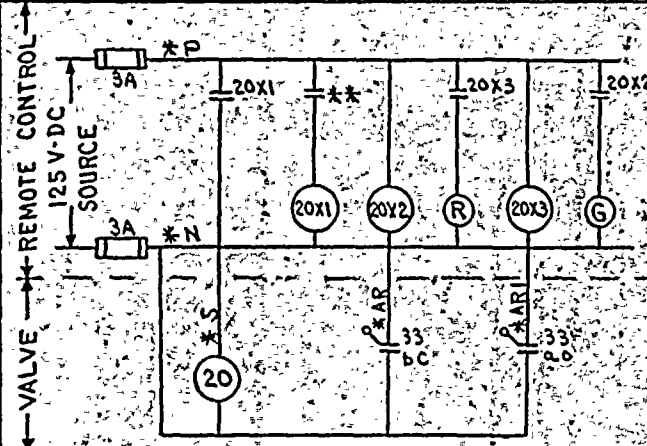
ELEMENTARY WIRING DIAGRAM

VALVE REMOTE OPERATED VALVES

DRAWN
TRACED
CHECKED
ENG.

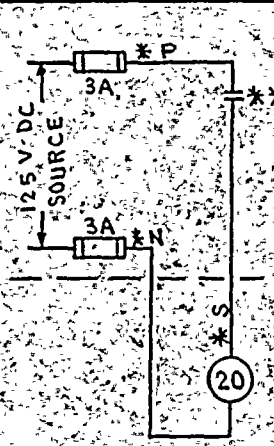
DATE
BY
FOLDER NO.
JOB NO.

SCALE
APPROVED



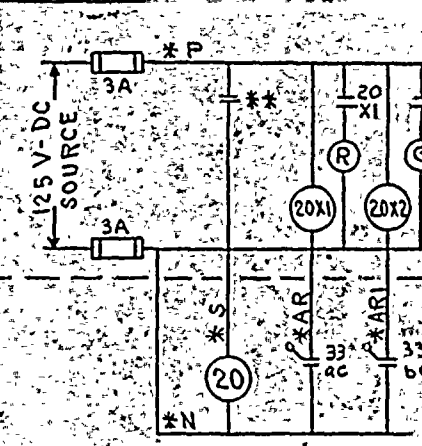
SOLENOID IS ENERGIZED TO CLOSE VALVE

FIG. # 15



SOLENOID IS ENERGIZED TO OPEN VALVE

FIG. # 16



OPENS ON INCREASING CONDUCTIVITY

FIG. # 17

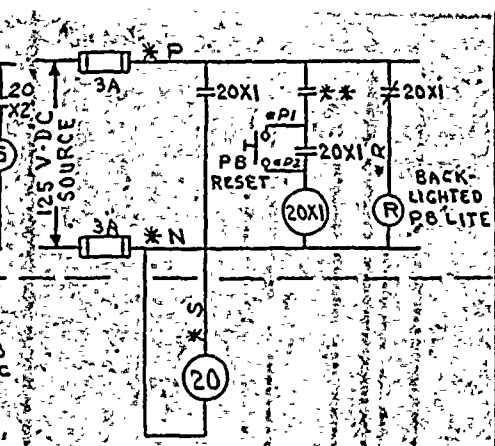


FIG. # 18

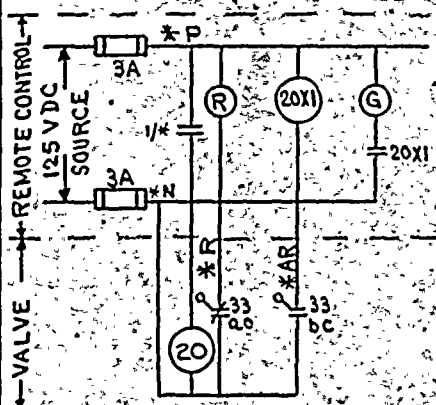


FIG. # 19

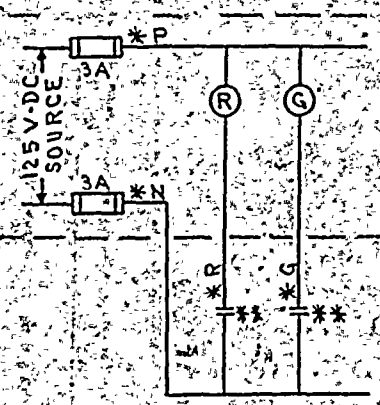


FIG. # 20

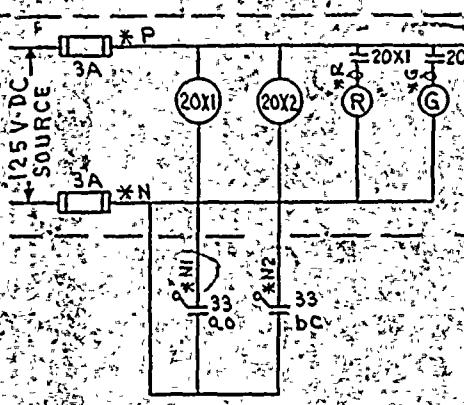


FIG. # 21

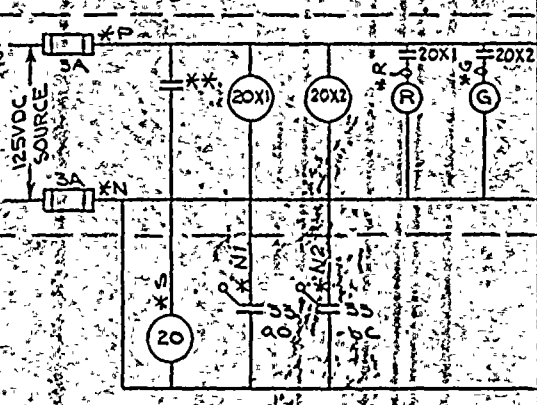


FIG. # 22

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R. G. & L. - ENG. DEPT

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ECN-4750 RWLSON 7/1/69 7/1/69		SO. RGE-380		Westinghouse Electric Corporation	
7/1/69		1		TITLE: ROCHESTER GAS & ELECTRIC CORP.	
7/1/69		SUB		ROBERT EMMETT GINN NUCLEAR STATION-UNIT NO. 1	
7/1/69		1		ELEMENTARY WIRING DIAG.	
7/1/69		1		SOLENOID VALVE TABLE	
7/1/69		1		G-TURBA	
7/1/69		1		499B425	
7/1/69		1		SHEET: 297	
7/1/69		1		PITTSBURGH, PA., U.S.A.	

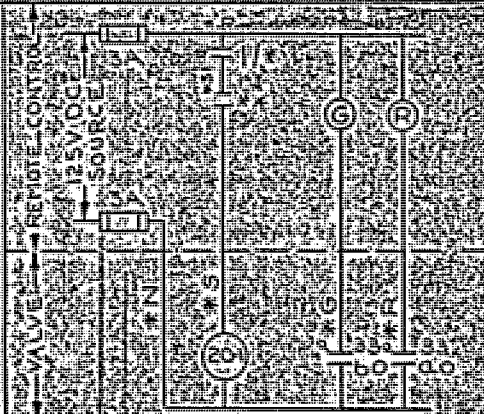


FIG. 23

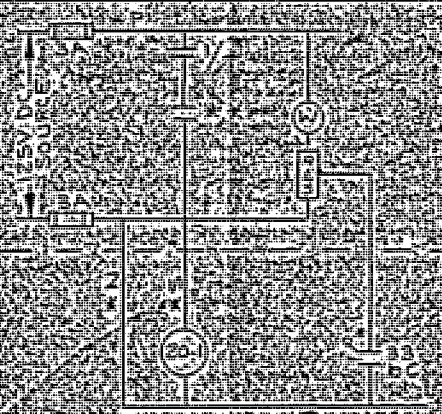


FIG. 24

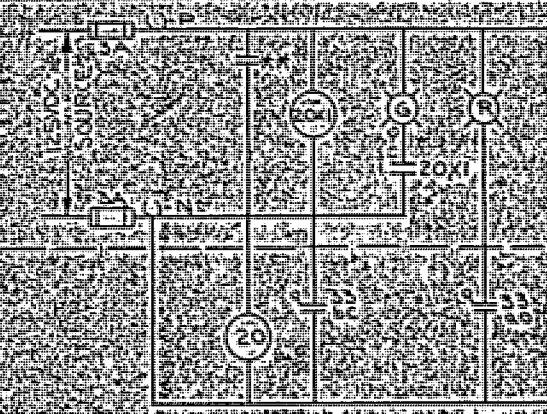


FIG. 25

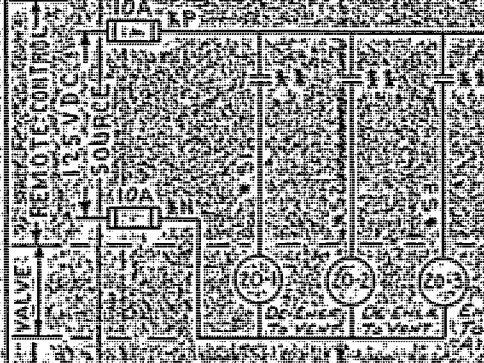


FIG. 26

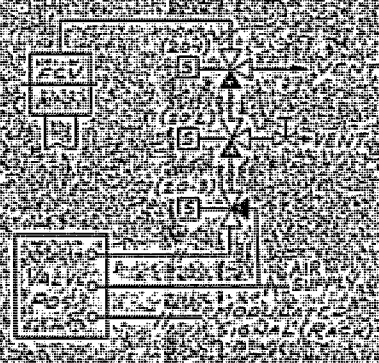


FIG. 27

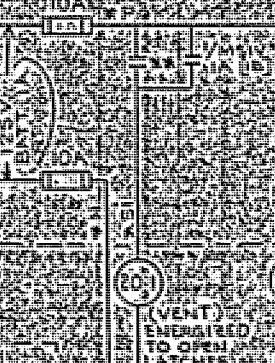


FIG. 28

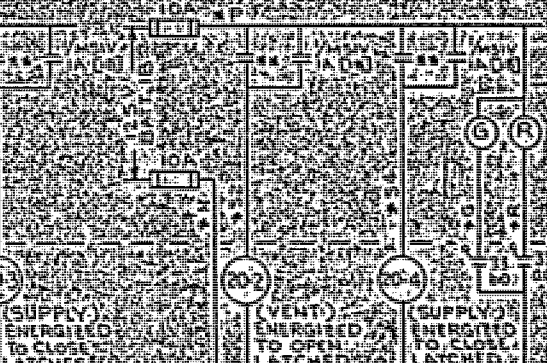


FIG. 29

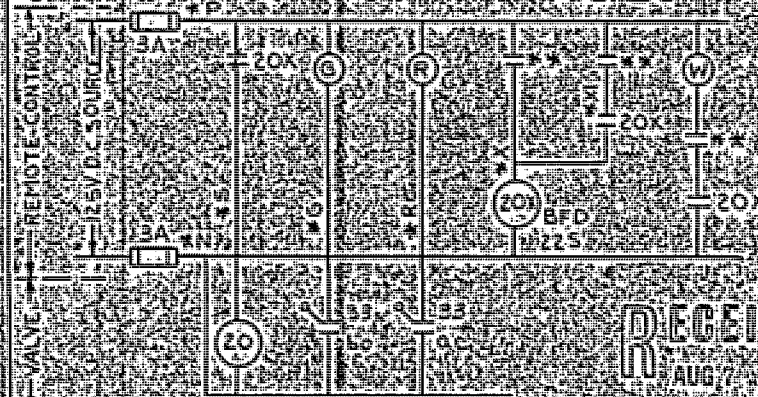


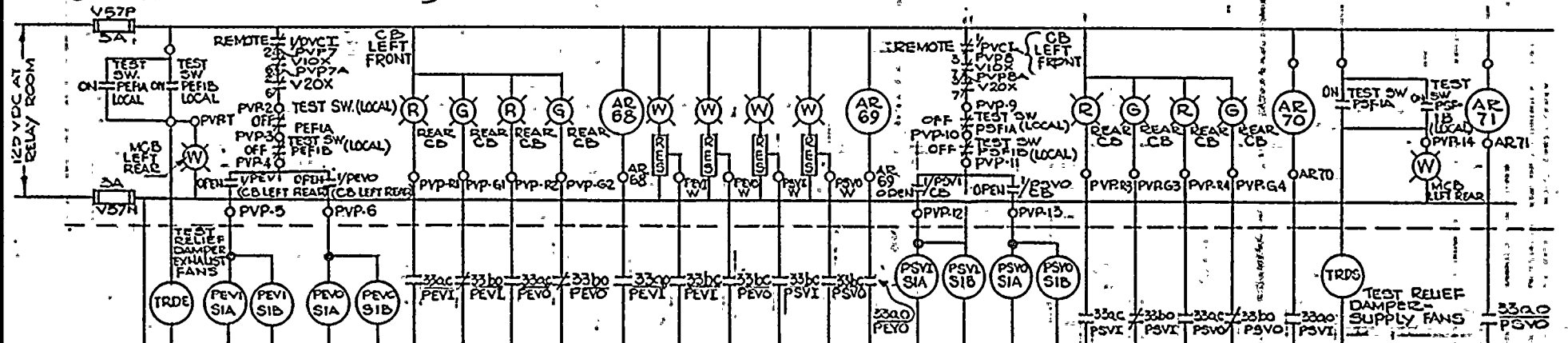
FIG. 30

THIS DRAWING IS NOT AN ORIGINAL

NOTE: VENT SOLENOID VALVES #1 & 2 ARE PARALLEL SUPPLY SOLENOID VALVES #3 & 4 ARE IN SERIES.

RECEIVED
AUG 1969
R. G. & E. - ENG. DEPT.

Westinghouse Electric Corporation				ROCHESTER GAS & ELECTRIC CORP.			
ROBERT EMMETT GINNA NUCLEAR STATION UNIT NO. 3				ELEMENTARY WIRING DIAG. REMOTE OPERATED VALVES			
STOKER	20	20	20	20	20	20	20
20	20	20	20	20	20	20	20
ATOMIC POWER DIV.				PITTSBURGH, PA. U.S.A.			



PVN

PURGE	SUPPLY	AND	EXHAUST	FAN	DAMPER	SOLENOIDS
-------	--------	-----	---------	-----	--------	-----------

TO PEF-IA SH.222

1A/9F-C4
AR68

TO PEF-IB SH.223

1B/2H-C4
AR68

TO PEF-IA SH.222

1A/9F-C3
AR69

TO PEF-IB SH.223

1B/2H-C3
AR69

TO PEF-IA SH.222

1A/9D-C4
AR70

TO PEF-IB SH.223

1B/2F-C4
AR70

TO PEF-IA SH.222

1A/9D-C3
AR71

TO PEF-IB SH.223

1B/2F-C3
AR71

(1) - 1/PVCI SEE DEV "A" SHEET 314
(2) - V10X, V20X DWG 110EO39 SH 5
(3) - S1A, S1B REDUNDANT SOLENOIDS (2 ON EACH PURGE VALVE)

THIS DRAWING SUPERSEDES WESTINGHOUSE
DRAWING 499B4-25-SHEET 299 REVISION 1

Rev.						
Original	AS m down by	Rm ck'd	KEG resp end'r	QEL eng'r man'r	1/15/60	date

ROBERT EMMETT GINNA NUCLEAR POWER
STATION - UNIT NO. 1
TELELEMENTARY WIRING DIAGRAM
DAMPER SOLENOID ELEMENTARY

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

No. 10995-299

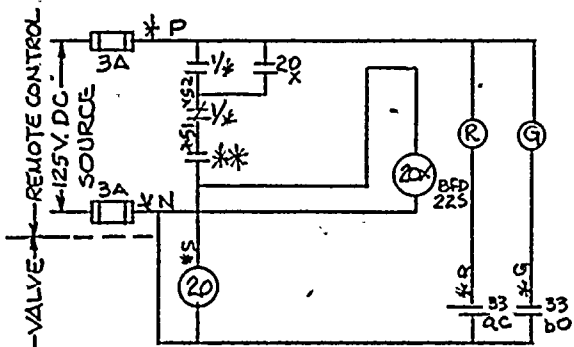


FIG. 30

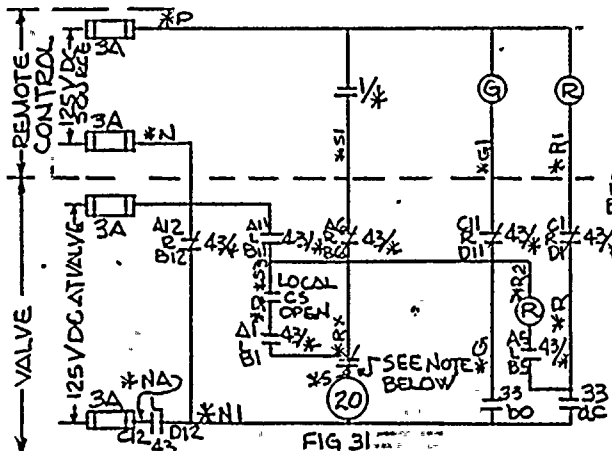


FIG. 31

NOTE FOR FIG. 31

RELAY CONTACT 20X/427 FOR VALVES 200A, 200B & 202 ONLY.

91 #RX 104 #RX 114 #RX
13 #S 141 #S 151 #S

VALVE 200A 200B 202

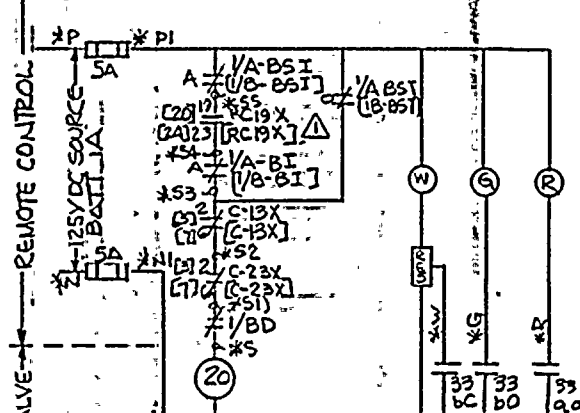


FIG. 32

CV-76 AS SHOWN

CV-77

BD COMMON SW ON CB FOR

VALVES CV-70, CV-71, CV-76 & CV-77

SEE DEV. SHEET 314

RC19X (DWG. 110E074 SH.3

TD216, TD217 SH.317

ANN (K14)
SH.416
K14 & KAP

AT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

BT 43/

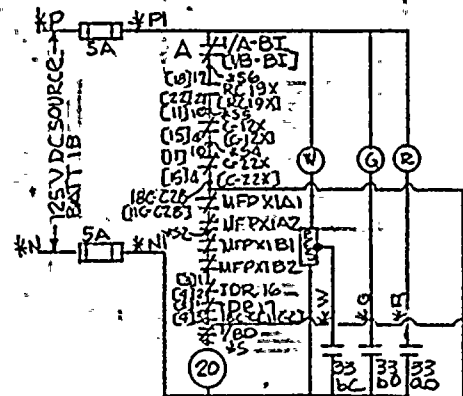


FIG. 33

CV-70 AS SHOWN

CV-71

ANN (K13)
SH.416
K13

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

YBDA 4L

FIG. 34

SOLENOID & PILOT SOLENOID OPERATED

AIR DIAPHRAM VALVE

AIR DIAPHRAM VALVE

AIR DIAPHRAM VALVE

AIR DIAPHRAM VALVE

AIR DIAPHRAM VALVE

NOTE: THIS DRAWING SUPERSEDES WESTING HOUSE DRAWING NO. A993425-31300

REV.	DATE	BY	CHKD.	APP'D.	DATE
1	7/18/76	DAH	7-9-76	RFA	7-12-76
2	8-1-76	RFA	8-1-76	RFA	8-1-76
3	8-1-76	RFA	8-1-76	RFA	8-1-76
4	8-1-76	RFA	8-1-76	RFA	8-1-76
5	8-1-76	RFA	8-1-76	RFA	8-1-76
6	8-1-76	RFA	8-1-76	RFA	8-1-76
7	8-1-76	RFA	8-1-76	RFA	8-1-76
8	8-1-76	RFA	8-1-76	RFA	8-1-76
9	8-1-76	RFA	8-1-76	RFA	8-1-76
10	8-1-76	RFA	8-1-76	RFA	8-1-76

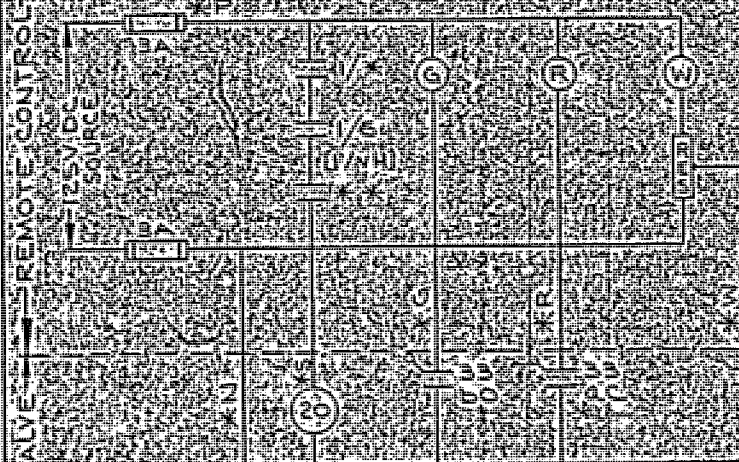
REV.	DATE	BY	CHKD.	APP'D.	DATE
1	7/18/76	DAH	7-9-76	RFA	7-12-76
2	8-1-76	RFA	8-1-76	RFA	8-1-76
3	8-1-76	RFA	8-1-76	RFA	8-1-76
4	8-1-76	RFA	8-1-76	RFA	8-1-76
5	8-1-76	RFA	8-1-76	RFA	8-1-76
6	8-1-76	RFA	8-1-76	RFA	8-1-76
7	8-1-76	RFA	8-1-76	RFA	8-1-76
8	8-1-76	RFA	8-1-76	RFA	8-1-76
9	8-1-76	RFA	8-1-76	RFA	8-1-76
10	8-1-76	RFA	8-1-76	RFA	8-1-76

REV.	DATE	BY	CHKD.	APP'D.	DATE
1	7/18/76	DAH	7-9-76	RFA	7-12-76
2	8-1-76	RFA	8-1-76	RFA	8-1-76
3	8-1-76	RFA	8-1-76	RFA	8-1-76
4	8-1-76	RFA	8-1-76	RFA	8-1-76
5	8-1-76	RFA	8-1-76	RFA	8-1-76
6	8-1-76	RFA	8-1-76	RFA	8-1-76
7	8-1-76	RFA	8-1-76	RFA	8-1-76
8	8-1-76	RFA	8-1-76	RFA	8-1-76
9	8-1-76	RFA	8-1-76	RFA	8-1-76
10	8-1-76	RFA	8-1-76	RFA	8-1-76

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

NO. 10095-800



V/S - COMMON SWITCH ON CB FOR VALVES
951, 953, 955, 959, 966A, 966B, 966C
SEE DEV. C SHEET 314

V/VH - COMMON SWITCH ON CB FOR VALVES 1786, 1787
SEE DEV. A SHEET 314

FIG 35

V/DT - COMMON SWITCH
ON CB FOR VALVES
172, LCV-1003A,
LCV-1003B - SEE DEV. B
SHEET 314

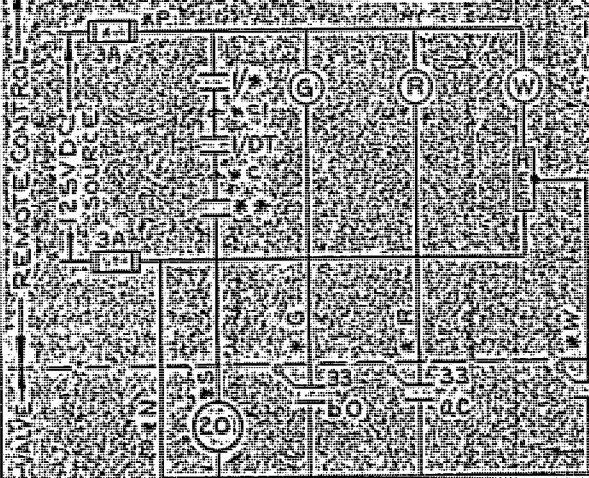


FIG 37

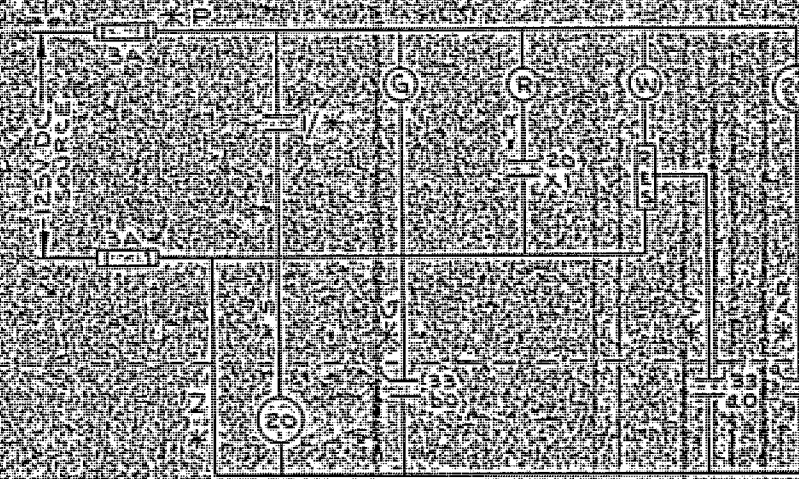


FIG 36

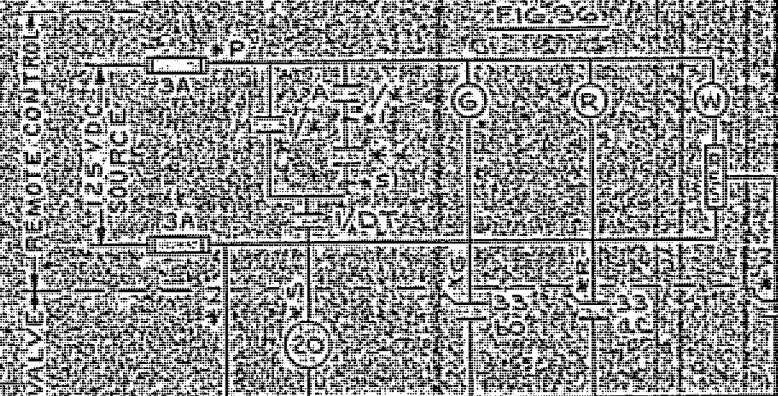
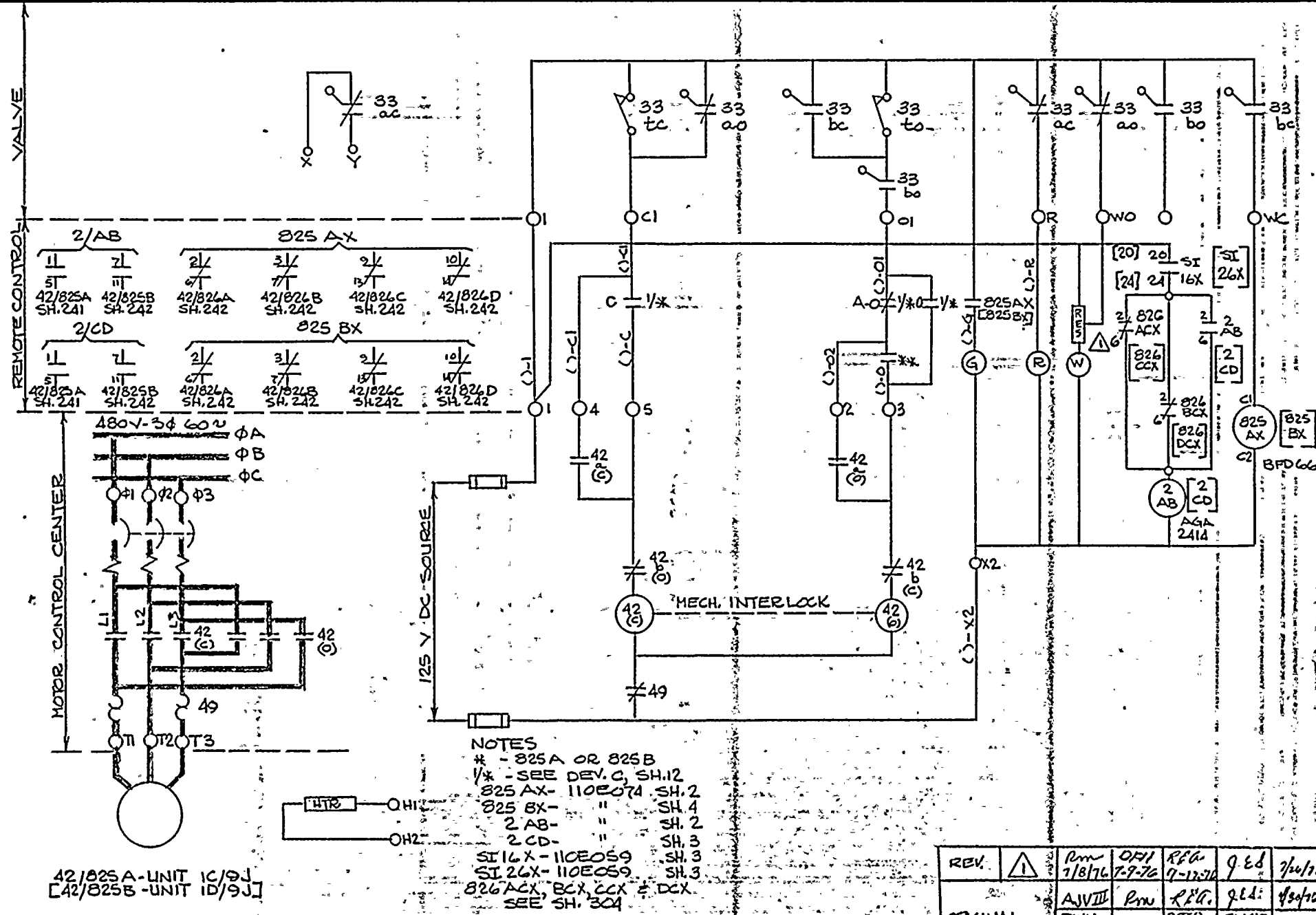


FIG 38

MANUAL CONTROL/AUTO OVERRIDE TO DE-ENERGIZE SOLENOID

RECEIVED
1959

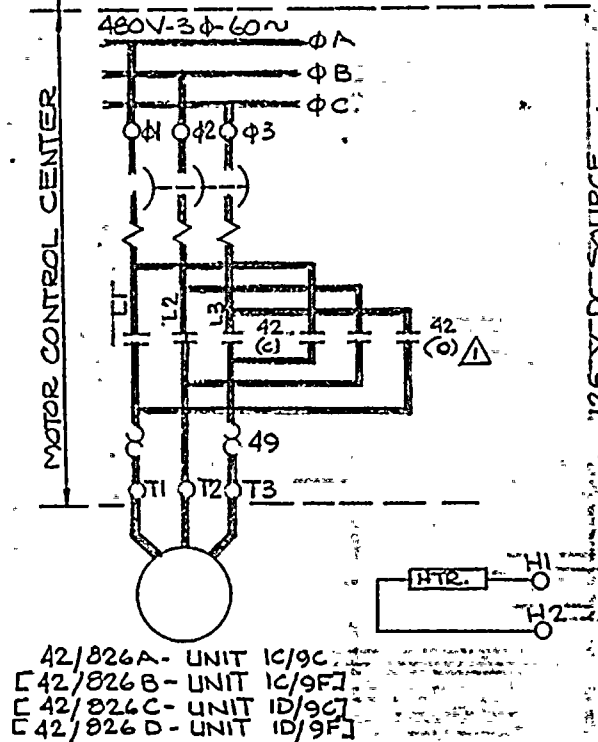
Westinghouse Electric Corporation		ROCHESTER GAS & ELECTRIC CO.		ROBERT EMMETT GINNA		NUCLEAR STATION UNIT NO. 1		ELEMENTARY WIRING DIAG. REMOTE CONTROL VALVES		499B425		SHEET 30 OF 30		PITTSBURGH, PA. U.S.A.	
M. ABERNETHY		W. J. GIBSON		R. WILSON		P. H. GIBSON		J. E. GIBSON		J. E. GIBSON		J. E. GIBSON		J. E. GIBSON	



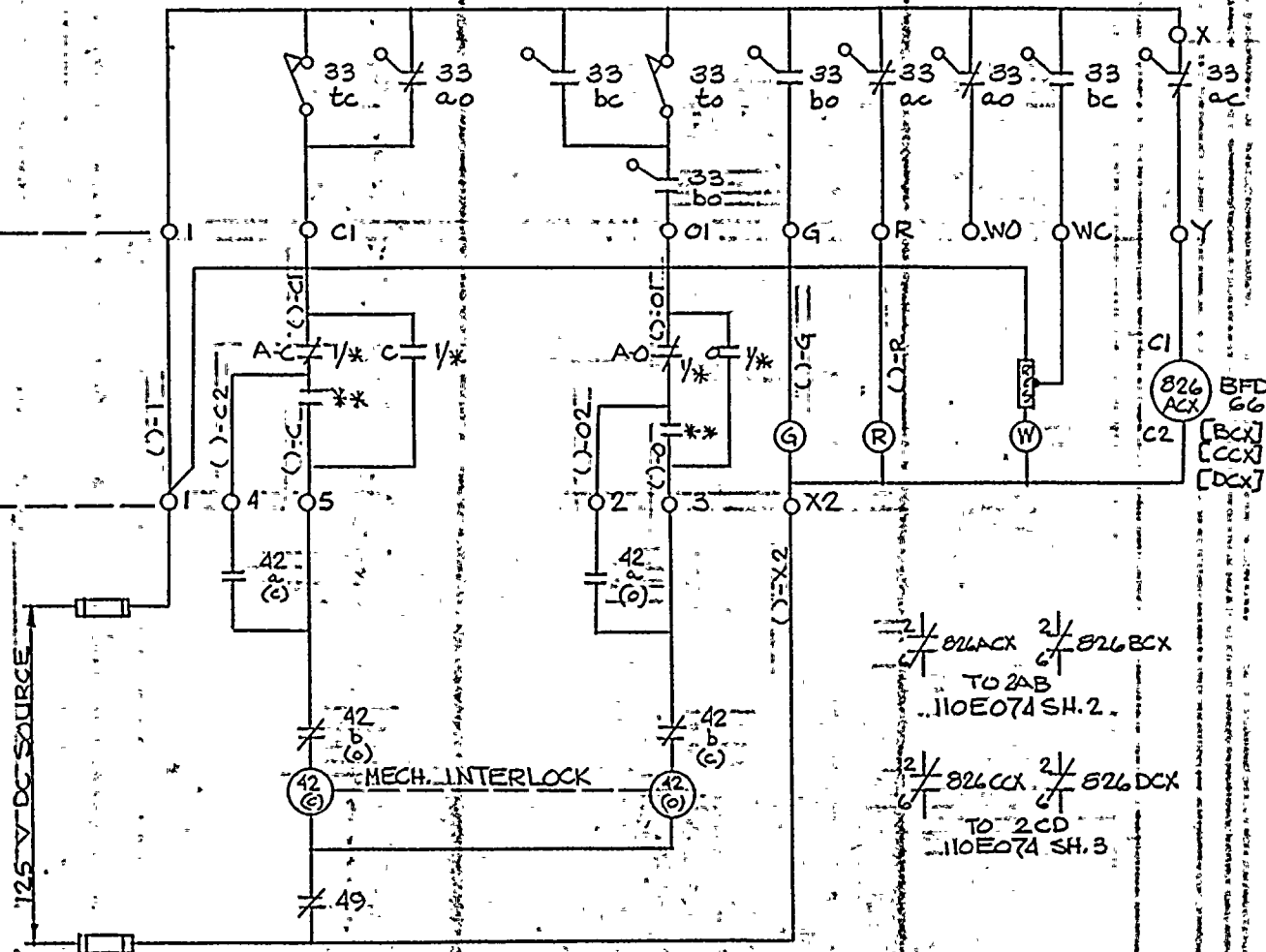
THIS DWG. SUPERSEDES DWG. 499 B425 SH. 303

REV.	DATE	BY	CHKD	ENGR	DATE
1	7/18/76	AW	AW	AW	7/18/76
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3	9-12-76	AW	AW	AW	9-12-76
4	1-12-76	AW	AW	AW	1-12-76
5	1-12-76	AW	AW	AW	1-12-76
6	1-12-76	AW	AW	AW	1-12-76
7	1-12-76	AW	AW	AW	1-12-76
8	1-12-76	AW	AW	AW	1-12-76
9	1-12-76	AW	AW	AW	1-12-76
10	1-12-76	AW	AW	AW	1-12-76

DATE	BY	SCALE	APPROVED	FOLDER NO.	JOB NO.
ORIGIN	TRACED	CHECKED	ENG.		
ROBERT EMMEIT, GINNA NUCLEAR POWER STATION - UNIT NO. 1					
ELEMENTARY WIRING DIAGRAM					
MOTOR OPERATED VALVE					
ROCHESTER GAS & ELECTRIC CORP.					
ROCHESTER, NEW YORK					
NO. 10905-303A					



42/826A- UNIT 1C/9C
[42/826B- UNIT 1C/9F]
[42/826C- UNIT 1D/9C]
[42/826D- UNIT 1D/9F]




2/BLACK 2/BLACK
6/ TO 2AB
110E074 SH.2.

2/ 826 CCX 2/ 826 DCX
6/ 6/

TO 2 CD
110 E 074 SH. 3

THIS DWG. SUPERSEDES W DWG. 499B425 SH. 301.

REV. =		Rm 7/8/76	DTH. 7-9-70	RPA 7-12-76	9ES	7/24/76
ORIGINAL		ASVII	Rm	RPA	9ES	4/30/76
		OWN BY	OK'D	RESP ENG.	ENG'R MGR	DATE

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GINNA, NUCLEAR POWER
STATION - UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
A MOTOR OPERATED VALVE

DRAWN	BY	DATE	SCALE
TRACED			APPROV
CHECKED			FOLDER


No. 10905-304

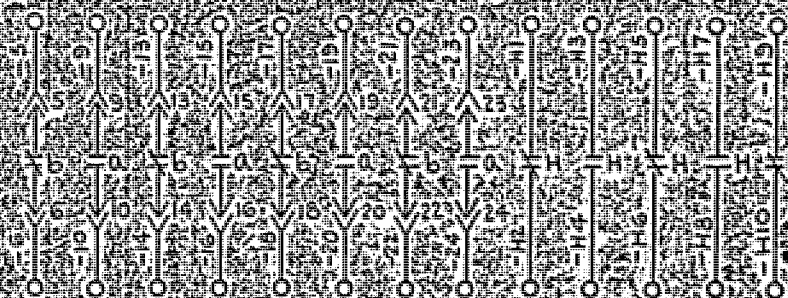
THE

COPIES








NEU

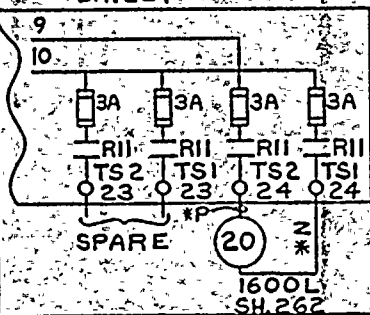
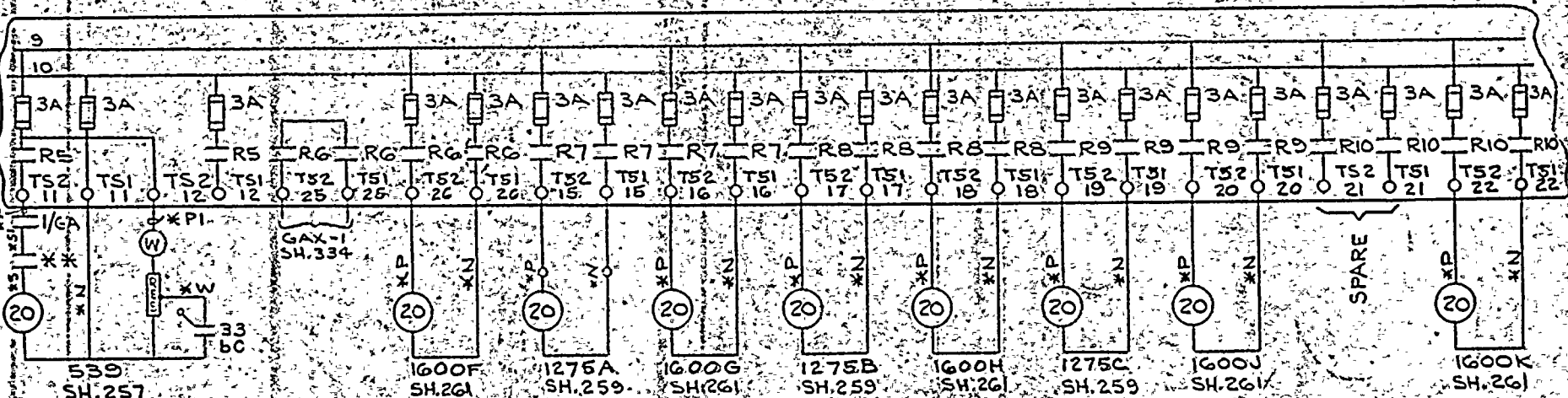
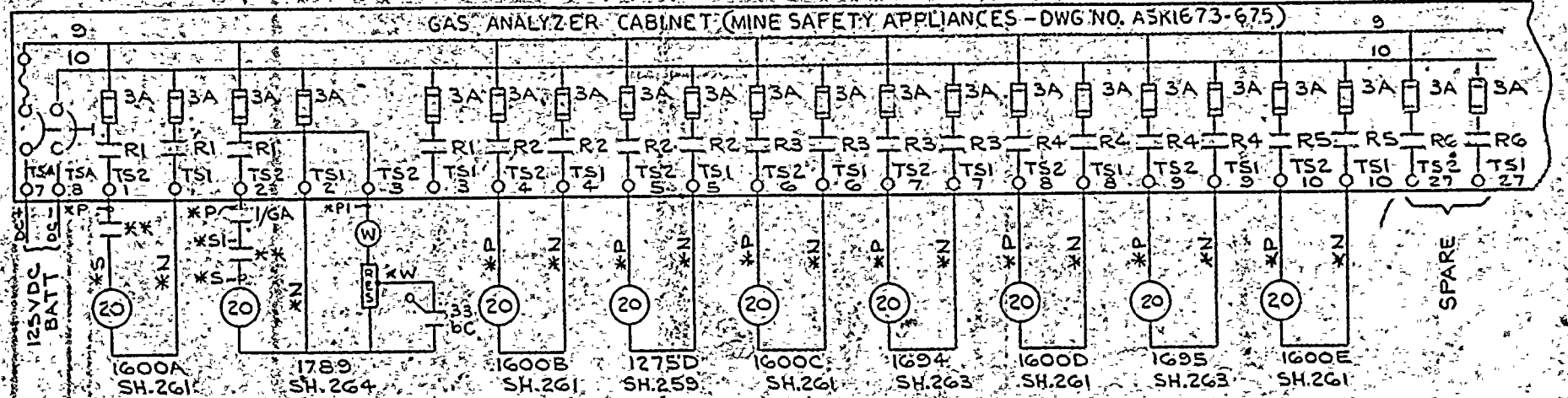
- | | | | | | |
|---------|--|--------|------------------|--------|---|
| RGE-380 | Westinghouse Electric Corporation | | | |  |
| | TITLE: ROCHESTER GAS & ELECTRIC CORP. | | | | |
| S.C. | ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT | | | | |
| | ELEMENTARY WIRING DIAG | | REACTOR TRIP BKR | | |
| SUB | RWILSON | WILSON | WILSON | WILSON | 499B425 |
| | SHEET 307 | | | | |
| | ATOMIC POWER DIV. | | | | PITTSBURGH, PA. U.S.A. |



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

1 SUB	WESTINGHOUSE ELECTRIC CORPORATION ROCHESTER GAS & ELECTRIC CORP.				
	ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT 1 ELEMENTARY WIRING DIAG. REACTOR TRIP BYPASS BKR.				
	R. WILSON 				499B425 SHEET 308
	ATOMIC POWER DIV. PITTSBURGH, PA. U.S.A.				

GAS ANALYZER CABINET (MINE SAFETY APPLIANCES - DWG. NO. ASK1673-675)

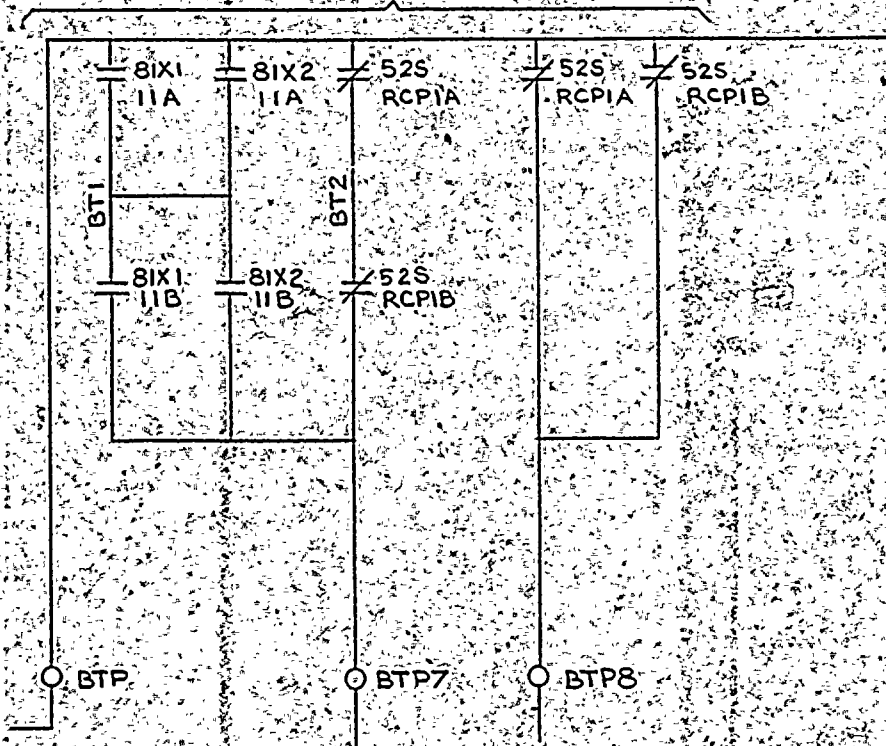


NOTE: /GA= COMMON SWITCH FOR 539 & 1789 ON CB
SEE DEV. A SHEET 314.

THIS DRAWING IS NOT AN ORIGINAL

Westinghouse Electric Corporation			
TITLE: ROCHESTER GAS & ELECTRIC CORP. ROBERT EMMETT GINNA NUCLEAR STATION UNIT NO. 1 ELEMENTARY WIRING DIAG. REMOTE OPERATED VALVES			
W. HABERCHAK	6-18-68	499B425	
SHEET 309 ATOMIC POWER DIV.		PITTSBURGH, PA., U.S.A.	

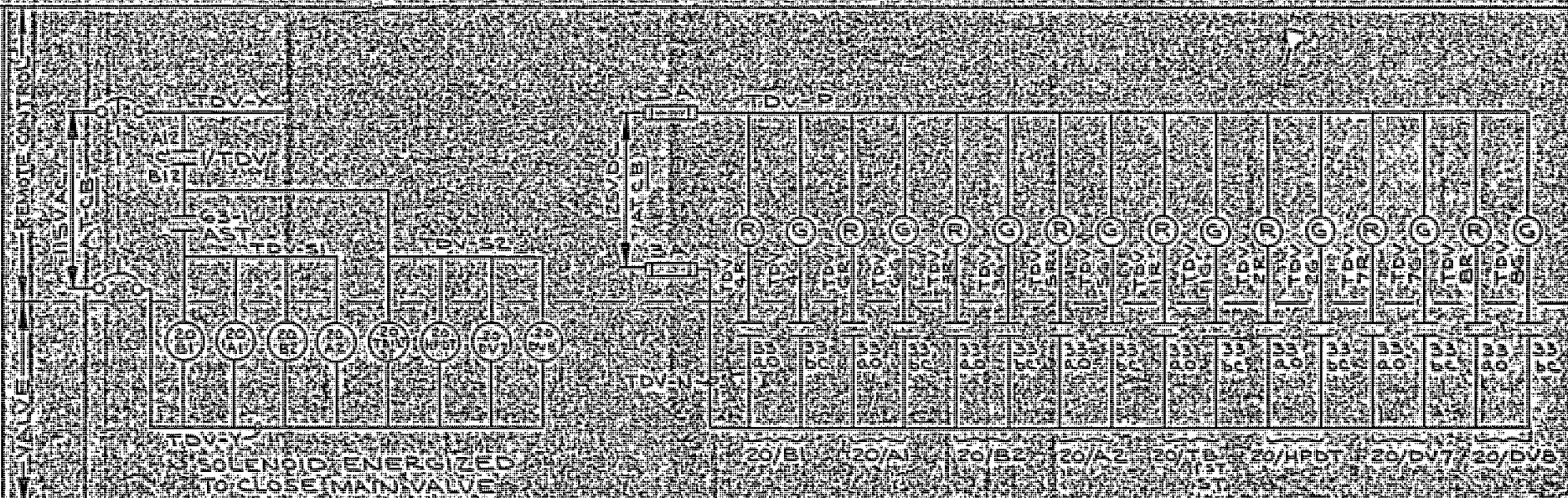
4 KV SWGR SHEETS 15-16 & 37



THIS DRAWING IS NOT AN ORIGINAL

Voided according to index

1	SUB	SO. 380	Westinghouse Electric Corporation		(W)
			TITLE: ROCHESTER GAS & ELECTRIC CORP.		
			ROBERT EMMET GINNA NUCLEAR STATION - UNIT NO. 1		
			ELEMENTARY WIRING DIAG. 72/RTB BKR TRIP CKT.		
C.R. BOLLINGER 6/22/67				499B425	
R. WILSON 6/18/67					
7/17/68 6/1/68 11/8/68 1/17/68					
ATOMIC POWER DIV.					SHEET-310.
					PITTSBURGH, PA., U.S.A.



SYMBOLS & LEGEND

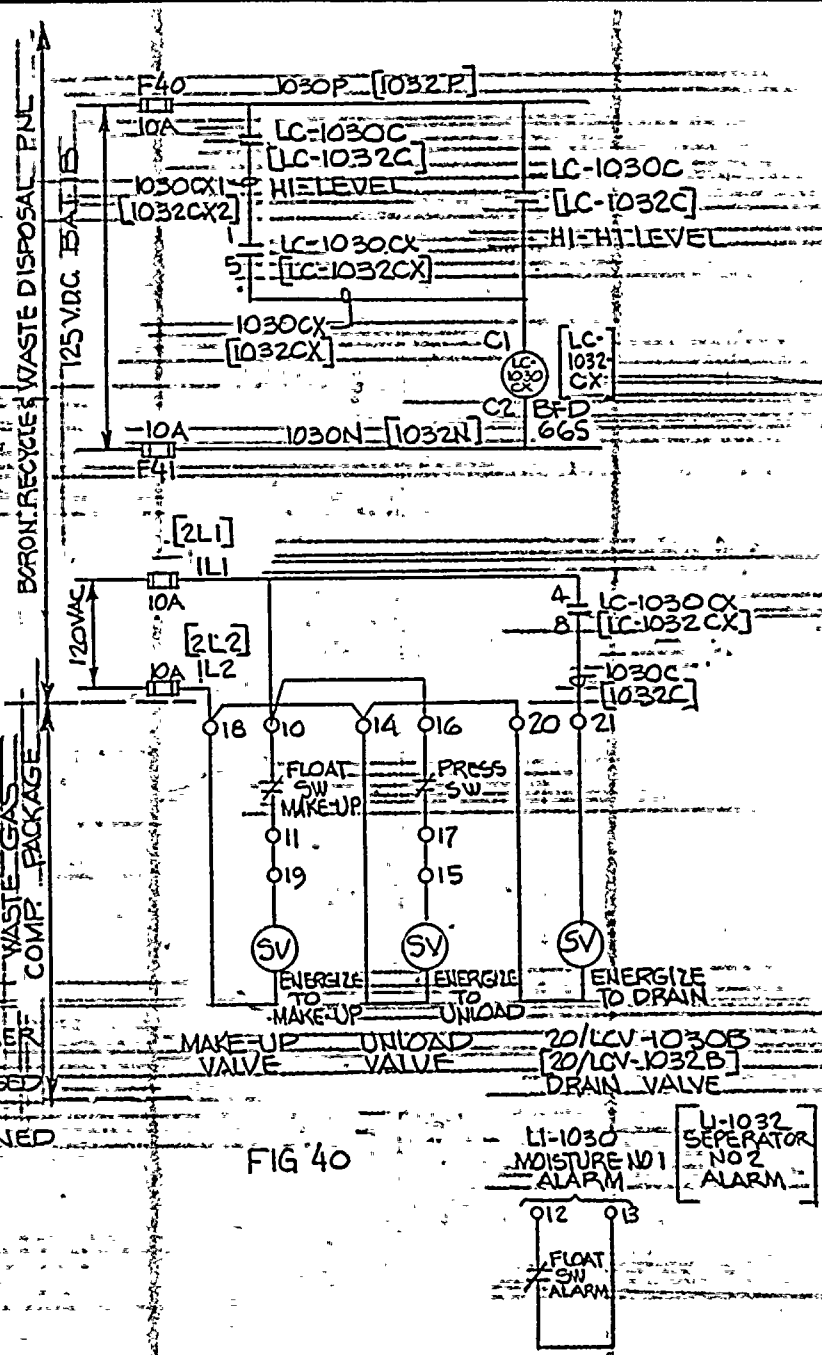
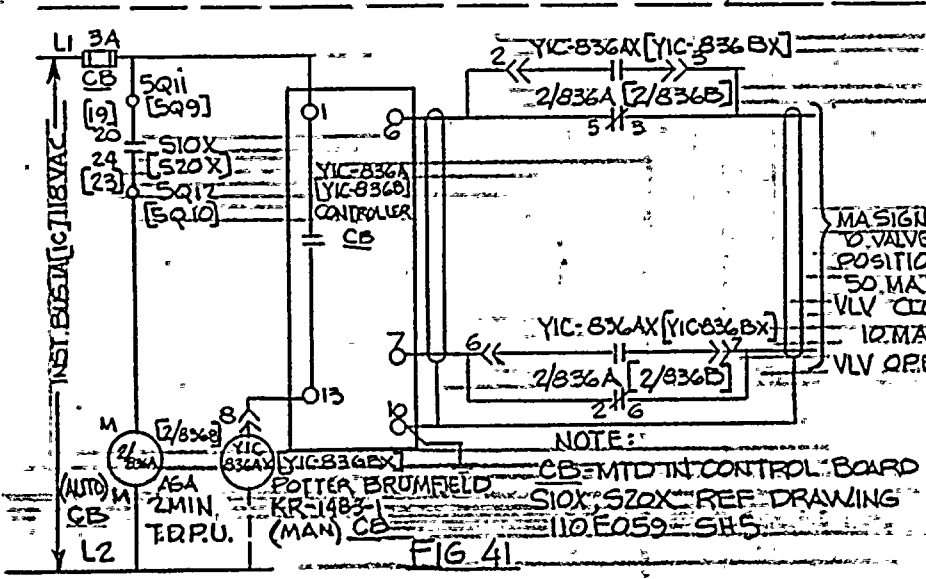
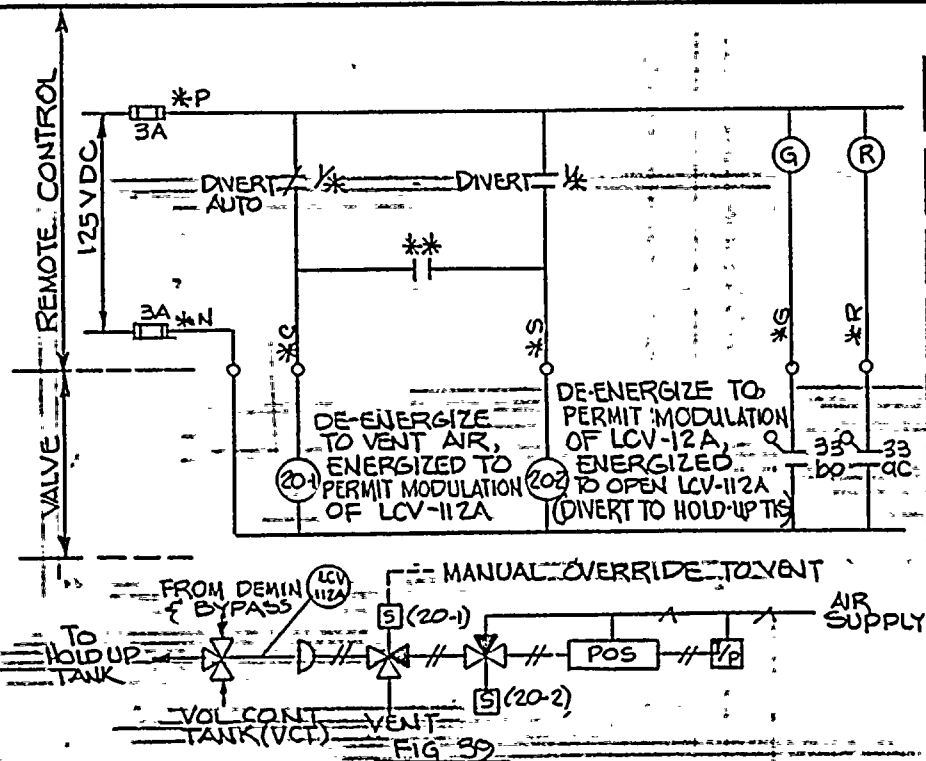
- B1-DV1 - GOV. VLV. UPPER L.H. STM INLET
- A1-DV2 - UPPER R.H. STM INLET
- B2-DV3 - LOWER L.H. STM INLET
- A2-DV4 - GOV. VLV. LOWER R.H. STM INLET
- TB1-DV5 - FIRST STAGE (COMBINED DRAIN)
- HPDT-DV6 - OUTER CYLINDER (COMBINED DRAIN)
- DV7 - CROSSUNDER PIPE (GOV. END L.H.)
- DV8 - CROSSUNDER PIPE (GOV. END R.H.)

NOTE
G3-11-AST-DWG 461B820 SHEET 6
REFERENCE DWG 461B820 SHEET 9

RECEIVED
DEC 9 1969
R/C 41 - ENG DEPT


THIS DRAWING IS NOT AN ORIGINAL

Westinghouse Electric Corporation		ROCHESTER GAS & ELECTRIC CORP.	
ROBERT EMMETT GINNA		NUCLEAR STATION UNIT NO. 1	
ELEMENTARY WIRING DIAG.		REMOTE OPERATED VALVES	
MANAGER	DATE	BY	499B425
499B425	11/11/69	11/11/69	SHEET 31
ATOMIC POWER DIV.		PITTSBURGH, PA. (U.S.A.)	




NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499 B 425 SH 312


ELEMENTARY WIRING DIAGRAM REMOTE OPERATED VALVES				FACILITY GINNA		ROCHESTER GAS & ELECTRIC CORP. ROCHESTER, NEW YORK	
NUMBER	ORIGINAL	DATE	REVISION	JOB NO.	DRAWING NO.	REV.	REV.
1	4/27	12/17	12/17	10905-312	10905-312		

CONTACT BLOCK	CIRCUIT POSITION	
	LEFT	RIGHT
1st BLOCK (FRONT) TYPE OT2M	NO	NO
 OPERATOR-OT2S1 2 POSITION MAINTAINED		


DEV A

CONTACT BLOCK	CIRCUIT POSITION	
	LEFT	RIGHT
1st BLOCK (FRONT) TYPE OT2M	NO	NO
2nd BLOCK TYPE OT2M	NO	NO
 OPERATOR-OT2S1 2 POSITION MAINTAINED		

DEV B

CONTACT BLOCK	CIRCUIT POSITION	
	LEFT	RIGHT
1st BLOCK (FRONT) TYPE OT2M	NO	NO
2nd BLOCK TYPE OT2M	NO	NO
3rd BLOCK TYPE OT2M	NO	NO
4th BLOCK TYPE OT2M	NO	NO
 OPERATOR-OT2S1 2 POSITION MAINTAINED		

DEV C

CONTACT BLOCK	CIRCUIT POSITION	
	LEFT	RIGHT
1st BLOCK (FRONT) TYPE OT2M	NO	NO
2nd BLOCK TYPE OT2M	NO	NO
 OPERATOR-OT2S1 2 POSITION MAINTAINED		

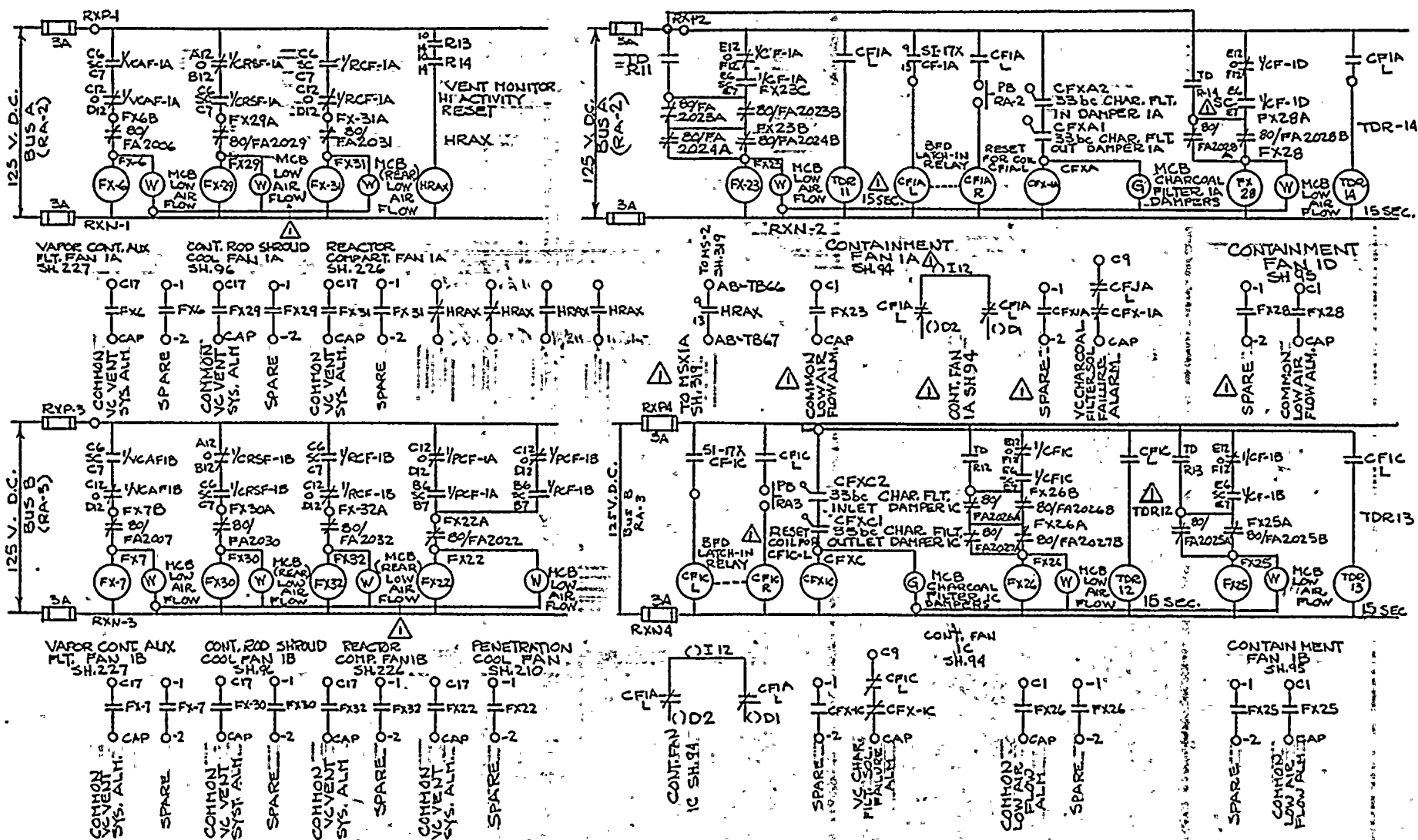
DEV D

THIS DRAWING IS NOT AN ORIGINAL

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DEC 9 1960

U.S. A.E. - ENG. DEPT.

Westinghouse Electric Corporation		ROCHESTER GAS & ELECTRIC CORP.	
ROBERT EMMETT GINNA NUCLEAR STATION UNIT NO. 1		ELEMENTARY WIRING DIAGRAM	
ANABERCHAK	WELLS	WELLS	WELLS
WELLS	WELLS	WELLS	WELLS
499B425		SHEET 314	
ATOMIC POWER DIV.		PITTSBURGH, PA. U.S.A.	



NOTES:

SI 17X SI 27X - W 110E059 SH.3
CFIA-L & CFIC-L CONTACTS SHOWN RESET

THIS DWG. SUPERSEDES W. DWG. 499B425 SH.315.

REV.	DATE	BY	CHKD.	APP'D.	DATE
1	7/16/76	QW	RW	QES	7/16/76
2	5/4/76	DWD	CRD	QES	5/4/76
3	5/24/76	BY	CRD	QES	5/24/76
4	5/24/76	BY	CRD	QES	5/24/76
5	5/24/76	BY	CRD	QES	5/24/76
6	5/24/76	BY	CRD	QES	5/24/76
7	5/24/76	BY	CRD	QES	5/24/76
8	5/24/76	BY	CRD	QES	5/24/76
9	5/24/76	BY	CRD	QES	5/24/76
10	5/24/76	BY	CRD	QES	5/24/76

REV.	DATE	BY	CHKD.	APP'D.	DATE
1	7/16/76	QW	RW	QES	7/16/76
2	5/4/76	DWD	CRD	QES	5/4/76
3	5/24/76	BY	CRD	QES	5/24/76
4	5/24/76	BY	CRD	QES	5/24/76
5	5/24/76	BY	CRD	QES	5/24/76
6	5/24/76	BY	CRD	QES	5/24/76
7	5/24/76	BY	CRD	QES	5/24/76
8	5/24/76	BY	CRD	QES	5/24/76
9	5/24/76	BY	CRD	QES	5/24/76
10	5/24/76	BY	CRD	QES	5/24/76

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

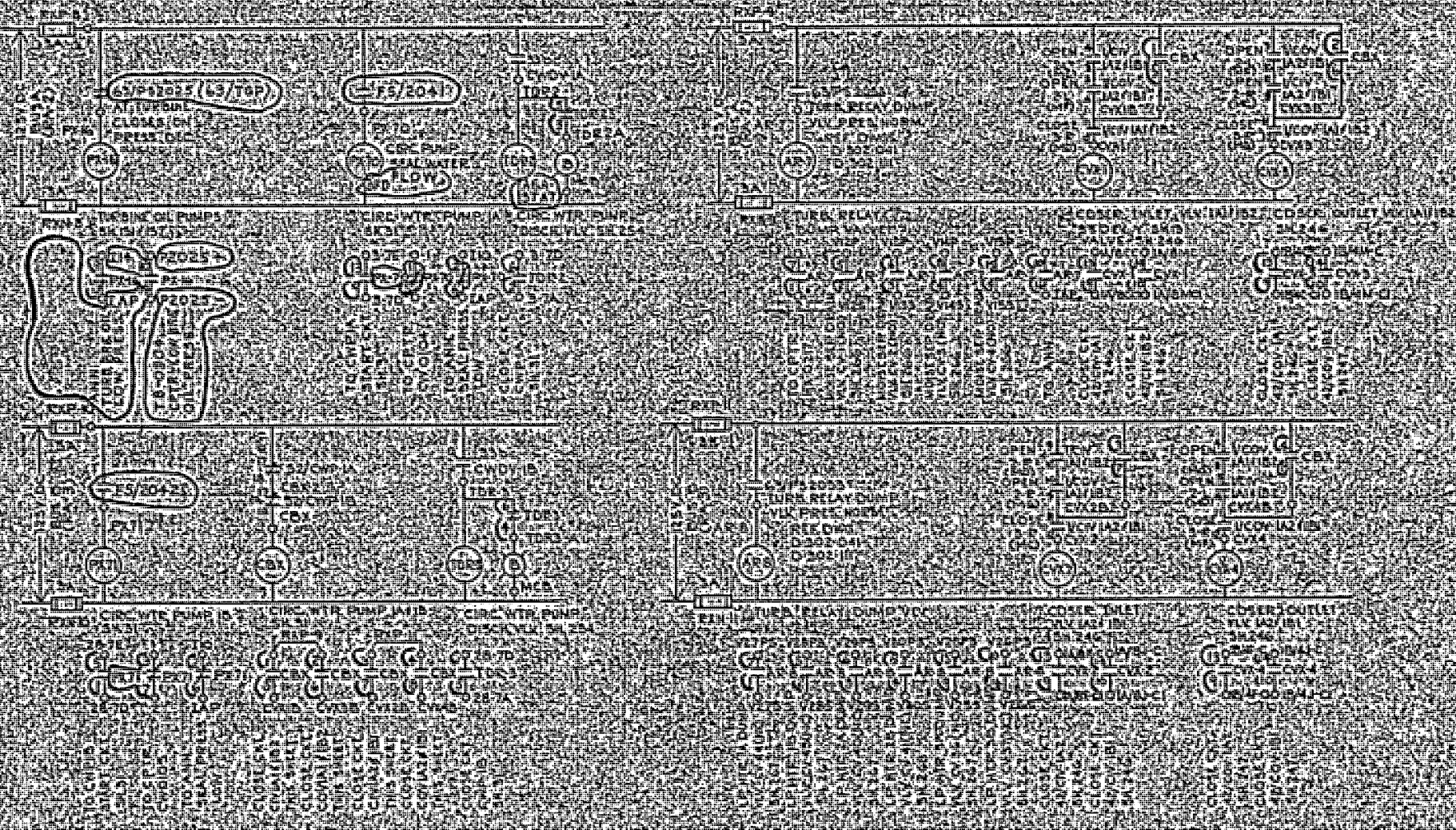
DEPT

ROBERT STREET 400A NUCLEAR POWER STATION


ELECTRIC WIRING DIAGRAM

REACTOR AUXILIARY SYSTEMS

NO. 10905-315A



RECEIVED
JAN 12 1970
FBI - NEW YORK

UNIT 3-20 ENG. 10-20	COP. 1-15 ENG.	S.O. 1-10-20	Westinghouse Electric Corporation				
			TITLE: ROCHESTER GAS & ELECTRIC CORPORATION ROBERT EMMETT GINNA NUCLEAR POWER STATION - UNIT NO. 1				
UNIT 3-20 ENG. 10-20	COP. 1-15 ENG.	S.O. 1-10-20	ELEMENTARY WIRING DIAGRAM		THERMOCOIL RELAYS		

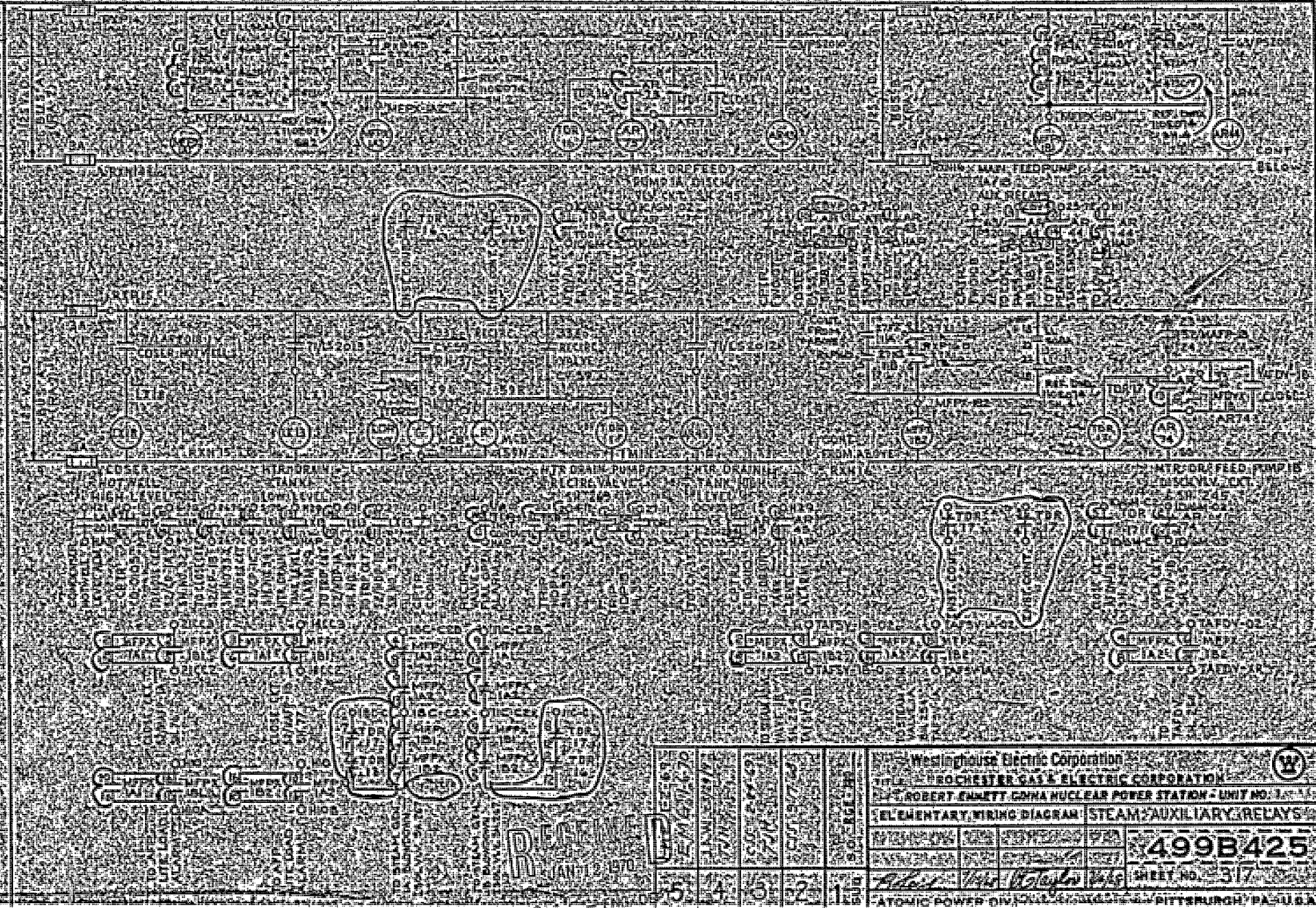
1. The first part of the document is a list of names and their corresponding addresses. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

2. The second part of the document is a table with two columns. The first column is labeled "Name" and the second column is labeled "Address". The table contains the following data:

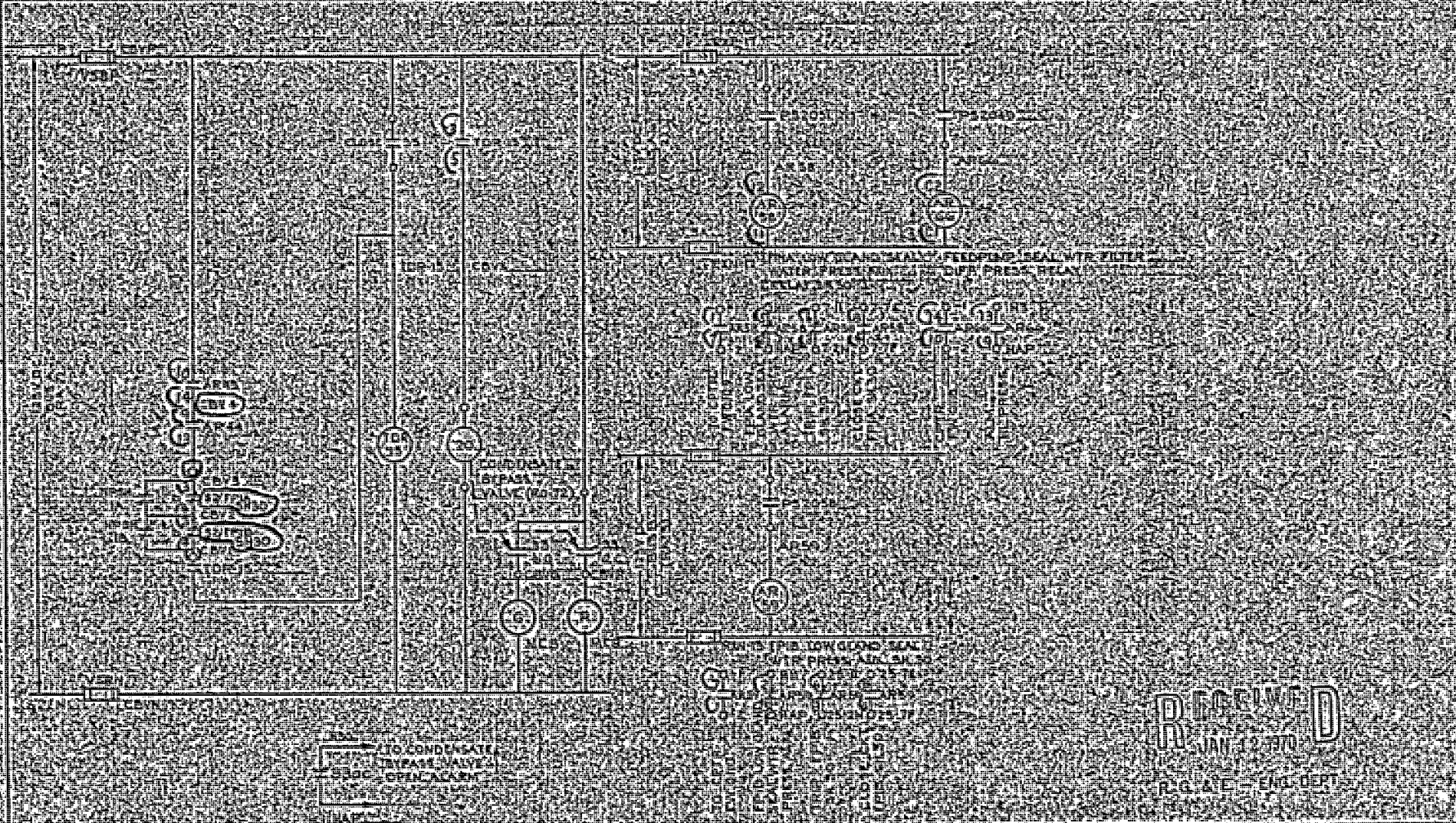
Name	Address
John Doe	123 Main St
Jane Smith	456 Elm St
Bob Johnson	789 Oak St

3. The third part of the document is a paragraph of text. It describes the purpose of the document and the information it contains. It states that the document is a list of names and addresses, and that it is intended to be used for mailing purposes.

4. The fourth part of the document is a list of names and their corresponding addresses. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.



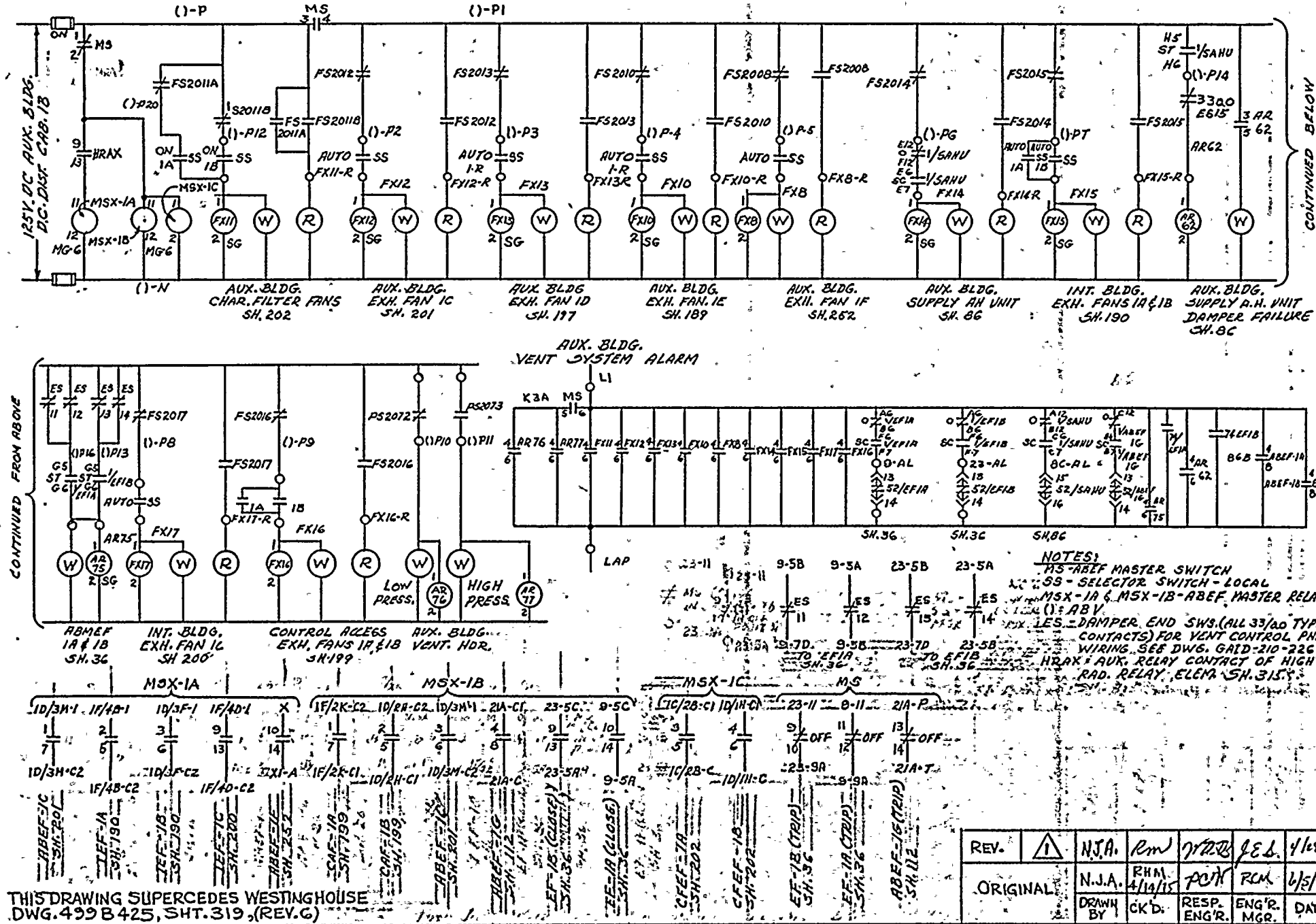
GILBERT ASSOCIATES, INC.
 35 ENGINEERING CONSULTANTS
 100 WEST 42ND STREET, NEW YORK, N.Y.
 4165 55-208704



RECEIVED
 JAN 12 1970
 R.G. & E. - ENG. DEPT.

NOTES:
 1. GVA IS CONTACT NORMALLY CLOSED OPENS ON LOW AIR PRESSURE ACTION.
 2. HEADS BELT ACTION (NOT DOWN TO DOWN) IS A LOW PRESSURE ACTION.
 3. TWO PORTION (AUTO-CLOSED) SAFETY SWITCH (ON) WHICH IS A
 4. 5. TIME DELAY ON DE-ENERGIZING.
 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

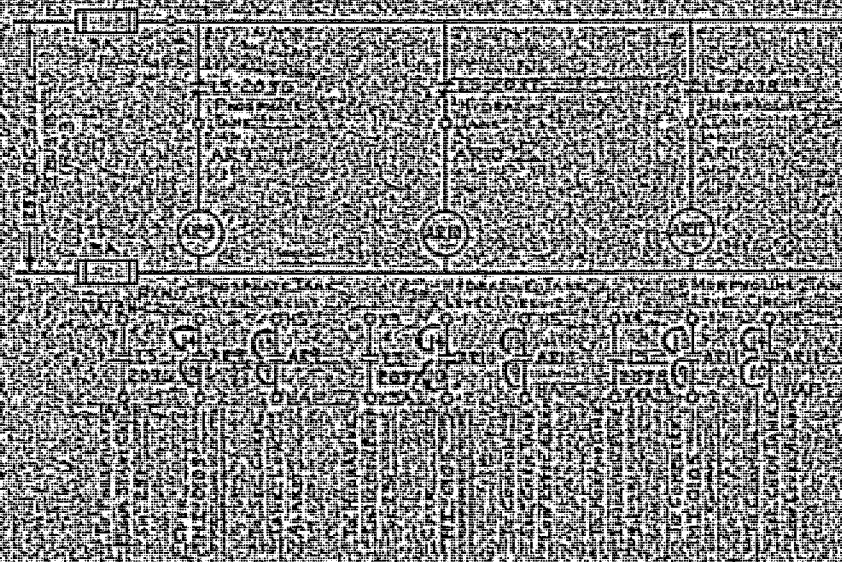
| | | | | | | |
|--|----|----|----|----|------------------|---|
| Westinghouse Electric Corporation | | | | | R | |
| ROCHESTER GAS & ELECTRIC CORPORATION | | | | | R | |
| ROBERT EMMETT CONNA NUCLEAR POWER STATION - UNIT NO. 1 | | | | | R | |
| ELEMENTARY WIRING DIAGRAM | | | | | AUXILIARY RELAYS | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 |
| 499B425 | | | | | SHEET NO. 3/6 | |



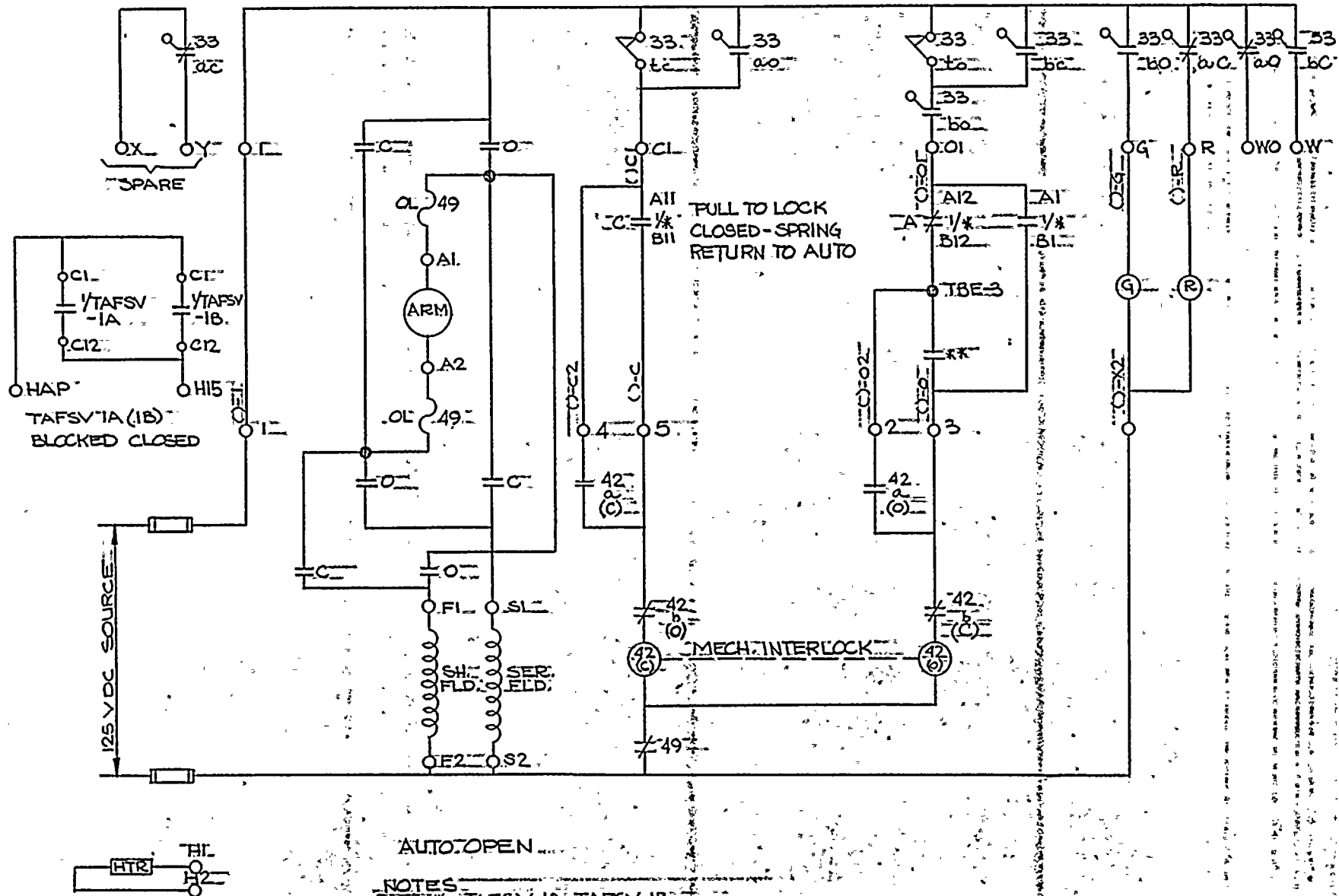
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|----------|------|-------------|-------------|------|-----|---------|
| REV. | 1 | NJA | Rm | WAB | JEL | 4/19/74 |
| ORIGINAL | | NJA | RHM | POH | REM | 6/5/75 |
| DRAWN BY | CK'D | RESP. ENGR. | ENG'R. MGR. | DATE | | |

| | | | |
|---|---------------------|---------------------------|-------------|
| ROCHESTER GAS & ELECTRIC CORP. | ROCHESTER, NEW YORK | DEPT | ENGINEERING |
| ROBERT EMMETT CANNA NUCLEAR POWER STA. UNIT | | ELEMENTARY WIRING DIAGRAM | |
| AUX. BLDG. VENT CONTROL PNL | | CONTINUED BELOW | |
| SCALE | NONE | APPROVED | FOLDER NO. |
| DRAWN | NJA | DATE | JUN 1974 |
| TRACED | | | |
| DESIGNED | | | |
| CHECKED | | | |
| JOE NO. | 10045-210A | | |

GILBERT ASSOCIATES, INC.
 ENGINEERING AND CONSULTING
 1100 N. 10TH ST., SUITE 100
 PITTSBURGH, PA 15212
 TEL: 412-281-1155 FAX: 412-281-1156



| | | | | | |
|--|----------|--------------------------------------|-------------------|--|-------------------|
| Westinghouse Electric Corporation | | ROCHESTER GAS & ELECTRIC CORPORATION | | ROBERT EMMETT GONNA NUCLEAR POWER STATION - UNIT NO. 1 | |
| ELEMENTARY WIRING DIAGRAM | | WTC TREATMENT AUX. RELAYS | | 499B425 | |
| DATE | 12/27/79 | BY | W. J. [Signature] | CHECKED | W. J. [Signature] |
| NO. | 1 | REV. | | SHEET NO. | 32 |
| ATOMIC POWER DIV. PITTSBURGH, PA, U.S.A. | | | | | |



NOTES

* - TAFSV-1A, TAFSV-1B
 1/2 - SEE DEV. SH. 329, FIG. 6, DET. 6
 C - MAIN CONTACT, CLOSE CIRCUIT
 OPEN-AUTO-CLOSE, SEL. SW.
 SPRING RETURN TO AUTO

| REV. | BY | CHKD | APPD | DATE |
|----------|---------|---------|------|---------|
| ORIGINAL | DWN | BY | RES | ENG |
| | 8/15/76 | 8-10-76 | QEL | 8/10/76 |
| | ENG | ENG | ENG | DATE |

ROCHESTER GAS & ELECTRIC CORP.
 ROCHESTER, NEW YORK

ENGINEERING
 10905-322

ROBERT EMMETT GINA NUCLEAR POWER STATION UNIT
 ELEMENTARY WIRING DIAGRAM

DC MOTOR OPERATED VALVE

DATE
 BY
 DRAWN
 TRACED
 CHECKED
 APPROVED
 FOLDER NO.
 JOB NO.

WILSON ASSOCIATES, INC.
ENGINEERS AND CONSULTANTS
TRAVERA, N.Y. 11785
TELEPHONE 335-208-312
FAX 335-208-312

DATE: 12/1/80
BY: J. J. J.
CHECKED: J. J. J.
APPROVED: J. J. J.

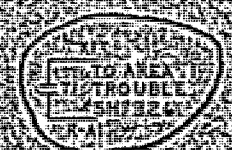
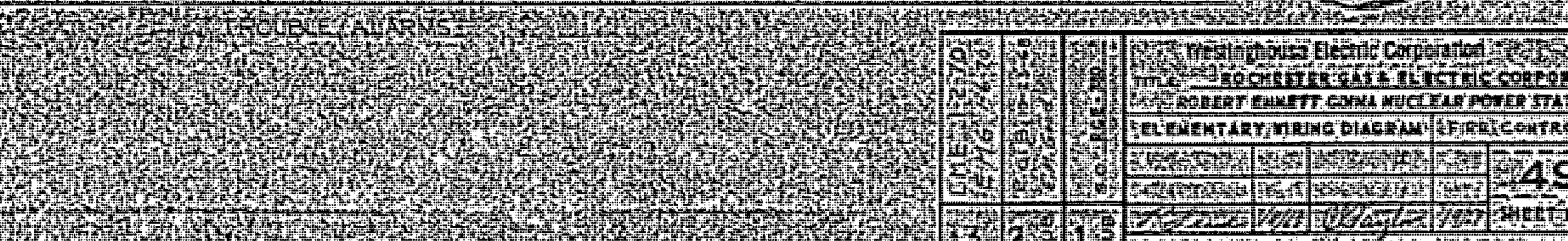
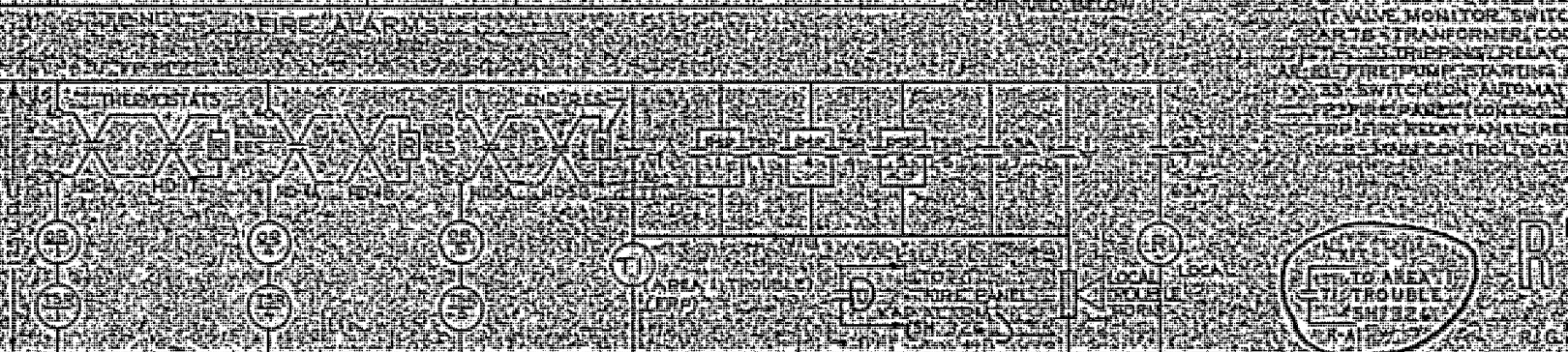
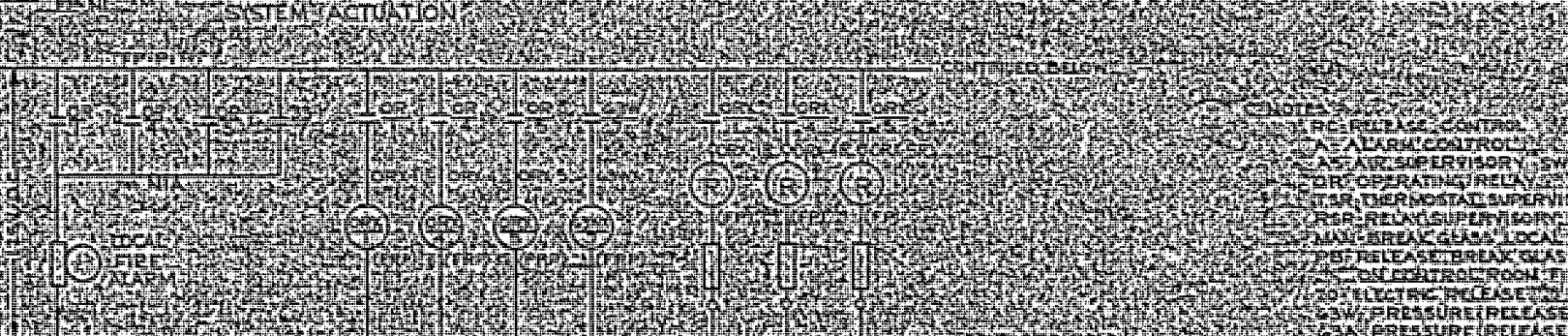
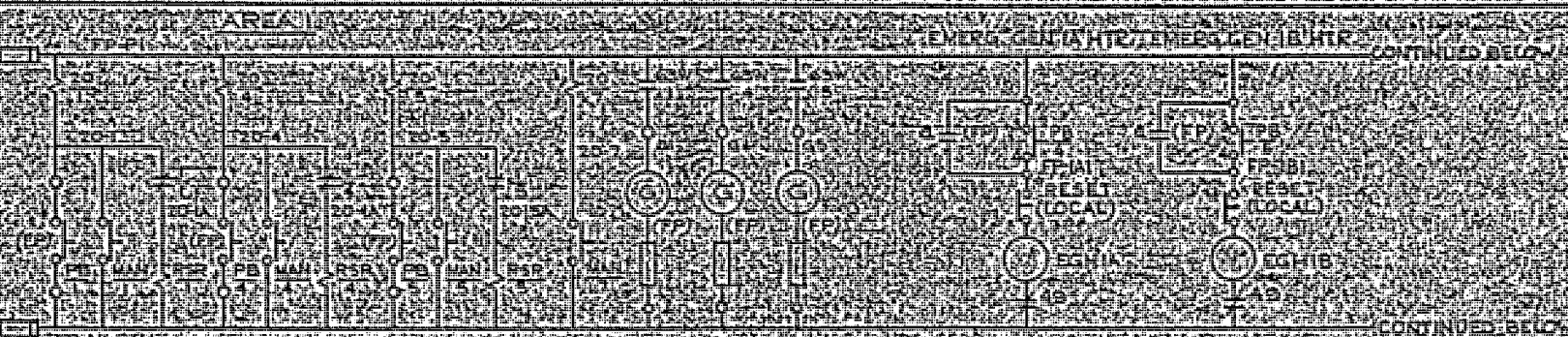
PROJECT: 499B425
SHEET: 325

REVISIONS:
1. 12/1/80 J. J. J. 1. 12/1/80 J. J. J.

1. 12/1/80 J. J. J. 1. 12/1/80 J. J. J.

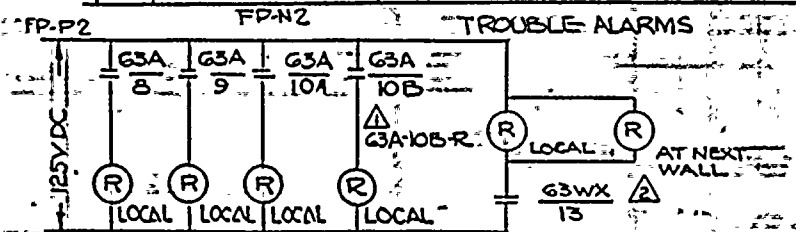
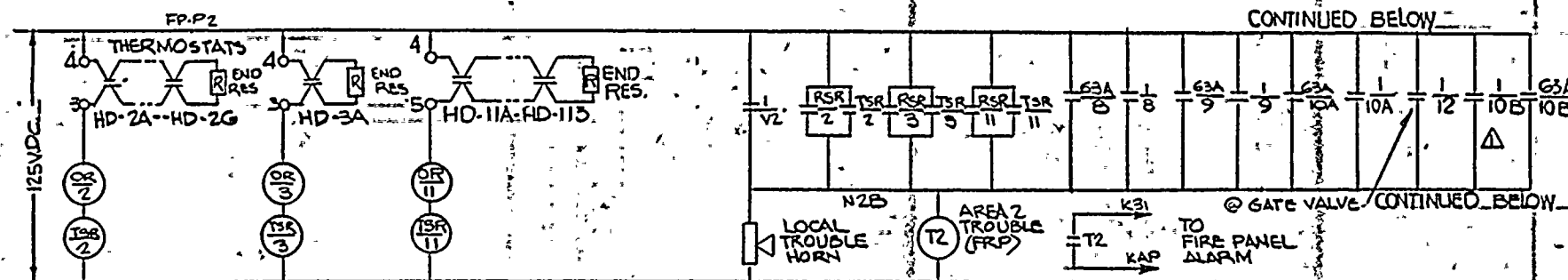
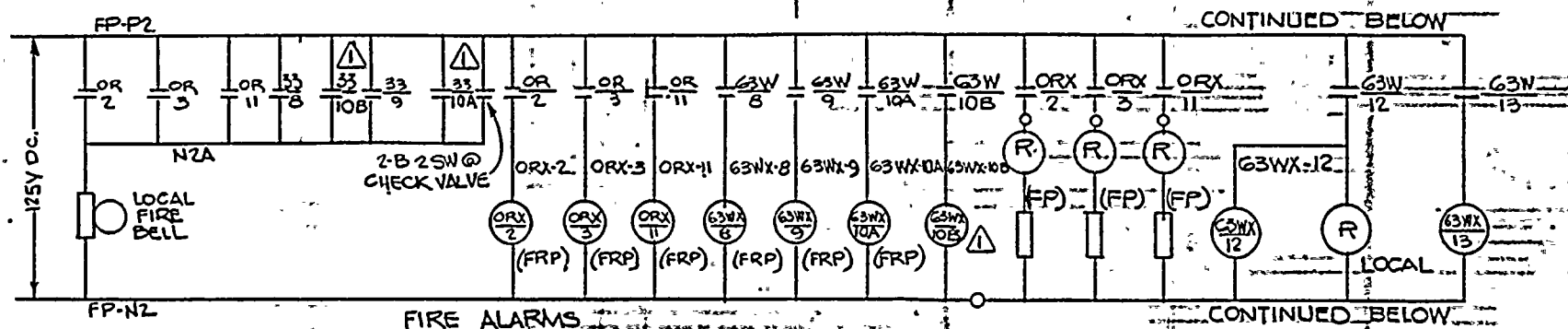
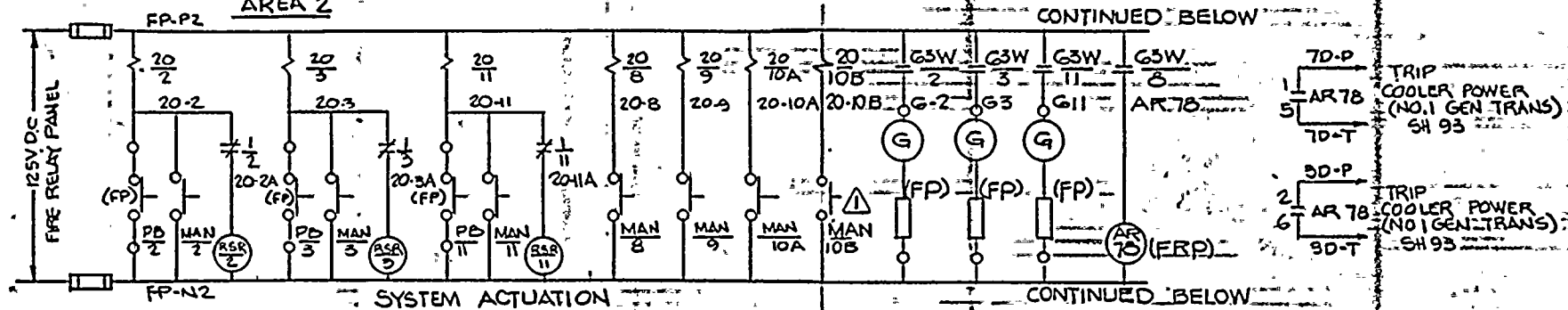
1. 12/1/80 J. J. J. 1. 12/1/80 J. J. J.

1. 12/1/80 J. J. J. 1. 12/1/80 J. J. J.



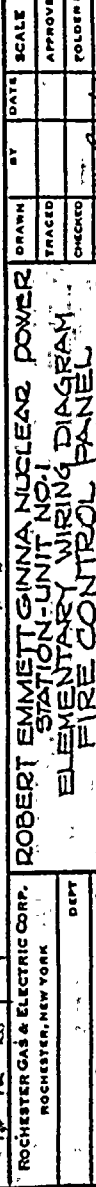
RECEIVED
JAN 12 1981
R. G. E. - ENG. DEPT.

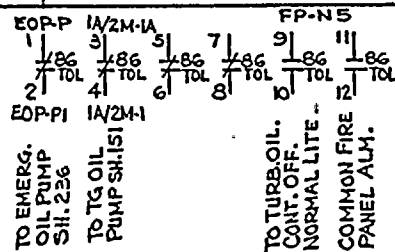
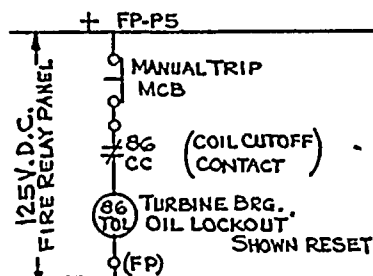
| | | | |
|--|--------------|--|--------------------|
| Westinghouse Electric Corporation | | ROCHESTER GAS & ELECTRIC CORPORATION | |
| PROJECT: ROBERT ENNETT COMA NUCLEAR POWER STATION - UNIT NO. 1 | | ELEMENTARY WIRING DIAGRAM - FIRE CONTROL PANEL | |
| DATE: 12/1/80 | BY: J. J. J. | CHECKED: J. J. J. | APPROVED: J. J. J. |
| 3 | 2 | 1 | 0 |
| 499B425 | | SHEET NO. 325 | |



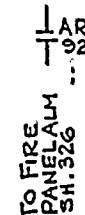
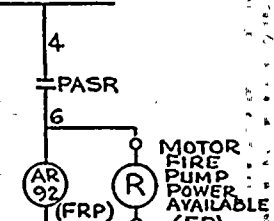
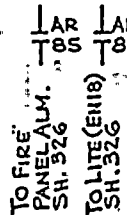
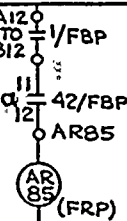
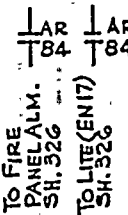
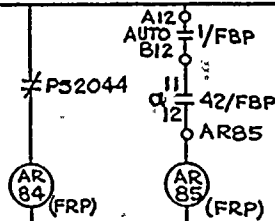
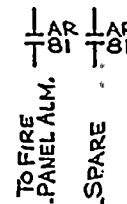
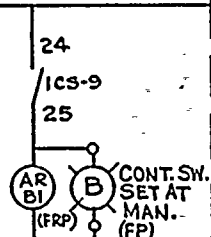
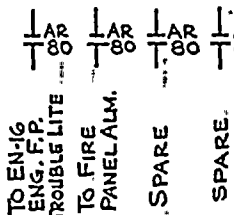
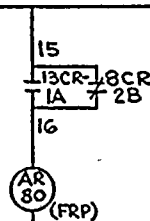
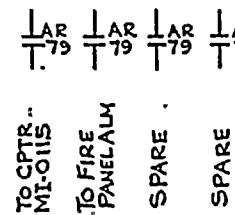
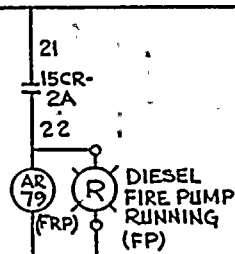
NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH 324

[illegible]

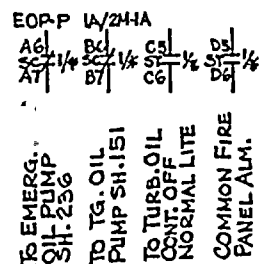




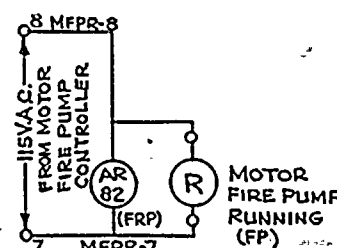
TURBINE BEARING OIL LOCKOUT



DIESEL DRIVEN FIRE PUMP AUX. RELAYS
(REFERENCE KING-KNIGHT DWG. 59-01)



TURBINE BEARING OIL TRIP SWITCH (TOT)



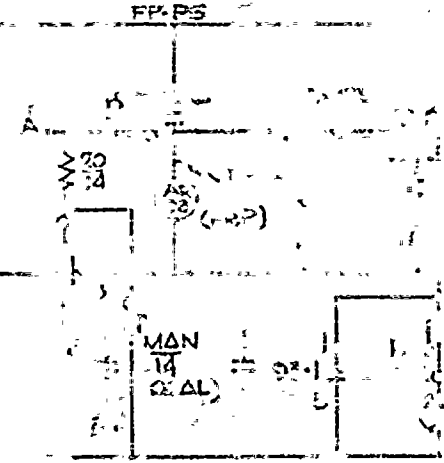
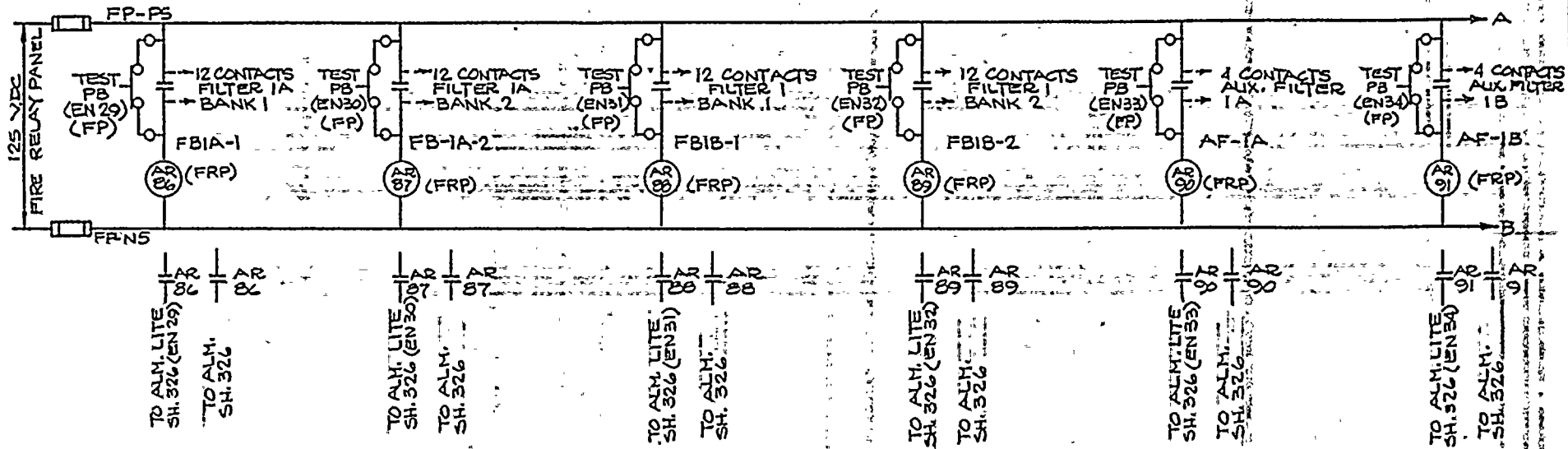
NOTES:
THIS DWG. SUPERCEDES WESTINGHOUSE
DWG. No 499 B 425, SH. 327 (REV. 3)

| REV. | DATE | BY | CHK'D. | ENG'R. | DATE |
|------|---------|-----|--------|--------|------|
| 1 | 6/5/75 | REN | REN | ENG'R. | DATE |
| 2 | 9/15/75 | DRY | DRY | ENG'R. | DATE |
| 3 | 9/15/75 | DRY | DRY | ENG'R. | DATE |
| 4 | 9/15/75 | DRY | DRY | ENG'R. | DATE |
| 5 | 9/15/75 | DRY | DRY | ENG'R. | DATE |
| 6 | 9/15/75 | DRY | DRY | ENG'R. | DATE |
| 7 | 9/15/75 | DRY | DRY | ENG'R. | DATE |
| 8 | 9/15/75 | DRY | DRY | ENG'R. | DATE |
| 9 | 9/15/75 | DRY | DRY | ENG'R. | DATE |
| 10 | 9/15/75 | DRY | DRY | ENG'R. | DATE |

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT No. 1
ELEMENTARY WIRING DIAGRAM
FIRE CONTROL PANEL

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING
DEPT
NO 10925-327

DATE 9/15/75
SCALE NONE
APPROVED
FOLDER NO.
JOB NO.



TO ALM. LITE SH. 326
TO ALM. LITE SH. 326
TO ALM. LITE SH. 326

THIS DWG. SUPERSEDES W. DWG. 409B425 SH. 326

| REV. | BY | CHK'D | RESP. ENGR | DATE |
|------|----|-------|------------|----------|
| 1 | AW | RW | RFA | 4/24/66 |
| 2 | AW | RW | RFA | 5/12/66 |
| 3 | AW | RW | RFA | 5/15/66 |
| 4 | AW | RW | RFA | 5/18/66 |
| 5 | AW | RW | RFA | 5/22/66 |
| 6 | AW | RW | RFA | 5/25/66 |
| 7 | AW | RW | RFA | 5/28/66 |
| 8 | AW | RW | RFA | 6/1/66 |
| 9 | AW | RW | RFA | 6/4/66 |
| 10 | AW | RW | RFA | 6/7/66 |
| 11 | AW | RW | RFA | 6/10/66 |
| 12 | AW | RW | RFA | 6/13/66 |
| 13 | AW | RW | RFA | 6/16/66 |
| 14 | AW | RW | RFA | 6/19/66 |
| 15 | AW | RW | RFA | 6/22/66 |
| 16 | AW | RW | RFA | 6/25/66 |
| 17 | AW | RW | RFA | 6/28/66 |
| 18 | AW | RW | RFA | 7/1/66 |
| 19 | AW | RW | RFA | 7/4/66 |
| 20 | AW | RW | RFA | 7/7/66 |
| 21 | AW | RW | RFA | 7/10/66 |
| 22 | AW | RW | RFA | 7/13/66 |
| 23 | AW | RW | RFA | 7/16/66 |
| 24 | AW | RW | RFA | 7/19/66 |
| 25 | AW | RW | RFA | 7/22/66 |
| 26 | AW | RW | RFA | 7/25/66 |
| 27 | AW | RW | RFA | 7/28/66 |
| 28 | AW | RW | RFA | 7/31/66 |
| 29 | AW | RW | RFA | 8/3/66 |
| 30 | AW | RW | RFA | 8/6/66 |
| 31 | AW | RW | RFA | 8/9/66 |
| 32 | AW | RW | RFA | 8/12/66 |
| 33 | AW | RW | RFA | 8/15/66 |
| 34 | AW | RW | RFA | 8/18/66 |
| 35 | AW | RW | RFA | 8/21/66 |
| 36 | AW | RW | RFA | 8/24/66 |
| 37 | AW | RW | RFA | 8/27/66 |
| 38 | AW | RW | RFA | 8/30/66 |
| 39 | AW | RW | RFA | 9/2/66 |
| 40 | AW | RW | RFA | 9/5/66 |
| 41 | AW | RW | RFA | 9/8/66 |
| 42 | AW | RW | RFA | 9/11/66 |
| 43 | AW | RW | RFA | 9/14/66 |
| 44 | AW | RW | RFA | 9/17/66 |
| 45 | AW | RW | RFA | 9/20/66 |
| 46 | AW | RW | RFA | 9/23/66 |
| 47 | AW | RW | RFA | 9/26/66 |
| 48 | AW | RW | RFA | 9/29/66 |
| 49 | AW | RW | RFA | 10/2/66 |
| 50 | AW | RW | RFA | 10/5/66 |
| 51 | AW | RW | RFA | 10/8/66 |
| 52 | AW | RW | RFA | 10/11/66 |
| 53 | AW | RW | RFA | 10/14/66 |
| 54 | AW | RW | RFA | 10/17/66 |
| 55 | AW | RW | RFA | 10/20/66 |
| 56 | AW | RW | RFA | 10/23/66 |
| 57 | AW | RW | RFA | 10/26/66 |
| 58 | AW | RW | RFA | 10/29/66 |
| 59 | AW | RW | RFA | 11/1/66 |
| 60 | AW | RW | RFA | 11/4/66 |
| 61 | AW | RW | RFA | 11/7/66 |
| 62 | AW | RW | RFA | 11/10/66 |
| 63 | AW | RW | RFA | 11/13/66 |
| 64 | AW | RW | RFA | 11/16/66 |
| 65 | AW | RW | RFA | 11/19/66 |
| 66 | AW | RW | RFA | 11/22/66 |
| 67 | AW | RW | RFA | 11/25/66 |
| 68 | AW | RW | RFA | 11/28/66 |
| 69 | AW | RW | RFA | 12/1/66 |
| 70 | AW | RW | RFA | 12/4/66 |
| 71 | AW | RW | RFA | 12/7/66 |
| 72 | AW | RW | RFA | 12/10/66 |
| 73 | AW | RW | RFA | 12/13/66 |
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| 75 | AW | RW | RFA | 12/19/66 |
| 76 | AW | RW | RFA | 12/22/66 |
| 77 | AW | RW | RFA | 12/25/66 |
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| 79 | AW | RW | RFA | 12/31/66 |
| 80 | AW | RW | RFA | 1/3/67 |
| 81 | AW | RW | RFA | 1/6/67 |
| 82 | AW | RW | RFA | 1/9/67 |
| 83 | AW | RW | RFA | 1/12/67 |
| 84 | AW | RW | RFA | 1/15/67 |
| 85 | AW | RW | RFA | 1/18/67 |
| 86 | AW | RW | RFA | 1/21/67 |
| 87 | AW | RW | RFA | 1/24/67 |
| 88 | AW | RW | RFA | 1/27/67 |
| 89 | AW | RW | RFA | 1/30/67 |
| 90 | AW | RW | RFA | 2/2/67 |
| 91 | AW | RW | RFA | 2/5/67 |
| 92 | AW | RW | RFA | 2/8/67 |
| 93 | AW | RW | RFA | 2/11/67 |
| 94 | AW | RW | RFA | 2/14/67 |
| 95 | AW | RW | RFA | 2/17/67 |
| 96 | AW | RW | RFA | 2/20/67 |
| 97 | AW | RW | RFA | 2/23/67 |
| 98 | AW | RW | RFA | 2/26/67 |
| 99 | AW | RW | RFA | 2/29/67 |
| 100 | AW | RW | RFA | 3/3/67 |

ROBERT EMMETT GUINA NUCLEAR POWER-
STATION-LIMIT. NO. 1
ELEMENTARY WIRING DIAGRAM
FIRE CONTROL PANEL

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

No. 10905-328A

| FIG. 5 | | | | | |
|---------|-------|---|------|---|-----|
| CONTACT | RESET | — | AUTO | — | MAN |
| A11-B11 | X | X | | | |
| A12-B12 | | X | X | X | |
| A1-B1 | | | | X | X |
| A2-B2 | X | X | | X | |
| A3-B3 | | X | X | X | |
| A4-B4 | | | | / | X |
| A5-B5 | X | X | | | |
| A6-B6 | | X | X | X | |
| A7-B7 | | | | X | X |
| A8-B8 | X | X | | X | |
| A9-B9 | | X | X | X | |
| A10-B10 | | | | X | X |
| C11-D11 | X | X | | | |
| C12-D12 | | X | X | X | |
| C1-D1 | | | | X | X |
| C2-D2 | X | X | | | |
| C3-D3 | | X | X | X | |
| C4-D4 | | | | X | X |
| C5-D5 | X | X | | | |
| C6-D6 | | X | X | X | |
| C7-D7 | | | | X | X |
| C8-D8 | X | X | | | |
| C9-D9 | | X | X | X | |
| C10-D10 | | | | X | X |
| E11-F11 | X | | | | |
| E12-F12 | | | X | | |
| E1-F1 | | | | | X |
| E2-F2 | X | | | | |
| E3-F3 | | | X | | |
| E4-F4 | | | | | X |
| E5-F5 | X | | | | |
| E6-F6 | | | X | | |
| E7-F7 | | | | | X |
| E8-F8 | X | | | | |
| E9-F9 | | | X | | |
| E10-F10 | | | | | X |
| G11-H11 | X | | | | |
| G12-H12 | | | X | | |
| G1-H1 | | | | | X |
| G2-H2 | X | | | | |
| G3-H3 | | | X | | |
| G4-H4 | | | | | X |
| G5-H5 | X | | | | |
| G6-H6 | | | X | | |
| G7-H7 | | | | | X |
| G8-H8 | X | | | | |
| G9-H9 | | | X | | |
| G10-H10 | | | | | X |

TYPE W2 S#187A827G01
SPRING RETURN FROM RESET TO AUTO

| FIG. 2 | | | | |
|---------|----------|------|--------|-------------|
| CONTACT | POSITION | | | |
| | BORATE | AUTO | DILUTE | ALT. DILUTE |
| A11-B11 | X | | | |
| A12-B12 | | X | | |
| A1-B1 | | | X | |
| A2-B2 | | | | X |
| A3-B3 | X | | | |
| A4-B4 | | X | | |
| A5-B5 | | | X | |
| A6-B6 | | | | X |
| A7-B7 | X | | | |
| A8-B8 | | X | | |
| A9-B9 | | | X | |
| A10-B10 | | | | X |

TYPE W2 CS MAINTAINED
S#508A343G01

| FIG. 6 | | | | |
|---------|----------|-------|------|------|
| CONTACT | POSITION | | | |
| | PULL OUT | CLOSE | AUTO | OPEN |
| A11-B11 | X | X | | |
| A12-B12 | | | X | |
| A1-B1 | | | | X |
| A5-B5 | X | X | | |
| A6-B6 | | | X | |
| A7-B7 | | | | X |
| C12-D12 | X | | | |
| D12-D1 | | X | X | X |
| C6-C7 | X | | | |
| D6-D7 | | X | X | X |

TYPE "W2" CS
SPRING RETURN TO AUTO
S#508A233G01

NOTES:
"X" INDICATES CONTACT CLOSED IN POSITION SHOWN.

THIS DWG. SUPERCEDES WESTINGHOUSE
DWG. 499.B425, SH. 329 (REV. 4)

| FIG. 3 | | |
|---------|----------|---|
| CONTACT | POSITION | |
| | 'R' | L |
| A12-B12 | X | |
| A1-B1 | | X |
| A2-B2 | X | |
| A3-B3 | | X |
| A4-B4 | X | |
| A5-B5 | | X |
| A6-B6 | X | |
| A7-B7 | | X |
| A8-B8 | X | |
| A8-B9 | | X |
| A10-B10 | X | |
| A11-D11 | | X |
| C12-D12 | X | |
| C1-D1 | | X |
| C2-D2 | X | |
| C3-D3 | | X |
| C4-D4 | X | |
| C5-D5 | | X |
| C6-D6 | X | |
| C7-D7 | | X |
| C8-D8 | X | |
| C9-D9 | | X |
| C10-D10 | X | |
| C11-D11 | | X |

TYPE "W2"
S#505A659G01
HANDLE
S#501B787H01

| FIG. 4 | | | | |
|---------|----------|---|---|---|
| CONTACT | POSITION | | | |
| | 1 | 2 | 3 | 4 |
| A11-B11 | X | | | |
| A12-B12 | | X | | |
| A1-B1 | | | X | |
| A2-B2 | | | | X |
| A3-B3 | X | | | |
| A4-B4 | | X | | |
| A5-B5 | | | X | |
| A6-B6 | | | | X |
| A7-B7 | X | | | |
| A8-B8 | | X | | |
| A9-B9 | | | X | |
| A10-B10 | | | | X |

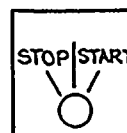
TYPE "W2" (MAINTAINED)
S#508A343G01

| FIG. 1 | | | | | |
|---------|----------|---|-----|---|-------|
| CONTACT | POSITION | | | | |
| | STOP | — | OFF | — | START |
| A11-B11 | X | | | | |
| A12-B12 | | | X | | |
| A1-B1 | | | | | X |
| A5-B5 | X | | | | |
| A6-B6 | | | X | | |
| A7-B7 | | | | | X |
| C11-D11 | X | | | | |
| C12-D12 | | | X | | |
| C1-D1 | | | | | X |
| C5-D5 | X | X | | | |
| C6-D6 | | X | X | X | |
| C7-D7 | | | | X | X |
| E11-F11 | X | X | | | |
| E12-F12 | | X | X | X | |
| E1-F1 | | | | X | X |
| E5-F5 | X | X | | | |
| E6-F6 | | X | X | X | |
| E7-F7 | | | | X | X |

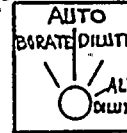
TYPE "W2" CS
3 POS SPRING RETURN TO OFF

| SWITCH | FIG. NO. | DET. |
|-----------|----------|------|
| 1/BS | 1 | 1 |
| 43/BS | 2 | 2 |
| 43/PHBG | 3 | 3 |
| 43/GDS | 4 | 4 |
| 43/SD | 5 | 5 |
| 1/AFSV-1A | 6 | 6 |
| 1/AFSV-1B | 6 | 6 |

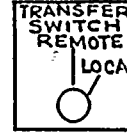
DET. 1



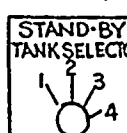
DET. 2



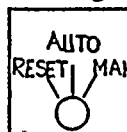
DET. 3



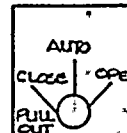
DET. 4



DET. 5



DET. 6

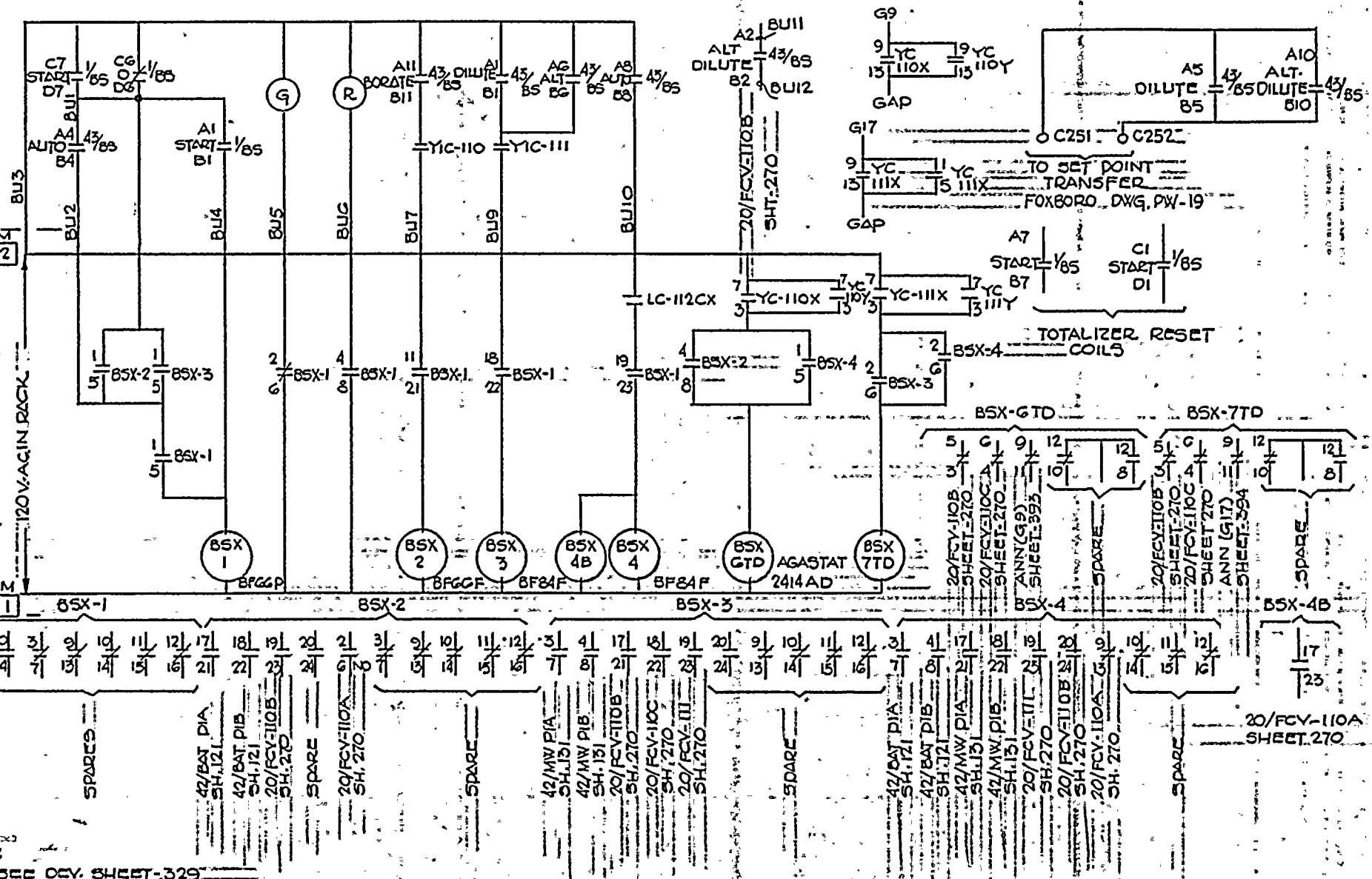


| REV. | DATE | BY | CHK'D | APP'D | DATE |
|----------|---------|------|------------|-----------|------|
| ORIGINAL | 4/14/75 | CK'D | RESP. ENGR | ENG'R MGR | DATE |

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
SWITCH DEVELOPMENT

CONTROL BOARD

MISC. RELAY RACK
DWG. 1105074 SH.2



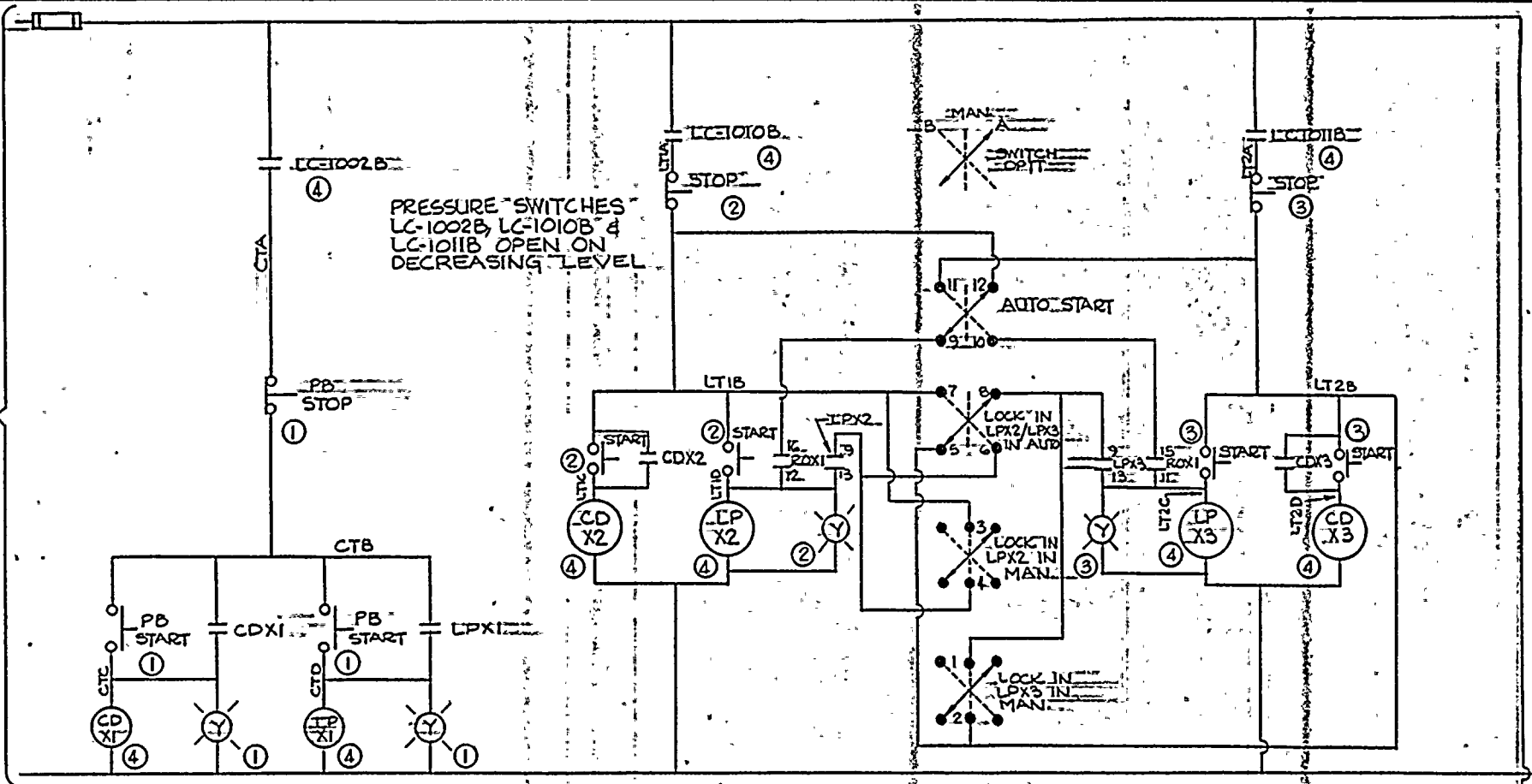
NOTE:
1/BS SEE DEV. SHEET-329
45/BS SEE DEV. SHEET-329

THIS DRAWING SUPERCEDES WESTINGHOUSE DWG.4995425 SH.330

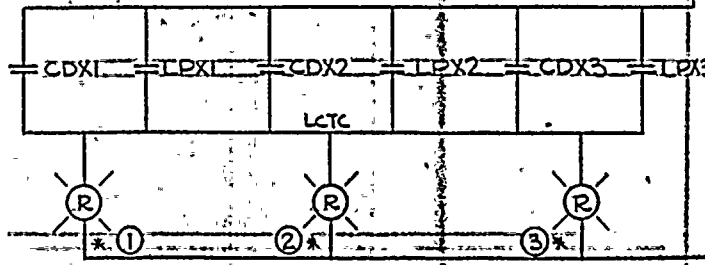
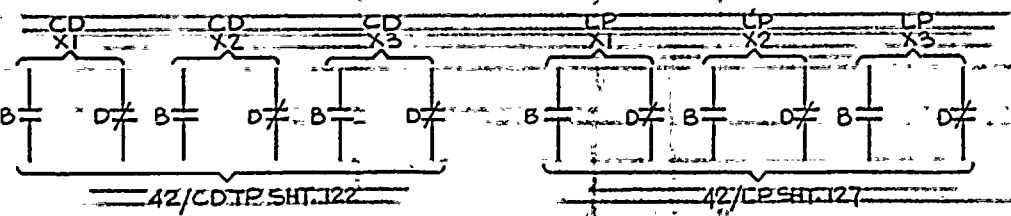
| REV. | | | | | |
|----------|----------|-----|-------------|-------------|-------|
| ORIGINAL | DH. | RW | PPA | REL | 5/4/6 |
| | drawn by | ckd | resp. engr. | eng'r Mag'r | date |

| | | | | | |
|---|-----|--|------|--------------------------|------------|
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | ROBERT EMMETT GINNA NUCLEAR
POWER STATION UNIT NO.1 | | ELEMNTARY WIRING DIAGRAM | |
| ENGR. DEPT | NO. | SCALE | 5/8" | APPROVED | FOLDER NO. |
| | | DRAWN | DH | TRACED | ENG. NO. |
| | | DESIGNED | | CHECKED | |

118 VAC



PRESSURE SWITCHES
LC-1002B, LC-1010B &
LC-1011B OPEN ON
DECREASING LEVEL

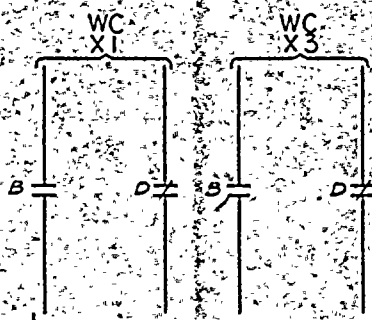
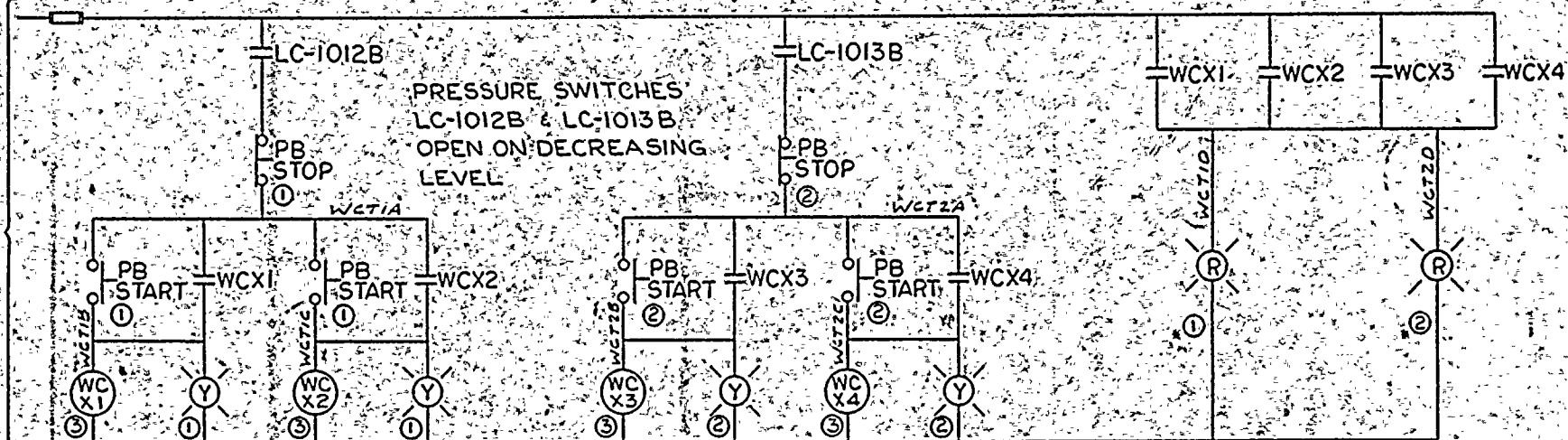


- NOTES:
- ① MOUNT LOCALLY BY CHEM. DR. TK.
 - ② MOUNT LOCALLY BY LAUNDRY TK.1
 - ③ MOUNT LOCALLY BY LAUNDRY TK.2
 - ④ BORON RECYCLE & WASTE DISPOSAL PANEL
 - * LABEL "TANK CONTROL IN OPERATION"

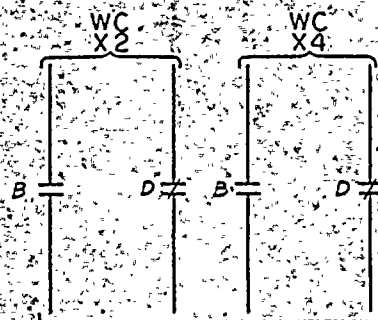
LC-1010B LAUNDRY TANK 'A' LOW LEVEL CUTOUT
LC-1011B LAUNDRY TANK 'B' LOW LEVEL CUTOUT
ROXI R.O. FEED TANK LEVEL LOW
LPX2 & LPX3 MAINTAINING CONTACTS
THIS DWG. SUPERSEDES W. DWG. 499B425 SH.331

| | | | | | | | |
|--|--|--|--|---|--|--|--|
| ELEMENTARY WIRING DIAGRAM
LAUNDRY & CHEMICAL DRAIN TANK
PUMP CONTROL | | | | ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | | |
| FACILITY: GINNA STA. | | | | DRAWING NO. 10905-331 | | | |
| SCALE: NONE | | | | REV. A | | | |
| JOB NO. 499B425 | | | | DATE 5/2/77 | | | |
| DRAWN BY: [Signature] | | | | CHECKED BY: [Signature] | | | |
| INITIAL: [Signature] | | | | REVISION: [Signature] | | | |
| ORIGINAL | | | | NUMBER | | | |

118 VAC



42/WCP1A SHT.137



42/WCP2B SHT.137

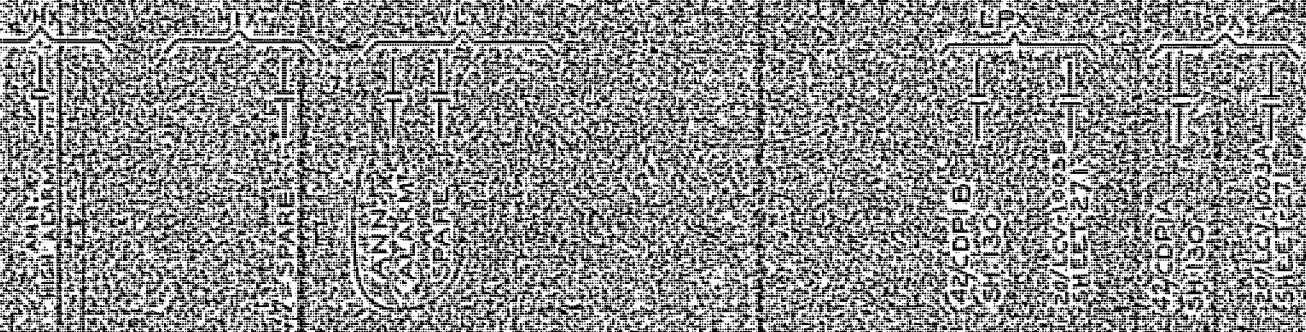
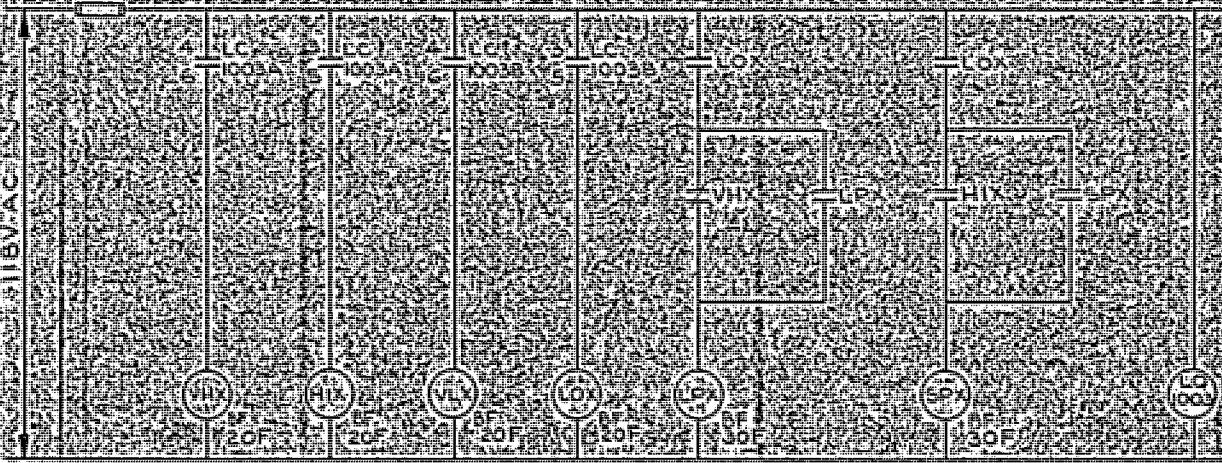
THIS DRAWING IS NOT AN ORIGINAL

NOTES:

- ① MOUNT LOCALLY BY WASTE COND. TANK NO. 1
- ② MOUNT LOCALLY BY WASTE COND. TANK NO. 2
- ③ BORON RECYCLE & WASTE DISPOSAL PANEL
- * LABEL "TANK CONTROL" IN OPERATION

| | | | | | |
|-----------------------------------|--|--------------|--|--|--|
| SFO 4-25/69
5/27/69
5/27/69 | | SO. REG. 380 | | Westinghouse Electric Corporation | |
| 1 | | SUB | | ROCHESTER GAS & ELECTRIC CORP. | |
| 1 | | SUB | | ROBERT EMMETT GINNA NUCLEAR STATION UNIT NO. 1 | |
| 1 | | SUB | | ELEMENTARY WIRING DIAGRAM | |
| 1 | | SUB | | WASTE CONDENSATE PUMP CONTROL | |
| 1 | | SUB | | J. BELSICK 5/25/68 | |
| 1 | | SUB | | R. WILSON 5/27/68 | |
| 1 | | SUB | | 499B425 | |
| 1 | | SUB | | SHEET-332 | |
| 1 | | SUB | | ATOMIC POWER DIV. | |
| 1 | | SUB | | PITTSBURGH, PA. U.S.A. | |

BORON RECYCLE/WASTE DISPOSAL PNL
118V-AC



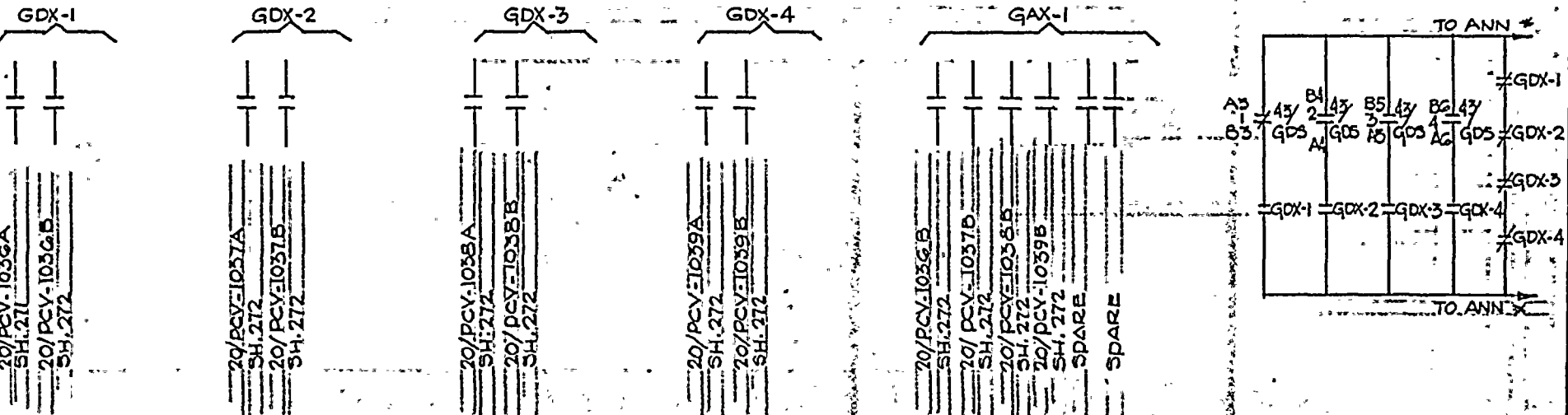
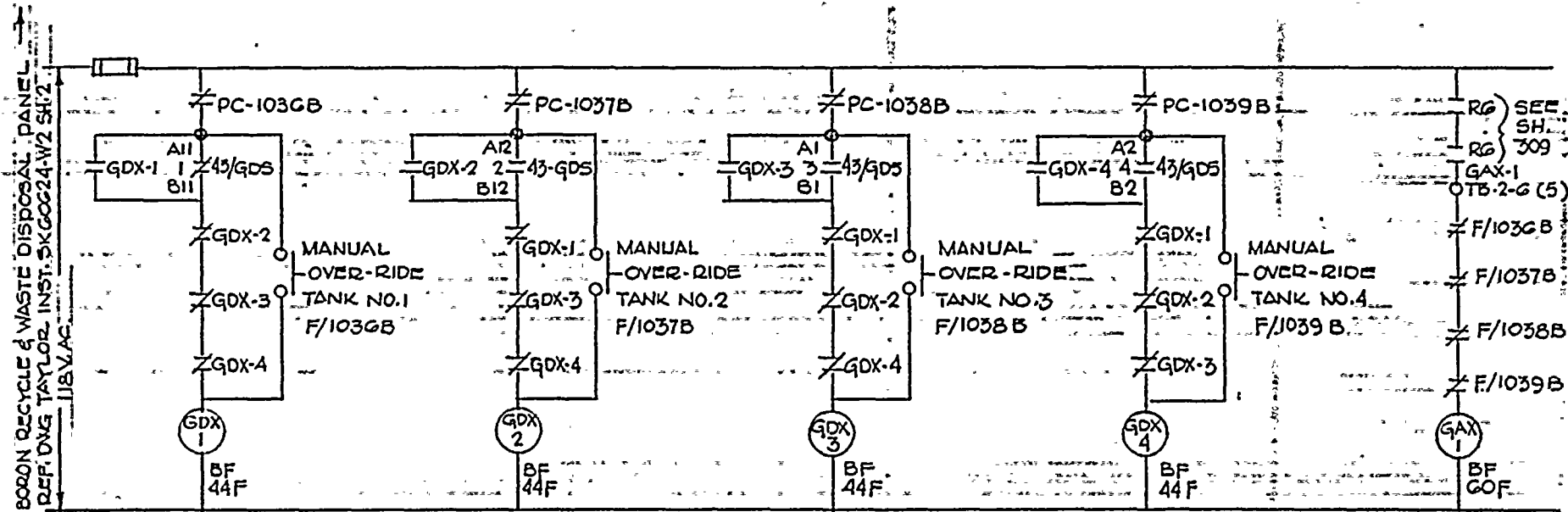
NOTE:

LOCATED ON BORON RECYCLE AND WASTE DISPOSAL PANEL
REF. DWG. TAYLOR INST. SK 60624-WI. SH. 2

RECEIVED
DEC 9 1958
ELECTRICAL ENG. DEPT.

THIS DRAWING IS NOT AN ORIGINAL

| | | | | | |
|-----------------------------------|------|--------------------------------|------|--|------|
| Westinghouse Electric Corporation | | ROCHESTER GAS & ELECTRIC CORP. | | ROBERT EMMETT GINNA NUCLEAR STATION UNIT NO. 1 | |
| ELEMENTARY WIRING DIAG. | | FEEDER CORD ANT. TRAIN | | PANEL CONTROL | |
| IBELSLICK | 12/1 | 12/1 | 12/1 | 12/1 | 12/1 |
| R. WILSON | 12/1 | 12/1 | 12/1 | 12/1 | 12/1 |
| 499B425 | | | | SHEET 333 | |
| ATOMIC POWER DIV. | | | | PITTSBURGH, PA. U.S.A. | |



NOTE:

PC-103GB OPEN ON INC. PRESS

43/GDS SEE DEV. SHEET-329

F/103GB, 37B, 38B, 39B DEV. E SH.314

* - BORON RECYCLE AND WASTE DISPOSAL PANEL

THIS DWG. SUPERCEDES WESTINGHOUSE DWG. 499B425 SH.334

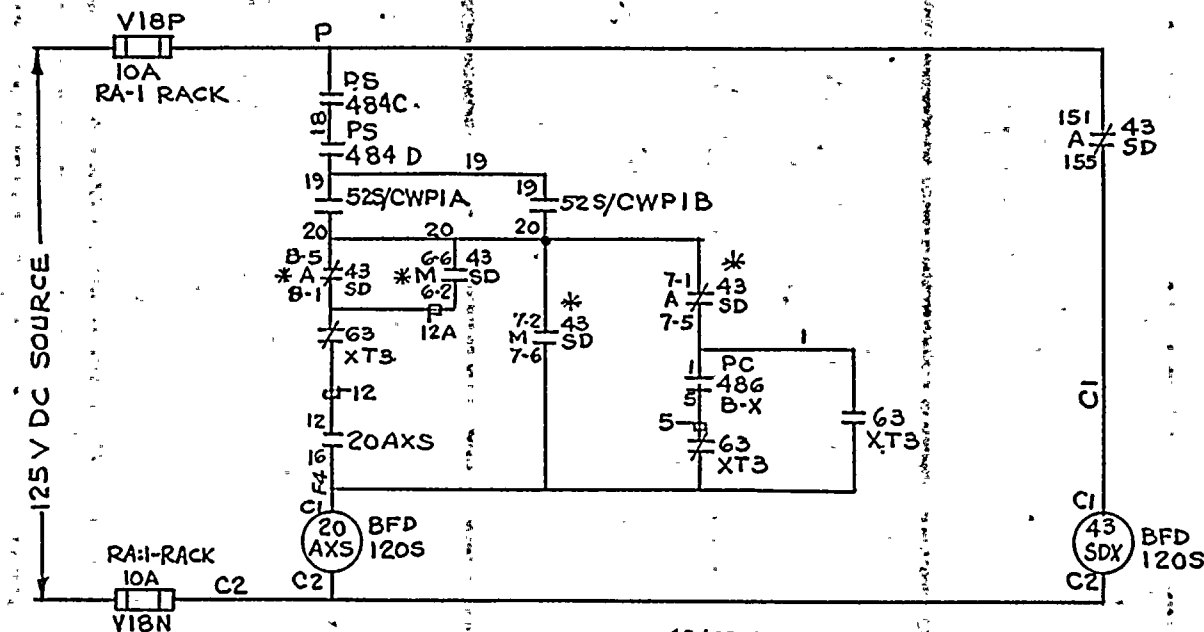
| REV. | | | | | |
|----------|--------|--------|--------|------|--------|
| ORIGINAL | DATE | BY | CHK'D | ENGR | DATE |
| | 5/1/72 | R.P.A. | R.P.A. | engr | 5/1/72 |

ROBERT EMMETT GINNA NUCLEAR
POWER STATION-UNIT NO.1
ELEMENTARY WIRING DIAGRAM

DATE SCALE
5/1/72 432

NAME TRACER
FOLDER NO.

ENG'R DEPT
PAGE 334



| 2C/AXS | | | | | | | | | | | |
|--------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|
| 11 | 21 | 31 | 41 | 17 | 18 | 19 | 20 | 9 | 10 | 11 | |
| 5 | 6 | 7 | 8 | 21 | 22 | 23 | 24 | 13 | 14 | 15 | |
| 20/1A1 | SH 275 | 20/1A2 | SH 275 | 20/1A3 | SH 275 | 20/1A4 | SH 275 | 20/1B1 | SH 275 | 20/1B2 | SH 275 |
| 20/1B3 | SH 275 | 20/1B4 | SH 275 | ANN (G15) | SH 394 | SPARES | | | | | |

| 43/SDX | | | | | | | | | | | |
|--------|--------|-------|--------|--------|--------|-------|--------|-------|--------|-------|--------|
| 11 | 21 | 31 | 41 | 17 | 18 | 19 | 20 | 9 | 10 | 11 | 12 |
| 5 | 6 | 7 | 8 | 21 | 22 | 23 | 24 | 13 | 14 | 15 | 16 |
| 20/A1 | SH 266 | 20/A2 | SH 266 | 20/A3 | SH 266 | 20/A4 | SH 266 | 20/B1 | SH 267 | 20/B2 | SH 267 |
| 20/B3 | SH 267 | 20/B4 | SH 267 | SPARES | | | | | | | |

NOTES:
43/SD. SEE DEV. SH 329 ON CONTROL BOARD.

* MAKE BEFORE BREAK CONTACTS

PS484C & PS484D AT CONDENSERS

52S/CWP1A & 1B SH. 31

63XT3 SHT 114

PC486B-X DWG. 110E074 SHT 4

20AXS & 43SDX DWG. 110E074 SH 4

THIS DWG. SUPERCEDES WESTINGHOUSE

DWG. 499B425, SH. 336 (REV. 5)

8-5 (815 DECK NO. 5)
51 TERM. NO.)

| REV. | | | | | | |
|----------|---------|-------------|-----------|------|--------|--|
| ORIGINAL | 4/14/75 | RHM | 20K | RCN | 6/5/75 | |
| DRAWN BY | CK'D. | RESP. ENG'R | ENG'R MGR | DATE | | |

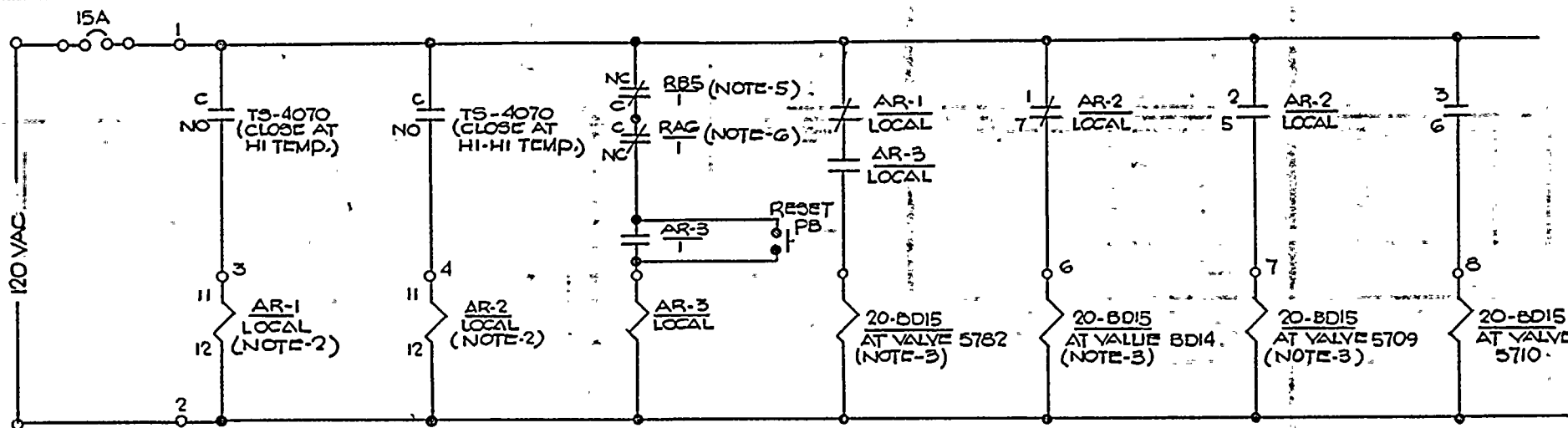
ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT
NO. 11015-336

ROBERT EMMETT GINNA NUCLEAR POWER
STATION, UNIT, No. 1

ELEMENTARY WIRING DIAGRAM
STEAM DUMP AUX. RELAYS

DATE 4/14/75
DRAWN BY RHM
CHECKED BY 20K
APPROVED BY RCN
FOLDER NO.
JOB NO.

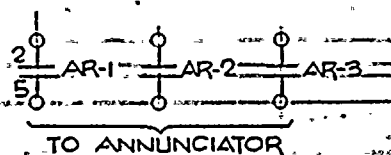


NOTES:

- 1- RELAY AR-3 ARE WESTINGHOUSE TYPE MG-6 WITHOUT MANUAL RESET.
- 2- RELAYS AR-1 AND AR-2 ARE WESTINGHOUSE TYPE MG-6 WITH GLASS WINDOW COVER AND MANUAL RESET; STYLE #289B3G1A17
- 3- SOLENOIDS ARE ASCO #8320A107
- 4- TEMPERATURE SWITCH TS 4070 IS A IIE, SERIES 800-02-785
- 5- CONTACT RB5-1 OPENS DURING DEMINERALIZER UNIT-B REGENERATION, ILLINOIS DWG. PE-2045-15D SH.2
- 6- CONTACT RAG-1 OPENS DURING DEMINERALIZER UNIT-A REGENERATION, ILLINOIS DWG. PE-2045-15D SH.2

REFERENCE DWGS:

CIRCUIT SCHEDULE S-212-013 (W35)
 PIPING FLOW: DIAGRAM D-381-106



| REV. | DATE | BY | CHK'D | RECD | ENGR | DATE |
|----------|----------|---------|---------|---------|---------|---------|
| 1 | 9/13/76 | EWR/lgs | 9/13/76 | 9/13/76 | 9/13/76 | 9/13/76 |
| ORIGINAL | DRAWN BY | CK'D | RECD | ENGR | MANA | DATE |

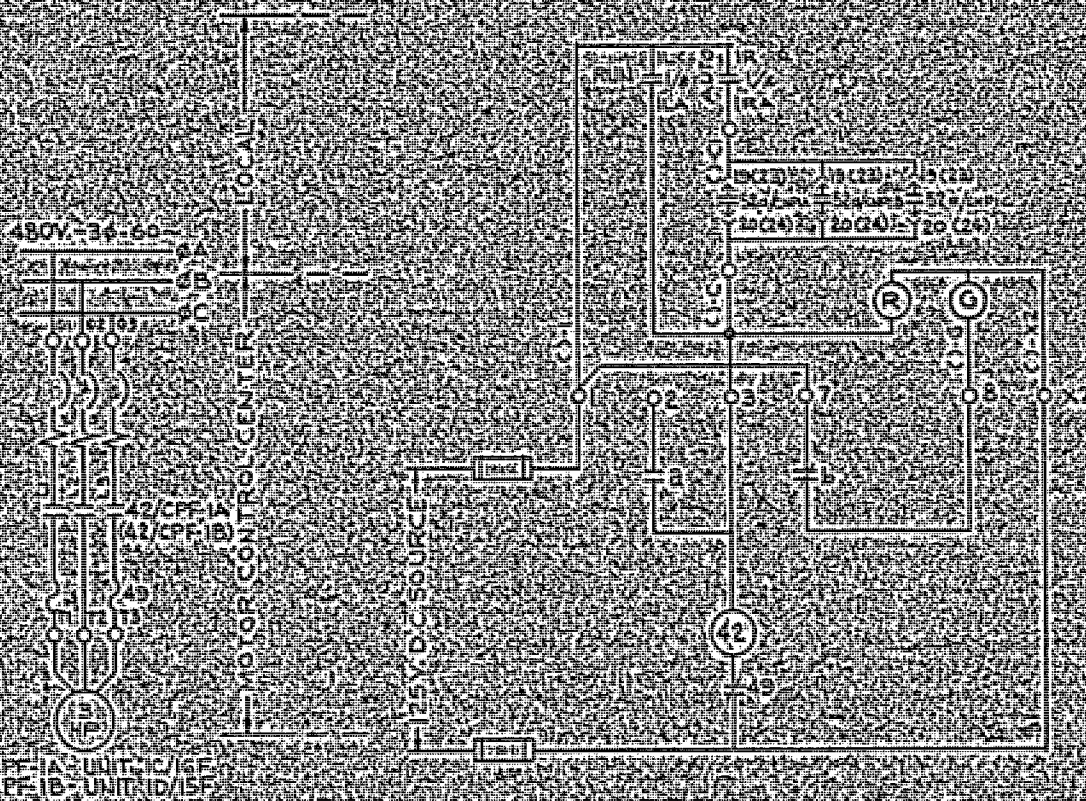
ROBERT EMMETT GINNA NUCLEAR
 POWER STATION UNIT NO. 1
 ELEMENTARY WIRING DIAGRAM
 FLOWDOWN HEAT RECOVERY VALVES

ROCHESTER GAS & ELECTRIC CORP.
 ROCHESTER, NEW YORK

ENGR
 No. 10905-337

GILBERT ASSOCIATES, INC.
ENGINEERS AND CONSULTANTS
PITTSBURGH, PENN. AND NEW YORK, N.Y.

PROJECT NO. 499B425
SHEET NO. 340




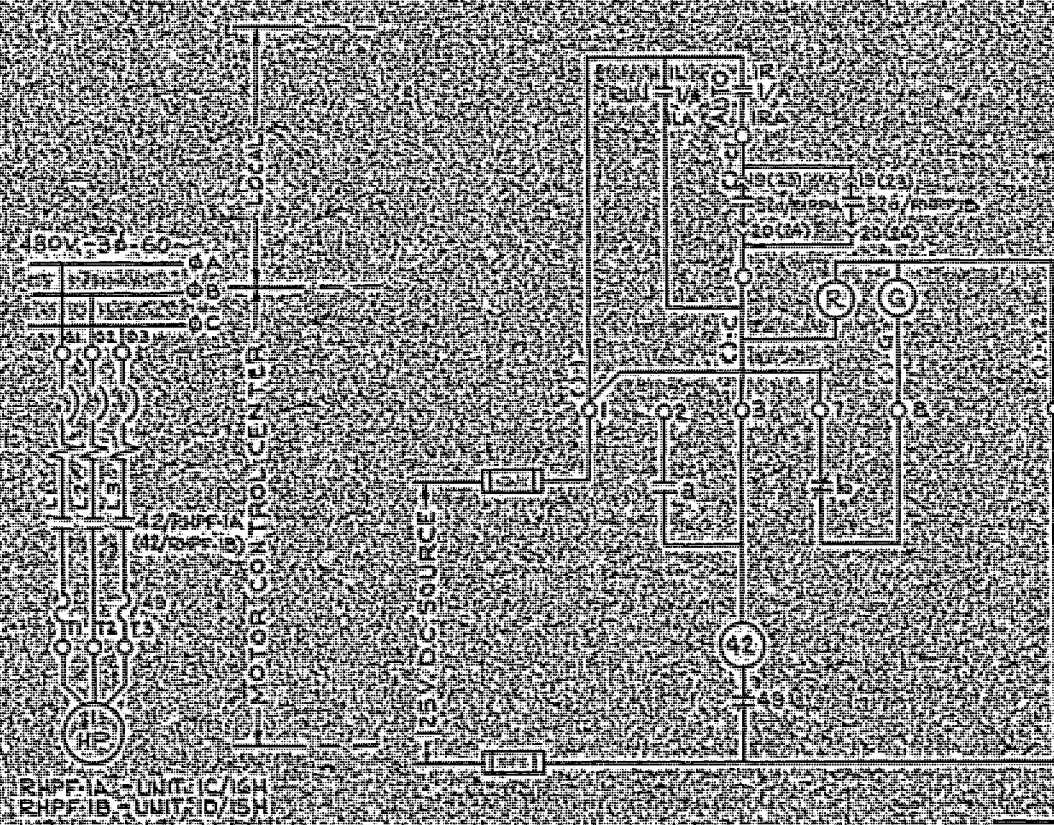
NOTES:

- 1/2 2 POSITION SW. DEV. E. CH. 12
- EXCEPT NAME PLATE TO READ
- RUN AUTO
- 42/CP-1A OR 42/CP-1B
- 524/CH 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1I

RECEIVED
OCT 3 1968

R.G. & E. - ENG. DEPT.

| | | |
|---|--|---|
| Westinghouse Electric Corporation | |  |
| ROCHESTER GAS & ELECTRIC CORPORATION | | |
| ROBERT EMETT GINNA NUCLEAR POWER STATION - UNIT NO. 1 | | |
| ELEMENTARY WIRING DIAGRAM | | CHARGING PUMP - FAULT (A) (B) |
| | | 499B425 |
| SHEET NO. 340 | | |
| ATOMIC POWER DIVISION PITTSBURGH, PA. U.S.A. | | |

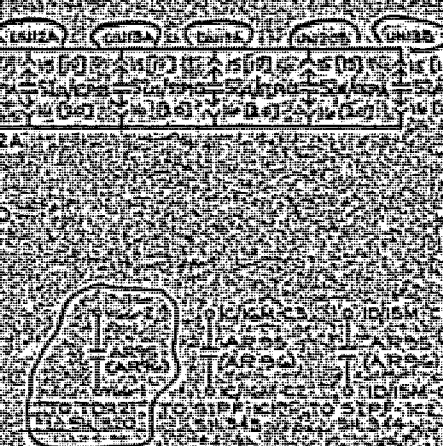
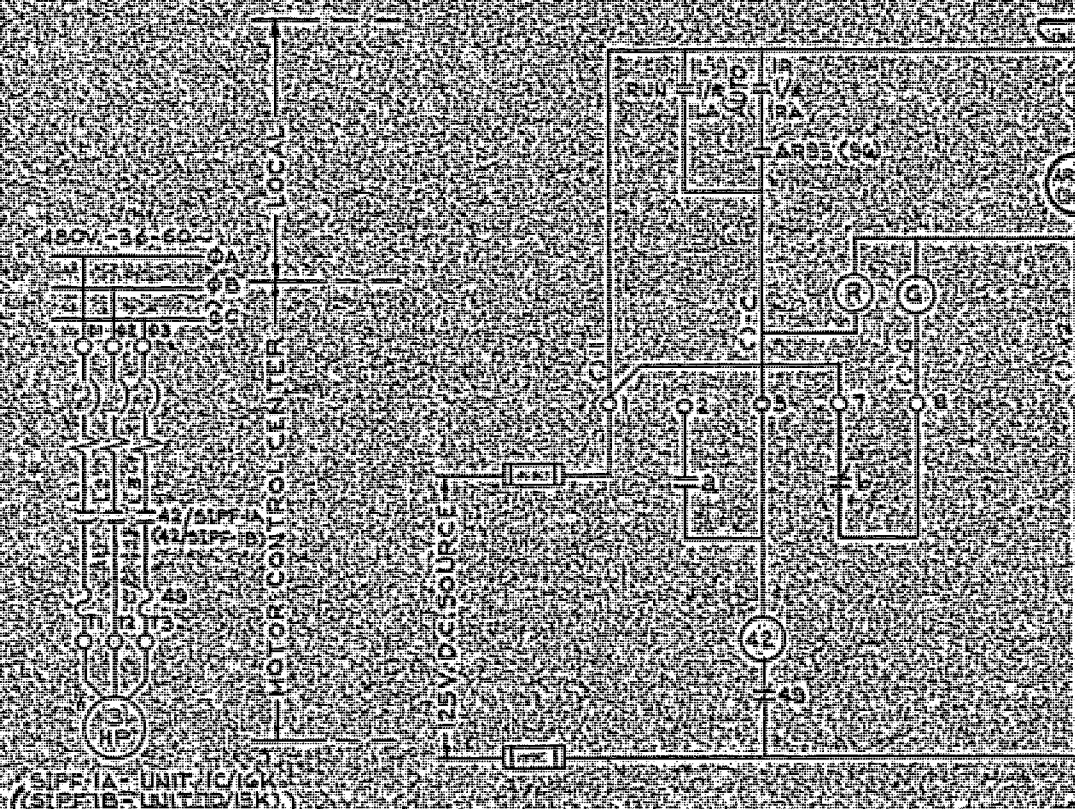


NOTES:
1. X-2 POSITION / SW / DVE / SN 2
2. EXCEPT NAME PLATE TO READ: RUN-AUTO:
3. RHPP / IATOR / RHPE / ID
524 / RHPL / ID - SN 5178

RECEIVED
OCT 3 1968
R. C. & E. - ENG. DEPT.

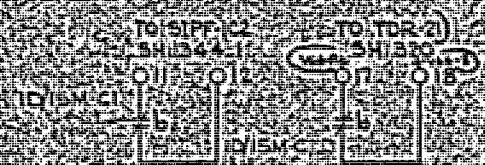
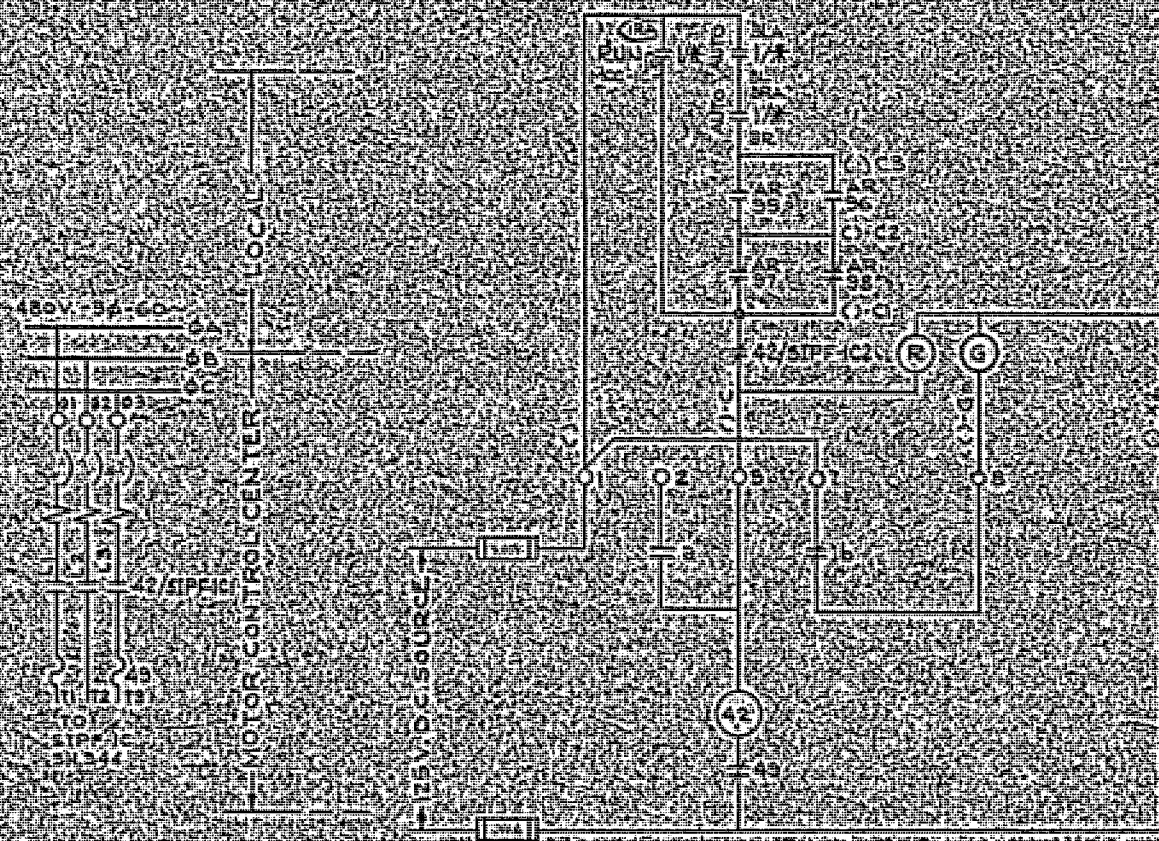
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GILBERT ASSOCIATES, INC.
ENGINEERS AND CONSULTANTS
PITTSBURGH, PA.
DATE: 11/15/69
BY: 11/15/69
CHECKED: 11/15/69
APPROVED: 11/15/69



NOTES:
1. 2- POSITION SW DEV E SH 12
EXCEPT NAME PLATE TO READ "AUTO-RUN"
2. SIPP-1A OR SIPP-1B
3. SIPP-1A OR SIPP-1B
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| Westinghouse Electric Corporation | | 499B425 |
| ROCHESTER GAS & ELECTRIC CORPORATION | | |
| ROBERT ENNETT GINNA NUCLEAR POWER STATION UNIT NO. 1 | | SHEET NO. 342 |
| ELEMENTARY WIRING DIAGRAM SAFETY INJECTION PUMP RUN W | | |
| DATE: 11/15/69 | | PITTSBURGH, PA. U.S.A. |
| BY: 11/15/69 | | |



11

1-3 POSITION MAINTAINED CONTACT
CROSSING TO SHL DEV T: SH 12 EXCEPT
WAYPATE TO ROAD AND
RUN - HDS-IE/AUTO/RUN MOOD

THE NEW YORK TIMES

RECEIVED
MAR 11 1963

DEPT

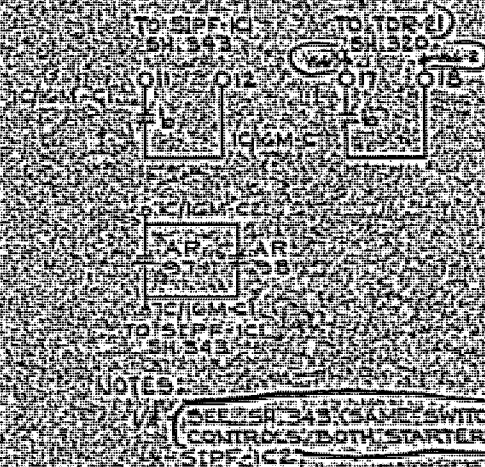
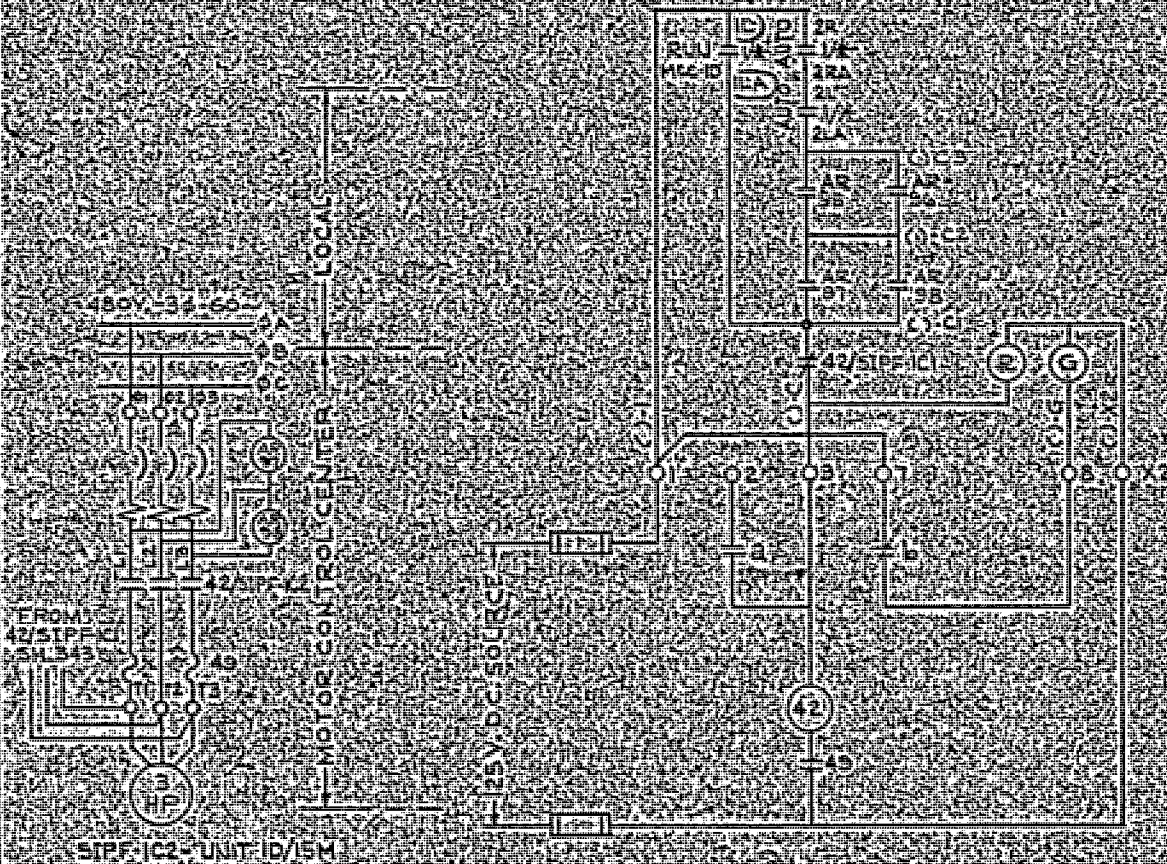
Westinghouse Electric Corporation
ROCHESTER GAS & ELECTRIC CORPORATION
ROBERT EMMETT GUNNA NUCLEAR POWER STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM SAFETY INJECTION PUMP FAILURE

499B425

[illegible]


ATOMIC POWER DIVISION PITTSBURGH, PA. U.S.A.

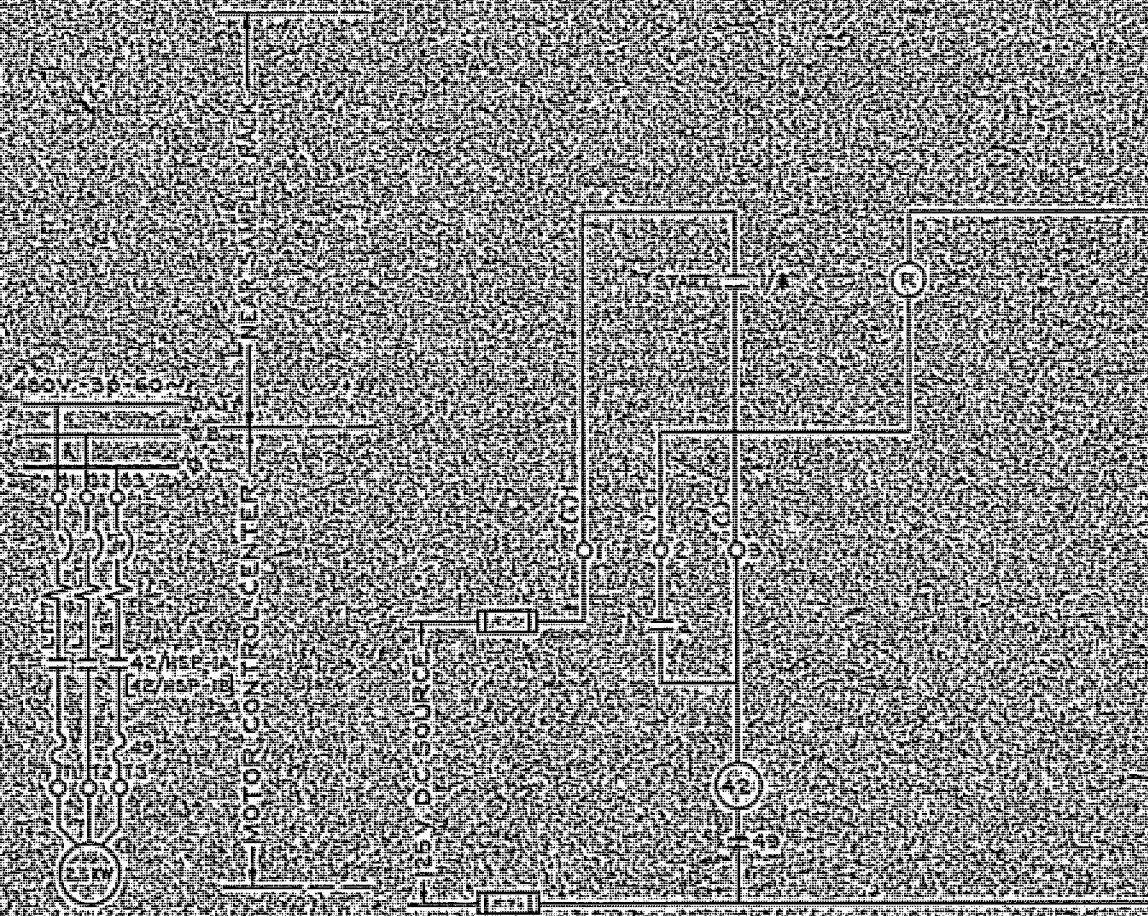
1. The first part of the document is a list of names and their corresponding addresses. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.



RECEIVED
MAR 11 1969

PLANT ENG. DEPT.

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|---|------|----|------|---|---------|
| Westinghouse Electric Corporation | | | |  | |
| TITLE: ROCHESTER GAS & ELECTRIC CORPORATION | | | | | |
| BY: ROBERT EMMETT GUNN NUCLEAR POWER STATION - UNIT NO. 1 | | | | | |
| ELEMENTARY WIRING DIAGRAM: SAFETY LINE COND. PUMP TAIL STRUCK | | | | | |
| NO. 1 | 2 | 3 | 4 | 5 | 6 |
| DATE | REV. | BY | CHK. | APP. | 499B425 |
| Robert Emmett Gunn | | | | SHEET NO. 344 | |
| ATOMIC POWER DIV. | | | | PITTSBURGH, PA. U.S.A. | |

[illegible]

[HSP-1A UNIT]A/B/E
 [HSP-1B UNIT]B/E

NOTES: 1. TWO POSITION MAINTAINED CONTACT SEL SW
2. SW DEV. NO. 5012

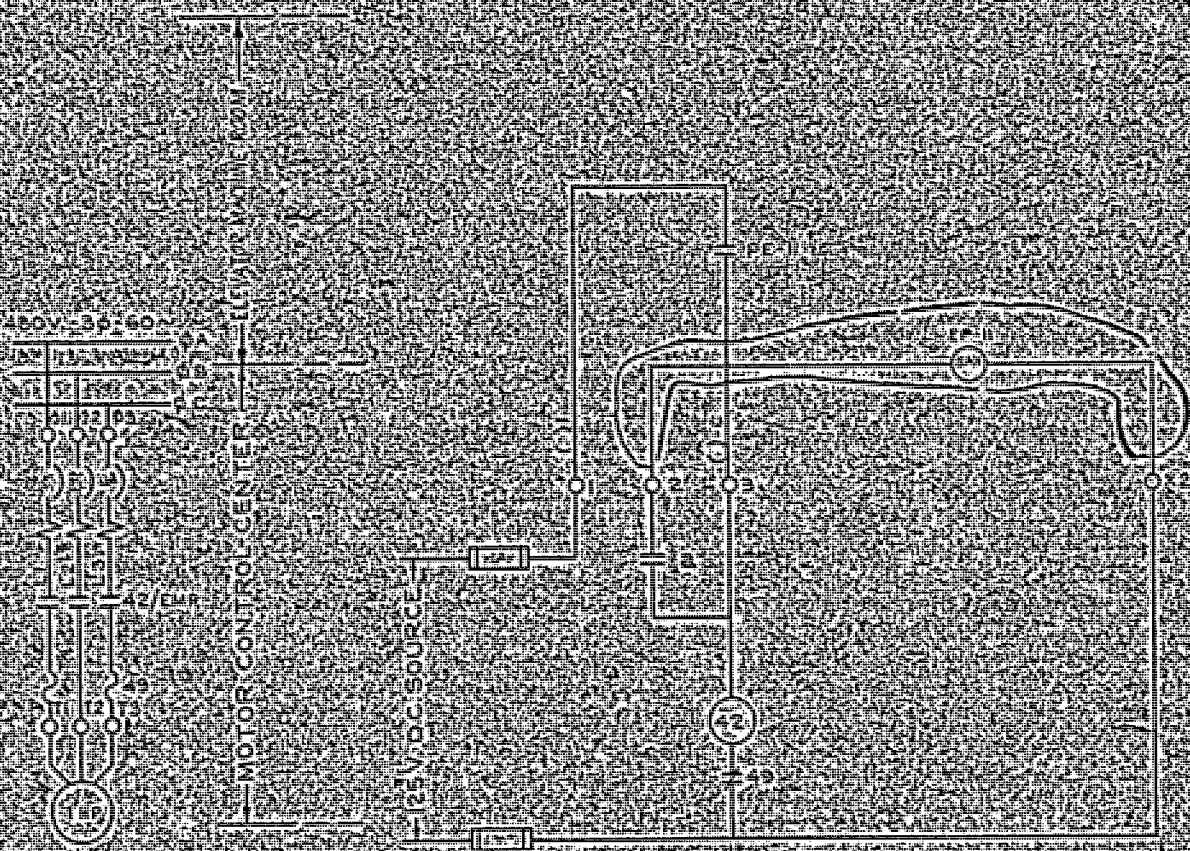
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OCT 29 1953
RIG & E - ENG DEPT

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FBI - NEW YORK | Westinghouse Electric Corporation | | | | | | | | |
| | ROCHESTER GAS & ELECTRIC CORPORATION | | | | | | | | |
| | ROBERT EMMETT GINNA NUCLEAR POWER STATION - UNIT NO. 1 | | | | | | | | |
| | ELEMENTARY WIRING DIAGRAM | | | | CONDENSER HOT WELL SAMPLE PUMP | | | | |
| | NO. OF SHEETS | SHEET | DESCRIPTION | DATE | 499B425 | | | | |
| | 1 | 1 | PUMP MOTOR | 1960 | | | | | |
| BY: [Signature] | | | | CHECKED BY: [Signature] | | | | | |
| ATTACH TO FILE IN PROJECT NO. 100-334567 | | | | | | | | | |

11-65

GILBERT ASSOCIATES
 ENGINEERS, ARCHITECTS, CONSULTANTS
 1000 PINE STREET, SUITE 1000
 PITTSBURGH, PA. 15222
 412/735-1111
 412/735-1112
 412/735-1113

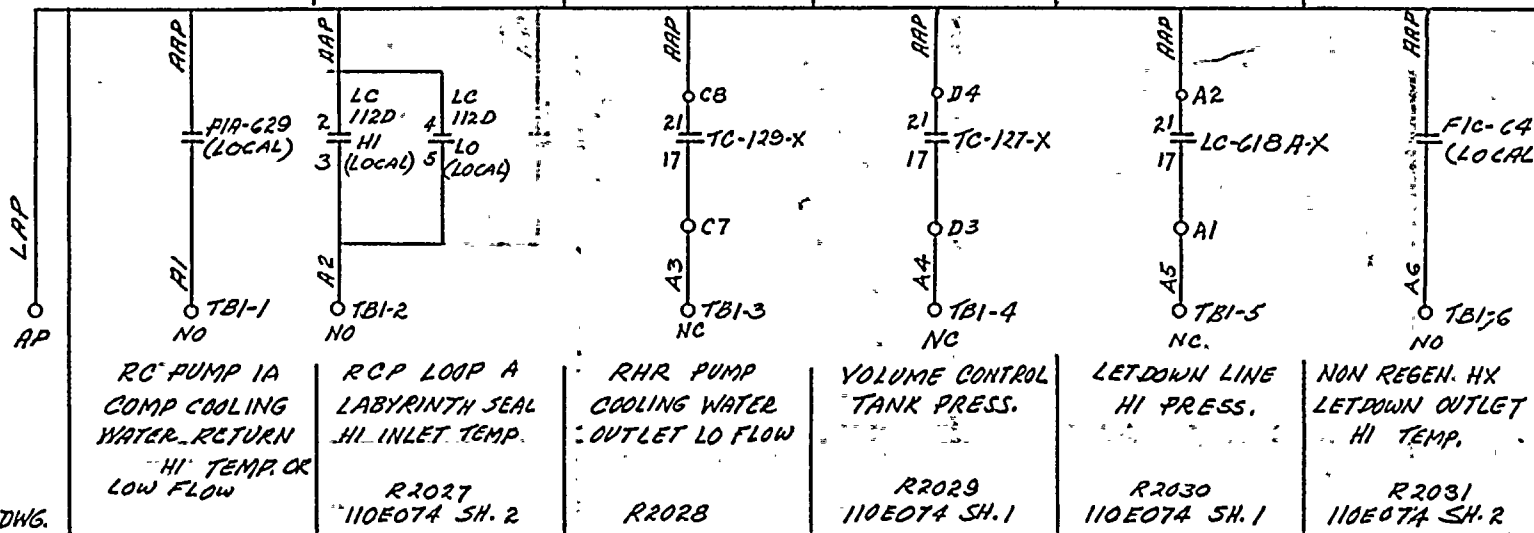
EMR UNIT W/IK
 MOTOR CONTROL CENTER
 125V DC SOURCE
 480V 3P 4W 60Hz
 125V DC SOURCE
 480V 3P 4W 60Hz



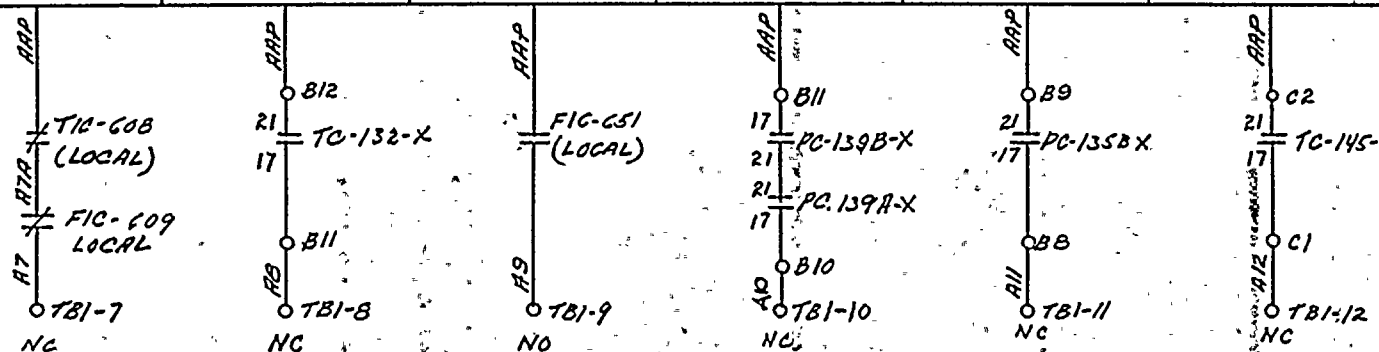
EMR UNIT W/IK
 MOTOR CONTROL CENTER
 125V DC SOURCE
 480V 3P 4W 60Hz
 125V DC SOURCE
 480V 3P 4W 60Hz

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|---|---------|---------|---------|---------|---------|
| Westinghouse Electric Corporation | | | | | |
| TITLE: ROCHESTER GAS & ELECTRIC CORPORATION
ROBERT EMMETT GINNA NUCLEAR POWER STATION - UNIT NO. 1 | | | | | |
| ELEMENTARY WIRING DIAGRAM: ELEVATOR MACHINE RM. EXHAUST FAN | | | | | |
| 499B425 | 499B425 | 499B425 | 499B425 | 499B425 | 499B425 |
| SHEET NO. 346 | | | | | |
| PITTSBURGH, PA. U.S.A. | | | | | |

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|----------------------|------------------------------|--|--|--|---|
| RHR PUMP
HI PRESS | VOLUME CONTROL
TANK LEVEL | LOW PRESSURE
LET DOWN RELIEF
VALVE HI. TEMP. | REGEN HX.
LETDOWN OUTLET
HI. TEMP. | COMP. COOLING
SURGE TANK
HI. LEVEL | CONT. SPRAY
PUMP COOLING
WATER OUT LO
FLOW |
| REF. DWG. R2021 | R2022 | R2023
110E074 SH.1 | R2024
110E074 SH.1 | R2025
110E074 SH.1 | R2026 |



REF. DWG.



NOTE:

NC = JUMPER TERM. 1 & 2 ON ANN. DROP
NO = JUMPER TERM. 1 & 3 ON ANN. DROP

| REV. | | | | | |
|----------|----------|----------------|-------------|------------|--------|
| ORIGINAL | N.J.A. | RHM
4/14/75 | PCX | REM | 4/5/75 |
| | DRAWN BY | CK'D. | RESP. ENGR. | ENG'R MGR. | DATE |

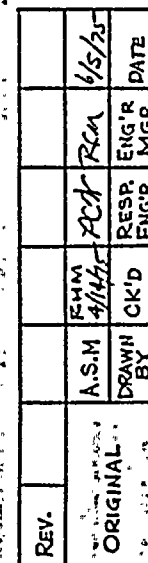
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| DATE | SCALE | NONE |
| APPROVED | | |
| FOLDER NO. | | |
| JOB NO. | | |
| DRAWN | N.J.A. | |
| TRACED | | |
| CHECKED | | |
| REV. | | |
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | |
| ENGINEERING DEPT | | |
| NO. 10905-360 | | |

ROBERT EMMETT GUNN NUCLEAR STA. UNIT I
This Dwg. Supersedes Westinghouse Dwg. 499B425 SH. 360 (REV. 3)
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL A

VOLUME CONTROL
TANK HI TEMP
110E074 SH.1

R2036

- LAF

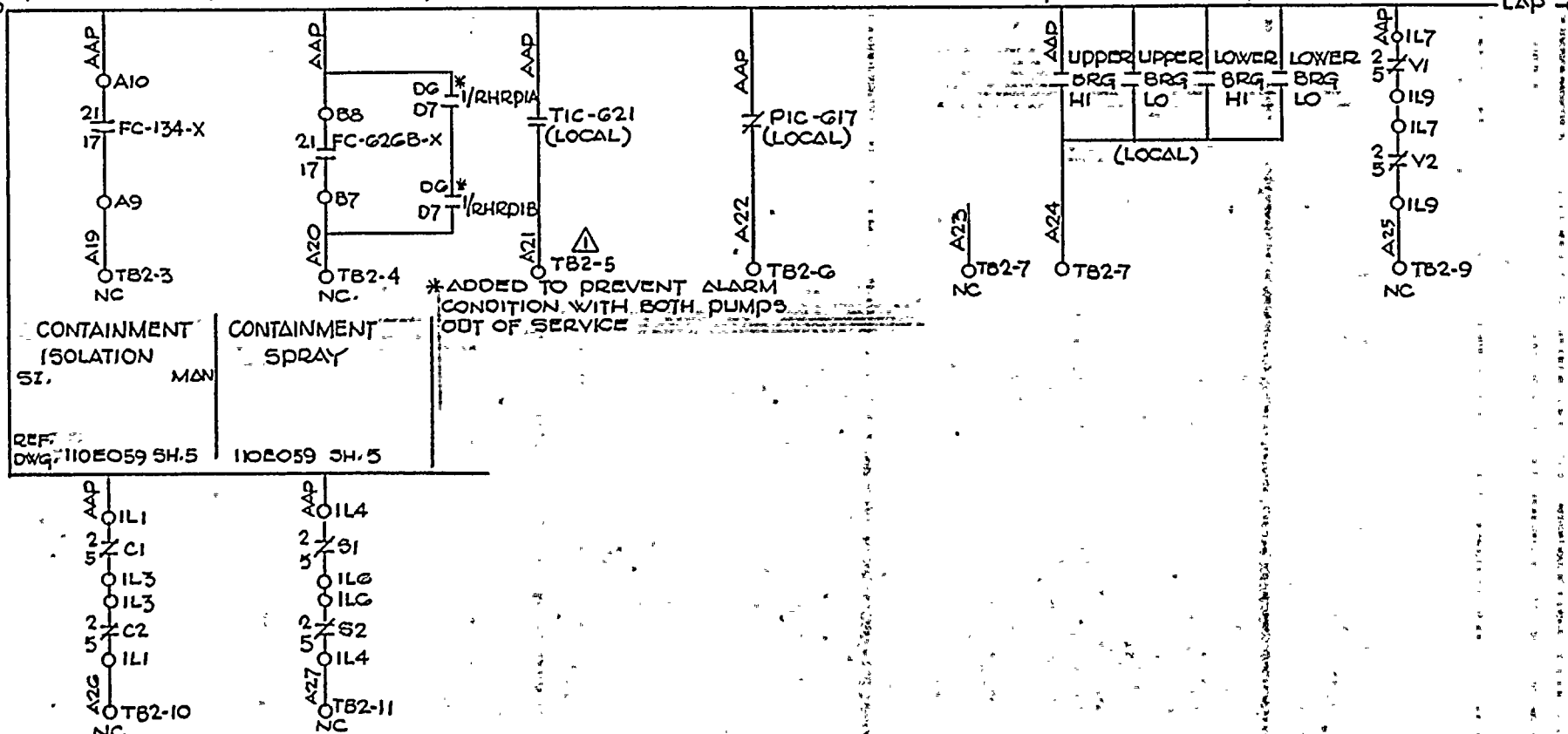


ELEMENTARY WIRING DIAGRAM

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No. 10905-361

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|---------------------------------------|--|--|---|--|--|--|
| LET DOWN LINE
HICFLOW
70 G.P.M. | RESIDUAL HEAT
REMOVAL LOOP
LO FLOW
400 G.P.M.
R.2038 | COMP. COOL HX
OUTLET HICTEMP
120°F | COMP. COOL PUMP
DISCHARGE
LO PRESS
20.851 NORM | COMP COOL WTR
FROM REACTOR
SUPPORT
HI TEMP
150°F | PLUS/MINUS
RCP 1A
OIL LEVEL
1.25 INCH
GIBJ.708 | CONTAINMENT
VENT OUTCT
ISOLATION
5.1" MAN
110E059 SH.5 |
| REF. DWG. 110E074 SH.2 | 110E074 SH.2 | | | | | |



NOTE:
NC - JUMPER TERM 1 & 2 ON ANN. DROP
NO - JUMPER TERM 1 & 3 ON ANN. DROP

THIS DWG. SUPERCEDES WESTINGHOUSE DWG. 499B425 SH.362.

| | | | | |
|----------|------------|------------|--------------|-------------|
| REV: | Rm 7/18/76 | DH 7/19/76 | R.E. 7/19/76 | JES 7/24/76 |
| ORIGINAL | DH 5/14/76 | Rm 5/14/76 | R.E. 5/14/76 | JES 5/14/76 |
| | drawn by | ck'd | rec'd eng'r | eng'r Mg'r |
| | | | | date |

| | | | | |
|--|-----------------|----------|------------|---------|
| ROBERT EMMETT GINNA NUCLEAR
POWER STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM | SCALE
4 1/2" | APPROVED | FOLDER NO. | JOB NO. |
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | | | |
| ENG'R DEPT | | | | |
| NO. 1006-757 WA | | | | |

CONTAINMENT SPRAY CHANNEL ALERT

R2201, R2199

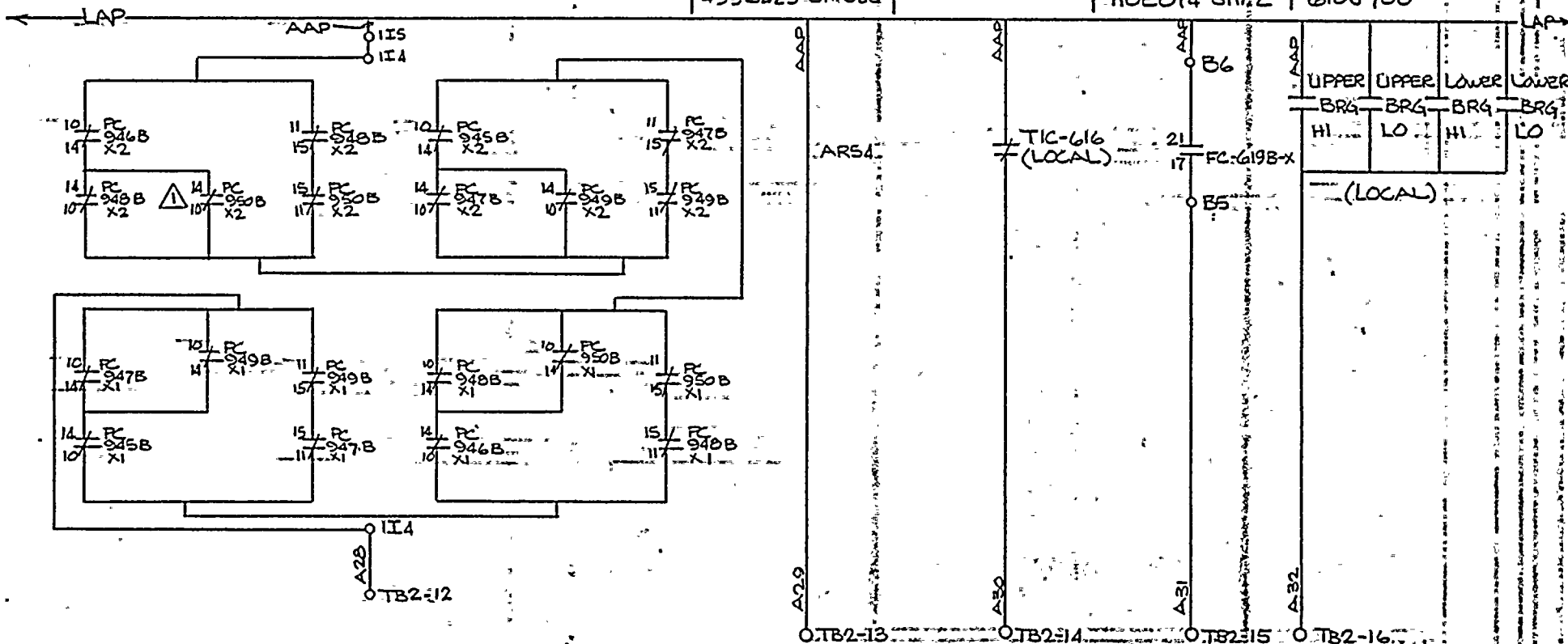
REF. DWG. 110E059 SH. 1

COOLING FAN
REACTOR CAVITY
COOLER WATER
OUTLET HI TEMP
150°F
G 533
499B425 SH. 320

COMP COOL PUMP
INLET HEADER
HI TEMP
150°F
R2047

COMP COOL LOOP
LO FLOW
1800 GPM
R2046
110E074 SH. 2

PLUS/MINUS
RCP 1B
T.OIL LEVEL
1.25 INCH
R2044, R2045
618J708



NOTE

NC - JUMPER TERM. 1 & 2 ON ANN. DROP

NO - JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERSEDES W2 DWG. 499B425 SH. 563

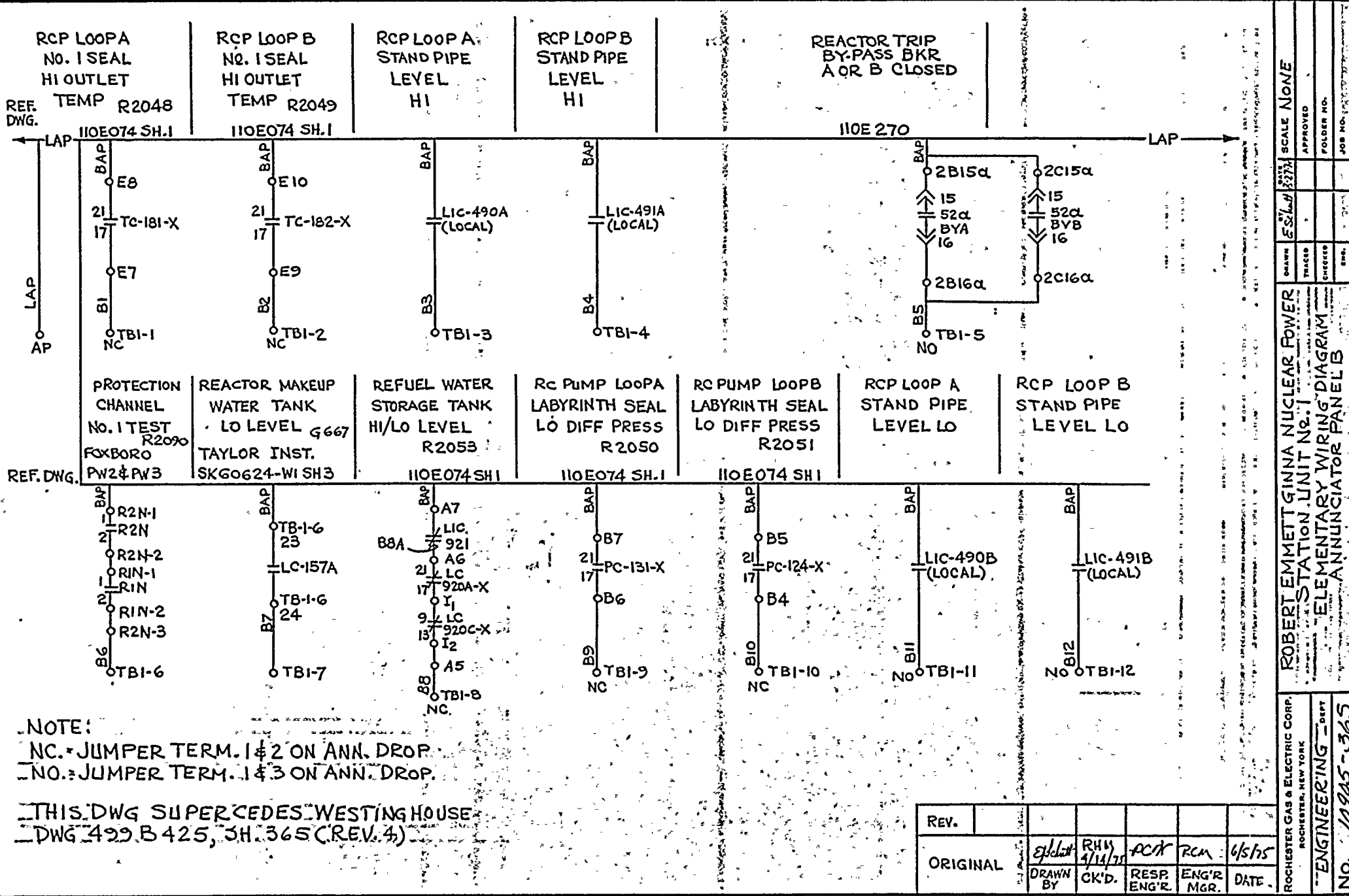
| REV. | BY | CHKD | RES'D | ENG | DATE |
|----------|-----|------|-------|-----|---------|
| 1 | RW | DPH | RPA | JEL | 7/9/76 |
| | av | RW | RPA | JEL | 7/30/76 |
| ORIGINAL | DWN | CKD | RES'D | ENG | DATE |
| | BY | BY | BY | BY | DATE |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GINNAT NUCLEAR POWER
STATION - UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL A

DATE
BY
SCALE
APPROVED
FOLDER NO.
JOB NO.

NO. 110E059 SH. 2-1



NOTE:
 NC * JUMPER TERM. 1 & 2 ON ANN. DROP
 NO * JUMPER TERM. 1 & 3 ON ANN. DROP
 THIS DWG SUPERCEDES WESTINGHOUSE
 DWG 499 B 425, SH. 365 (REV. 4)

| REV. | | | | | | |
|----------|----------|-------------|------------|------|--------|--|
| ORIGINAL | EX/10/11 | RHM | PC/11 | RCM | 6/5/15 | |
| DRAWN BY | CK'D. | RESP. ENG'R | ENG'R MGR. | DATE | | |

ROBERT EMMETT GINNA NUCLEAR POWER

STATION UNIT No. 1

ELEMENTARY WIRING DIAGRAM

ANNUNCIATOR PANEL B

ROCHESTER GAS & ELECTRIC CORP.

ROCHESTER, NEW YORK

ENGINEERING DEPT

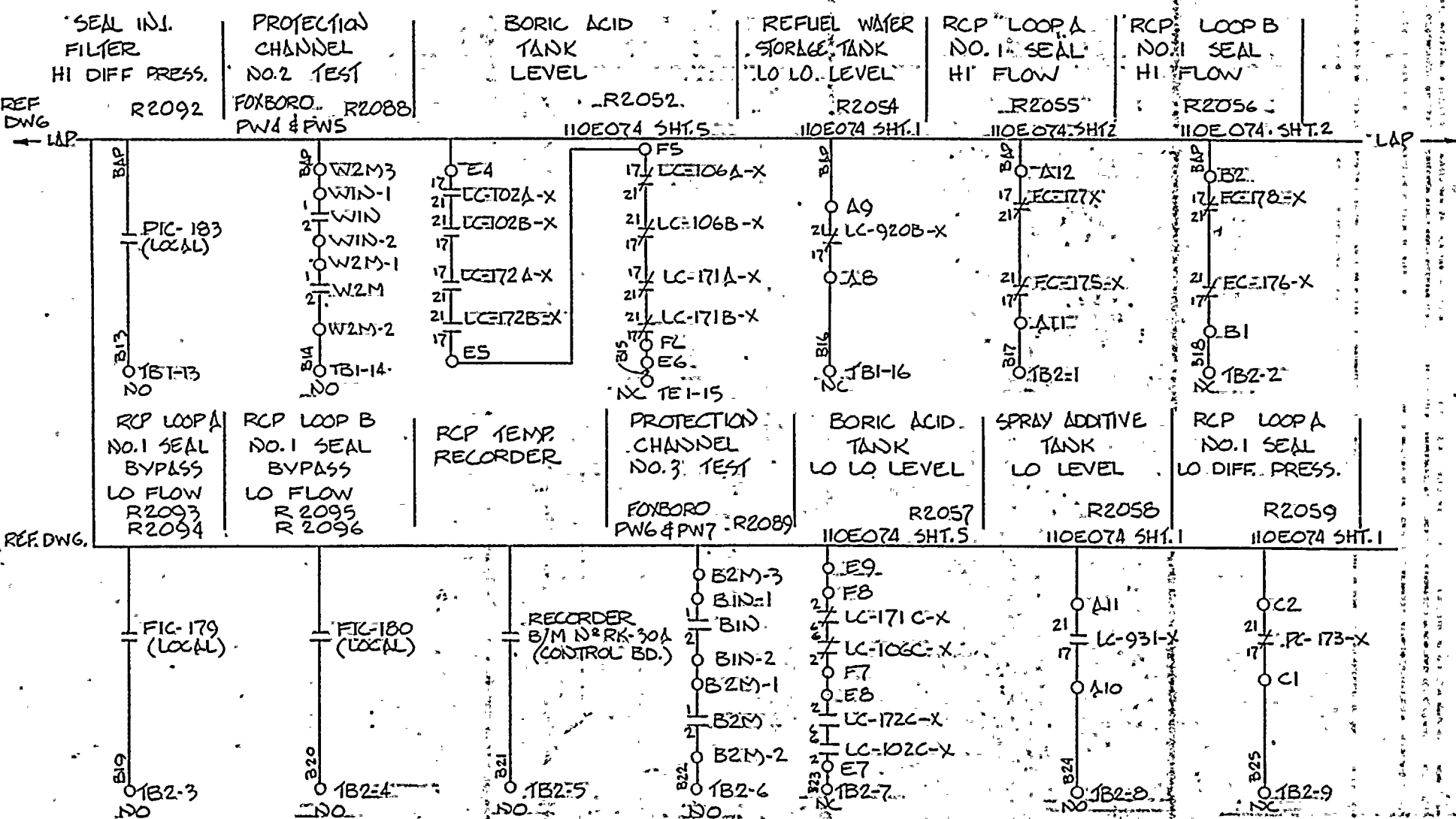
No. 10945-365

SCALE NONE

APPROVED

FOLDER NO.

JOB NO.



NOTE

1. NC - JUMPER TERM. 1 & 2 ON WND. DROP
2. NO - JUMPER TERM. 1 & 3 ON WND. DROP

THIS DRAWING SUPERCEDES WESTINGHOUSE
DRAWING 499 B 425, SHT. 366, (REV. 3)

| REV. | | | | | |
|----------|-------|--------------|------------|------|--------|
| ORIGINAL | A.V. | RHM | PCX | RCM | 4/5/55 |
| DRAWN BY | CK'D. | RESP. ENG'R. | ENG'R MGR. | DATE | |

| | | | | | |
|---|--|-------------|--|---------------|--|
| REACTOR NUCLEAR POWER STA. UNIT 1 | | SCALE | | NONE | |
| ELEMENTARY WIRING DIAG. ANNUNCIATOR | | APPROVED | | FOLDER NO. | |
| PANEL B | | DRAWN | | JOB NO. | |
| | | TRACED | | | |
| | | CHECKED | | | |
| | | ENG'G | | | |
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | ENGINEERING | | NO. 10905-366 | |

RCP LOOP B
NO. 1 SEAL
LO DIFF. PRESS.
REF. DWG. R2060
110E074 SH.1
LAP

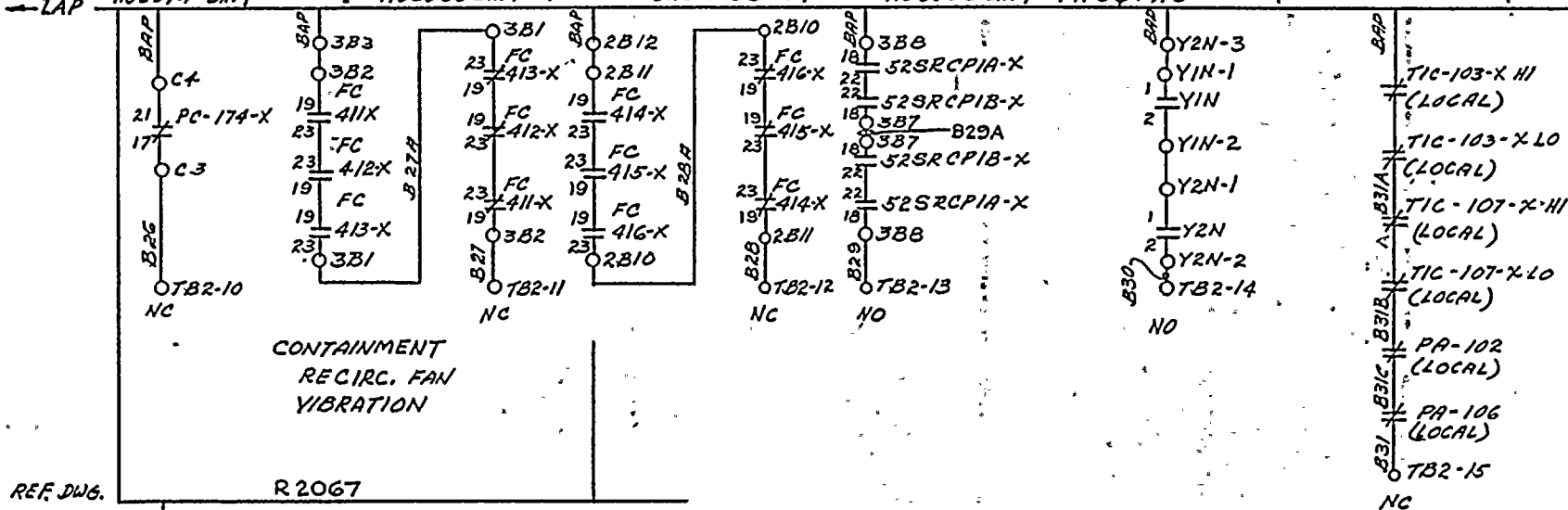
REACTOR COOL
LO FLOW
LOOP A
CHANNEL ALERT
R2061
110E053 SH.7

REACTOR COOL
LO FLOW
LOOP B
CHANNEL ALERT
R2228
110E053 SH.7

REACTOR COOL
PUMP BKRS
CHANNEL ALERT
R2232
110E053 SH.7

PROTECTION
CHANNEL
NO. 4 TEST
FOXBORO R2091
PWB&PWS

BORIC ACID
TANK TEMP
OR NITROGEN
PRESS
R2097



NOTE:

NC = JUMPER TERM. 1 & 2 ON ANN. DROP
NO = JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DRAWING SUPERCEDES WESTINGHOUSE
DRAWING 499 B425, SH. 367, (REV. 3)

| REV. | DATE | BY | CHK'D. | ENG'R | DATE |
|------|--------|--------|--------|-------|------|
| 1 | 6/5/75 | N.J.A. | REK | ENG'R | |
| | | | | ENG'R | |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING

No. 10905-367

ROBERT EMMETT GINNA NUCLEAR STA. UNIT I
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL B

SCALE NONE
APPROVED
FOLDER NO.
JOB NO.

CONTAINMENT
RECIRC SYSTEM
LO AIR FLOW

G533
499B425 SH.315

CONTAINMENT
RECIRC COOLERS
WATER OUTLET
HI TEMP

G534
499B425 SH.320

ACCUMULATOR
1A LEVEL
HI/LO

R2100
110E074 SH.1

ACCUMULATOR
1B LEVEL
HI/LO

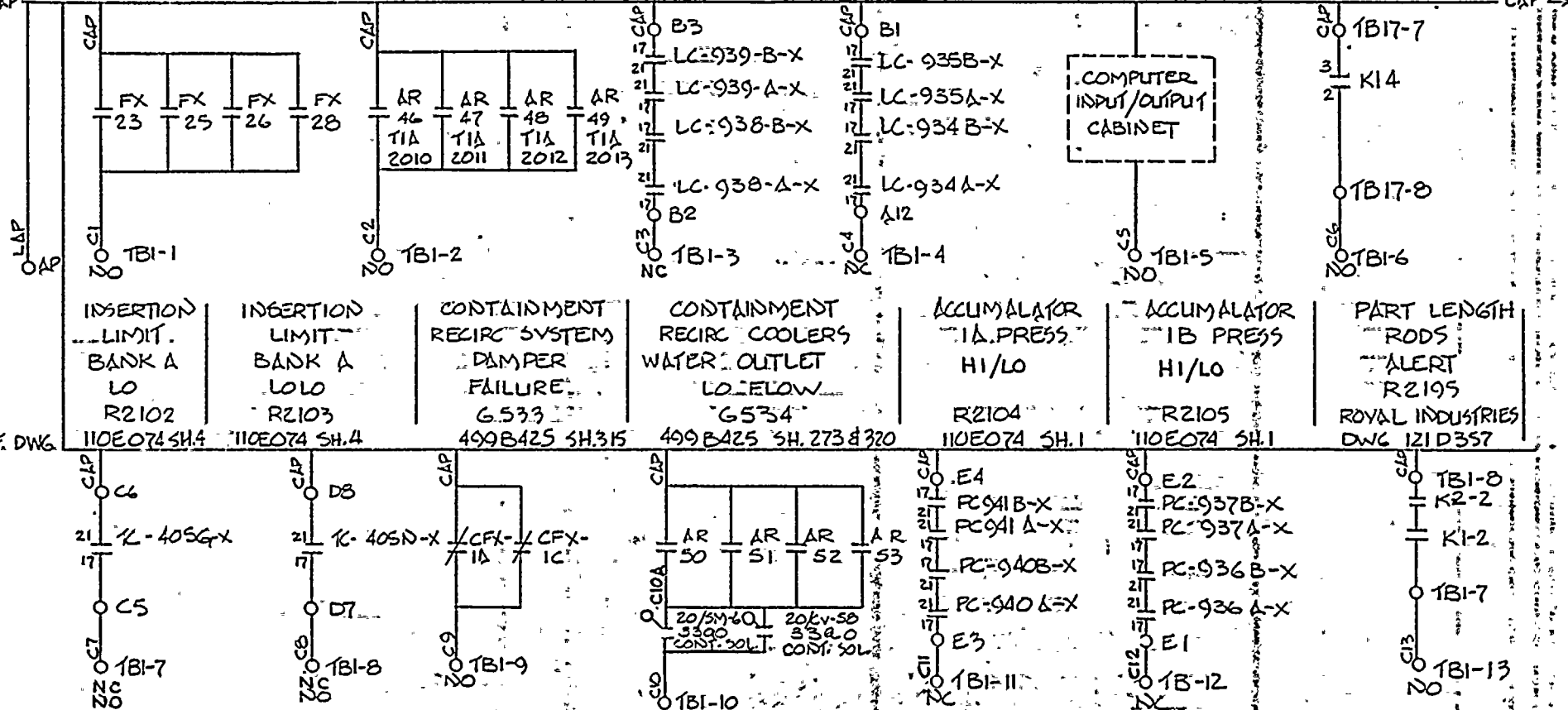
R2101
110E074 SH.1

COMPUTER ALARM
ROD DEV & SED.
NIS PWR RANGE
TILTS

ROD CONTROL
NON URGENT
FAILURE
(SOLID STATE
R2196. CABINETS)

G653D34 SH.15

REF DWG
←LAP



REF DWG

NOTES

NC = JUMPER TERM. 1 & 2 ON ANN. DROP
NO = JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DRAWING SUPERCEDES WESTINGHOUSE
DRAWING 499B425, SHT. 369, (REV. 3)

3300-CLOSED WHEN
VALVE IS FULL OPEN

| REV. | | | | | |
|----------|----------|-------|-------------|------------|--------|
| ORIGINAL | A.V. | RHM | PCX | PCN | 6/5/75 |
| | DRAWN BY | CK'D. | RESP. ENGR. | ENGR. MGR. | DATE |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

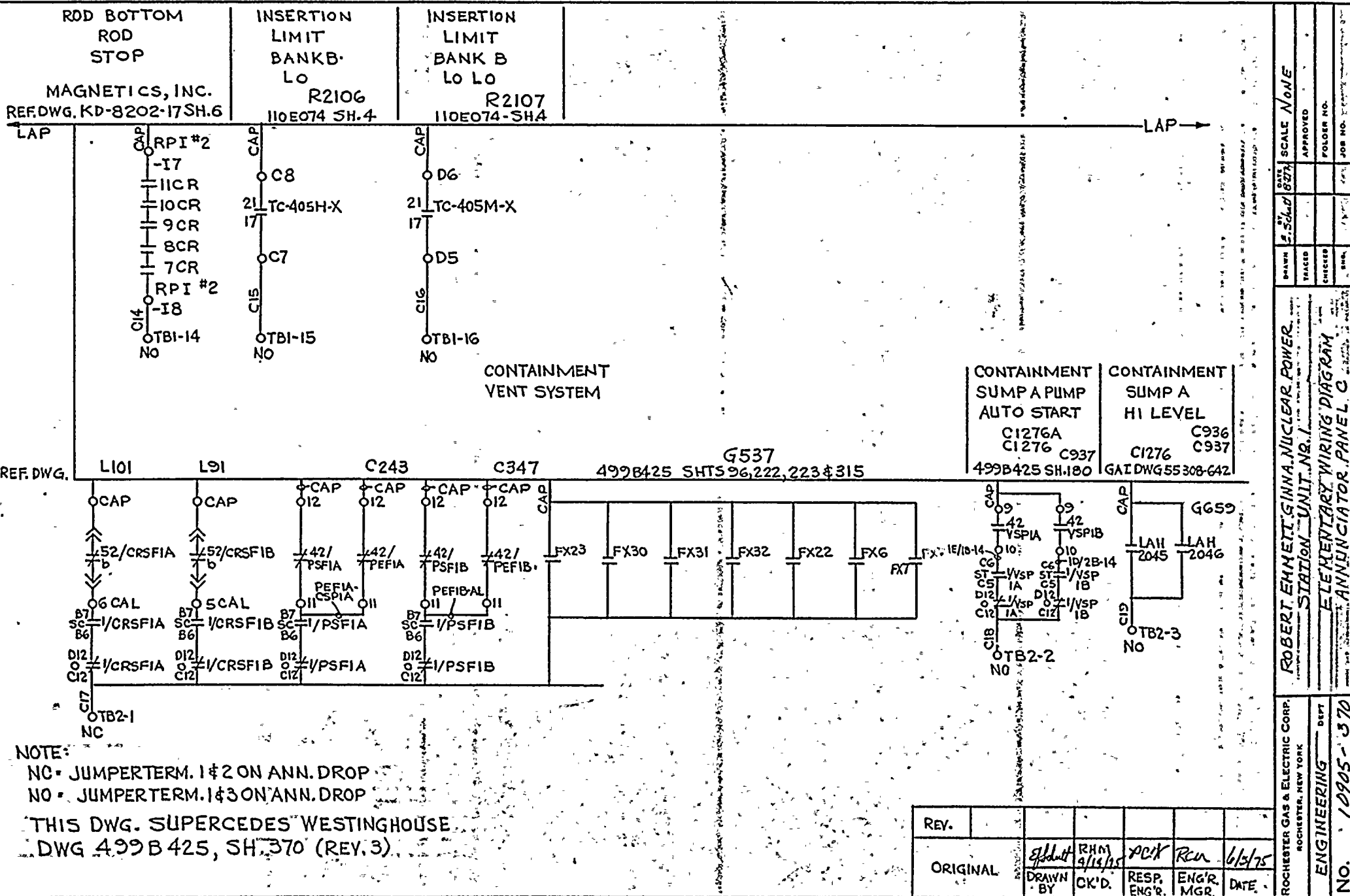
ENGINEERING DEPT
No. 10905-369

RE: GINNA NUCLEAR POWER STA. UNIT 1
ELEM. WIRING DIAGRAM

ANNUNCIATOR PANEL C

| DATE | SCALE | APPROVED | FOLDER NO. | JOB NO. |
|------|-------|----------|------------|---------|
| | | | | |

SCALE
APPROVED
FOLDER NO.
JOB NO.



| | | | | |
|------------------------------------|--------|---------------------|---------------------------|---------------------|
| ROBERT EMMETT GINNA, NUCLEAR POWER | | STATION UNIT No. 1 | ELEMENTARY WIRING DIAGRAM | ANNUNCIATOR PANEL C |
| DRAWN | TRACED | CHECKED | DATE | SCALE |
| | | | | NONE |
| APPROVED | | FOLDER NO. | | |
| | | | | |
| ENGINEERING | | DEPT | | |
| ROCHESTER GAS & ELECTRIC CORP. | | ROCHESTER, NEW YORK | | |
| No. 10905-370 | | | | |

CONTAINMENT
SUMP B
HI LEVEL

ROD CONTROL
M-G SET
TRIPPED

ROD WITHDRAWAL
BANK D
HIGH 95%

INSERTION
LIMIT
BANK C

INSERTION
LIMIT
BANK C

CONTAINMENT
PRESSURE
CHANNEL ALERT

REF DWG.

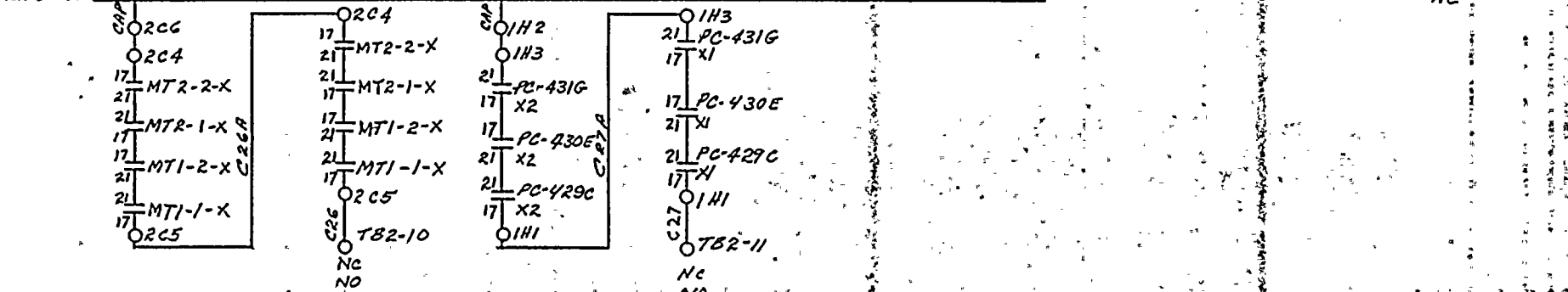
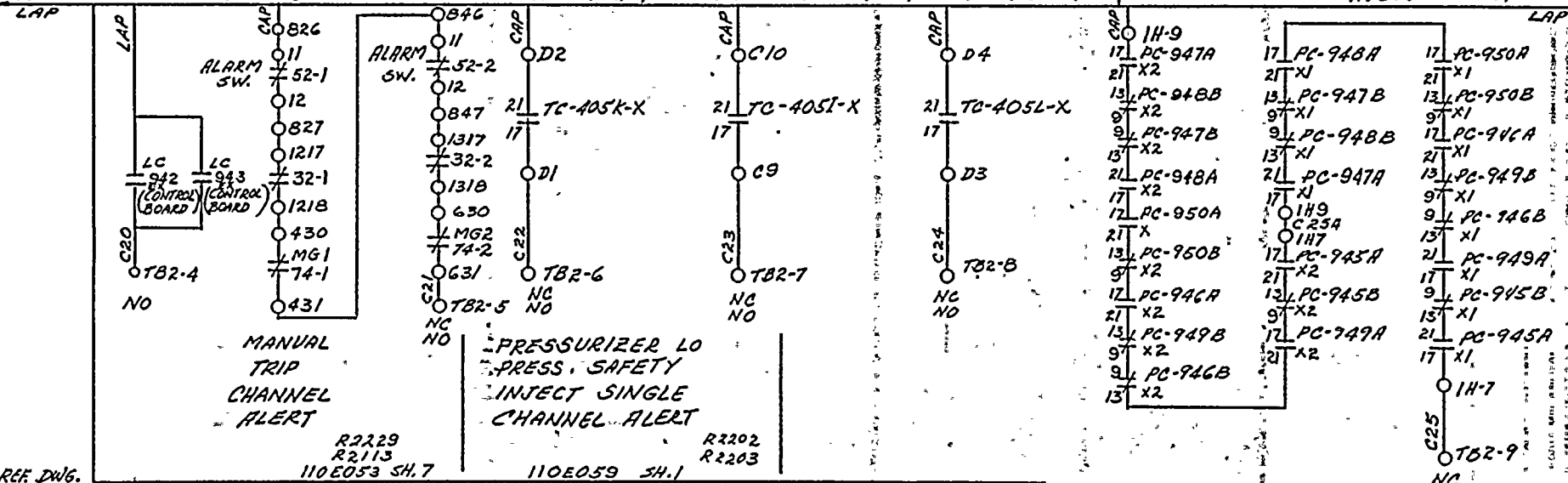
BUFFALO DWG 66364C
499B425 SH. 70

R210B
110E074 SH. 4

LO
R2109
110E074 SH. 4

LO-LO
R2110
110E074 SH. 4

R2202 & R2203
110E059 SH. 142



NOTE:
NC = JUMPER TERM. 1 & 2 ON ANN. DROP
NO = JUMPER TERM. 1 & 3 ON ANN. DROP
THIS DRAWING SUPERCEDES WESTINGHOUSE
DWG. 499B425, SHT. 371, (REV. 3)

| REV. | | | | | | |
|----------|--------|-------------|-------------|------|--------|--|
| ORIGINAL | N.J.A. | RHM | PCY | RCM | 6/5/75 | |
| DRAWN BY | CK'D. | RESP. ENGR. | ENG'R. MGR. | DATE | | |

SCALE NONE

APPROVED

FOLDER NO.

JOB NO.

DRAWN N.J.A.

TRACED

CHECKED

ANNUNCIATOR PANEL C

ROBERT EMMETT GUNN NUCLEAR, UNIT 1

ELEMENTARY WIRING DIAGRAM

ROCHESTER GAS & ELECTRIC CORP., ROCHESTER, NEW YORK

ENGINEERING

DEPT

NO. 10905 - 371

PRESSURIZER LO
LEVEL SAFETY
INJECT SINGLE
CHANNEL ALERT

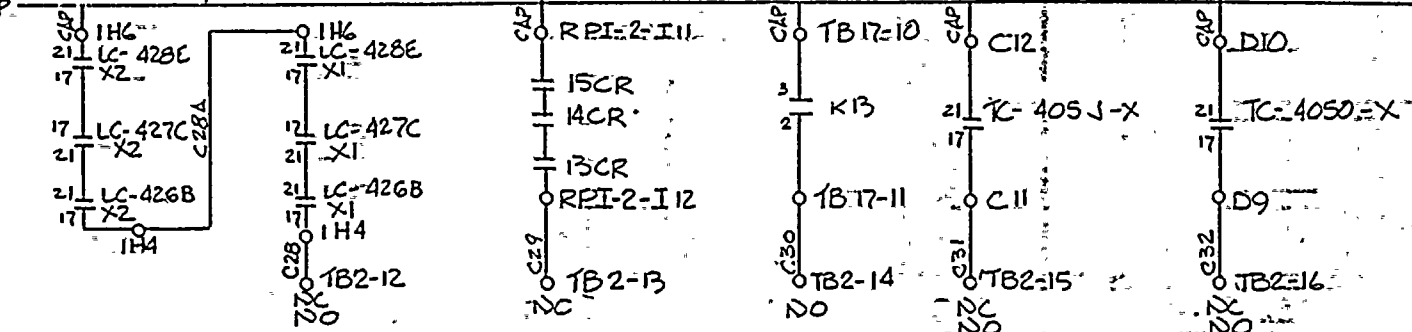
REF. DWG. 110E059 SH.1
R2202
R2203

ROD
POSITION
TEST
MAGNETICS, INC.
KD8202-17 SH.5

ROD CONTROL
URGENT
FAILURE
ROD STOP
R2197
W 6053D34 SH.15

INSERTION
LIMIT
BANK D
LO
R2111
110E074 SH.4

INSERTION
LIMIT
BANK D
LO LO
R2112
110E074 SH.4



LAP →

NOTES

N.C.=JUMPER TERM. 1 & 2 ON; AND DROP
N.O.=JUMPER TERM. 1 & 3 ON; AND DROP

THIS DRAWING SUPERCEDES WESTINGHOUSE
DWG. 499 B 425, SHT. 372 (REV. 3)

| REV. | DATE | BY | CHK'D | RESR | ENG'R | DATE |
|----------|---------|-------|-------|------|-------|--------|
| ORIGINAL | 4/14/75 | A.V. | RM | RM | RM | 4/5/75 |
| | | DRAWN | CK'D | RESR | ENG'R | DATE |
| | | BY | | ENGR | MGR. | |

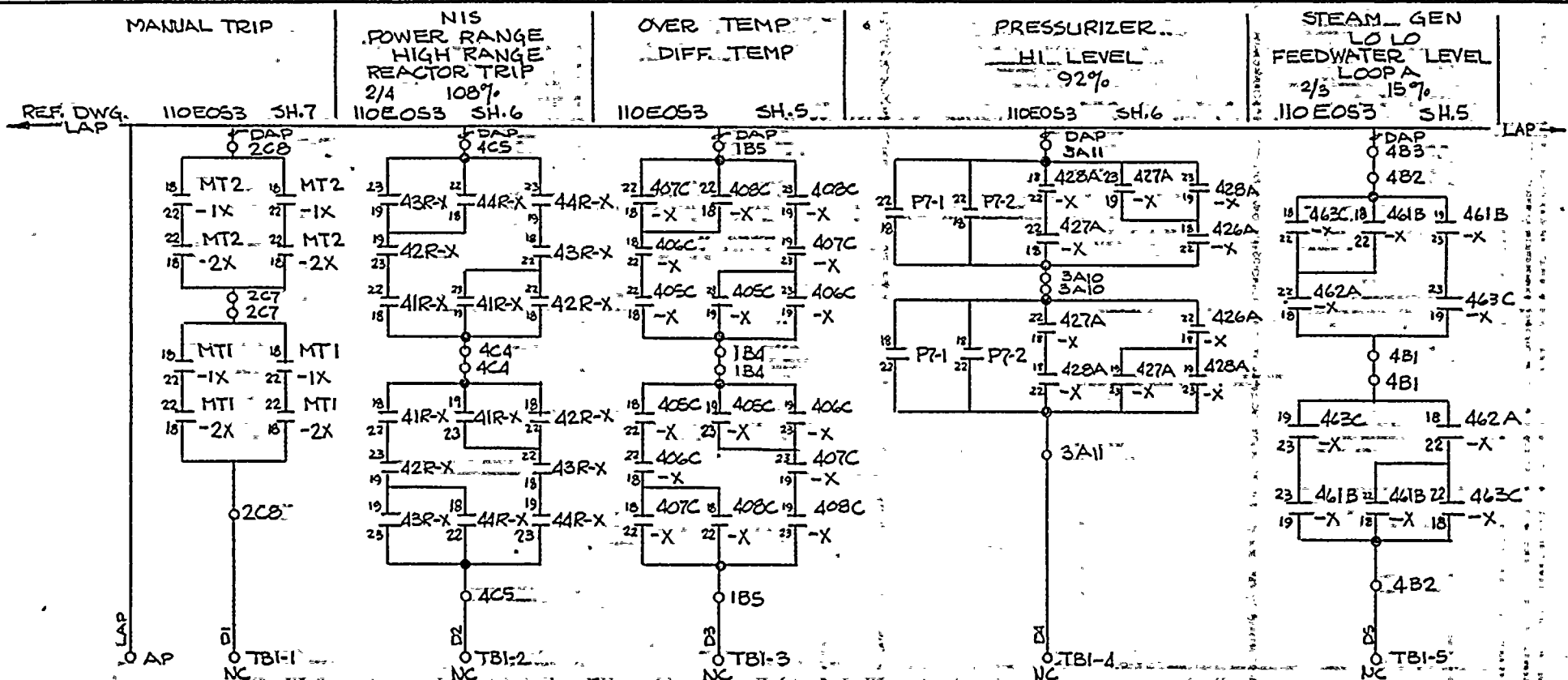
ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENG/NEE RING DEPT

NO. 10905-372

R.E. GINDA NUCLEAR POWER STA. UNIT #1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL C

| DATE | SCALE | NONE |
|---------|------------|----------|
| 8/72 | | |
| DRAWN | CHK'D | APPROVED |
| TRACED | | |
| CHECKED | FOLDER NO. | JOB NO. |
| | | |



NOTE

NC - JUMPER TERM. 1 & 2 ON ANN. DROP
NO - JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERSEDES W. DWG. 499B425 SH. 374

| REV. | | | | | |
|----------|------|----------|---------|-----|---------|
| ORIGINAL | W | RW | REQ. | QEA | 4/30/76 |
| DWN BY | CKID | RESP ENG | ENG MGR | | |

ROBERT EMMETT GINNA NUCLEAR POWER
STATION - UNIT NO. 1
ELEMENTARY WIRING DIAGRAM

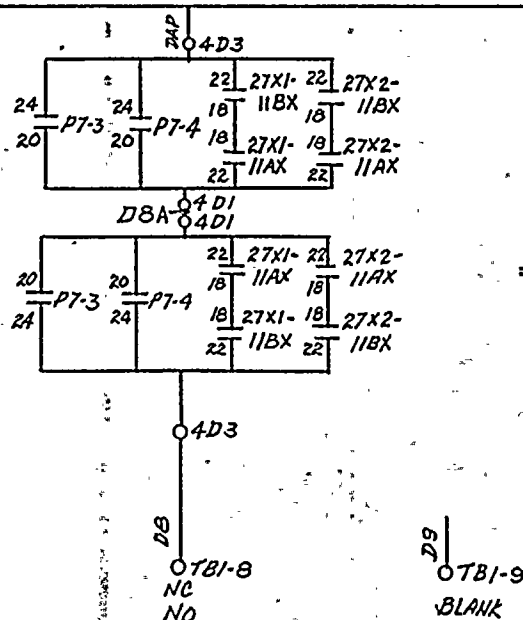
ANNUNCIATOR PANEL D

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

DEPT
NO. 10905-374

4KV. BUS UNDER VOLTAGE

110E053 SH.-8 R21.21



NOTE:

NG: JUMPER TERM 1 & 2 ON ANN DROP
NO: JUMPER TERM 1 & 3 ON ANN DROP
THIS DRAWING SUPERCEDES WESTINGHOUSE
DWG. 499 B 425, SHT. 375, (REV. 2)

| | | | | | | | | | |
|----------|----------|---------|-----|-------|--------|--|--|--|--|
| REV. | | | | | | | | | |
| ORIGINAL | N.J.A. | EHM | REF | ENG'R | DATE | | | | |
| | DRAWN BY | 4/17/75 | PCB | ENG'R | 6/5/75 | | | | |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

DEPT
ENGINEERING

No. 10905-375

ROBERT EMMETT GINNA NUCLEAR STA. UNIT I.
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL D

NUCLEAR STA. UNIT I.
RING DIAGRAM
PANEL D

| | | | | | |
|---------|------|------|------|------------|------|
| DRAWN | N.H. | DATE | 9/14 | SCALE | NONE |
| TRACED | | | | APPROVED | |
| CHECKED | | | | FOLDER NO. | |
| | | | | JOB NO. | |

N.I.S. POWER RANGE LOW
RANGE REACTOR TRIP

OVER POWER
DIFF. TEMP.

PRESSURIZER
HI. PRESS

STEAM GEN. FEED WATER
LO FLOW OR LEVEL
LOOP A

STEAM GEN. FEED WATER
LO FLOW OR LEVEL
LOOP B

LAP

REF. DWG.
LAP

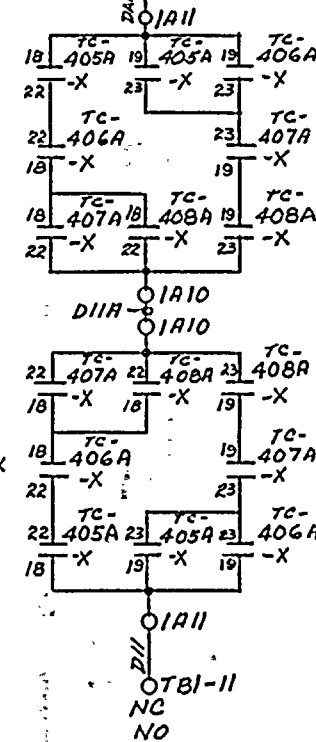
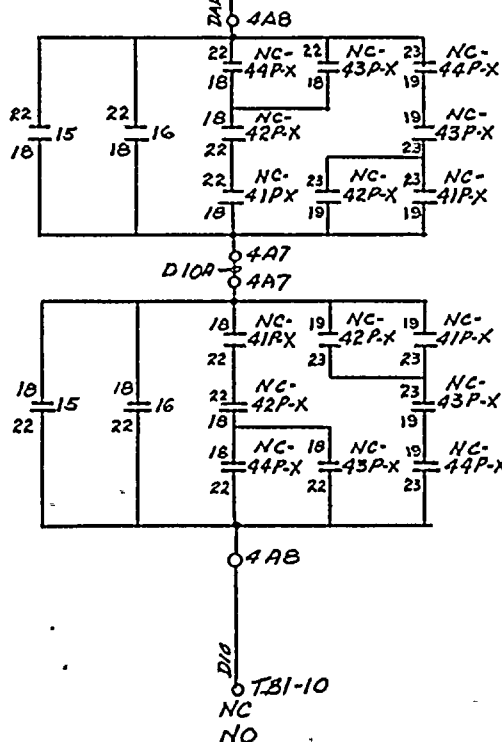
110E053 SH. 3 R 211C
R 2135

110E053 SH. 5 R 2122
R 2135

110E053 SH. 6 R 2125
R 2230

110E053 SH. 5 R 2224
R 2123

110E053 SH. 5 R 2224
R 2124



REACTOR COOLANT
LO FLOW, LOOP A

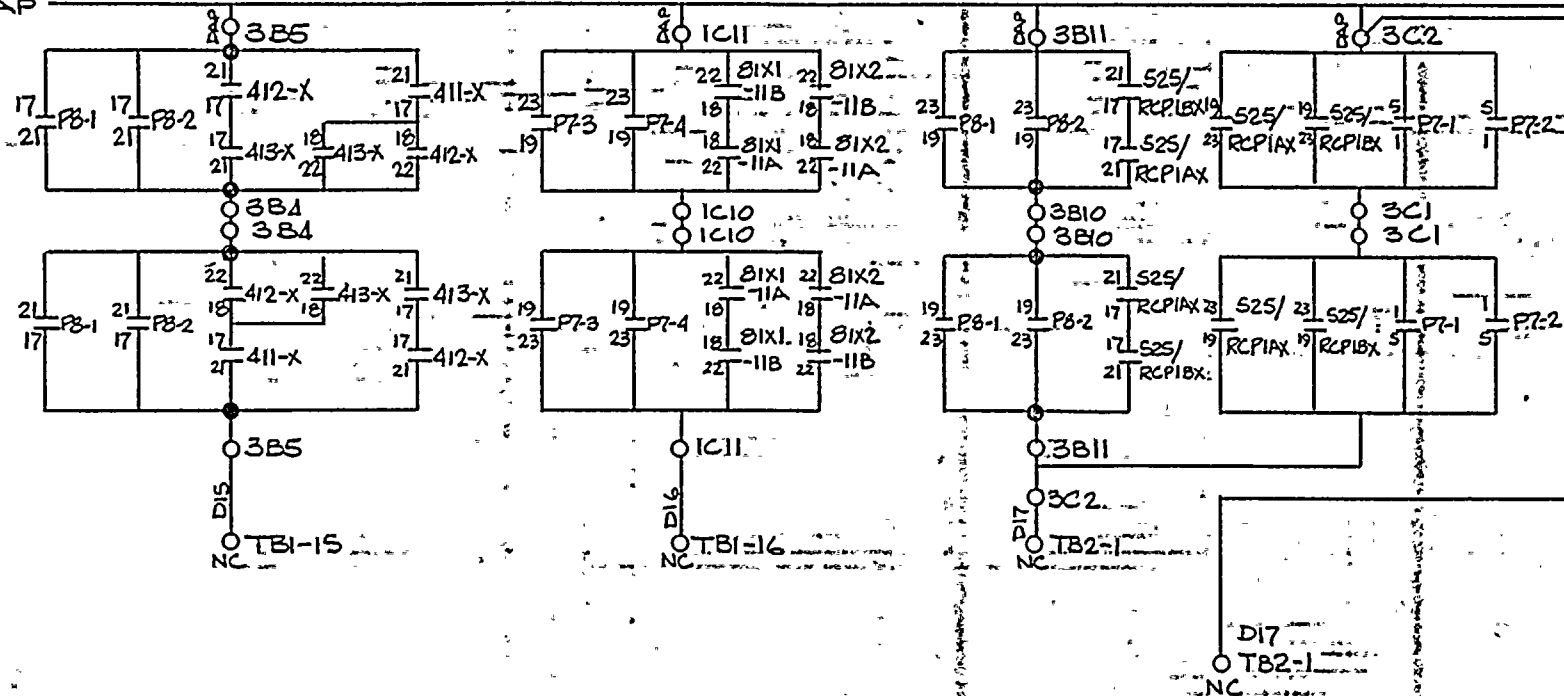
R2129, R2230

REF. DWG. 110E053 SH.7
LAP4 KV BUS
UNDER FREQUENCY58 Hz
R2127, R2217
110E053 SH.8REACTOR COOLANT
PUMPS TRIPPED

R 2129, R2231

110E053 SH.7

LAP



NOTE:

NC - JUMPER TERM. 1 & 2 ON ANN. DROP
 NO - JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERSEDES DWG. 499B425 SH. 377

| REV. | BY | CHKD | ENG | DATE |
|----------|------|------|------|---------|
| ORIGINAL | AWB | RW | WAB | JEL. |
| | DWN. | CKD | RESP | 5/28/61 |
| | BY | | ENG | |
| | | | MGR. | |

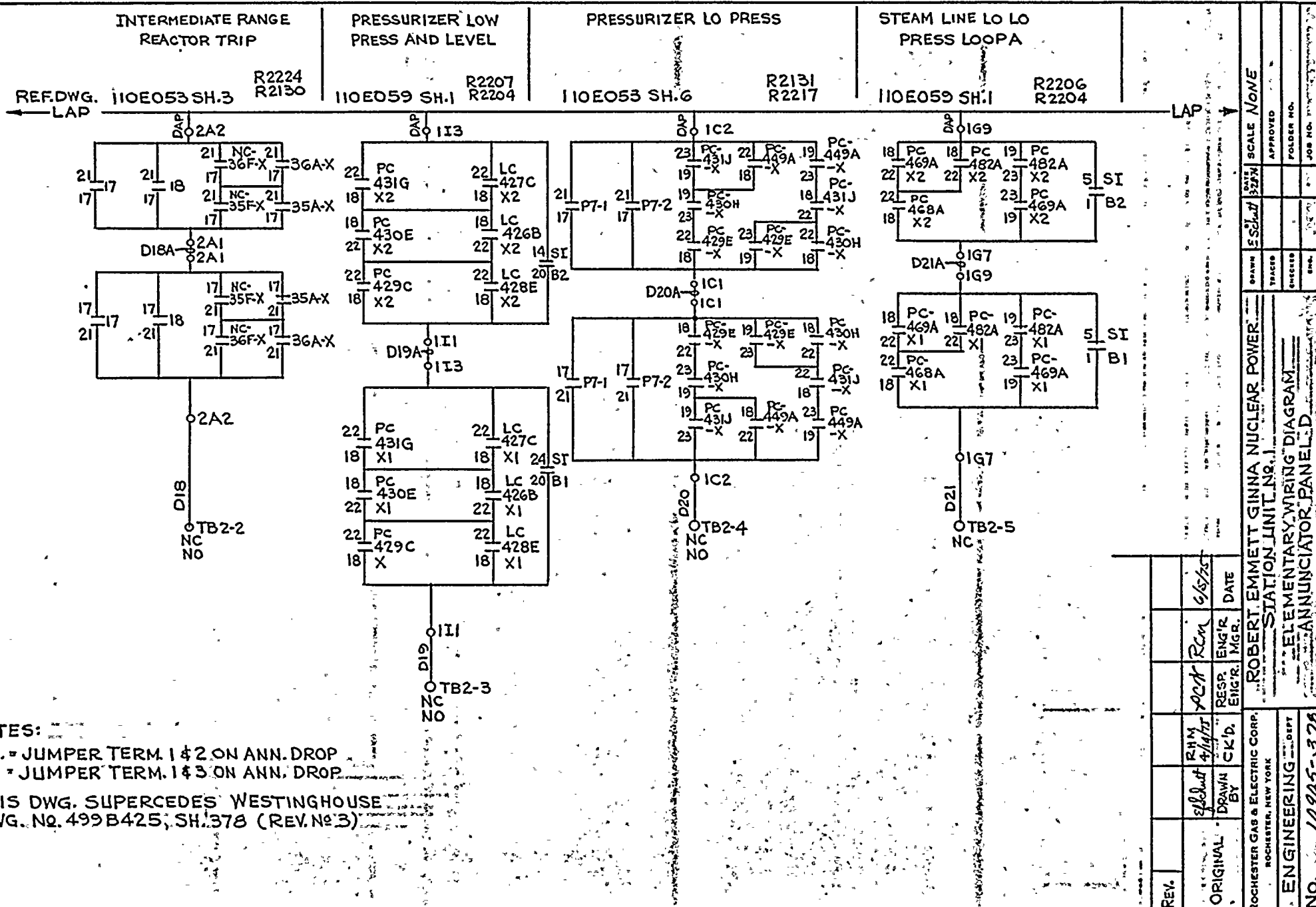
ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

DEPT

No. 10905-377

ROBERT EMMETT GUINA, NUCLEAR POWER, STATION
UNIT #1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANELDRAWN BY
TRACED
CHECKED
ENG.DATE
SCALE
APPROVED
FOLDER NO.

JOB NO.



NOTES:

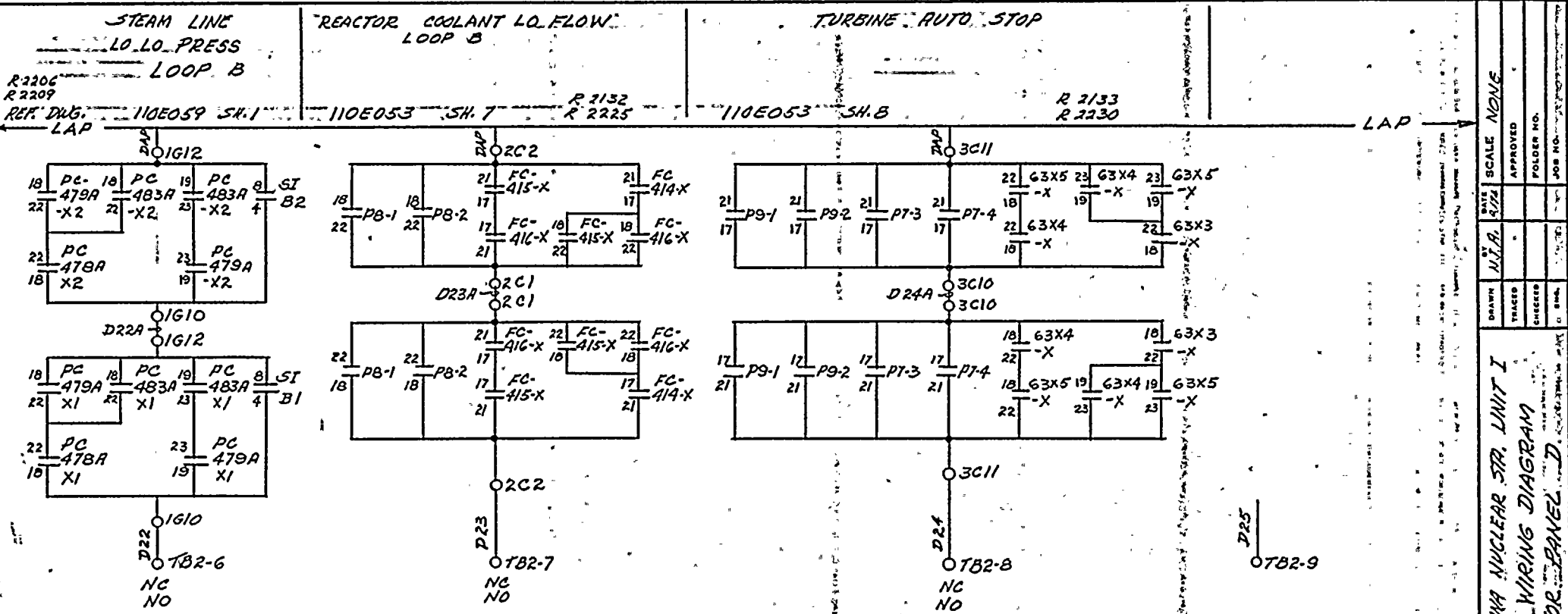
NC. = JUMPER TERM. 1 & 2 ON ANN. DROP

NO * JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERCEDES WESTINGHOUSE

DWG. NO. 499B425, SH. 378 (REV. NO. 3)

| | | | | |
|--|---|-----------------|-----------------|---------------|
| ROCHESTER GAS & ELECTRIC CORP.,
ROCHESTER, NEW YORK | ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT NO. 1 | DRAWN
5/5/64 | DATE
3/27/64 | SCALE
NONE |
| | | TRACES | | APPROVED |
| | | CHECKED | | FOLDER NO. |
| ENGINEERING DEPT | ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL | ENG. | JOB NO. | |
| NO. 10995-326 | | | | |



NOTE:
NC JUMPER TERM 1&2 ON ANN. DROP
NO JUMPER TERM 1&3 ON ANN. DROP
THIS DRAWING SUPERCEDES WESTINGHOUSE
DWG. 499.B425, SHT. 379, (REV. 3)

| REV. | DATE | BY | CHK'D | ENGR | DATE |
|------|---------|------|-------|------|------|
| 1 | 6/5/75 | Rev. | Rev. | ENGR | |
| 2 | 9/14/75 | Rev. | Rev. | ENGR | |
| 3 | | Rev. | Rev. | ENGR | |
| 4 | | Rev. | Rev. | ENGR | |
| 5 | | Rev. | Rev. | ENGR | |
| 6 | | Rev. | Rev. | ENGR | |
| 7 | | Rev. | Rev. | ENGR | |
| 8 | | Rev. | Rev. | ENGR | |
| 9 | | Rev. | Rev. | ENGR | |
| 10 | | Rev. | Rev. | ENGR | |
| 11 | | Rev. | Rev. | ENGR | |
| 12 | | Rev. | Rev. | ENGR | |
| 13 | | Rev. | Rev. | ENGR | |
| 14 | | Rev. | Rev. | ENGR | |
| 15 | | Rev. | Rev. | ENGR | |
| 16 | | Rev. | Rev. | ENGR | |
| 17 | | Rev. | Rev. | ENGR | |
| 18 | | Rev. | Rev. | ENGR | |
| 19 | | Rev. | Rev. | ENGR | |
| 20 | | Rev. | Rev. | ENGR | |
| 21 | | Rev. | Rev. | ENGR | |
| 22 | | Rev. | Rev. | ENGR | |
| 23 | | Rev. | Rev. | ENGR | |
| 24 | | Rev. | Rev. | ENGR | |
| 25 | | Rev. | Rev. | ENGR | |
| 26 | | Rev. | Rev. | ENGR | |
| 27 | | Rev. | Rev. | ENGR | |
| 28 | | Rev. | Rev. | ENGR | |
| 29 | | Rev. | Rev. | ENGR | |
| 30 | | Rev. | Rev. | ENGR | |
| 31 | | Rev. | Rev. | ENGR | |
| 32 | | Rev. | Rev. | ENGR | |
| 33 | | Rev. | Rev. | ENGR | |
| 34 | | Rev. | Rev. | ENGR | |
| 35 | | Rev. | Rev. | ENGR | |
| 36 | | Rev. | Rev. | ENGR | |
| 37 | | Rev. | Rev. | ENGR | |
| 38 | | Rev. | Rev. | ENGR | |
| 39 | | Rev. | Rev. | ENGR | |
| 40 | | Rev. | Rev. | ENGR | |
| 41 | | Rev. | Rev. | ENGR | |
| 42 | | Rev. | Rev. | ENGR | |
| 43 | | Rev. | Rev. | ENGR | |
| 44 | | Rev. | Rev. | ENGR | |
| 45 | | Rev. | Rev. | ENGR | |
| 46 | | Rev. | Rev. | ENGR | |
| 47 | | Rev. | Rev. | ENGR | |
| 48 | | Rev. | Rev. | ENGR | |
| 49 | | Rev. | Rev. | ENGR | |
| 50 | | Rev. | Rev. | ENGR | |
| 51 | | Rev. | Rev. | ENGR | |
| 52 | | Rev. | Rev. | ENGR | |
| 53 | | Rev. | Rev. | ENGR | |
| 54 | | Rev. | Rev. | ENGR | |
| 55 | | Rev. | Rev. | ENGR | |
| 56 | | Rev. | Rev. | ENGR | |
| 57 | | Rev. | Rev. | ENGR | |
| 58 | | Rev. | Rev. | ENGR | |
| 59 | | Rev. | Rev. | ENGR | |
| 60 | | Rev. | Rev. | ENGR | |
| 61 | | Rev. | Rev. | ENGR | |
| 62 | | Rev. | Rev. | ENGR | |
| 63 | | Rev. | Rev. | ENGR | |
| 64 | | Rev. | Rev. | ENGR | |
| 65 | | Rev. | Rev. | ENGR | |
| 66 | | Rev. | Rev. | ENGR | |
| 67 | | Rev. | Rev. | ENGR | |
| 68 | | Rev. | Rev. | ENGR | |
| 69 | | Rev. | Rev. | ENGR | |
| 70 | | Rev. | Rev. | ENGR | |
| 71 | | Rev. | Rev. | ENGR | |
| 72 | | Rev. | Rev. | ENGR | |
| 73 | | Rev. | Rev. | ENGR | |
| 74 | | Rev. | Rev. | ENGR | |
| 75 | | Rev. | Rev. | ENGR | |
| 76 | | Rev. | Rev. | ENGR | |
| 77 | | Rev. | Rev. | ENGR | |
| 78 | | Rev. | Rev. | ENGR | |
| 79 | | Rev. | Rev. | ENGR | |
| 80 | | Rev. | Rev. | ENGR | |
| 81 | | Rev. | Rev. | ENGR | |
| 82 | | Rev. | Rev. | ENGR | |
| 83 | | Rev. | Rev. | ENGR | |
| 84 | | Rev. | Rev. | ENGR | |
| 85 | | Rev. | Rev. | ENGR | |
| 86 | | Rev. | Rev. | ENGR | |
| 87 | | Rev. | Rev. | ENGR | |
| 88 | | Rev. | Rev. | ENGR | |
| 89 | | Rev. | Rev. | ENGR | |
| 90 | | Rev. | Rev. | ENGR | |
| 91 | | Rev. | Rev. | ENGR | |
| 92 | | Rev. | Rev. | ENGR | |
| 93 | | Rev. | Rev. | ENGR | |
| 94 | | Rev. | Rev. | ENGR | |
| 95 | | Rev. | Rev. | ENGR | |
| 96 | | Rev. | Rev. | ENGR | |
| 97 | | Rev. | Rev. | ENGR | |
| 98 | | Rev. | Rev. | ENGR | |
| 99 | | Rev. | Rev. | ENGR | |
| 100 | | Rev. | Rev. | ENGR | |

ROBERT EMMETT GINNA NUCLEAR STR. UNIT I
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL D

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

NO. 10905-379

4 - SOURCE RANGE
HIGH FLUX
LEVEL
REACTOR TRIP

CONTAINMENT
PRESSURE

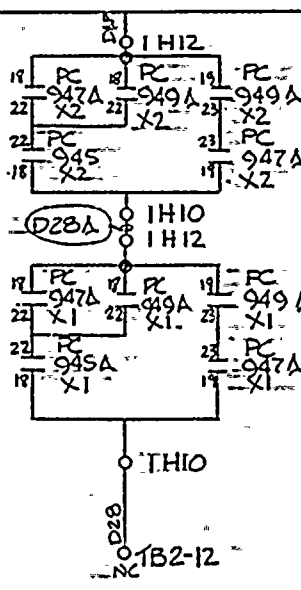
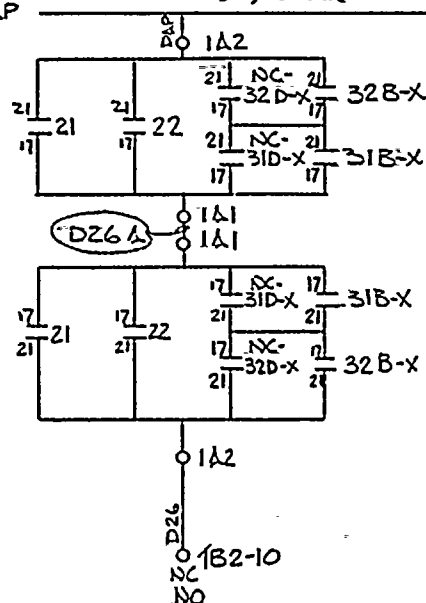
R2206
R2205

IDEOSA'S H.I.

REF. DWG.
—TAP

11CE053 SH.3

R2218
R2134



- LAP

DOYE

NC = JUMPER TERM. 18 ZON ANN. DROP

NO JUMPER TERM. 1¢3 ON ANN. DROP

THIS DRAWING SUPERCEDES WESTINGHOUSE
DWG. 499 B425, SHT. 380, (REV. 3)

DWG. 499 B425, SHT. 380, (REV. 3)

| | | | | | | |
|----------|------|----------|----------------|---------------|---------------|------|
| REV. | | | RHM
4/14/75 | PCH Rm | 46/30 | |
| ORIGINAL | A.V. | DRAWN BY | CK'D. | RESP.
ENGR | ENG'R
MGR. | DATE |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

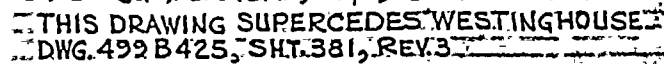
ENGINEERING DEPT

No. 10905-380

R.E.G.I.S.T.R.A.R
E.L.E.M.E.N.T.A.R.Y.
A.C.C.O.U.N.T.S.

R2135
R2217

110E053 SH.8

[illegible]

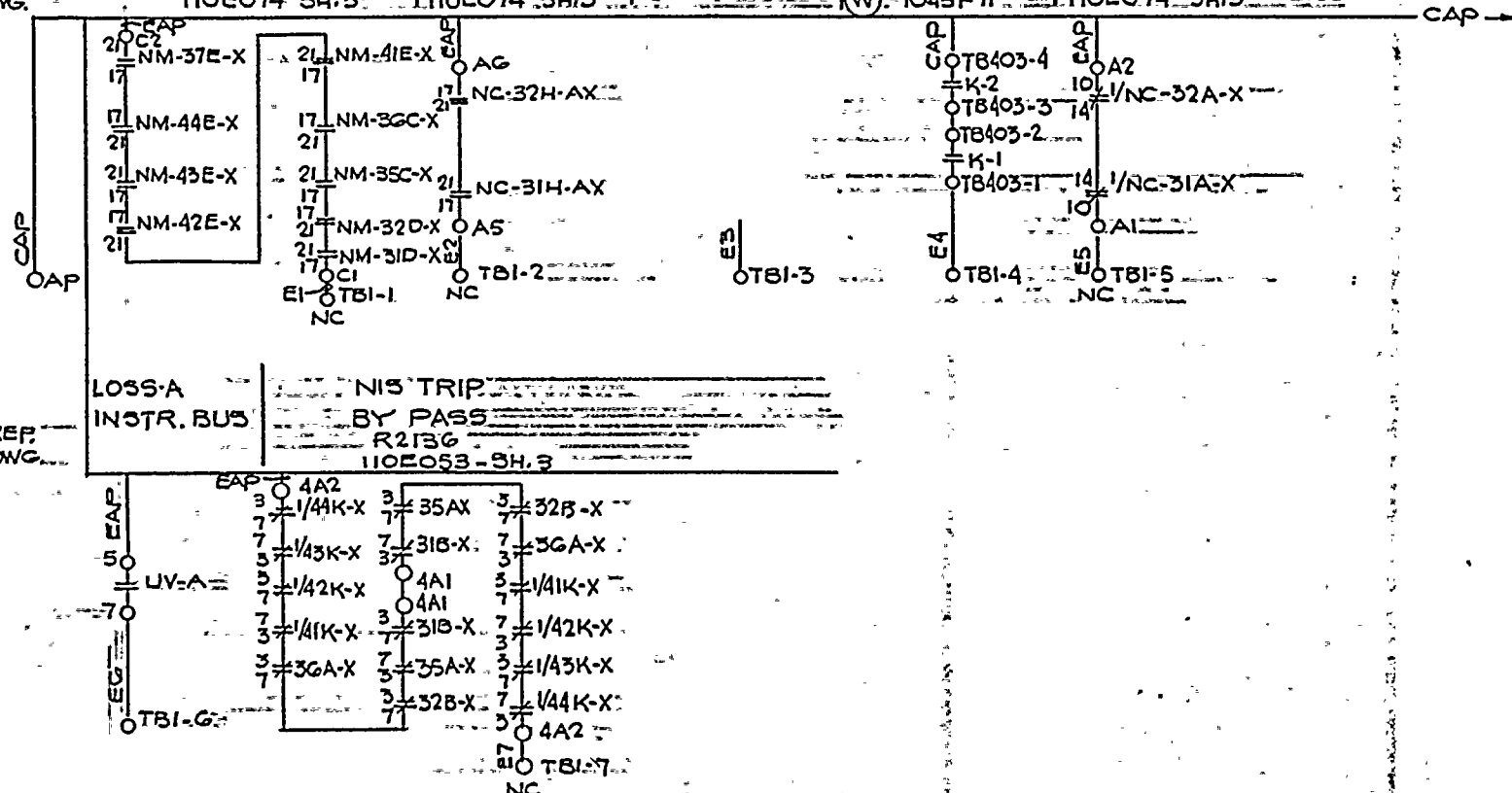
REF. DWG. R2145 110E074 54.3

R2145
110E074 54.3

SOURCE -
RANGE - LOSS
OF DETECTOR
VOLTAGE -
R214G
110E074 SH.3

NIS PWR RANGE
UPPER DETECTOR
HIGH FLUX DEV.
OR AUTO-DEFEAT

SOURCE RANGE
HI SHUT DOWN
FLUX ALARM
BLOCKED
R2147
110E074 SH.3



NC - JUMPER TERM. 142 ON ANN. DROP.
NO - JUMPER TERM. 143 ON ANN. DROP

THIS DRAWING SUPERCEDES WESTINGHOUSE DWG. NO. 499B425-383

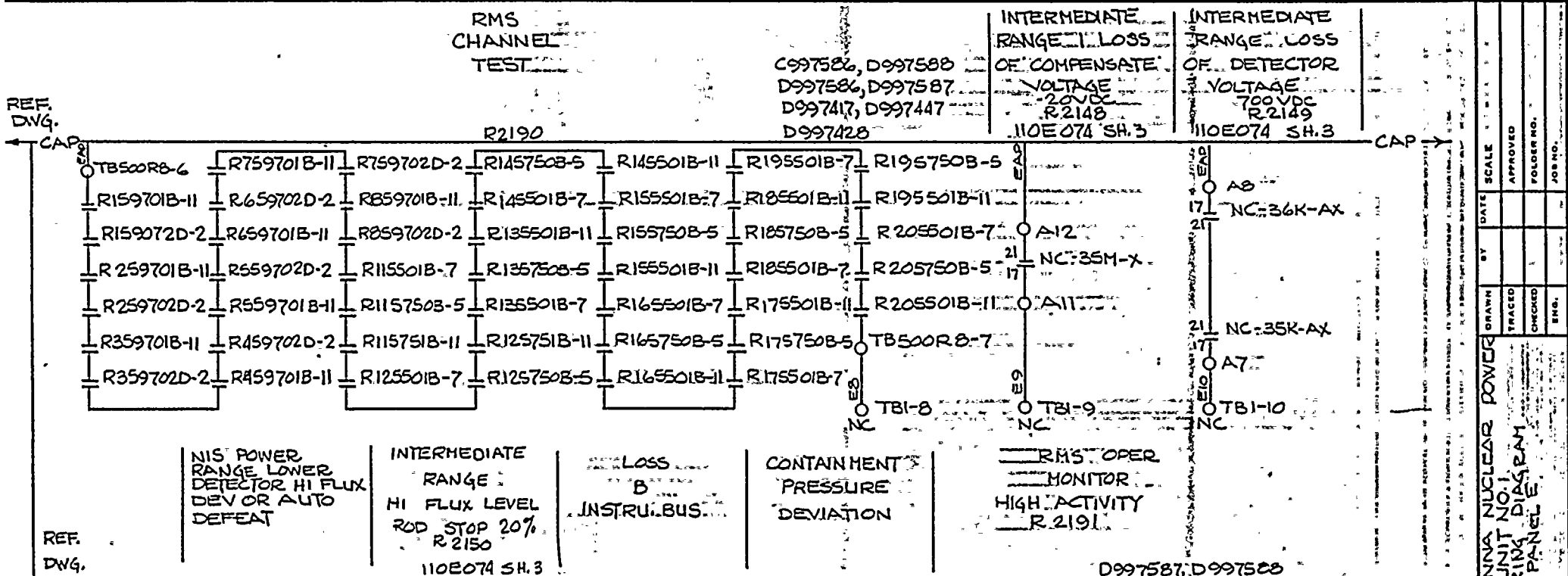
| | | | | | | |
|----------|----------|----------------|-----------------|-------------|---------|--|
| REV. | | | | | | |
| ORIGINAL | DH | Rev
1-7-77 | 7728
1-11-77 | 728 | 1-11-77 | |
| | DRAWN BY | CKED
KIRKIN | RESP
ENGR | ENGR
MGR | DATE | |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

No. 10905-383

ROBERT EMMETT GINNA NUCLEAR
POWER STATION UNIT No. 1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL - F



NOTE

NC - JUMPER TERM. 1 & 2 ON ANN. DROP
 NO - JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERSEDES 12 DWG. 4998425 SH.384

| REV. | BY | CHK'D | RESP. ENG | ENG. MGR | DATE |
|----------|-----|-------|-----------|----------|---------|
| ORIGINAL | WVF | Rm | 7/11 | 9/21 | 4/20/76 |
| | DWN | BY | CK'D | ENG | DATE |

ROCHESTER GAS & ELECTRIC CORP.
 ROCHESTER, NEW YORK

ROBERT EMMETT GINNA NUCLEAR POWER
 STATION - UNIT NO. 1
 ELEMENTARY WIRING DIAGRAM
 ANNUNCIATOR PANEL E

No. 10905-384

INTERMEDIATE
RANGE 2 LOSS
OF COMPENSATE
VOLTAGE

NIS PWR RANGE
LOSS OF
DETECTOR
VOLTAGE

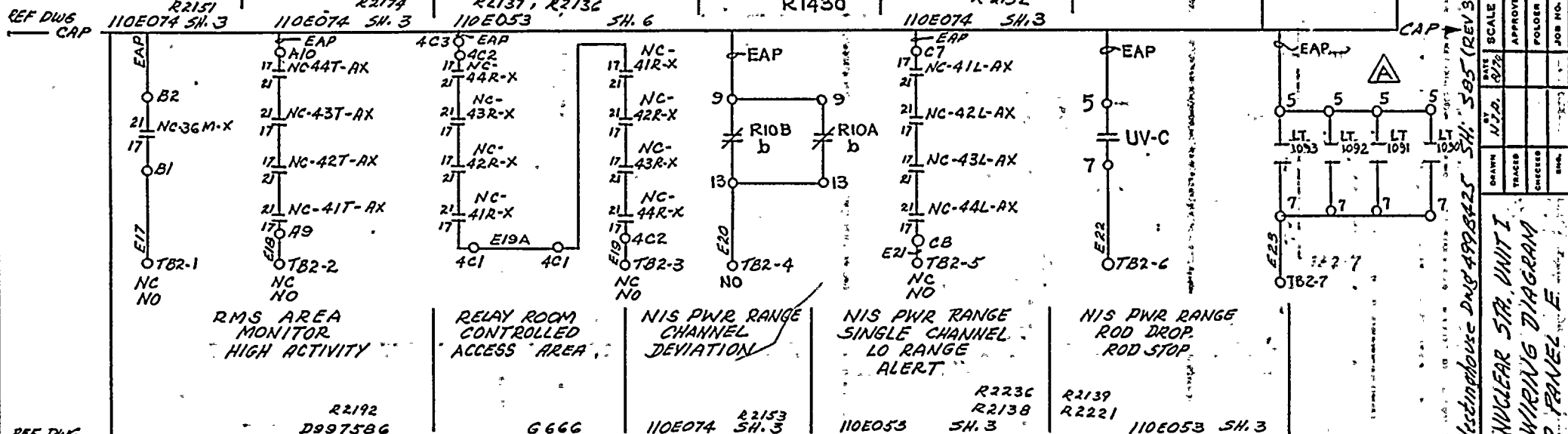
NIS PWR RANGE
SINGLE CHANNEL
HI RANGE
ALERT

RIOA OR RIOB
PUMP TRIP

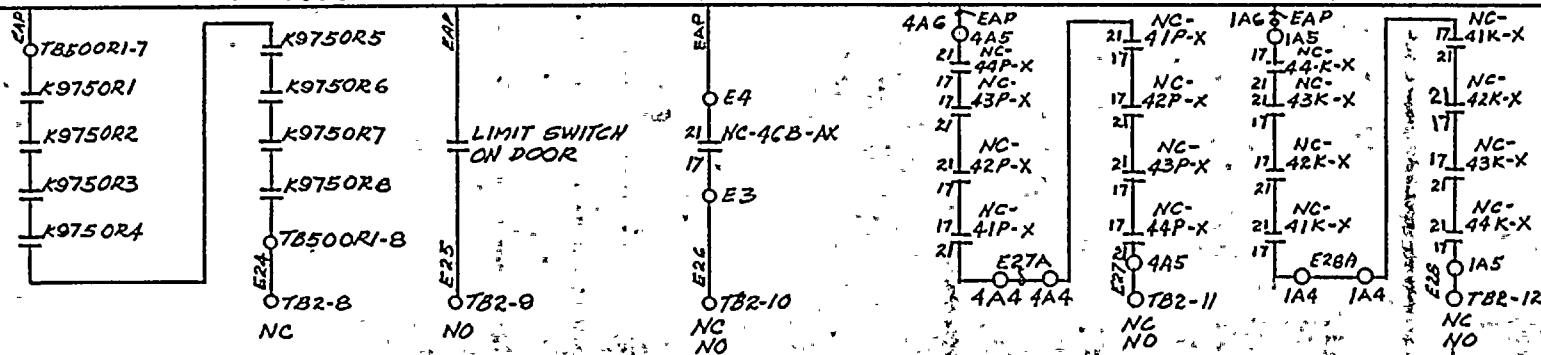
NIS PWR RANGE
OVER POWER
ROD STOP

LOSS C
INSTR. BUS

CONTAINMENT
RECIRC.FAN
CONDENSATE
HI LEVEL 7%



REF. DWG.



NOTE:

NC - JUMPER TERM. 1 & 2 ON ANN DROP
NO - JUMPER TERM. 1 & 3 ON ANN DROP

| REV. | DATE | BY | CHKD | APP'D | DATE |
|----------|---------|----------|------|-------------|------------|
| ORIGINAL | 8-12-75 | N.J.A. | RHM | PCN | 1/5/75 |
| | | DRAWN BY | CK'D | RESP. ENGR. | ENG'R MGR. |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

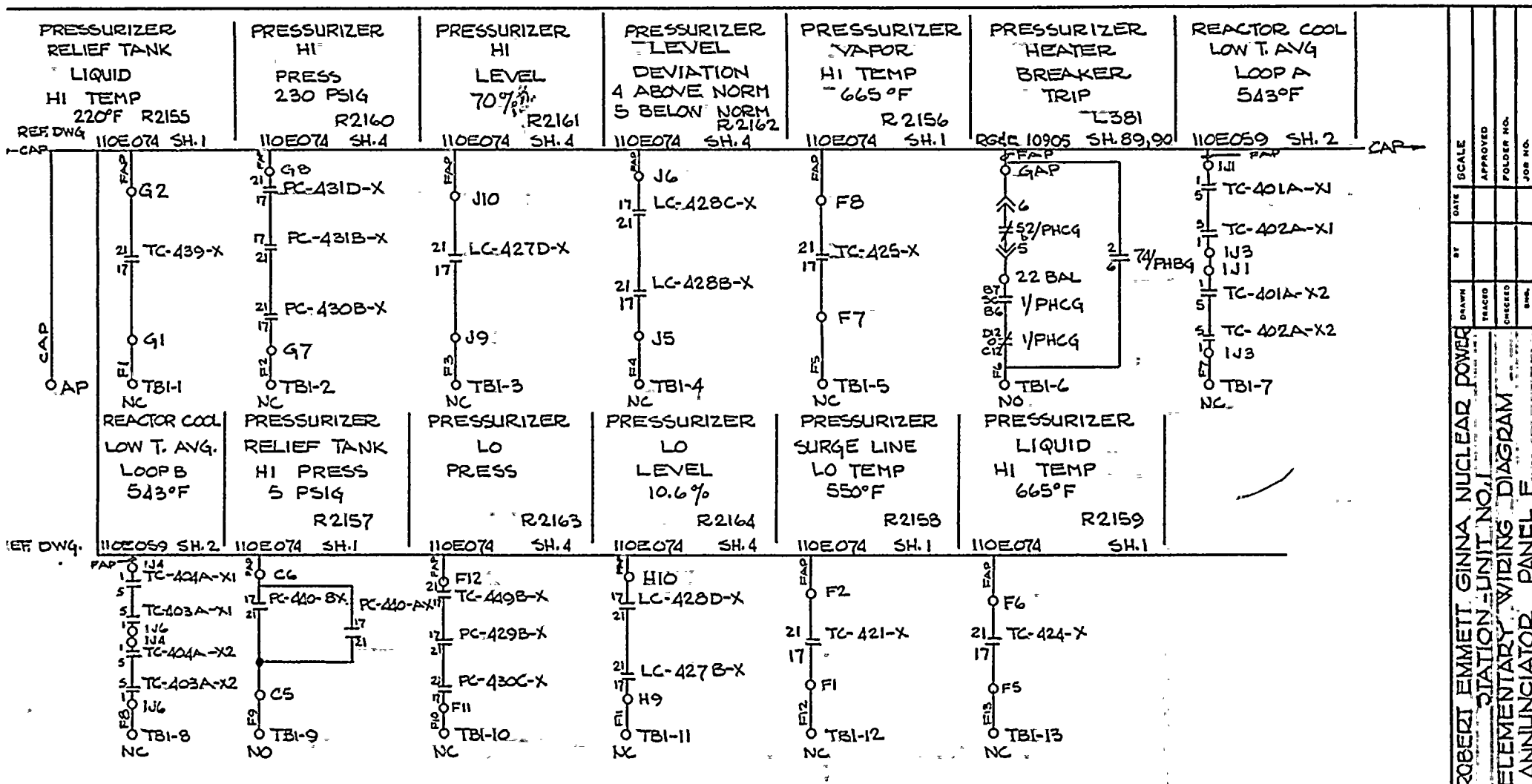
NO. 10905-385A

ROBERT EMMETT GUNNA NUCLEAR STA. UNIT 1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL F

DATE 1/2/75
SCALE NONE
APPROVED
FOLDER NO.
JOB NO.

SH. 585 (REV. 5)

THIS DWG. SUPERSEDES WIRINGHOUSE DWG. 4998425



NOTE

NC = JUMPER TERM. 1 & 2 ON ANN. DROP

NO = JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG SUPERSEDES W. DWG. 499B425 SH. 388

| REV. | | | | | |
|----------|--------|-------|-----------|----------|--------|
| ORIGINAL | AW | Rm | PLA | DEL | 4/6/56 |
| | DWN BY | CHK'D | RESP ENGR | ENGR MGR | DATE |

| | | | |
|-----------------------------------|--|---------|------------|
| ROBERT EMMETT GINNA NUCLEAR POWER | | DATE | SCALE |
| STATION - UNIT NO. 1 | | BY | APPROVED |
| ELEMENTARY WIRING DIAGRAM | | DRAWN | FOLDER NO. |
| ANNUNCIATOR PANEL F | | TRACED | JOB NO. |
| ROCHESTER GAS & ELECTRIC CORP. | | CHECKED | |
| ROCHESTER, NEW YORK | | DEPT | |
| No. 10905-388 | | | |

CHARGING PUMP
SPEED

REACTOR COOL
T. AVG. DEV

AVG. T. AVG.
T. REF.
DEVIATION

PRESSURIZER
RELIEF TANK
LEVEL
HI 84.5%
LO 60.8%

PRESSURIZER
SAFETY VALVE
OUTLET
HI TEMP
20° ABOVE AMB.

PRESSURIZER
RELIEF LINE
HI TEMP
20° ABOVE AMB.

REF. DWG. RS# 10905 SH. 71

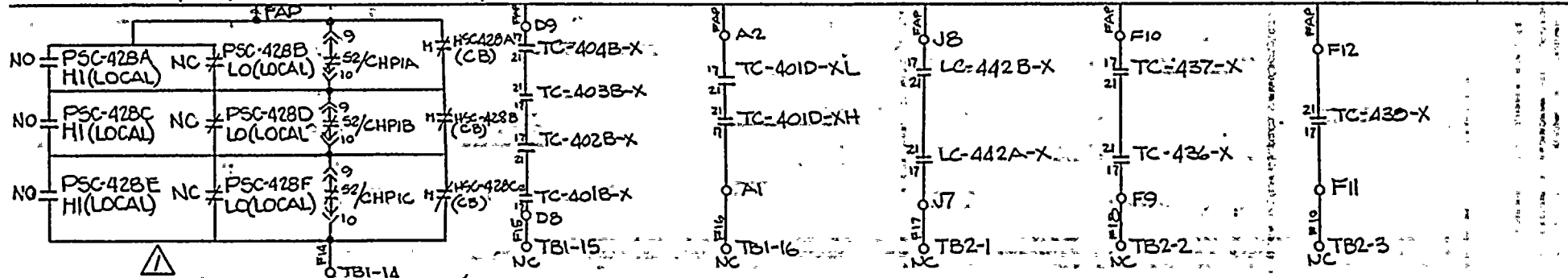
110E074 SH. 3

110E074 SH. 4

110E074 SH. 4

110E074 SH. 1

110E074 SH. 1



PRESSURIZER
SPRAY LINE
LO TEMP
475°F
110E074 SH. 1

HI COND. PRESS
OR LOSS OF
BOTH CIRC.
WTR PUMPS
110E053 SH. 8

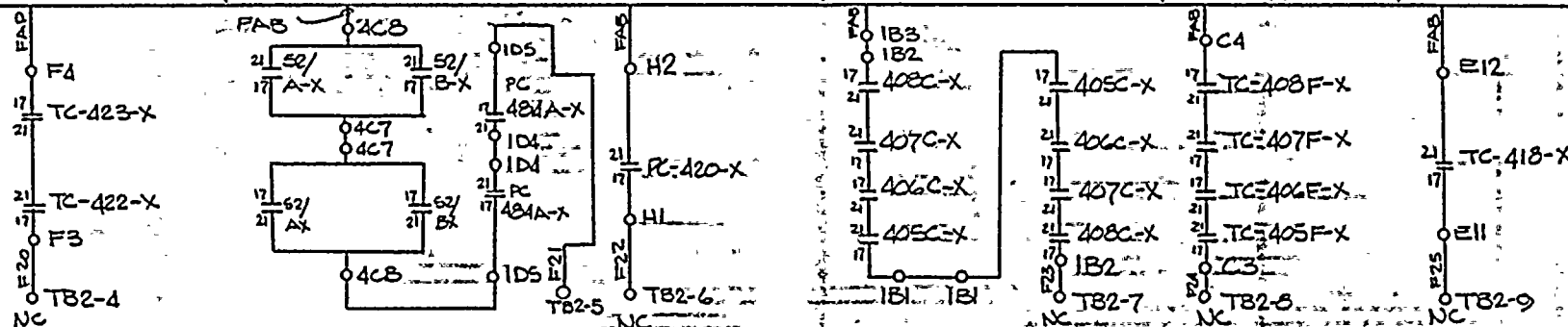
REACTOR
COOLANT
LO PRESS
110E074 SH. 1

REACTOR COOL
OVERTEMP AT
SINGLE CHANNEL
ALERT
110E053 SH. 5

REACTOR COOL
AVG. AT DEV
110E074 SH. 4

REACTOR VESSEL
FLANGE LEAKOFF
HI TEMP
20° ABOVE AMB.
110E074 SH. 1

REF. DWG.



NOTE

NC - JUMPER TERM. 1 & 2 ON ANN. DROP
NO - JUMPER TERM. 1 & 3 ON ANN. DROP

EWR1839

| REV. | DATE | BY | CHK'D | RESP | ENG | DATE |
|----------|--------|-----|-------|------|-----|---------|
| ORIGINAL | 5/9/77 | AW | Rm | REA. | JEL | 4/24/76 |
| | | DWN | CK'D | RESP | ENG | |

THIS DWG. SUPERSEDES W. DWG. 499B 425 SH. 389

| | | | | | |
|---|--|-------|----------|------------|---------|
| DATE | | SCALE | APPROVED | FOLDER NO. | JOB NO. |
| BY | | DATE | TRACED | CHECKED | DATE |
| ROBERT EMMETT GINNA NUCLEAR POWER
STATION - UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL | | | | | |
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | | | | |
| DEPT
No. 10905-389 | | | | | |

PRESSURIZER
HI-PRESSURE
SINGLE CHANNEL
ALERT

R 2142
R 2233

PRESSURIZER
LO PRESSURE
SINGLE CHANNEL
ALERT

PRESSURIZER
HI-LEVEL
SINGLE CHANNEL
ALERT

COMPUTER
AXIAL TILT
ALARM

AUTO. TURBINE
RUNBACK
OVER POWER
 ΔT
110E074 SH.3

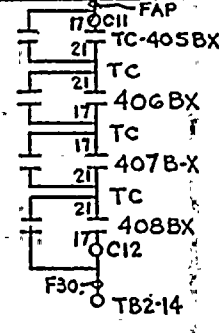
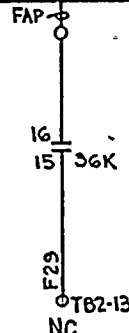
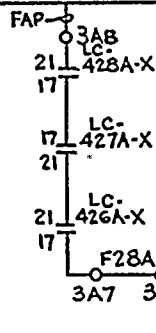
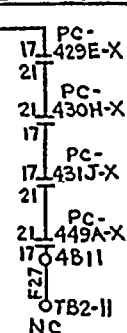
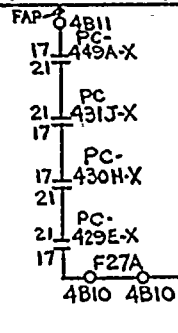
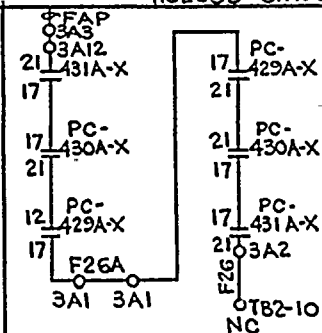
110E053 SHT. 6

110E053 SHT. 6

110E053 SHT. 6

(A-845)

EF.DWG.



AUTO TURBINE
RUNBACK
OVER TEMP.
 ΔT

REACTOR COOL
OVERPOWER ΔT
SINGLE CHANNEL
ALERT

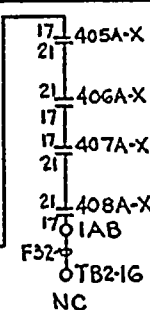
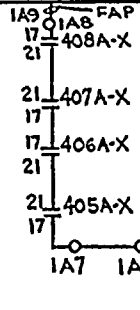
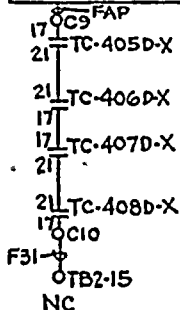
R 2171
R 2174

R 2141
R 2219

110E074 SHT. 3

110E053 SHT. 5

EF.DWG.



NOTE:

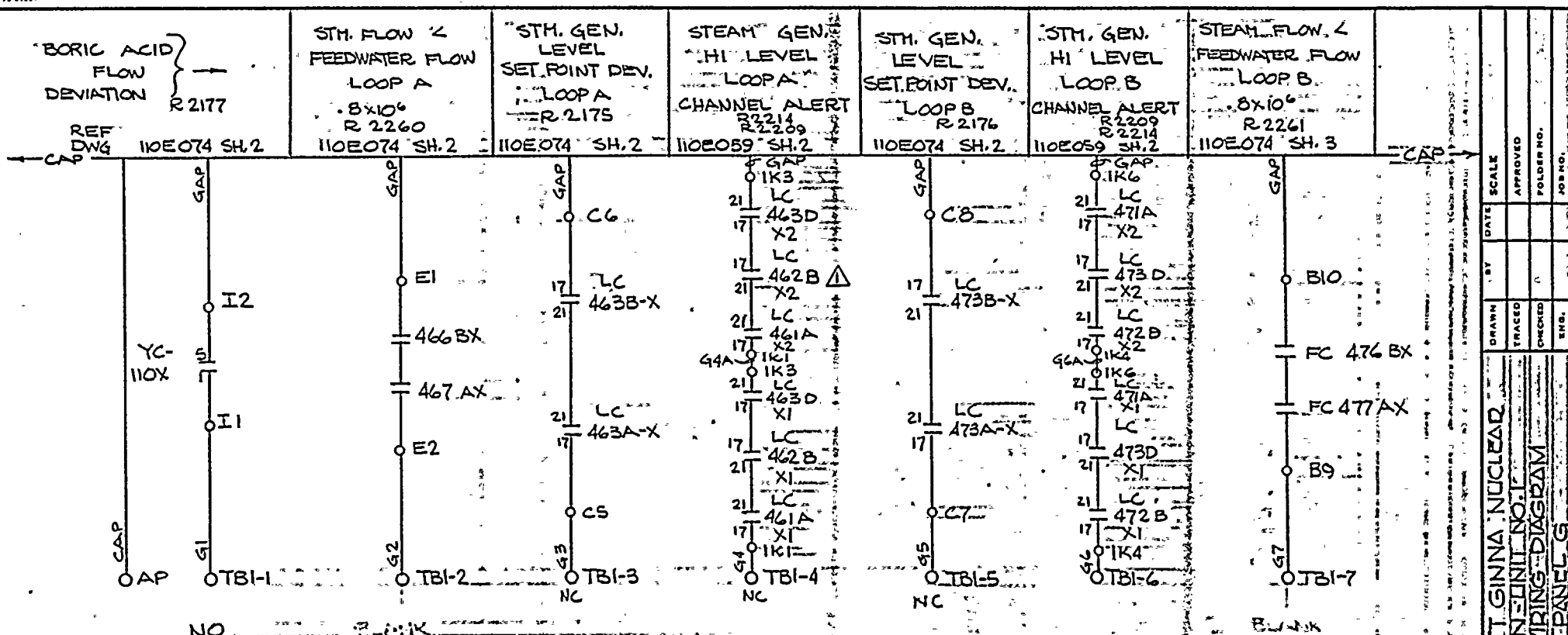
NC JUMPER TERM. 1 & 2 ON ANN. DROP
NO JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DRAWING SUPERCEDES WESTINGHOUSE
DWG. 499 B425 SHT. 390, (REV. 3)

| REV. | DATE | BY | SCALE | APPROVED | DATE |
|------|--------|-----|--------|----------|--------|
| 1 | 4/1/78 | RMM | 1/1/78 | ENG'R | 4/1/78 |
| 2 | 4/1/78 | EXP | 1/1/78 | ENG'R | 4/1/78 |
| 3 | 4/1/78 | EXP | 1/1/78 | ENG'R | 4/1/78 |
| 4 | 4/1/78 | EXP | 1/1/78 | ENG'R | 4/1/78 |
| 5 | 4/1/78 | EXP | 1/1/78 | ENG'R | 4/1/78 |
| 6 | 4/1/78 | EXP | 1/1/78 | ENG'R | 4/1/78 |
| 7 | 4/1/78 | EXP | 1/1/78 | ENG'R | 4/1/78 |
| 8 | 4/1/78 | EXP | 1/1/78 | ENG'R | 4/1/78 |
| 9 | 4/1/78 | EXP | 1/1/78 | ENG'R | 4/1/78 |
| 10 | 4/1/78 | EXP | 1/1/78 | ENG'R | 4/1/78 |

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL F

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING
No. 10905-390



NOTE
 NO JUMPER TERM. 1 & 3 ON ANN. DROP
 NC JUMPER TERM. 1 & 2 ON ANN. DROP

THIS DWG. SUPERSEDES W. DWG. 499B485 SH. 391

| REV. | DATE | BY | CHKD | APPD | DATE |
|----------|--------|-----|------|-------|---------|
| 1 | 7/6/76 | AW | RW | RES | 7/21/76 |
| ORIGINAL | | OWN | CKD | RESP. | DATE |

| | | | | | | | |
|--------------------------------|------|--------------------------|------|---------------------------|--------|---------------------|------|
| ROBERT EMMETT GINNA NUCLEAR | | POWER STATION UNIT NO. 1 | | ELEMENTARY WIRING DIAGRAM | | ANNUNCIATOR PANEL G | |
| ROCHESTER GAS & ELECTRIC CORP. | DEPT | SCALE | DATE | DRAWN | TRACED | CHECKED | ENG. |
| ROCHESTER, NEW YORK | | | | | | | |
| NO. 10905-392-2 | | FOLDER NO. | | JOB NO. | | | |

4KV. MOTOR
OVER LOAD

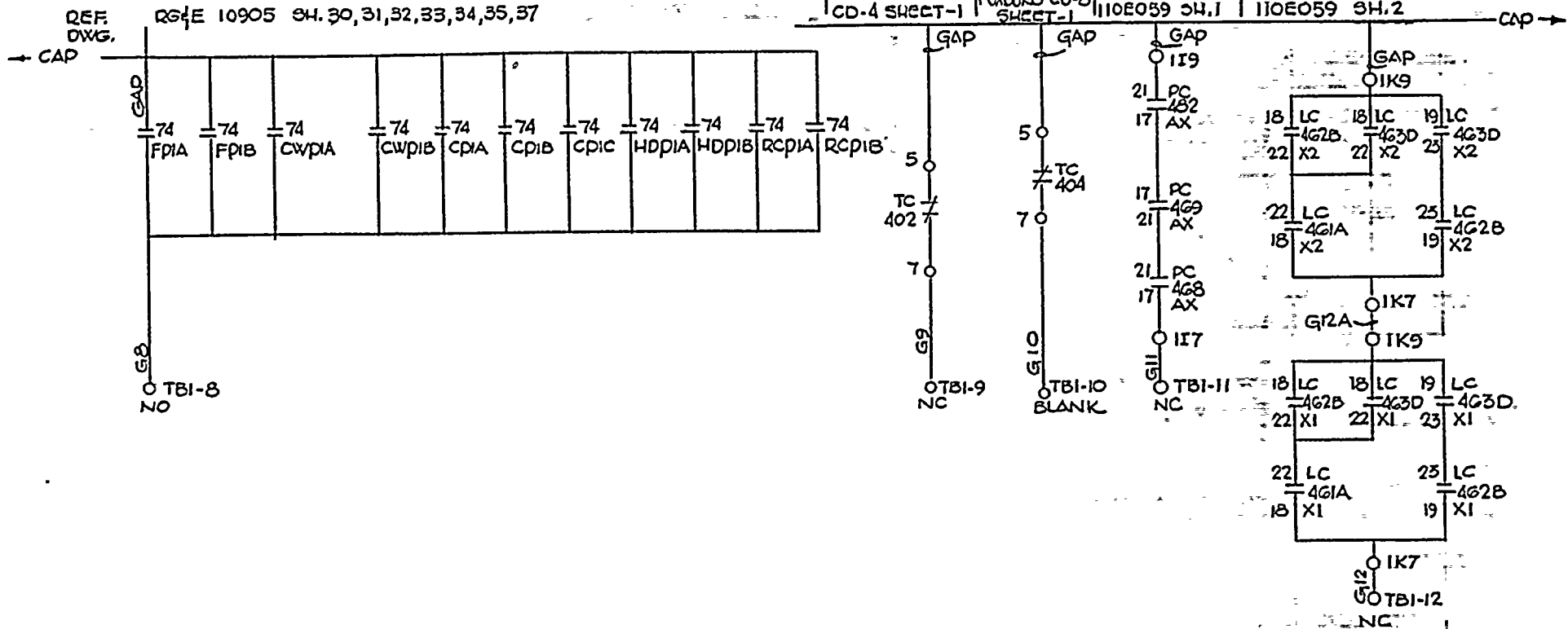
M31
MIG3
MI2

REACTOR COOL
HIGH-T AVG.
LOOP A 575°F
R-814
FOX80120
CD-4 SHEET-1

REACTOR COOL
HIGH-T AVG.
LOOP-B
575°F
R-854
FOX80120 CD-8
SHEET-1

LO STEAM
PRESSURE
LOOPA
R-2210
110E059 SH.1

STEAM GEN.
HI LEVEL
LOOP A 68%
R 2209
R 2214
110E059 SH.2



NOTES:

NC - JUMPER TERM 1 & 2 ON ANN. DROP
NO - JUMPER TERM 1 & 3 ON ANN. DROP

THIS DWG. SUPERCEDES WESTINGHOUSE DWG. 499B425, SH.393

| REV. | | | | | | |
|----------|----------|-------|-------------|--------------|-------|-------|
| ORIGINAL | DH. | Rev'd | Rev'd | Rev'd | Rev'd | Rev'd |
| | drawn by | ck'd | resp. engr. | eng'r. mang. | date | |

ROBERT EMMETT GINNA NUCLEAR
POWER STATION - UNIT NO.1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATION PANEL G

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

DEPT

No. 10905-393

LO STEAM LINE
PRESSURE
LOOP B
R 2209

STEAM GEN.
HI LEVEL
LOOP B 68%
R 2208
R 2215

STEAM DUMP
R 2215
R 2215

REHEATER
DRAIN TANK
HI LEVEL
G 642
G 643

REACTOR
MAKEUP WATER
FLOW DEVIATION
R 2215

STEAM GEN.
LOOP A
ISOLATION
R 2210

STM. GEN. LO
FW FLOW LOOP A
SINGLE CHANNEL
ALERT
R 2227
R 2219

REF
DWG. 110E059 SH.1

110E059 SH.2

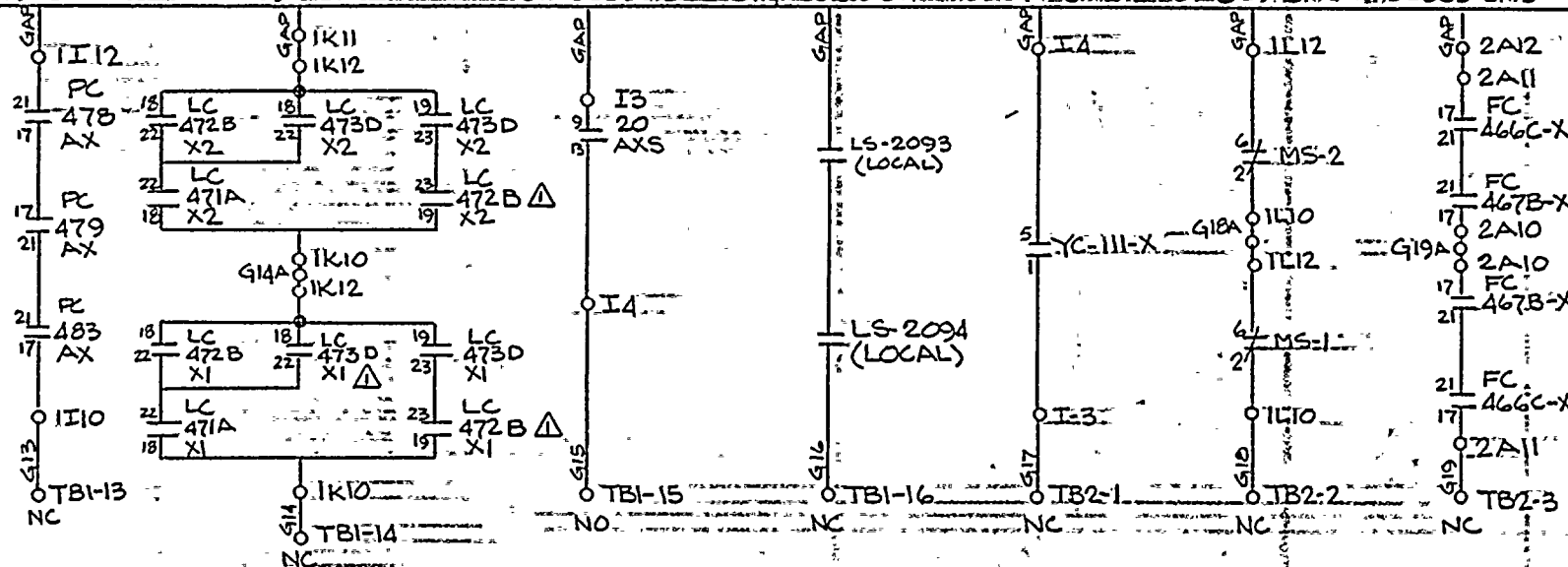
SH.336

DWG. SS-308-644

110E074 SH.2

110E059 SH.4

110E053 SH.5



NOTE

NC - JUMPER TERM. 1 & 2 ON ANN. DROP

NO - JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERSEDES W. DWG. 499 R 425 SH. 394

| REV. | DATE | BY | CHK'D | ENG. | DATE |
|------|--------|-----|-------|------|--------|
| 1 | 7/6/76 | AWJ | CK'D | ENG. | 7/9/76 |
| 2 | 7-7-76 | AWJ | CK'D | ENG. | 7-7-76 |
| 3 | 7-9-76 | AWJ | CK'D | ENG. | 7-9-76 |
| 4 | 7-9-76 | AWJ | CK'D | ENG. | 7-9-76 |
| 5 | 7-9-76 | AWJ | CK'D | ENG. | 7-9-76 |
| 6 | 7-9-76 | AWJ | CK'D | ENG. | 7-9-76 |
| 7 | 7-9-76 | AWJ | CK'D | ENG. | 7-9-76 |
| 8 | 7-9-76 | AWJ | CK'D | ENG. | 7-9-76 |
| 9 | 7-9-76 | AWJ | CK'D | ENG. | 7-9-76 |
| 10 | 7-9-76 | AWJ | CK'D | ENG. | 7-9-76 |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GINNA, NUCLEAR
POWER STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM

DATE SCALE
BY TRACED
DRAWN CHECKED
APPROVED
POLYMER NO.
JOB NO.

NO. 10905-394

R2226
R2180

REF.
DNG
—CA

STEAM GEN.
LO LEVEL .
LOOPA
CHANNEL ALERT
110E053 SH.5

STM. GEN. LO
FW FLOW LOOPB
SINGLE CHANNEL
ALERT R2276
R2201
.8x10⁶
110E053 SH.5

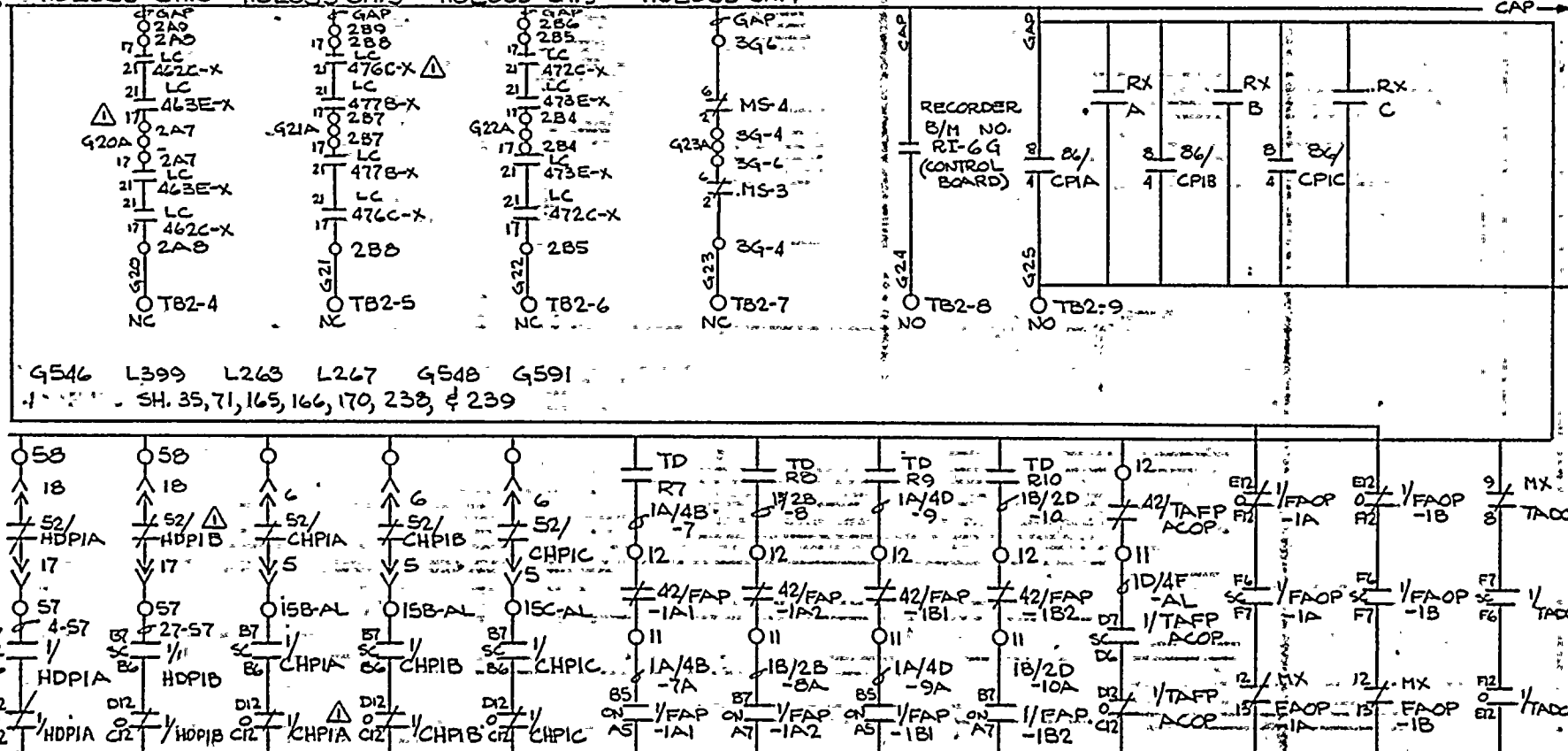
STEAM GEN
LO LEVEL
LOOP B
CHANNEL ALERT
R2226 .. R2182
110F053 44.5

STM GEN...
LOOP B
ISOLATION
R2213
R2211
110F053 SH.4

pH RECORDER

MOTOR OFF

[ALL PUMPS ON CENTER SECTION EXCEPT
FPIA, 1B, AND MAFPIA, 1B]
M40 M163 M31 M163
RG45-10905 SH. 32, 33 & 34



NOTE:

NC = JUMPER TERM. 1 & 2 ON ANN. DROP
NO = JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERSEDES W DWG. 499B 425 SH. 395

| | | | | | | |
|----------|---|--------------|---------------|----------------|-------------|---------|
| REV | ⚠ | Rm
7-6-76 | DFH
7-7-76 | RGA.
7-9-76 | REL | 7/9/76 |
| ORIGINAL | | AWF | Rm | RFI | REL | 11/2/76 |
| | | DWN
BY | CK'D | RESP
ENGR | ENGR
HGR | DATE |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

1

ROBERT EMMETT GINNA NUCLEAR
STATION-UNIT NO.1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL G

| | | | |
|-------|--------|---------|-----|
| DRAWN | TRACED | CHECKED | END |
|-------|--------|---------|-----|

| | | | |
|-------|----------|------------|---------|
| SCALE | APPROVED | FOLDER NO. | JOE NO. |
|-------|----------|------------|---------|

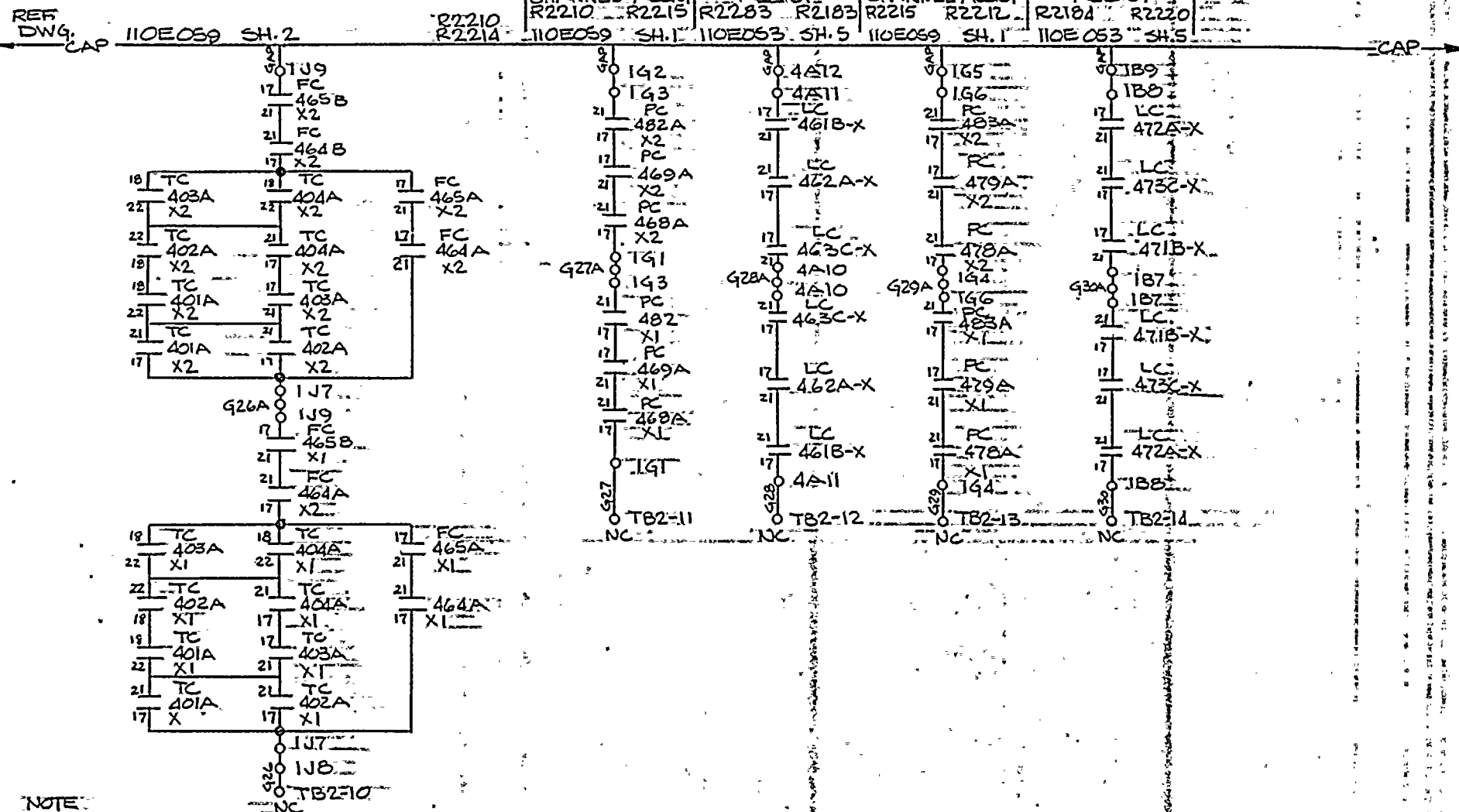
STEAM GEN.
LOOP A
HI STEAM FLOW

STEAM LINE
LO LO PRESS
LOOP A
CHANNEL ALERT
R2210 R2215

STM GEN. A
LO LO LEVEL
SINGLE CHANNEL
ALERT
R2283 R2183

STEAM LINE
LO LO PRESS
LOOP B
CHANNEL ALERT
R2215 R2217

STEAM GEN. B
LO LO LEVEL
SINGLE CHANNEL
ALERT
R2184 R2220



NOTE:
NC - JUMPER TERM. 1 & 2 ON ANN. DROP
NO - JUMPER TERM. 1 & 3 ON ANN. DROP

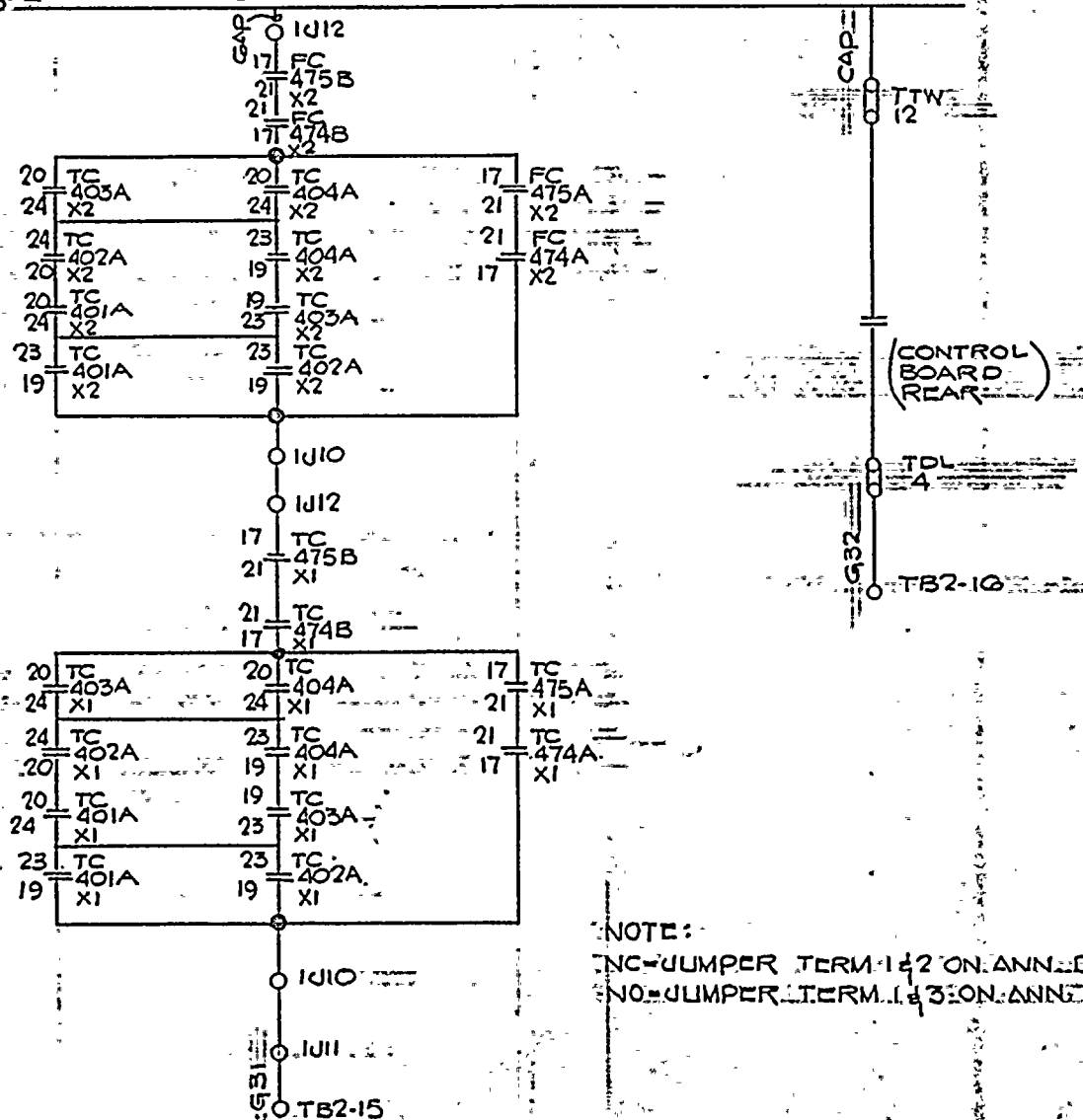
THIS DWG. SUPERSEDES DWG. 499B 425 SH. 396

| REV. | BY | CHK'D | RESP. ENGR | ENG. MGR. | DATE |
|----------|----|-------|------------|-----------|---------|
| ORIGINAL | AW | RW | RF | RF | 4/30/76 |

| | | | | | | |
|--|--|--------------|--------|---------|----------|------------|
| ROBERT EMMETT GINNA NUCLEAR
POWER STATION - UNIT NO. 1
ELEMENTARY WIRING DIAGRAM | | BY | DATE | SCALE | APPROVED | FOLDER NO. |
| ANNUNCIATOR PANEL G | | DRAWN | TRACED | CHECKED | ENG. | NO. |
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | NO. 4095-396 | | | | |

REF.
DWG.STEAM GEN
LOOP B
HI STEAM FLOW

110E059 SH. 2

CONDENSATE
CONDUCTIVITY
RECORDER

NOTE:

TC-JUMPER TERM. 1 & 2 ON ANN. DROP

NO JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERCEDES WESTINGHOUSE DWG. NO.
4995426-397

| REV | DATE | BY | CHK'D | RES'D | ENGR. MGR. | DATE |
|----------|------|-------|-------|-------|------------|---------|
| ORIGINAL | | DH | Rm | WAB | 988 | 1-11-77 |
| | | DRAWN | CK'D | RES'D | ENGR. MGR. | |
| | | BT | | ENR | | |

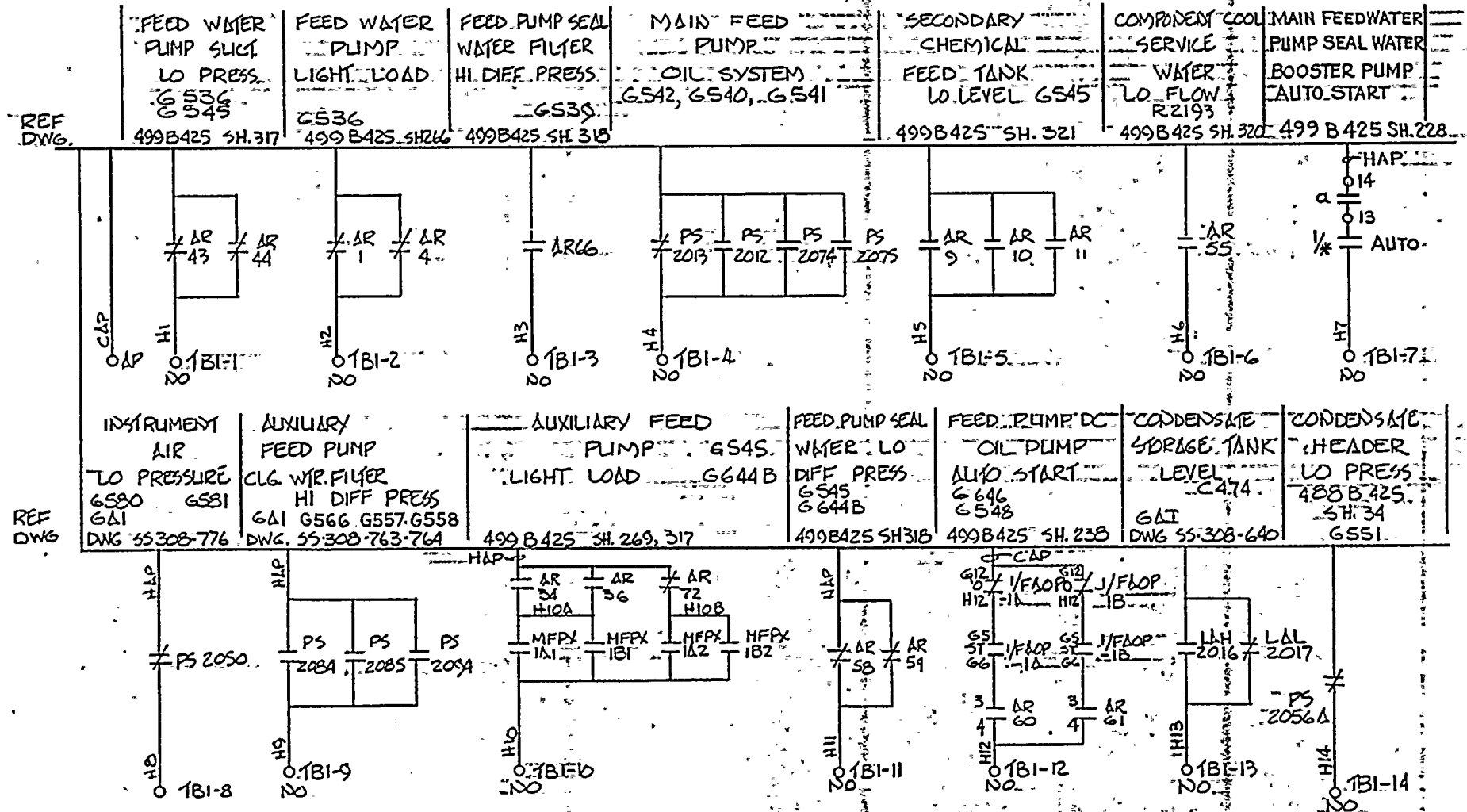
ROBERT EMMETT GINNA NUCLEAR
POWER-STATION UNIT NO. 1
ELEMENTARY WIRING-DIAGRAM
ANNUNCIATOR-PANEL-G

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

NO. 10905-397

DATE
BY
SCALE
TRACED
CHECKED
FOLDER NO.
JOB NO.



| REV. | | | | | |
|----------|-------|------------|----------|------|--------|
| ORIGINAL | A.V. | RHM | PCP | RCM | 4/5/75 |
| DRAWN BY | CK'D. | RESP. ENGR | ENGR MGR | DATE | |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

No. 10905-399

RE. GINNO, NUCLEAR POWER STA. UNIT 1

ELEMENTARY WIRING DIAGRAM

ANNUNCIATOR PANEL

DATE 4/11/75

BY 4/11/75

SCALE NONE

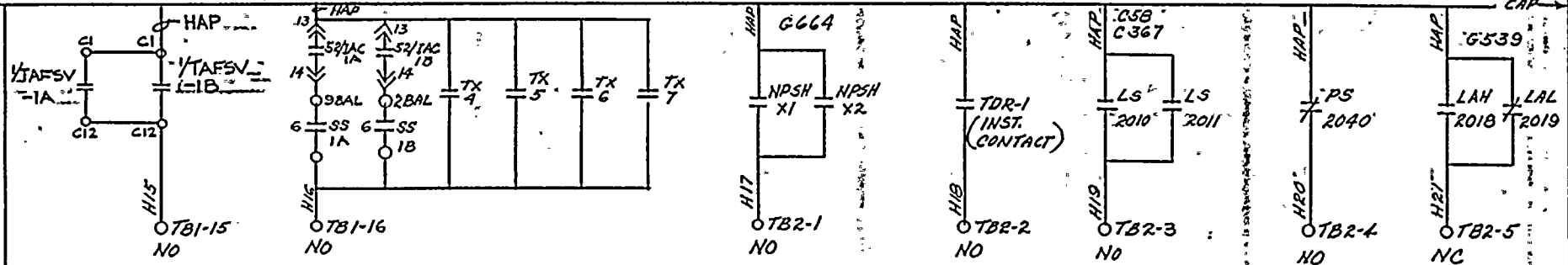
APPROVED

FOLDER NO.

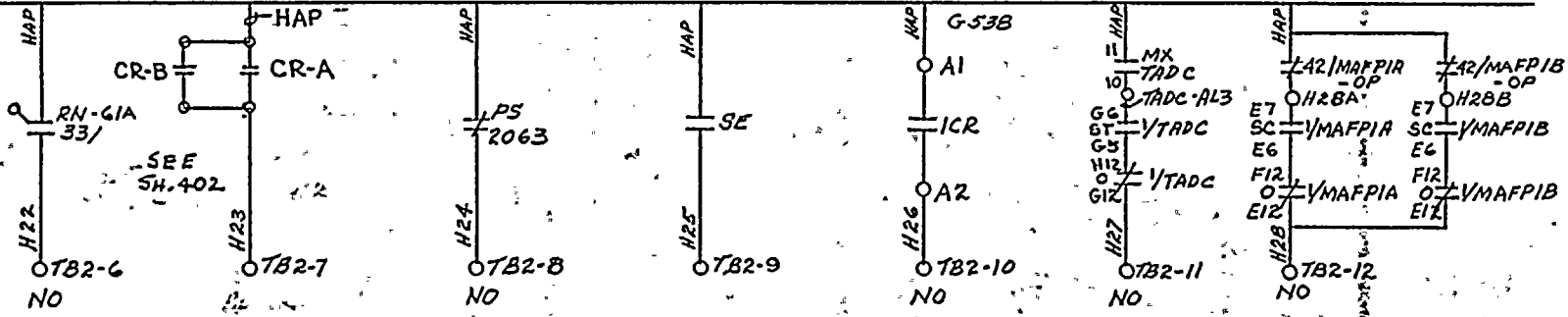
JOB NO.

REF. DWG.
CAP

| | | | | | | |
|----------------------------------|------------------------|--|--|--|---|--|
| TAFSV 1A 1B
BLOCKED
CLOSED | INSTRUMENT
AIR COMP | FEED PUMP
NET
POSITIVE
SUCTION HEAD | HEATER DRAIN
PUMP RECIRC.
VALVE OPEN | FEED PUMP SEAL
DRAIN TANK
HI LEVEL | TURBINE DRIVE
FEED PUMP
LO OIL PRESS. | CONDENSER
HOTWELL
LEVEL |
| | RGAE 10905 SH.83 | L 2/
L161 | G539
TAYLOR INST.
SK. 60984W | G539
499B425 SH.317 | G.A.I. G544
DWG. 55-380-640 | E 195
E 196
GAI G590, G562
DWG 55-308-640
499B425 SH.317 |



| | | | | | | |
|-----------------------|---|-------------------------------------|-------------------------------------|--|---|---|
| CONDENSATE
HI TEMP | CONTAINMENT
RECOMBINER
URGENT FAILURE
B7 | STATION SERVICE
AIR
LO. PRESS | ANNUNCIATOR
NORMAL SUPPLY
OFF | INSTRUMENT
AIR DRYER
TRANSFER
FAILURE | TURBINE DRYN.
FP DC OIL PUMP
AUTO START | MOTOR DRYN. AUX.
FEED PUMP
OIL PUMP OFF |
| GAI B/M NO
RN-GIA | | G582, G583
GAI
DWG 55-308-762 | RGAE 10905-431 | PALL-TRINITY
DWG. C3418-16RS | E195
499B425 SH.239 | C587, C591
499B425 SH.169 |



NOTE:
NC - JUMPER TERM. 1 & 2 ON ANN. DROP
NO - JUMPER TERM. 1 & 3 ON ANN. DROP
THIS DRAWING SUPERCEDES WESTINGHOUSE
DWG. 499 B425, SHT. 400, (REV. 3)

| REV. | DATE | BY | CHK'D | RESP. ENGR | ENG'R MGR. | DATE |
|----------|------|----------|-------|------------|------------|--------|
| ORIGINAL | | N.J.A. | RHM | RES. | ENG'R | 6/4/75 |
| | | DRAWN BY | CK'D | RESP. ENGR | ENG'R MGR. | DATE |

| | |
|---|------|
| SCALE | NONE |
| APPROVED | |
| FOLDER NO. | |
| JOB NO. | |
| ROBERT EMMETT GINNA NUCLEAR STA. UNIT 1 | |
| ELEMENTARY WIRING DIAGRAM | |
| ANNUNCIATOR PANEL H | |
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | DEPT |
| ENGINEERING | |
| NO. 10905-400 | |

FEED WATER HEATER AND DRAIN TANK LEVEL

CONDENSATE
BYPASS VALVE
OPEN

499B425 SH 318

REF DWG. 499B425 SH. 267, 268 317

HAP

AR 12 AR 13 AR 14 AR 15 AR 16 AR 17 AR 18 AR 19 AR 20 AR 21 AR 22 AR 23 AR 24 AR 25 AR 26 AR 27 AR 28 AR 29 AR 45 LX 13

H29

OTB2-13

H30

OTB2-14

VACUUM PRIMING
SYSTEM

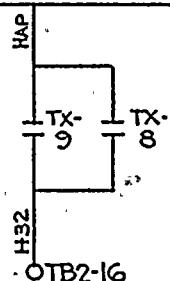
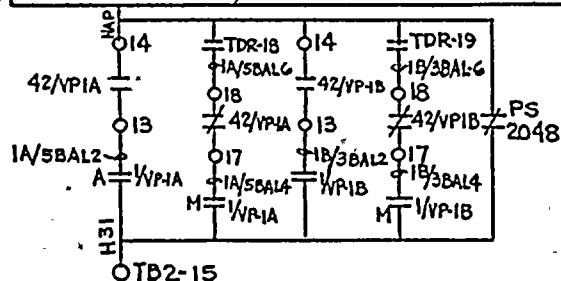
STATION SERVICE
AIR COMP

GAIL DWG.

499B425 SH. 155, 156

SS-208-762

499B425 SH. 84



NOTES:

- NC - JUMPER TERM. 1 & 2 ON ANN. DROP
- NO - JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERCEDES WESTINGHOUSE
DWG. NO. 499 B 425, SH. 401 (REV. NO. 2)

| REV. | | | | | |
|----------|----------|-------|------------|-----------|--------|
| ORIGINAL | epk | RHM | PCR | RCM | 6/5/75 |
| | DRAWN BY | CK'D. | RESP. ENGR | ENG'R MGR | DATE |

ROBERT EMMETT GINNA NUCLEAR POWER

STATION UNIT NQ. 1

ELEMENTARY WIRING DIAGRAM

ANNUNCIATOR PANEL "H"

ROCHESTER GAS & ELECTRIC CORP.

ROCHESTER, NEW YORK

ENGINEERING DEPT

NO. 10905-401

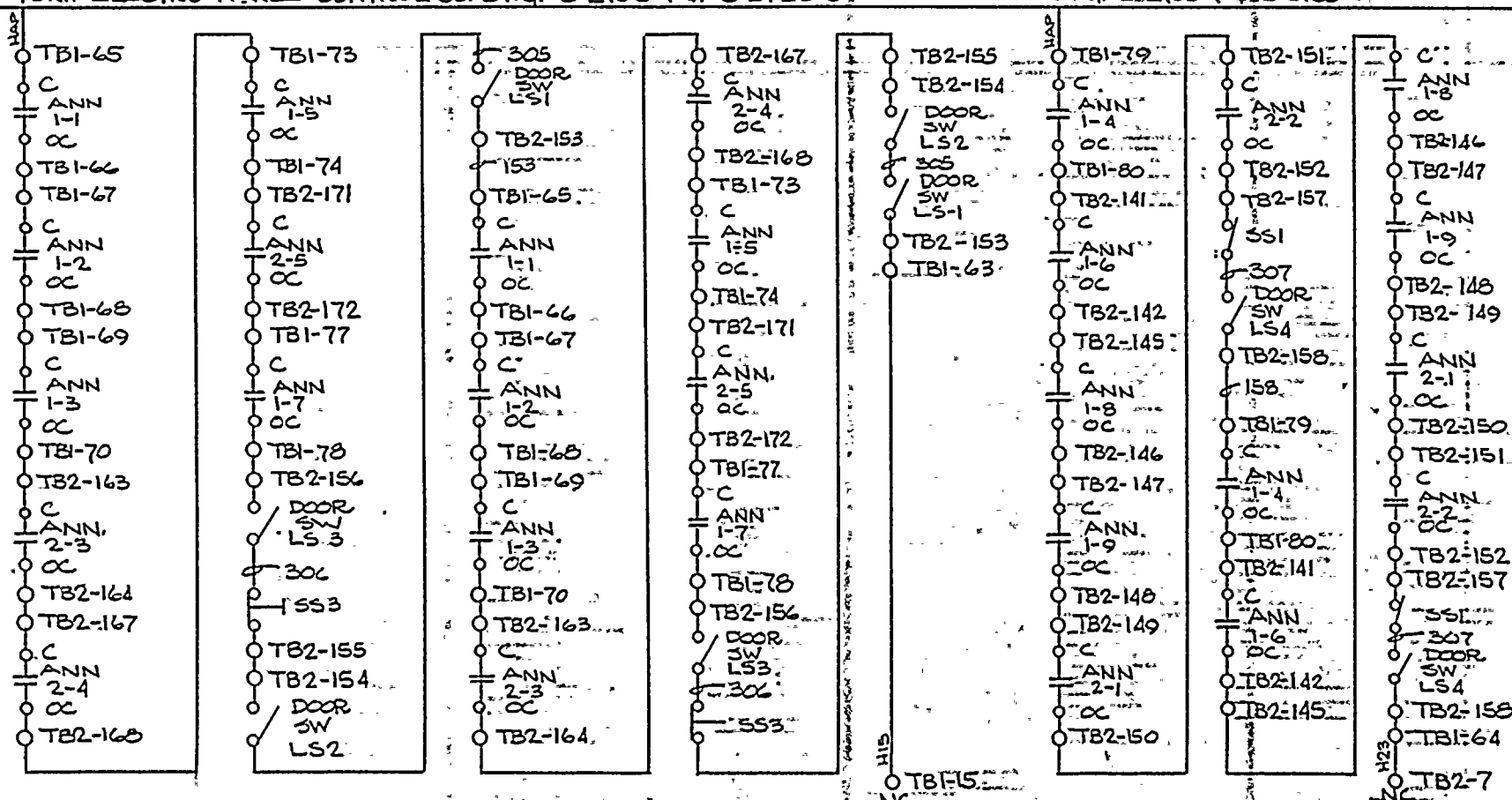
CONTAINMENT
RECOMBINER
URGENT
FAILURE

CONTAINMENT
RECOMBINER

REF.
DWG
CAP

YORK-ELECTRO-PANEL CONTROL CO. DWG. C-2705-7 & C-2723-6

YORK-ELECTRO-PANEL CONTROL CO.
DWG. C-2705-7 & C-2723-6



NOTE

NO JUMPER TERM. 1 & 2 ON ANN. DROP
NO JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERSEDES DWG. 499B425 SH. 402

| REV. | BY | CHKD. | RESP. ENG. | ENG. HGR. | DATE |
|----------|-----|-------|------------|-----------|---------|
| ORIGINAL | av. | RIN | RFH. | JEL | 4/30/76 |
| | DWN | OKD. | RESP. | ENG. | |

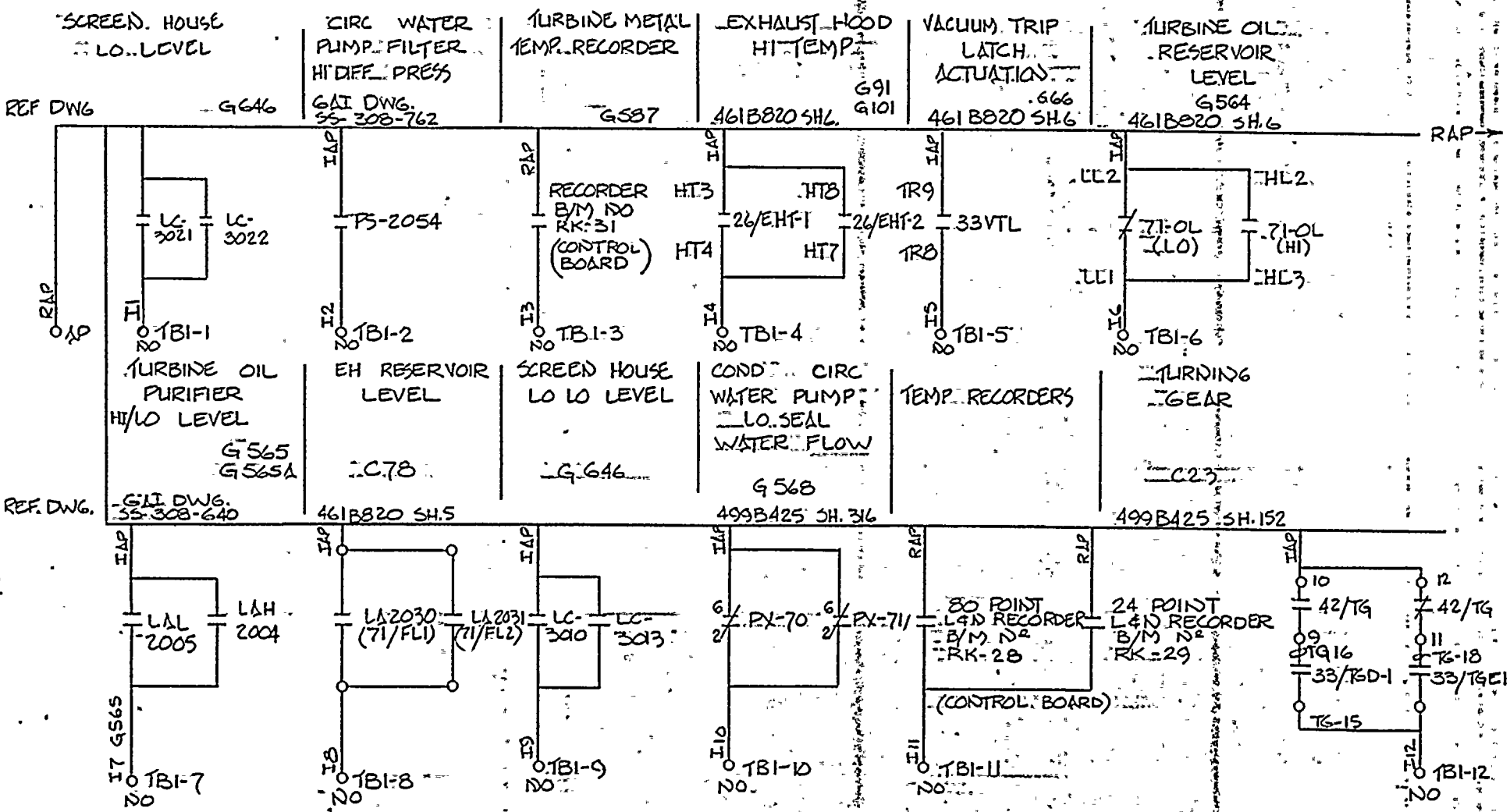
ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

DEPT

ROBERT EMMETT GINNA, NUCLEAR
POWER STATION - UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL A

SCALE
DATE
BY
ORIGIN
TRACED
CHECKED
ENG.

No. 10905-402



NOTE
 NC=JUMPER TERM. 142 ON ANN. DROP
 NO=JUMPER TERM. 143 ON ANN. DROP
 THIS DWG. SUPERSEDES DWG. NO. 499B425 SH.403 REV.3

| REV. | | | | | |
|----------|----------|----------------|--------------|------------|--------|
| ORIGINAL | A.V. | RHM
4/14/75 | ACK | PCM | 6/5/75 |
| | DRAWN BY | CK'D. | RESP. ENG'R. | ENG'R MGR. | DATE |

| | | | |
|---|--|------------|--|
| R.E.G. 1000A NUCLEAR POWER STA. UNIT 1 | | SCALE NONE | |
| ELEMENTARY WIRING DIAGRAM | | APPROVED | |
| ANNUNCIATOR PANEL I | | FOLDER NO. | |
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | JOB NO. | |
| ENGINEERING DEPT | | REV. | |
| NO. 10905-403 | | | |

AUTO STOP TRIP
LATCH
ACTUATION

TURBINE
BEARING OIL
LO PRESS

TURBINE
RUN BACK
DEFERT
MAGNETICS INC.
KC-8202-16
SH 213

EH PUMP
LOCKOUT
LO LEVEL

TRAVEL SCREEN
HI DIFF
LEVEL

CONDENSER
EXP JOINT A
LO LEVEL

CONDENSER
EXP JOINT B
LO LEVEL

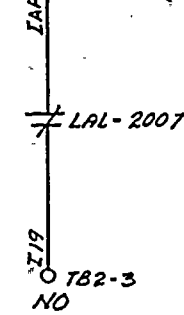
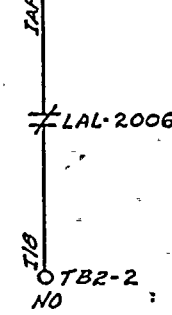
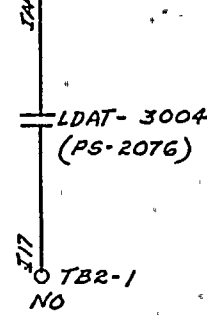
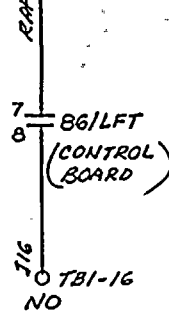
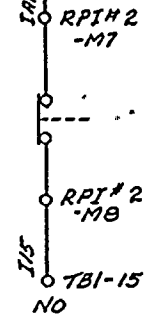
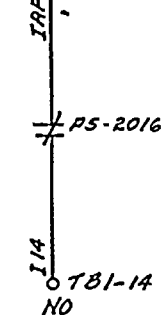
GAI DWG. C49
SS-308-760

499B425 SH.115

LINK BELT
DWG JK-8144-6

GAI DWG. 6584
SS-308-640

GAI DWG. 6585
SS-308-640



ROTOR POSITION

TURBINE RELAY
DUMP VALVE
TRIPPED
AIR TO EXTRACTION
STEAM STOPS

TURBINE
EMERGENCY
OIL PUMP
AUTO START
E7

TURBINE
EMERGENCY
OIL PUMP
OVERLOAD

EH SYSTEM
TEMPERATURE
PRESSURE

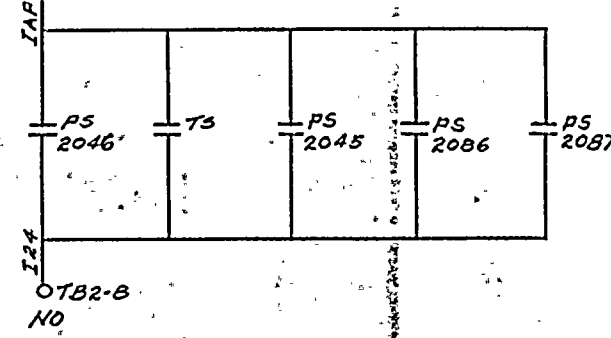
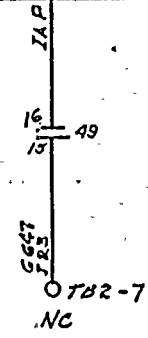
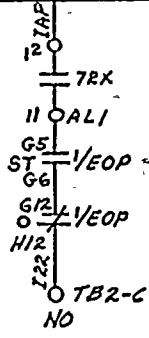
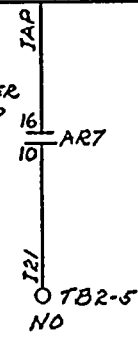
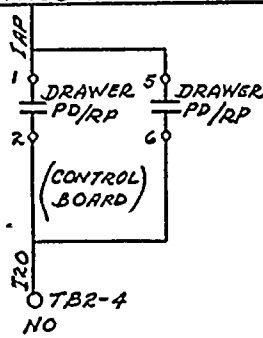
G563
499B425 SH.316

499B425 SH.236

G-647
499B425 SH.236

GAI DWG.
SS-308-762 & 764

C78

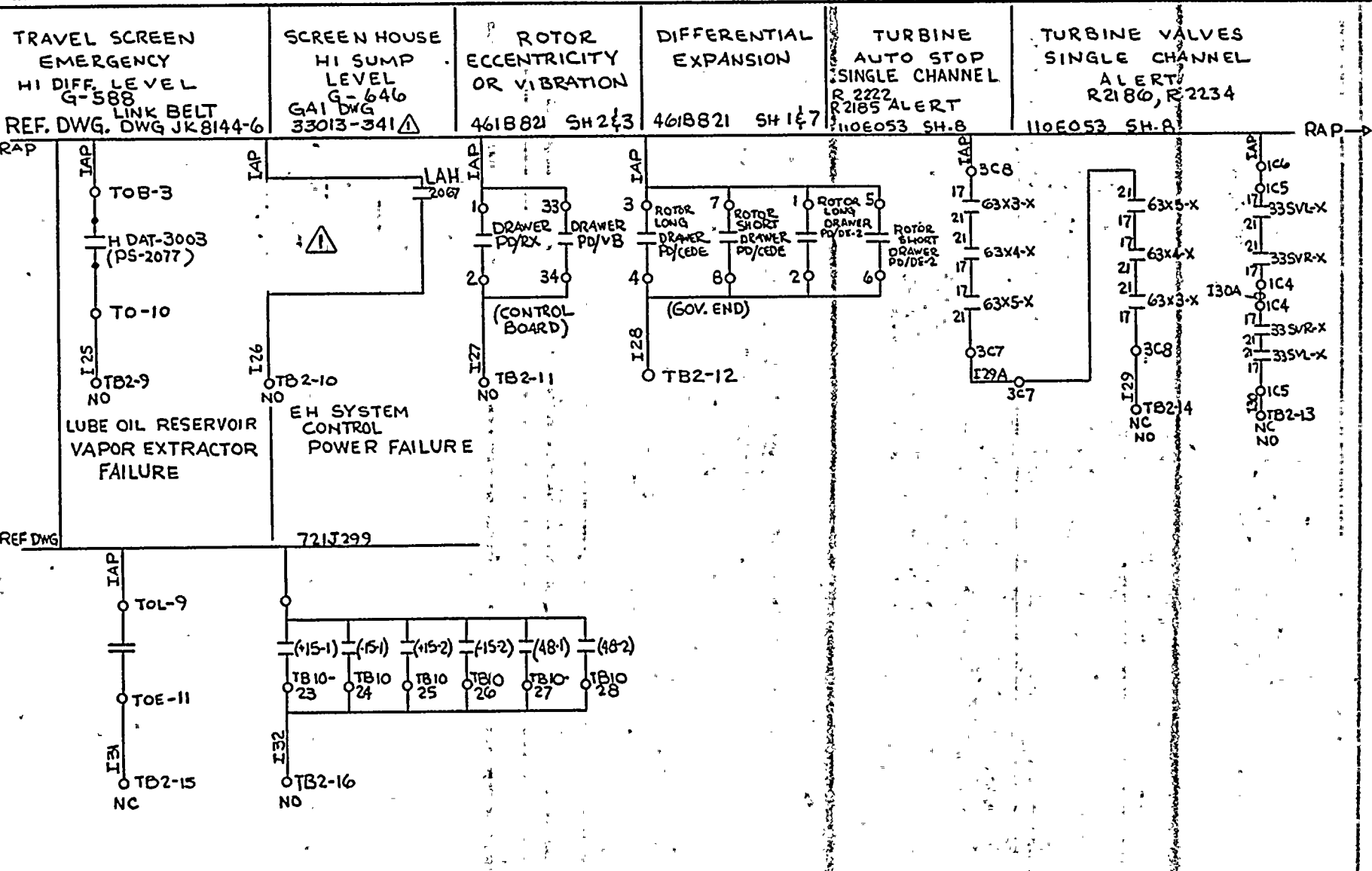


NOTE:

NC = JUMPER TERM 1 & 2 ON ANN DROP
NO = JUMPER TERM 1 & 3 ON ANN PROP
THIS DRAWING SUPERCEDES WESTINGHOUSE
DWG.499B425, SHT.404,(REV.3)








| REV. | | | | | |
|----------|----------|-------|------------|------------|--------|
| ORIGINAL | N.J.A. | RHM | ACK | RCM | 6/5/75 |
| | DRAWN BY | CK'D. | RESP. ENGR | ENG'R MGR. | DATE |

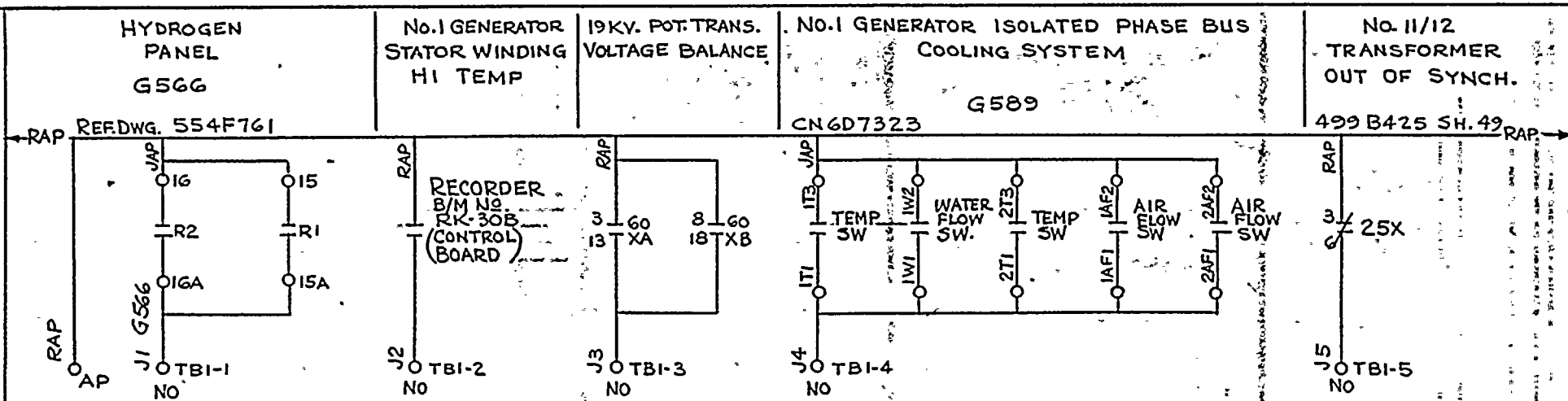
| | |
|---|---------|
| SCALE | NAME |
| DATE | BY |
| APPROVED | U.T.O. |
| FOLDER NO. | TRACED |
| JOB NO. | CHECKED |
| | ENG. |
| ROBERT EMMETT GINIA NUCLEAR STA. UNIT I | |
| ELEMENTARY WIRING DIAGRAM | |
| ANNUNCIATOR PANEL I | |
| ROCHESTER GAS & ELECTRIC CORP. | |
| ROCHESTER, NEW YORK | |
| ENGINEERING | |
| DEPT | |
| No. 10905-404 | |



NOTE:
NC *JUMPER TERM. 1 & 2 ON ANN. DROP
NO *JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERSEDES WESTING HOUSE DWG. NO. 499B425-405

| | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|--|--|--|--|--|--|--|--|--------------------------------|----------|--|----------|------------|--------------|---------|--|-------------|--|---|
|  | REVISION | | | | | | | | | | DRAWN BY | | CHECKED | RESP. ENG. | ENG. MASTER. | JOB NO. | | DRAWING NO. | | REV. |
|  | ORIGINAL | | | | | | | | | | 7/21/77 | | | 3/2/77 | 3/29/77 | | | 10905-405 | |  |
|  | REVISED PER PLANT: | | | | | | | | | | 10/5/78 | | 10/12/78 | 10/11/78 | 10/10/78 | | | | | |
|  | EWR 2196 | | | | | | | | | | 10/5/78 | | 10/12/78 | 10/11/78 | 10/10/78 | | | | | |
|  | INITIAL | | | | | | | | | | 7/21/77 | | 10/12/78 | 10/11/78 | 10/10/78 | | | | | |
|  | DATE | | | | | | | | | | 7/21/77 | | 10/12/78 | 10/11/78 | 10/10/78 | | | | | |
| ELEMENTARY WIRING DIAGRAM | | | | | | | | | | | | | | | | | | | | |
| ANNUNCIATOR PANEL I | | | | | | | | | | | | | | | | | | | | |
| FACILITY GINNA STATION | | | | | | | | | | ROCHESTER GAS & ELECTRIC CORP. | | | | | | | | | | |
| SCALE | | | | | | | | | | ROCHESTER, NEW YORK | | | | | | | | | | |



NOTES:

NC = JUMPER TERM. 1 & 2 ON ANN. DROP
NO = JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERCEDES WESTINGHOUSE
DWG. No. 499 B 425, SH. 407 (REV. No. 3)

| REV. | | | | | |
|----------|-----------|-------|-------------|------------|--------|
| ORIGINAL | E. Schuch | RHM | POK | RCA | 6/5/75 |
| | DRAWN BY | CK'D. | RESP. ENGR. | ENGR. MGR. | DATE |

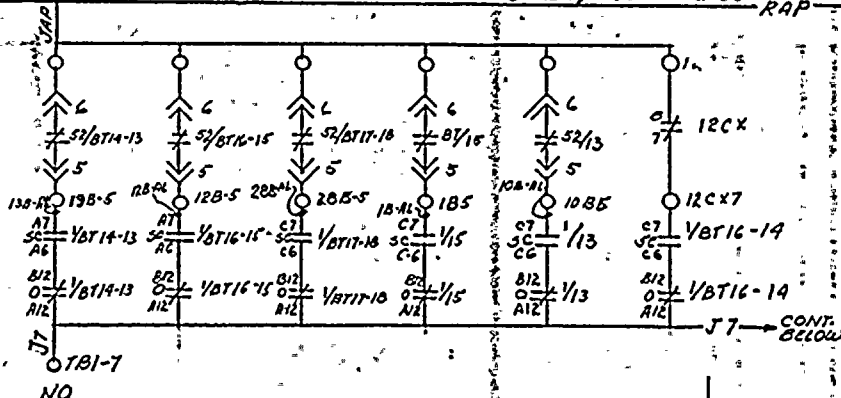
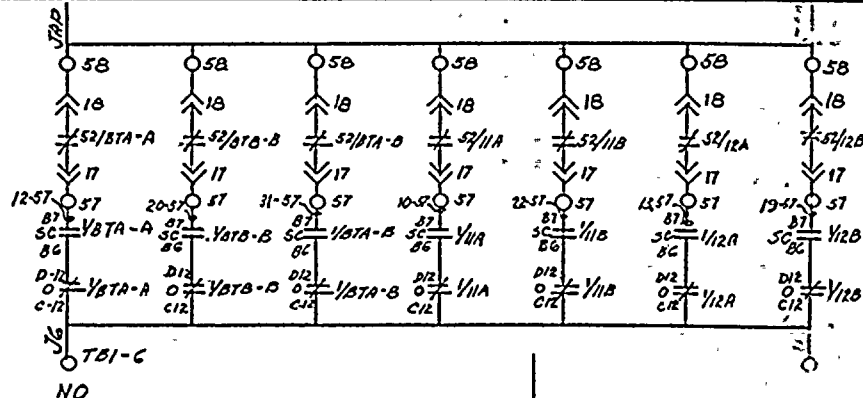
| | | | |
|---|---------------|-----------------------|-----------------|
| ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT No. 1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL J | | DATE
6/5/75 | SCALE
None |
| DRAWN
E. Schuch | TRACED
RHM | CHECKED
POK | APPROVED
RCA |
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | FOLDER NO.
JOB NO. | |
| ENGINEERING DEPT | | No. 10905-407 | |

4KV MAIN OR TIE BREAKER TRIP

480V. MAIN OR TIE BREAKER TRIP

REF. DWG. 499B425 SH. 20-26

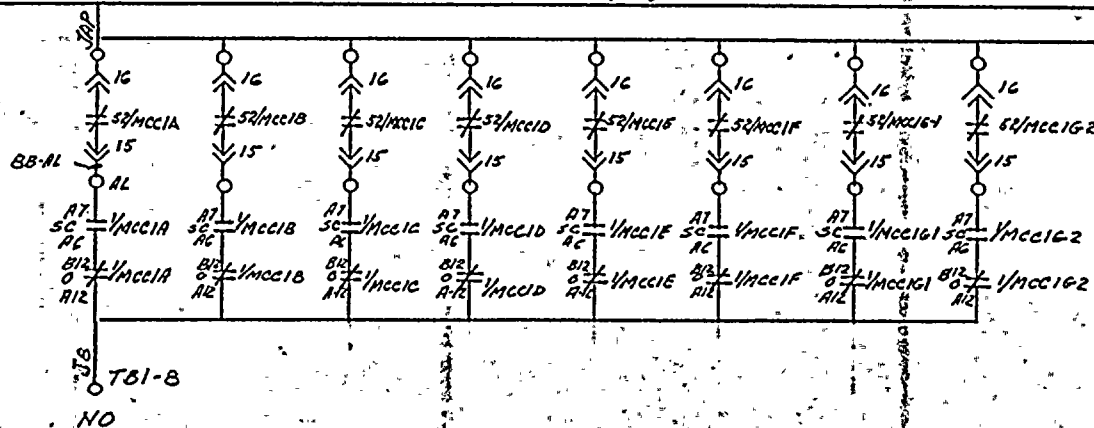
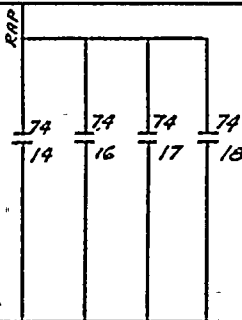
499B425 SH. 62-68 R.G. & E 10905-60, 61



480V MOTOR CONTROL CENTER SUPPLY BREAKER TRIP

REF. DWG.

499B425 SH. 97-100 R.G. & E 10905-98, 99, 100



NOTE:

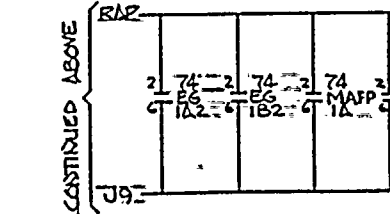
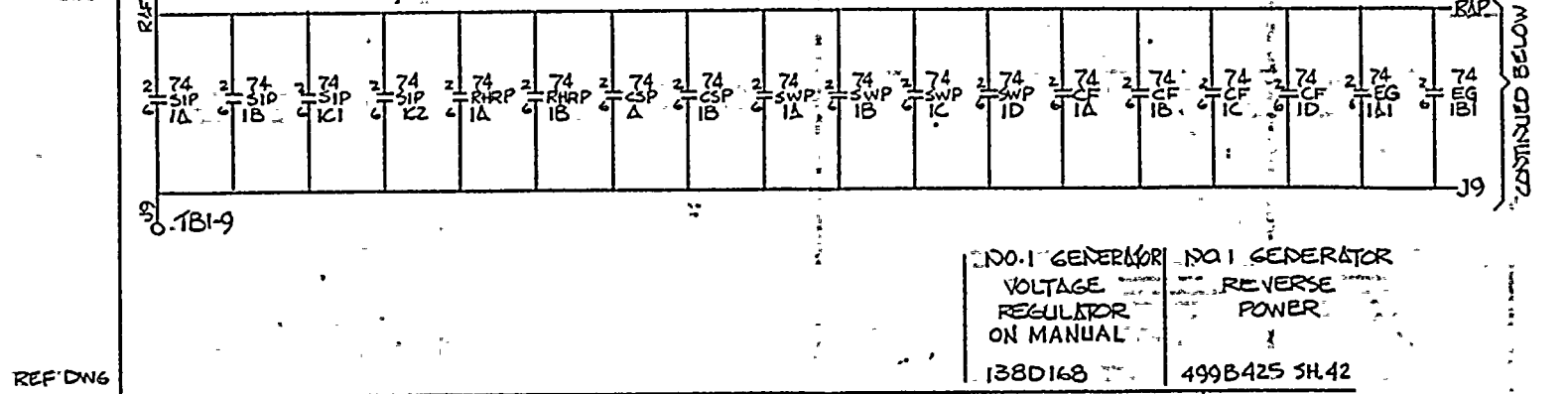
NC = JUMPER TERM. 1 & 2 ON ANN. DROP
NO = JUMPER TERM. 1 & 3 ON ANN. DROP
THIS DRAWING SUPERCEDES WESTINGHOUSE
DWG. 499B425, SH. 408 (REV. 2)

| REV. | | | | | |
|----------|----------|-------|-------------|-------------|--------|
| ORIGINAL | N.J.A. | RHM | PCX | RCM | 4/5/75 |
| | DRAWN BY | CK'D. | RESP. ENGR. | ENG'R. MGR. | DATE |

| | | | | | |
|---|--------|---------------------|----------|---------------|------|
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | DEPT
ENGINEERING | | NO. 10905-408 | |
| ROBERT EMMETT GUNNA NUCLEAR STA. UNIT J
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL J | | | | | |
| DRAWN | PLACED | CHECKED | APPROVED | SCALE | NONE |
| DATE | DATE | DATE | DATE | DATE | DATE |

SAFEGUARD BREAKER TRIP

REF. DWG. 499B425 SH 73,74,75,78,79,81,82, 1,95,101,102,103,104, 76, 77 R.G.#E 10905-94, 77



NOTE
 NO. 1 JUMPER TERM. 1 & 2 ON ANN. DROP
 NO. 2 JUMPER TERM. 1 & 3 ON ANN. DROP
 THIS DWG. SUPERSEDES DWG. 499B425 SH.409 REV. 2

| REV. | | | | | |
|----------|----------|-------|-------------|------------|--------|
| ORIGINAL | A.V. | RHM | PCN | RCM | 6/5/75 |
| | DRAWN BY | CK.D. | RESP. ENGR. | ENGR. MGR. | DATE |

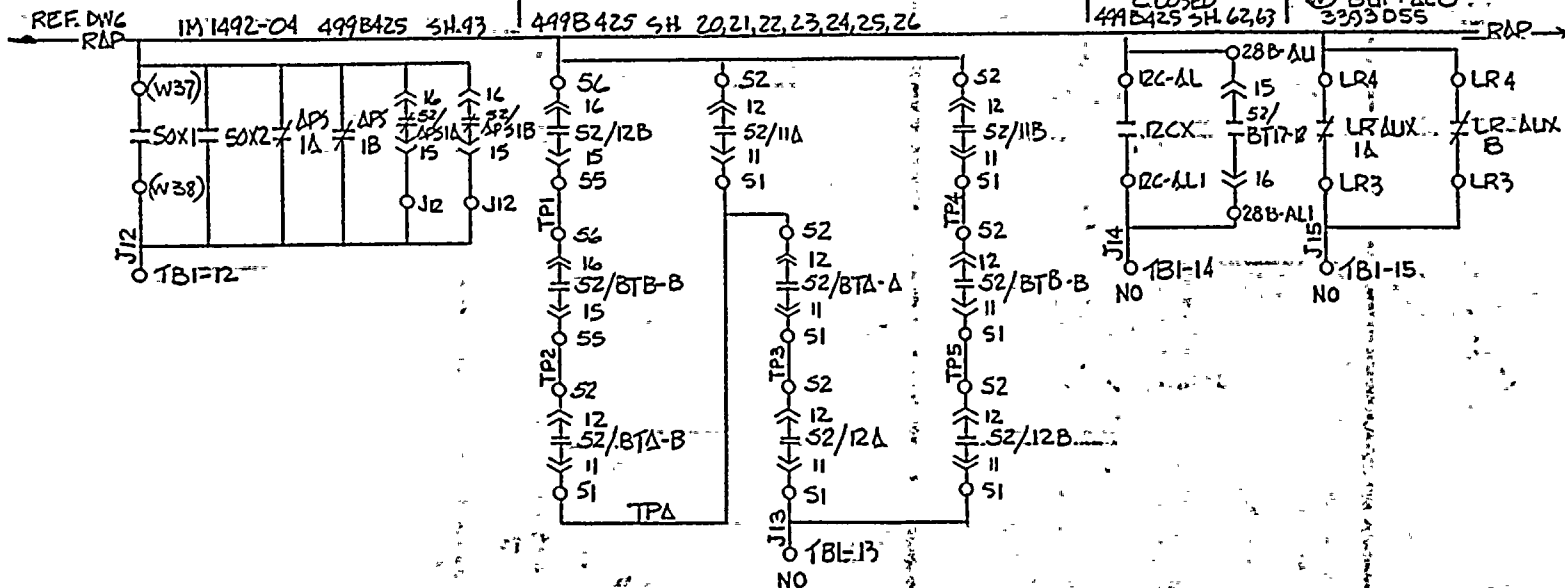
| | | | | | |
|---|--|--|--|----------------|---------------|
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | REGINA NUCLEAR POWER STA. UNIT 1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL J | | DATE
6/7/74 | SCALE
None |
| DEPT
Engineering | | FOLDER NO. | | APPROVED | |
| NO. 10905-409 | | JOB NO. | | | |

NO. 1 GENERATOR MAIN
TRANSFORMER ANNUNCIATOR

NO. 11-12 TRANS.
LO SIDE PARALLELED

480V BUS 14/16
OR 17/18
TIE BKR.
CLOSED
44B425 SH. 62, 63

BATTERY
CHARGER
FAILURE
① BUFFALO
3393 DSS



NOTES

1. NO. 1 JUMPER 182 ON-ANN. DROP
2. NO. 2 JUMPER 183 ON-ANN. DROP

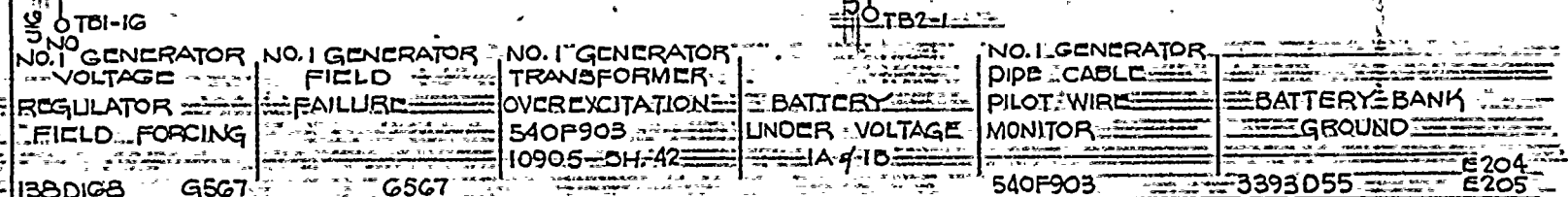
THIS DRAWING SUPERSEDES ① DWG.
499B425 SH. 40 REV. 2

| REV. | | | | | |
|----------|----------|----------------|----------------|--------------|--------|
| ORIGINAL | A.Y. | RHM
4/14/75 | PCX | RCM | 6/5/75 |
| | DRAWN BY | CK'D. | RESP.
ENG'R | ENG'R
MGR | DATE |

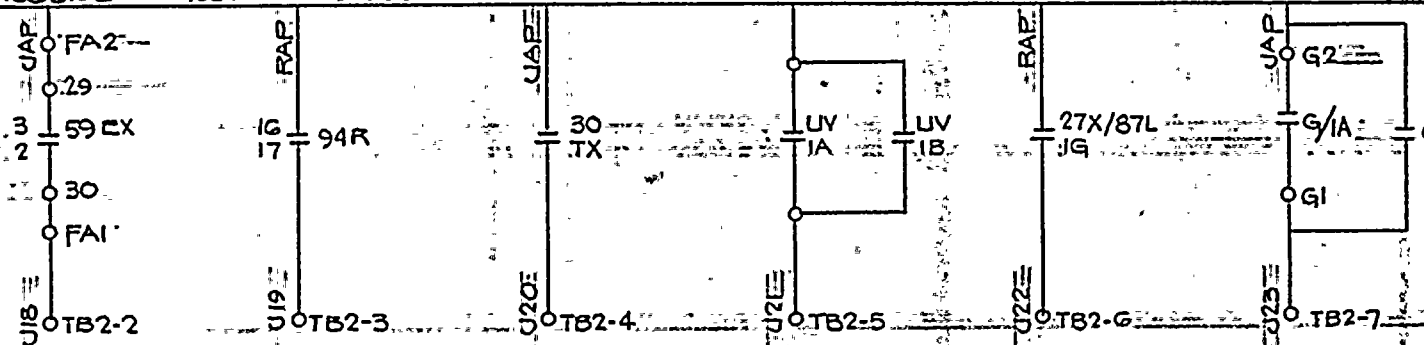
| | | | |
|---|----|--------------------|--|
| R.E. GINNA NUCLEAR POWER STA. UNIT 1 | | SCALE NONE | |
| DESIGN | 22 | APPROVED | |
| TRACED | | FOLDER NO. | |
| CHECKED | | JOB NO. & COMMENTS | |
| Rochester Gas & Electric Corp.
Rochester, New York | | ENGINEERING DEPT | |
| NO. 10905-410 | | | |

~~NON-SAFEGUARDS-EQUIPMENT-LOCKED-OFF~~

-10905-54.32,33,34;153,154;239



6567



NC-JUMPER TERM. 142 ON ANN. DROP.
NO-JUMPER TERM. 143 ON ANN. DROP.

THIS DWG. SUPERCEDES WESTINGHOUSE DWG. NO. 499B425-411.

| | | | | | | |
|----------|---------------------------|--------------|---------------|-----|--------|------|
| REV | | | | | | |
| ORIGINAL | PH
B-76
DRAWN
BY | DA
1-5-77 | MAR
1-6-77 | REL | 1-6-77 | DATE |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ROBERT EMMETT GINNA NUCLEAR
POWER STATION UNIT NO. 1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL

| | | | |
|---------|----|------|------------|
| DRAWN | BY | DATE | SCALE |
| TRACED | | | APPROVED |
| CHECKED | | | FOLDER NO. |
| ENG. | | | JOB NO. |

EMERGENCY DIESEL GEN IA PANEL

L831

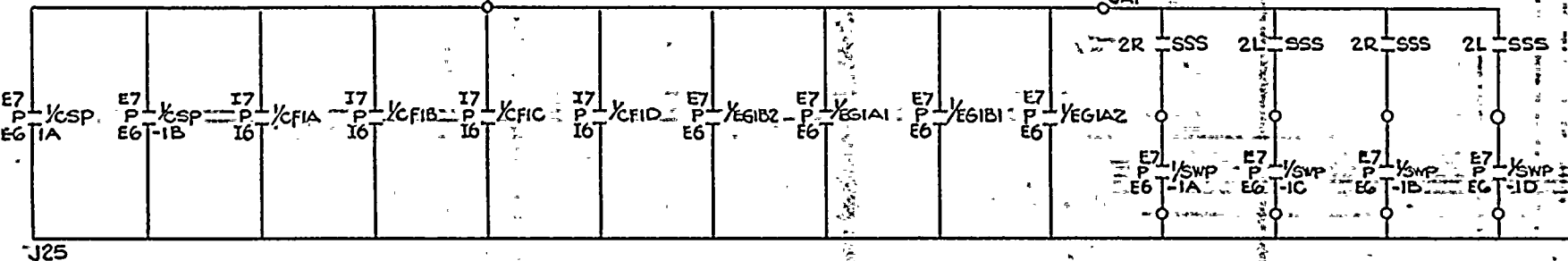
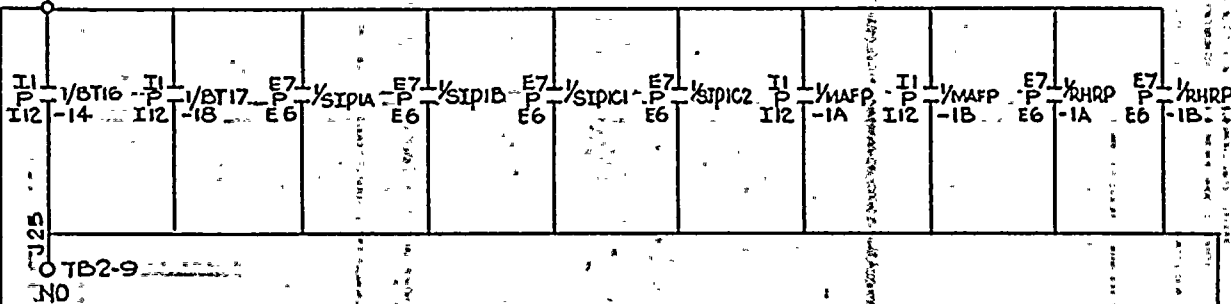
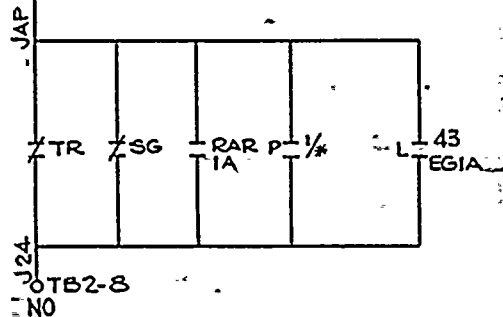
SAFE GUARDS EQUIPMENT LOCKED-OFF

REF DWG ALCO DWG 49A7334 OR X564

R.G.E. 10905-77,-94

499B425 SH.62,63,73,74,75,76,77,78,79,81,82,95,101,102,103,104

RAP



NOTE:

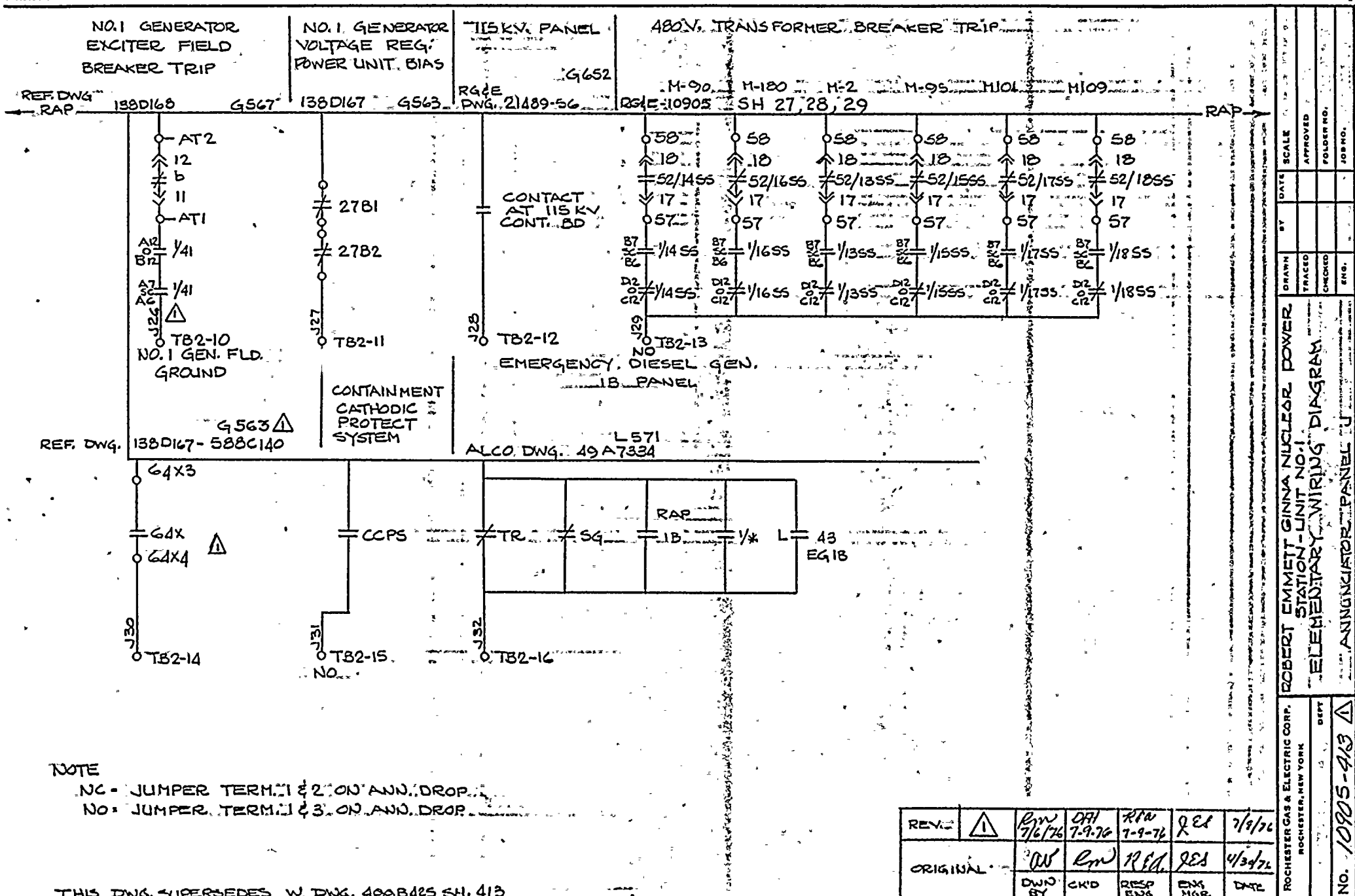
NC. JUMPER TERM. 1 & 2 ON ANN. DROP
NO. JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING

499B425 SHEET. 412 REV. 3

| REV. | | | | | |
|----------|----------|-------|-------------|-------------|------|
| ORIGINAL | A.S.M. | RHM | RCM | 6/5/75 | |
| | DRAWN BY | CK'D. | RESP. ENGR. | ENG'R. MGR. | DATE |

| | | | | |
|---|---------------------|----------|------------|---------|
| ROBERT EMMETT GINNA NUCLEAR PWR STA.
UNIT NO. 1 | SCALE 1/8" = 1" | APPROVED | FOLDER NO. | JOB NO. |
| ELEMENTARY WIRING DIAGRAM | ANNUNCIATOR PANEL U | | | |
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | ENGINEERING | | | |
| NO. 10905-412 | | | | |



| REV. | 1 | Rev | Rev | Rev | Rev | Rev |
|----------|--------|-------|----------|---------|------|-----|
| ORIGINAL | Rev | Rev | Rev | Rev | Rev | Rev |
| | DWG BY | CHK'D | RESP ENG | ENR MGR | DATE | |

| | | | | | | |
|--|--|------|-------|----------|------------|---------|
| ROBERT EMMETT GINNA NUCLEAR POWER
STATION - UNIT NO. 1
ELEMENTARY WIRING DIAGRAM | | DATE | SCALE | APPROVED | FOLDER NO. | JOB NO. |
| ROBERT GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | | | | | |
| DEPT | | | | | | |
| No. 10905-413 | | | | | | |

THRUST
BEARINGS
FAILURE

G65

REACTOR
TRIP

R2188
R2189

STEAM HEADER
SUPPORT OFF
TEMP.

CONTAINMENT
ACCESS PRESS

G662
G663

BATCHING
TANK
LO LEVEL

G601
G602

PRESSURIZER INSTR. CABINET

TEMP. HI/LO
110 E074 SH.1

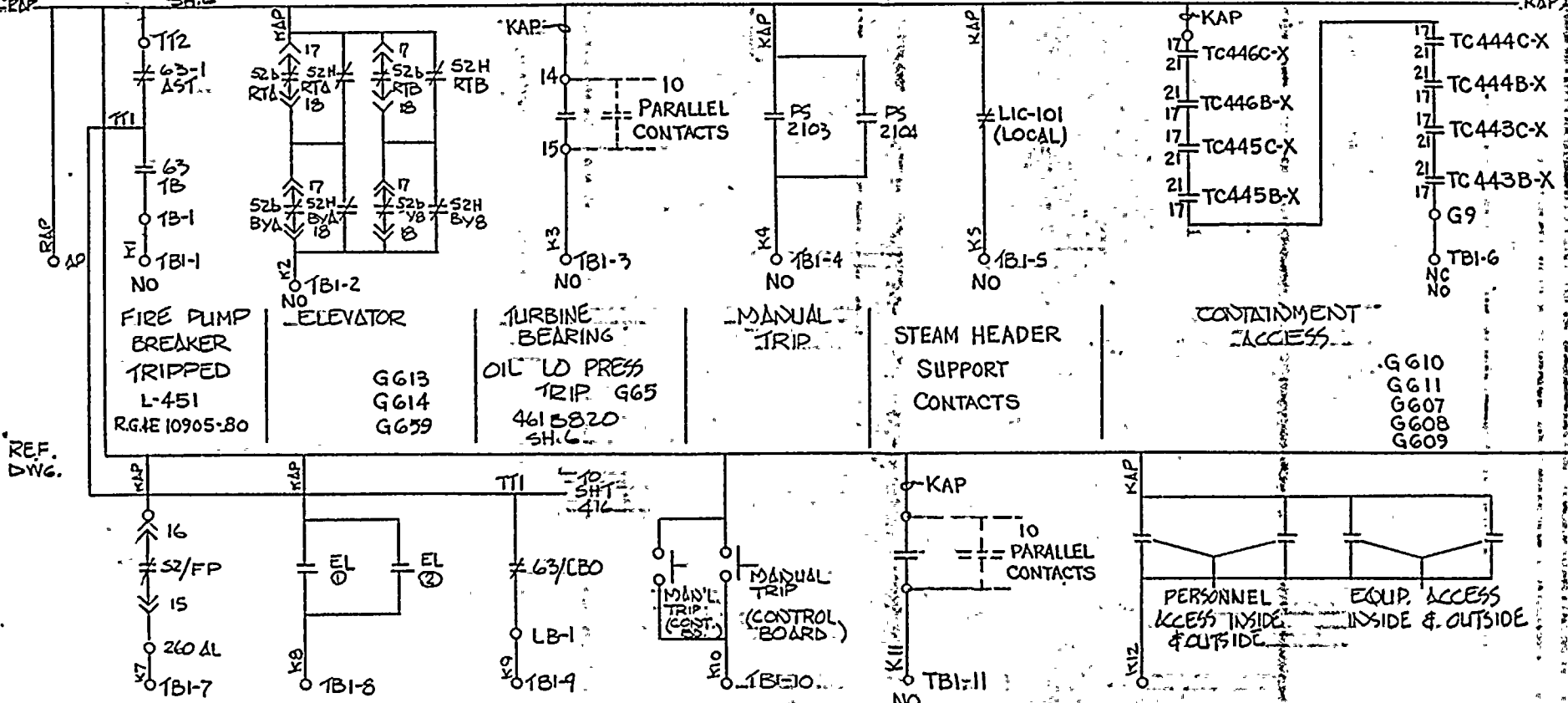
R2187

REF. DWG. 461 B320 SH.1

683C552

GAT DWG. 55-308-764

RAP



NOTES

1. NC = JUMPER TERM. 1 & 2 ON ANN. DROP
2. NO = JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERSEDES @ DWG. 499 B425 SH. 415 REV. 3

| REV. | | | | | |
|----------|----------|-------|-------------|-------------|--------|
| ORIGINAL | A.V. | RHM | ACK | RCM | 6/5/75 |
| | DRAWN BY | CK'D. | RESP. ENGR. | ENG'R. MGR. | DATE |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

Engineering

No. 10905 - 4/5

REGINNA NUCLEAR POWER STA. UNIT 1

ELEMENTARY WIRING DIAGRAM

ANNUNCIATOR PANEL K

DATE 8/7/74

APPROVED

FOLDER NO.

DRAWN

TRACED

CHECKED

SCALE

2 1/2"

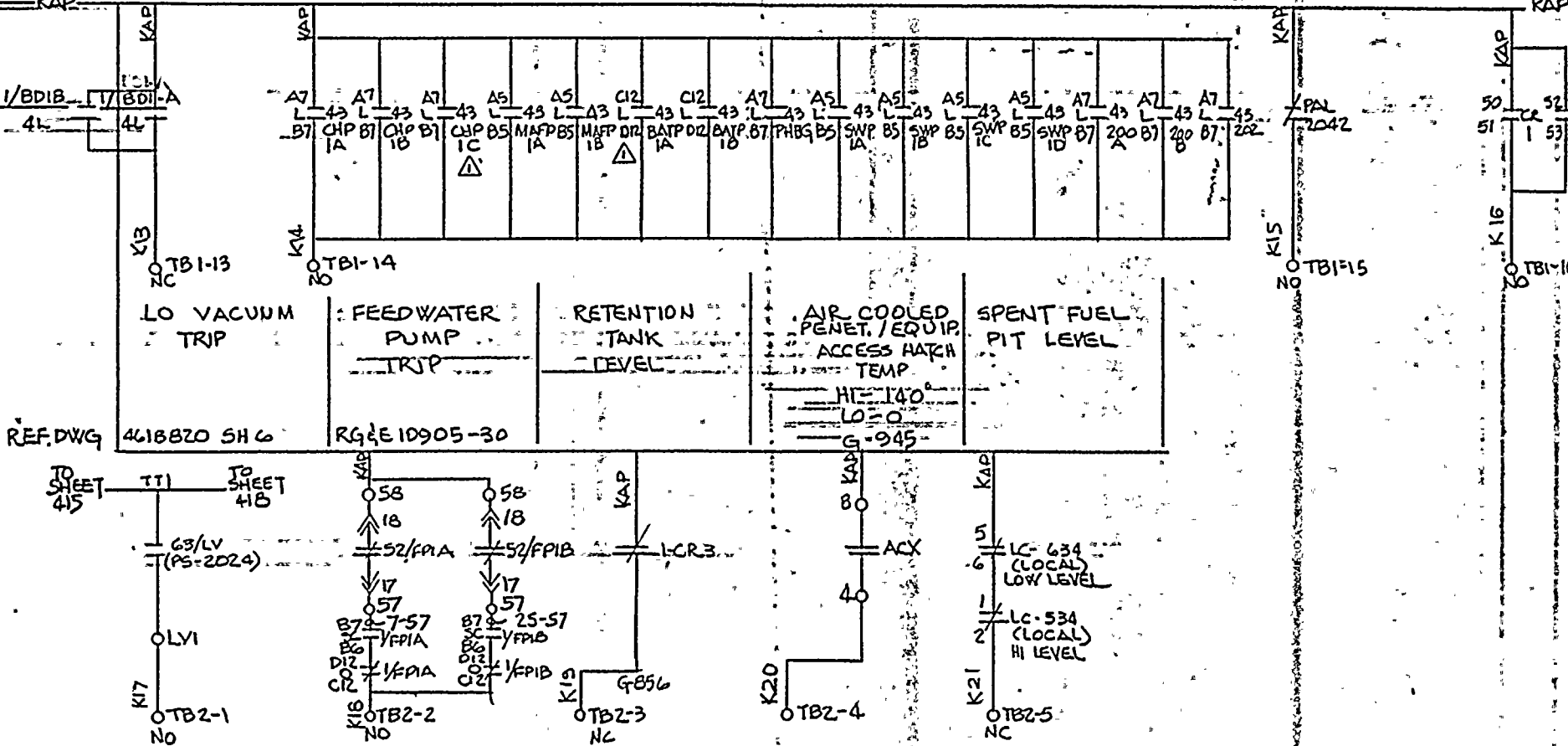
JOB NO.

RGF-DWG-RGE-10905-300
RAP

RGEC 10905 SH-71, 76, 77, 81, 82, 90, 121, 300

FIRE SYSTEM
STORAGE TANK
-LO-PRESS.

HEATING
BOILER
PANEL



NOTE:

NC - JUMPER TERM. 1 & 2 ON ANN DROP
NO - JUMPER TERM. 1 & 3 ON ANN DROP

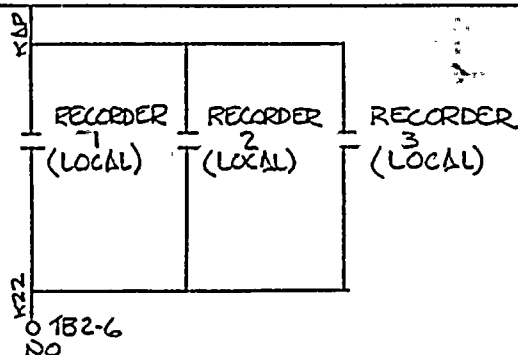
NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NUMBER 499B425 SH 416

| | | | | | | |
|----------|---|--------------------|---------------|---------------------|---------------------|----------------|
| REV | ⚠ | Rnw
7/16/76 | DFH
7-9-76 | RPN
7-9-76 | QED | 7/1/76 |
| ORIGINAL | | ggt
DRAWN
BY | Rnw
CK'D | RPH
RESP
ENGR | QEA
ENG'R
HGE | 4/30/76
DNC |

ROCHESTER GAS
ENGINEERING
NO. 10905

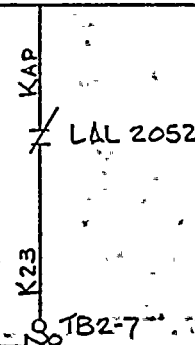
HEAT TRACING SYSTEM

REF. DWG.
RAP



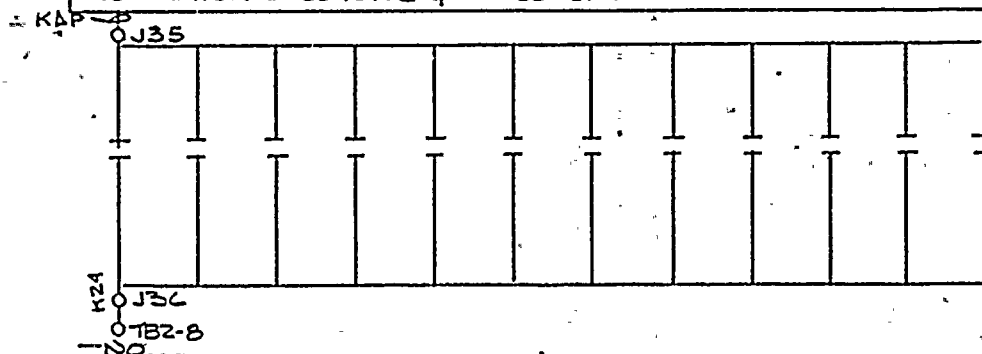
FIRE SYSTEM
STORAGE TANK
LO LEVEL
GAT DWG. 6579
SS-308-642

RAP



WATER TREATMENT PANEL

REF. DWG. ILCO DWG. FE-204515C & FE-204515D W184



NOTE

NC = JUMPER TERM 142 ON ANN. DROP
NO = JUMPER TERM 143 ON ANN. DROP

THIS DWG. SUPERSEDES (W) DWG. 499B425 SH. 417 REV. 3

| REV. | DATE | BY | CHK'D | RESP. ENGR. | ENGR. MGR. |
|------|--------|------|-------|-------------|------------|
| 1 | 6/5/75 | A.V. | RHM | PC-A | PC-A |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
DEPT. Engineering
No. 10905-417

RE: GINNA NUCLEAR POWER STA. UNIT 1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL K

DATE 6/5/75
SCALE None
APPROVED
FOLDER NO.
JOB NO.

TURBINE
OVERSPEED
TRIP
G665

NO.1
GENERATOR
LOCKOUT RELAY

DRAINAGE
SYSTEM

WASTE
DISPOSAL
PANEL
G641

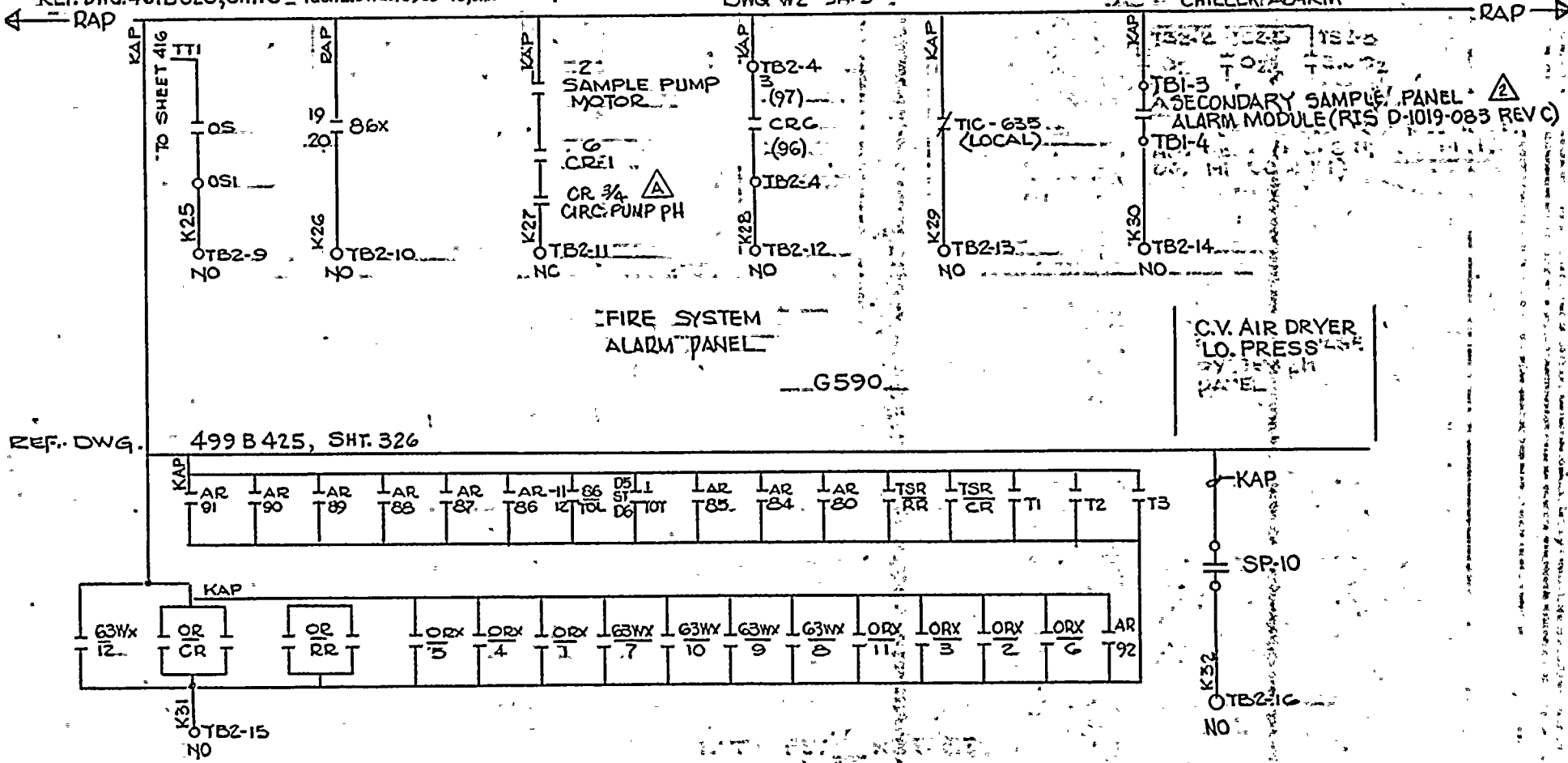
SPENT FUEL
PIT
HI TEMP
G651

TURBINE PLANT
SAMPLING
RACK TROUBLE
G653, G653A
DWG. SEE SAMPLE
CHILLER ALARM

REF. DWG. 461B 820, SHT. 6

R.G. I.E. DWG. 10905-43, SHT. 1

TAYLOR INST.
DWG. W2 SH. 3



FIRE SYSTEM
ALARM PANEL

G590

C.V. AIR DRYER
LO. PRESS.
PANEL

NOTE:

NC - JUMPER TERM 1 & 2 ON ANN. DROP
NO - JUMPER TERM 1 & 3 ON ANN. DROP

THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING
499B425 SHEET 4B REV. 5

NOTE: REV A REMOVED
BY REV A

| | | | | | | | |
|----------|---|----------|-------|-------------|------------|-----|---------|
| | △ | GJF | Rm | 9/30/77 | QWD | QWD | 10/3/77 |
| REV. | △ | GJF | Rm | 9/15/75 | 7/20 | 4/1 | 5/14/76 |
| | | A.M. | RHM | 4/14/75 | ACK | RM | 6/5/75 |
| ORIGINAL | | DRAWN BY | OK'D. | RESP. ENGR. | ENG'R MGR. | | DATE |

| | | |
|------------------------------------|-------------|------|
| ROBERT EMMETT GUNNA NUCLEAR PWR SA | SCALE | NONE |
| UNIT NO. 1 | APPROVED | |
| ELEMENTARY WIRING DIAGRAM | FOLDER NO. | |
| ANNUNCIATOR PANEL | JOB NO. | |
| ROCHESTER GAS & ELECTRIC CORP. | ENGINEERING | DEPT |
| ROCHESTER, NEW YORK | | |
| NO. 10905-48 | | |

AUXILIARY BLDG. VENT CONTROL PANEL

G496, M58, M137, C135

R.G. 4E 10905-319

REF. DWG.

RAP

RAP

AP

LAP

K3A

TBI-1

BUS. IIA/IIB UNDER FREQ.

M-73, R2223, M-175

499B425 SH 15416

BUS. IIA/IIB UNDER VOLTAGE

M73, M125

499B425, SH 15416

REF. DWG.

LAP

L2

TBI-2

LAP

L3

TBI-3

NOTES:

NC = JUMPER TERM. 1 & 2 ON ANN. DROP

NO = JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERCEDES WESTINGHOUSE
DWG. NO. 499B425, SH. 420 (REV. 3)

| REV. | DATE | BY | CHK'D. | RESP. ENGR. | DATE |
|----------|--------|-----|--------|-------------|--------|
| ORIGINAL | 7/6/76 | g/h | RHM | PC | 6/5/75 |
| | 7/9/76 | g/h | RHM | PC | 6/5/75 |
| | 7/9/76 | g/h | RHM | PC | 6/5/75 |
| | 7/9/76 | g/h | RHM | PC | 6/5/75 |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT, No. 1

ELEMENTARY WIRING DIAGRAM

ANNUNCIATOR PANEL L

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

SCALE NONE

APPROVED

FOLDER NO.

TRACED

CHECKED

DATE

BUS 12A/12B UNDERVOLTAGE

SAFEGUARD BUS
MAIN BREAKER
OVERCURRENT
TRIP

BUS 13
UNDER VOLT
~~NON SAFEGUARD~~

BUS 16
UNDER VOLT
SAFEGUARDS

480V
GROUND

AUXILIARY - BLOQ
SUMP
HI LEVEL

DRAWING REF. 4109052 SH 17

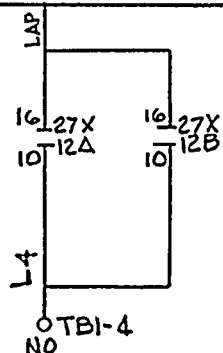
SH65,66,67,68,69

SHEET-51

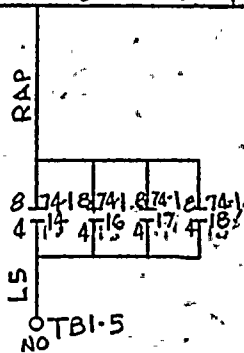
SHEET-54,57

* SHEET-50

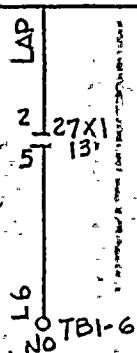
GAI
DWG 55-308-642



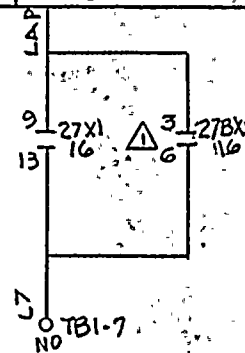
AUX. BLDG SUMP
PUMP AUTO
START



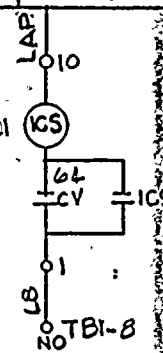
CONDENSOR/PIT/
SCREEN HOUSE
HI-LEVEL
SHEET 424



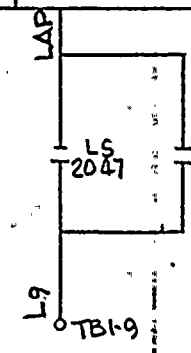
SAFEGUARD BUS
DIESEL GEN. BKR
OVERCURRENT TRIP
SH. 101, 102, 103, & 104



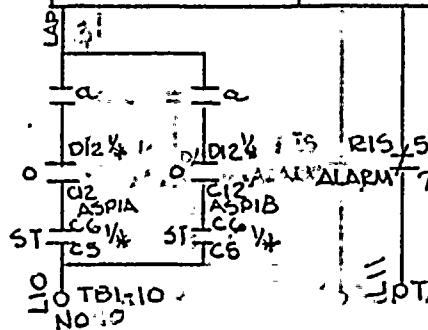
BUS 141
UNDER VOLT
SAFE GUARDS
SHEET - 52, 56



BUS 17
UNDER VOLT
SAFEGUARDS
SHEET-55,58

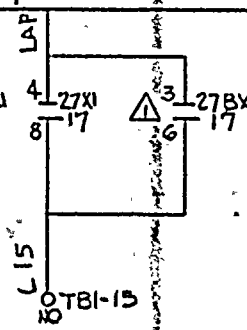
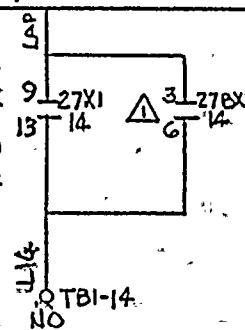
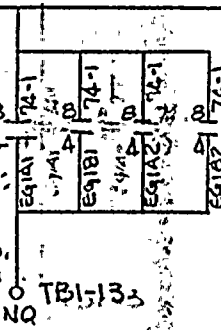
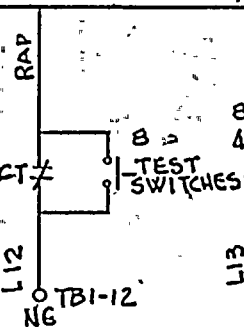



TURB OIL RESERVOIR
OUTLET TEMP
130°F



NOTE:

NC- JUMPERTERM 1 & 2 ON ANN. DROP
NO- JUMPERTERM. 1 & 3 ON ANN DROP.

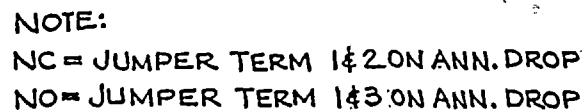



| | | | | | |
|----------|---|---------------|----------------|-----------------|---------------|
| REV |  | Rev
7/6/76 | DP1
7-9-76 | REA
7-9-76 | DES
7/9/76 |
| ORIGINAL | | DES
8/8/76 | Rev
7/21/76 | DES
7/21/76 | 12/75 |
| | | DRAWN
BY | CKD | RESP.
ENG. P | ENGR
WGP |
| | | | | | DATE |

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING NO. 499B425 SH. 421

ROBERT EMMETT GINNA NUCLEAR
POWER STATION UNIT NO.1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR PANEL

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK



| | | | | | |
|----------|---|-------------------------------|------------|--------|---------|
| REV. |  | Checked By
5-22-75 5/28/75 | PLN | RCM | 6/10/75 |
| ORIGINAL | | D.H. | JES | JES | 1-7-75 |
| | | DRAWN BY | CHK'D. | ENG'R. | DATE |
| | | BY | | | |
| | | DATE | SCALE | | |
| | | | APPROVED | | |
| | | | FOLDER NO. | | |
| | | | JOB NO. | | |

THIS DRAWING SUPERCEDES
WESTINGHOUSE DWG. 499B425, SH. 422 (REV. 3)

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

No. 10905-422A

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT, No. 1
ELEMENTARY WIRING DIAGRAM
ANNUNCIATOR, PANEL L

AUXILIARY
TRANSFORMER
No. 12
LOCKOUT

REF. DWG. 499B425 SH 46

RAP

4KV BUS DIFF LOCKOUT

499B425 SH 44, 45

SAFEGUARD
TEST SWITCH
ON TEST

110E059 SH. 6

SAFEGUARD
D-C FAILURE

R2255, R2256

110E059, SH. 4

HOLDUP TANK

No. 1C

H1 LEVEL

G-640

TAYLOR INSTR. DWG.
SK60624-W1, SH2

RAP
17-86
13-12T
L28
TB2-12
NO

RAP
13-86
14-11A
15-86
15-11B
15-86
15-12A
15-86
15-12B
L29
TB2-13
NO

LAP
3H3
74
TBI
3H5
3H5
74
TB2
L30
3H3
TB2-14
NO

LAP
3G1
74
XI
3G3
L31
TB2-15
NO

LAP
3G1
74
X2
3G3
L32
TB2-16
NO

NOTES:

NC = JUMPER TERM. 1 & 2 ON ANN. DROP

NO = JUMPER TERM. 1 & 3 ON ANN. DROP

THIS DWG. SUPERCEDES WESTINGHOUSE
DWG. NO. 499B425, SH. 423 (REV. NO. 3)

| REV. | BY | DATE | ENGR. | DATE |
|----------|-------|---------|-------|------|
| ORIGINAL | DRWN | 4/14/75 | ENGR. | DATE |
| | CHK'D | 4/14/75 | ENGR. | DATE |
| | RESR. | 4/14/75 | ENGR. | DATE |
| | RESR. | 4/14/75 | ENGR. | DATE |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING DEPT

No. 10905-423

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT NO. 1

ELEMENTARY WIRING DIAGRAM

ANNUNCIATOR PANEL L

SCALE NONE

APPROVED

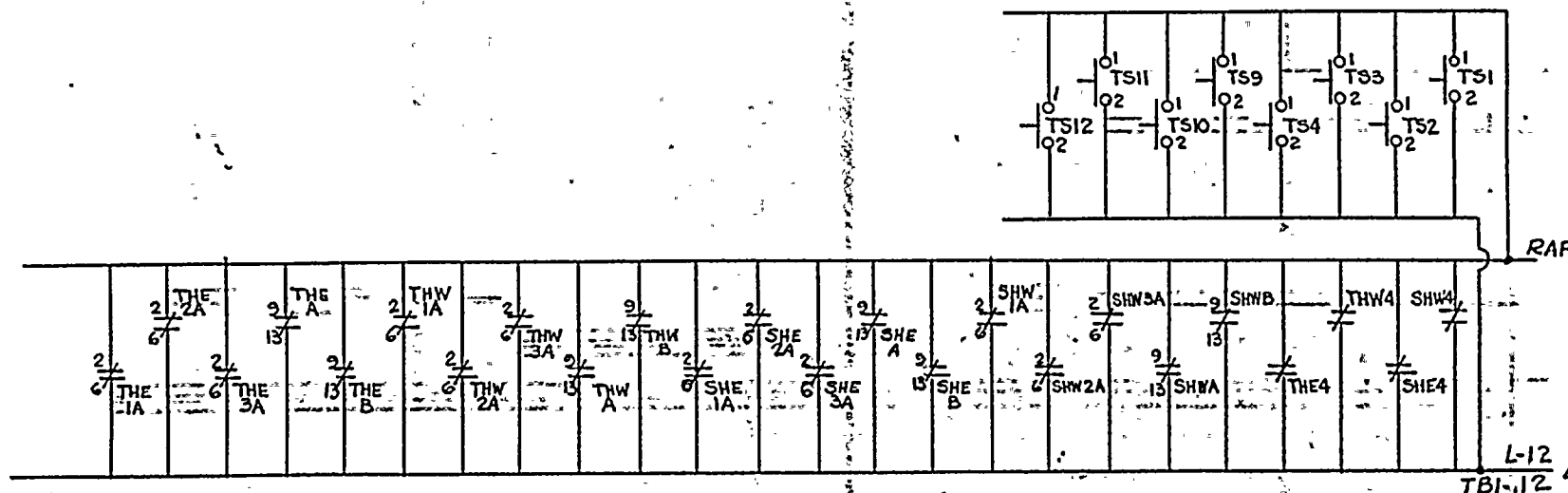
FOLDER NO.

DATE

SCALE

JOB NO.

HIGH LEVEL CONDENSER PIT OR
SCREEN HOUSE OR LOGIC FAILURE



NOTES:
THIS DWG. SUPERCEDES WESTINGHOUSE
DWG. No 499 B 425, SH. 424, (REV. No 1)

| REV. | 1 | Rev | 7/7/76 | Off | 7-9-76 | RFG | 7-9-76 | RES | 7/9/76 |
|----------|---|-----------|--------|------------|-------------|--------|--------|-----|--------|
| ORIGINAL | | Exp. L.H. | RHM | PCY | RCM | 6/5/75 | | | |
| | | DRAWN BY | CK'D. | RESP. ENGR | ENG'R. MGR. | DATE | | | |

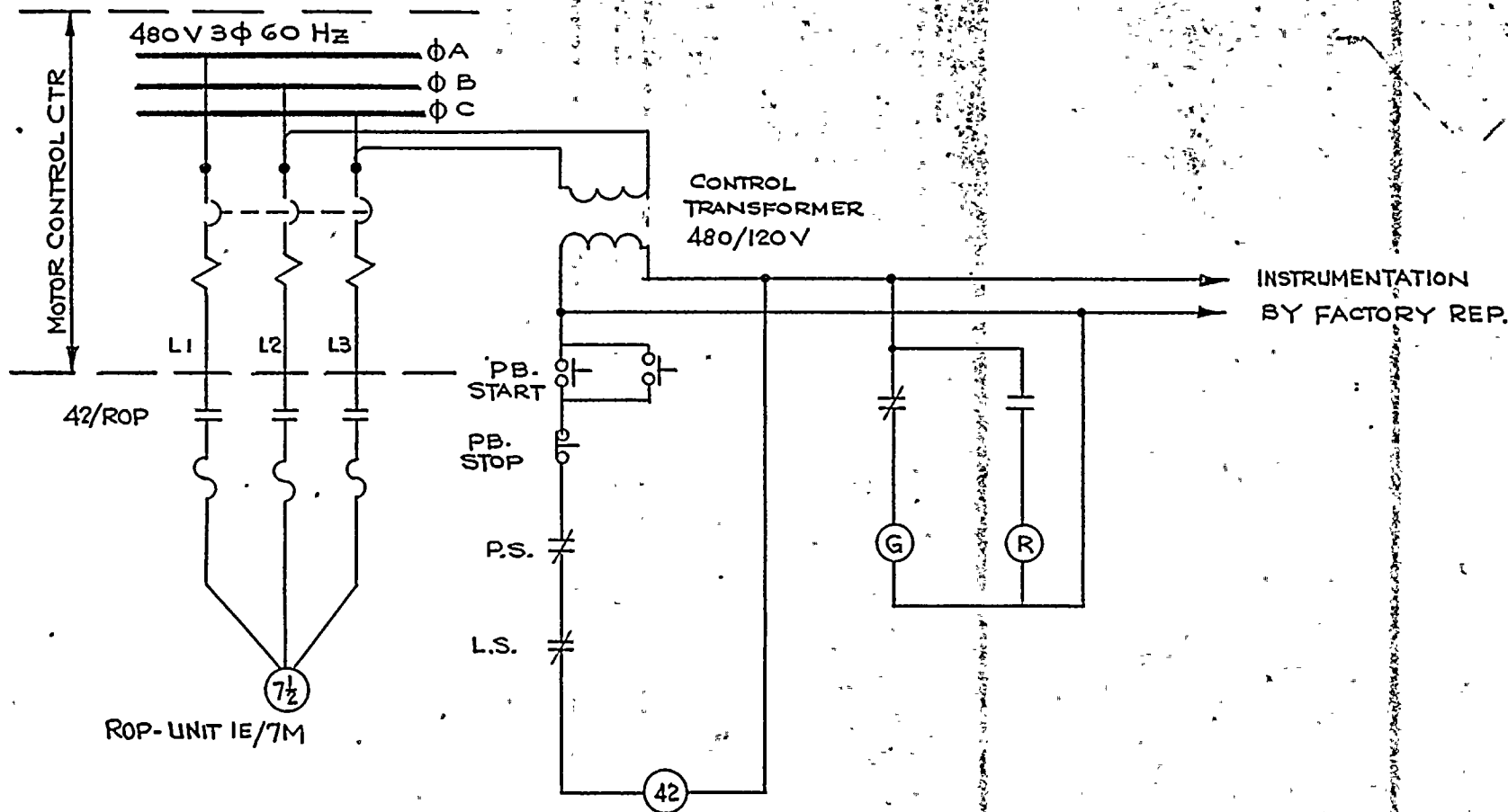
| | | | | | |
|-----------------------------------|--|----------|--------|------------|------|
| ROBERT EMMETT GINNA NUCLEAR POWER | | DATE | 6/5/75 | SCALE | NONE |
| STATION UNIT No. 1 | | DRAWN | | APPROVED | |
| ELEMENTARY WIRING DIAGRAM | | TRACED | | FOLDER NO. | |
| ANNUNCIATOR PANEL 1 | | DESIGNED | | JOB NO. | |
| | | CHK'D. | | | |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING DEPT
No. 10905-424



THIS DWG. SUPERCEDES WESTINGHOUSE
DWG. NO. 499 B 425, SH. 425 (NO REV.)

No. 10905 - 455



NOTES:

P.S. - PRESSURE SWITCH-OPERATES ON HIGH PRESSURE

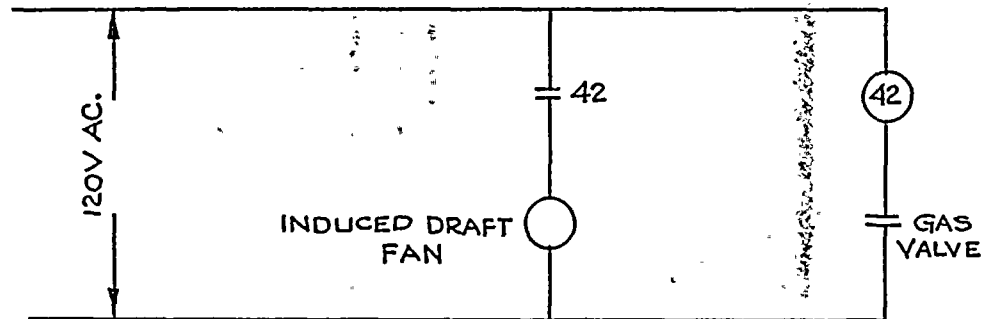
L.S. - LEVEL SWITCH-OPERATES ON LOW LEVEL IN HOLDING TANK.

THIS DWG. SUPERCEDES WESTINGHOUSE DWG. NO. 499 B 425, SH. 426 (NO REV.)

| REV. | BY | DATE | ENG'R | DATE |
|---|-------|---------|-------|--------|
| ORIGINAL | eff | 9/14/75 | RES | 6/5/75 |
| | DRAWN | CKD. | ENG'R | |
| | BY | | MGR | |
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | | | |
| ENGINEERING DEPT | | | | |
| NO. 10905 - 496 | | | | |

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT No. 1
ELEMENTARY WIRING DIAGRAM
REVERSE OSMOSIS PUMP

| DATE | SCALE | NONE |
|--------|------------|------|
| 6/5/75 | APPROVED | |
| | FOLDER NO. | |
| | JOB NO. | |



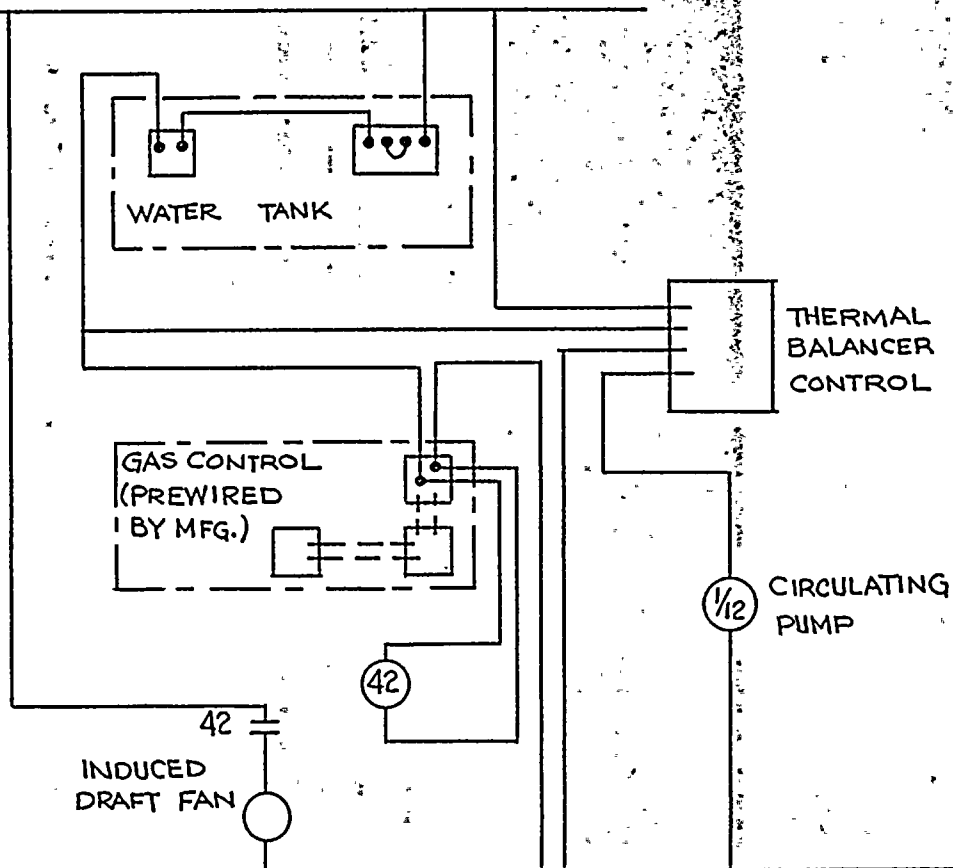
| REV. | ORIGINAL | DRAWN BY | CK'D | ENG'R | DATE |
|------|----------|----------|---------|------------|--------|
| | | SLM | 4/14/75 | RM | 6/5/75 |
| | | | | ENG'R | |
| | | | | MGR. | |
| | | | | SCALE | NONE |
| | | | | APPROVED | |
| | | | | FOLDER NO. | |
| | | | | JOB NO. | |

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT No. 1
ELEMENTARY WIRING DIAGRAM
INDUCED DRAFT FAN - REDUCED OSMOSIS

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK
ENGINEERING DEPT
No. 10905-457

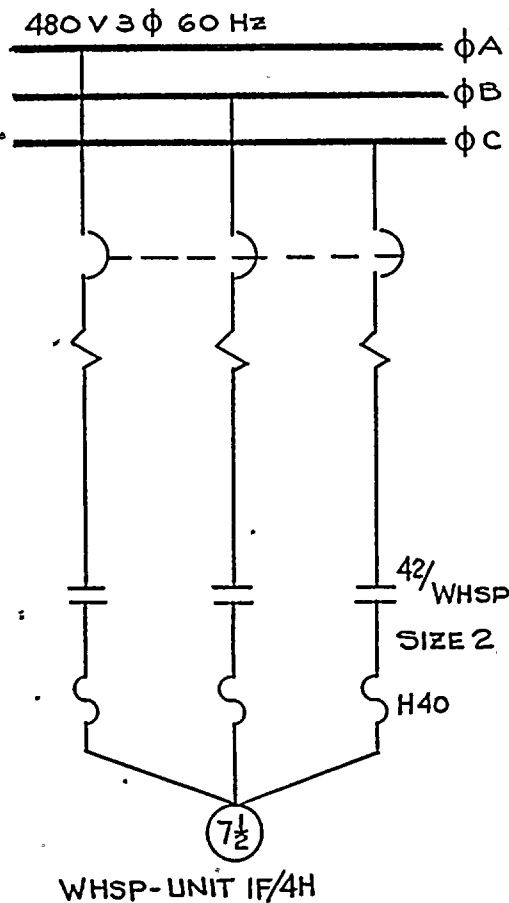
THIS DRAWING SUPERCEDES
WESTINGHOUSE DRAWING
499 B425, SHT. 427. (REV. 0)

#6 C.B.

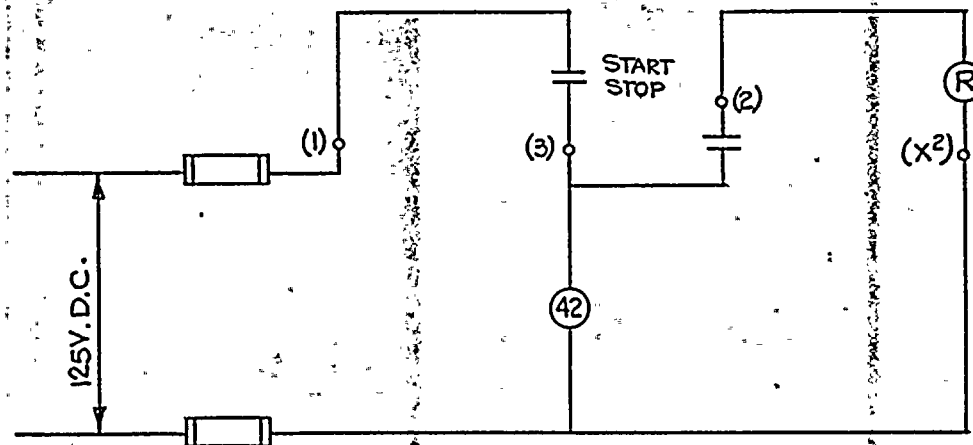


THIS DWG SUPERCEDES WESTINGHOUSE
DWG No. 499B425, SH. 428. (NO REV.)

| | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|------------|--|----------|--|-------|--|--------|--|
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | | | | | | | | | <u>ROBERT EMMETT GINNNA, NUCLEAR POWER</u>
<u>STATION, UNIT No. 1</u> | | | | | | | | | |
| "ENGINEERING" DEPT | | | | | | | | | | <u>ELEMENTARY WIRING DIAGRAM</u>
<u>WATER HEATER</u> | | | | | | | | | |
| NO. 10995-428 | | | | | | | | | | | | | | | | | | | |
| REV. | | | | | | | | | | DRAWN | | E. Schmitt | | DATE | | SCALE | | NONE | |
| ORIGINAL | | | | | | | | | | CHECKED | | | | APPROVED | | | | | |
| | | | | | | | | | | BY | | CK'D. | | RESP | | ENGR | | DATE | |
| | | | | | | | | | | E. Schmitt | | 4/14/55 | | RCH | | RCH | | 6/5/55 | |



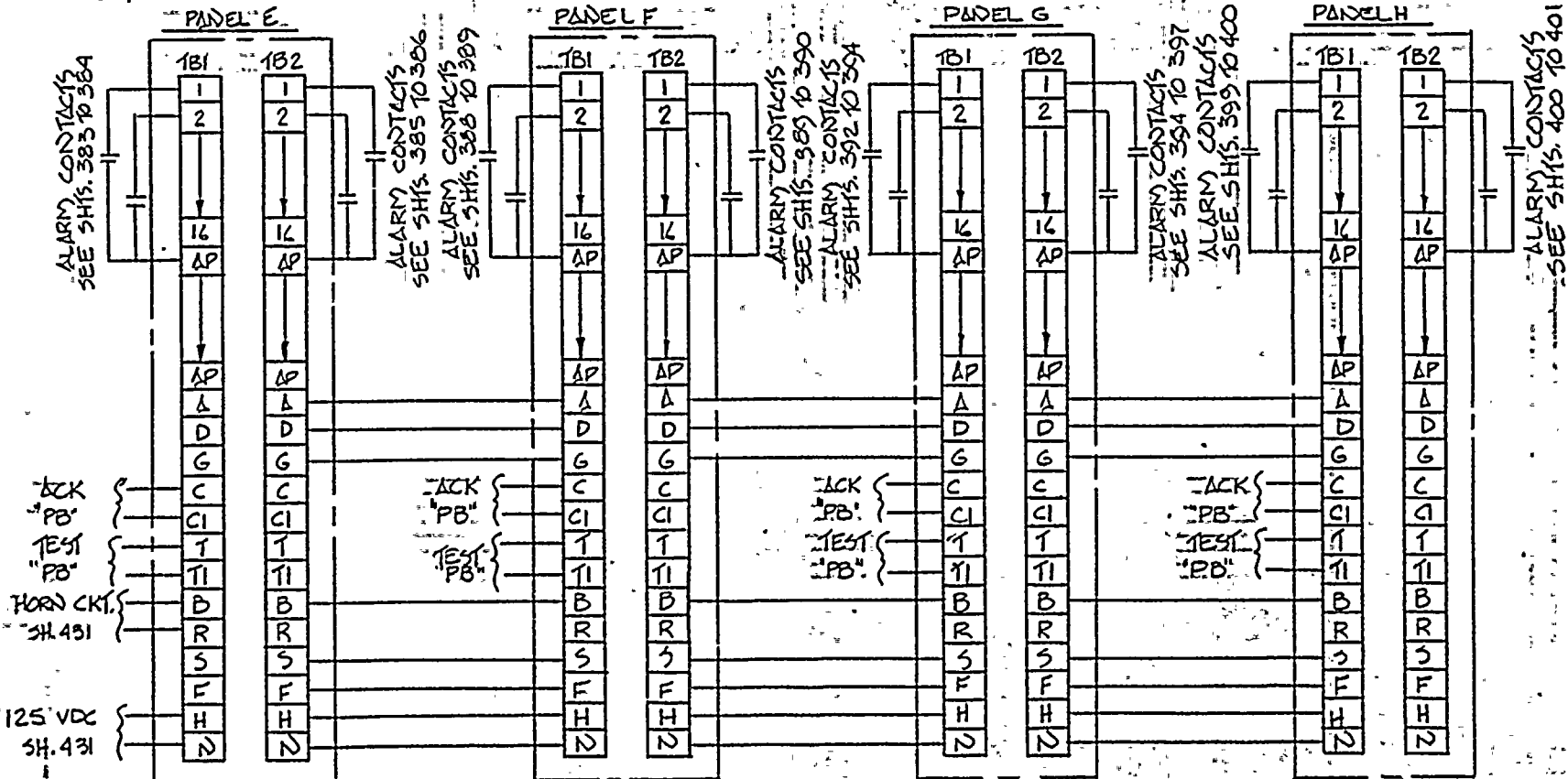
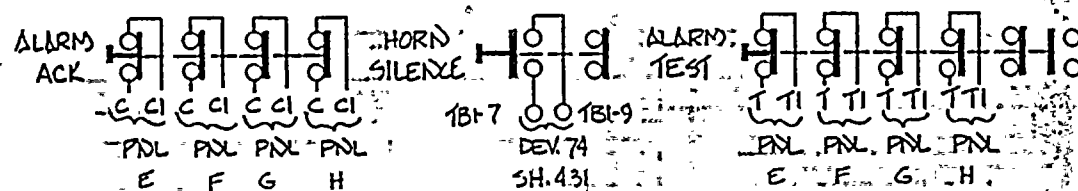
NOTE:
THIS DWG. SUPERCEDES WESTINGHOUSE
DWG. No. 499 B 425, SH.429, (No REV.)



| REV. | DATE | BY | CHK'D. | ENG'R | DATE |
|---|---------|-------|--------|-------|--------|
| ORIGINAL | 9/14/75 | RM | RM | ENG'R | 6/5/75 |
| | | DRAWN | RESP. | ENG'R | |
| | | BY | ENG'R | MGR. | |
| ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK | | | | | |
| ENGINEERING DEPT | | | | | |
| No. 10905 - 439 | | | | | |

ROBERT EMMETT GINNA NUCLEAR POWER
STATION UNIT No. 1
ELEMENTARY WIRING DIAGRAM
WATER HEATER SUPPLY WATER PUMP

| | | | |
|---------|--------|------------|------|
| DRAWN | 6.5.75 | SCALE | NONE |
| CHECKED | | APPROVED | |
| DATE | | FOLDER NO. | |
| | | JOB NO. | |



THIS DWG. SUPERSEDES (W) DWG. 499B425 SH. 433: REV. 2

| REV. | | | | | |
|----------|----------|----------------|-------------|-----------|--------|
| ORIGINAL | AV. | RHM
4/14/75 | PCX | RCM | 4/5/75 |
| | DRAWN BY | CK'D. | RESP. ENG'R | ENG'R MGR | DATE |

ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

DEPT
Engineering

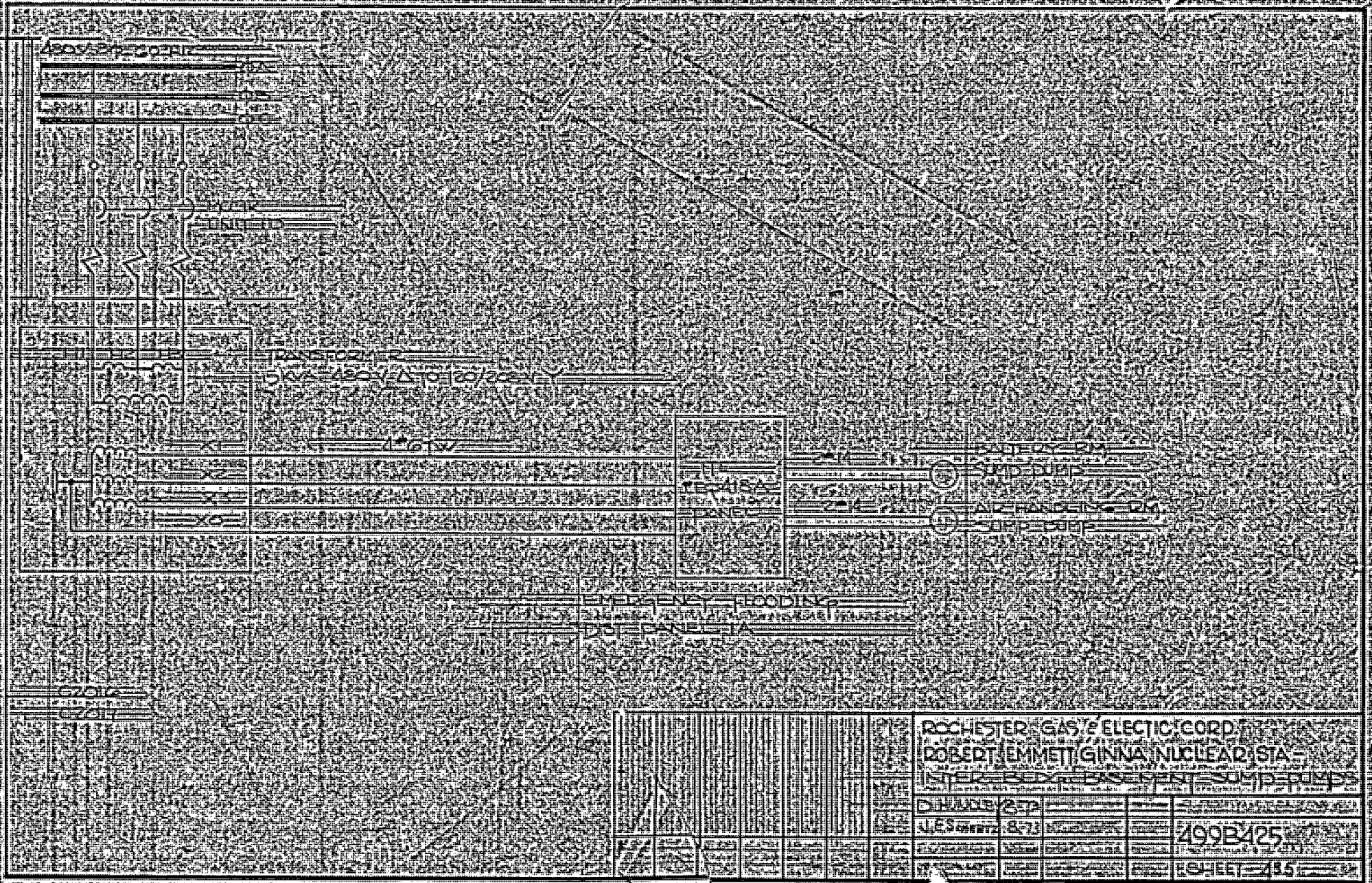
NO. 10905-433

RE. GIRD. NUCLEAR POWER STA. UNIT 1

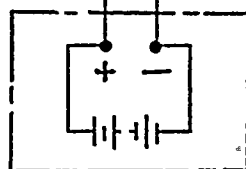
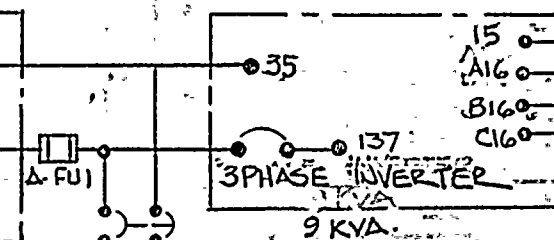
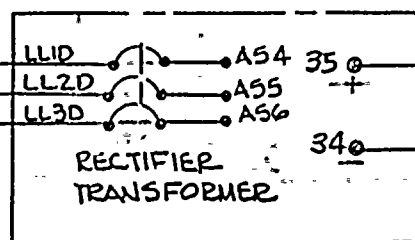
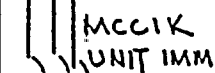
ELEMENTARY WIRING DIAGRAM

ANNEXURE PANEL CENTER SECTION

| DATE | SCALE | APPROVED | FOLDER NO. | JOB NO. |
|---------|-------|----------|------------|---------|
| 7/75 | None | | | |
| DRAWN | 200 | | | |
| TRACED | | | | |
| CHECKED | | | | |
| ENG. | | | | |

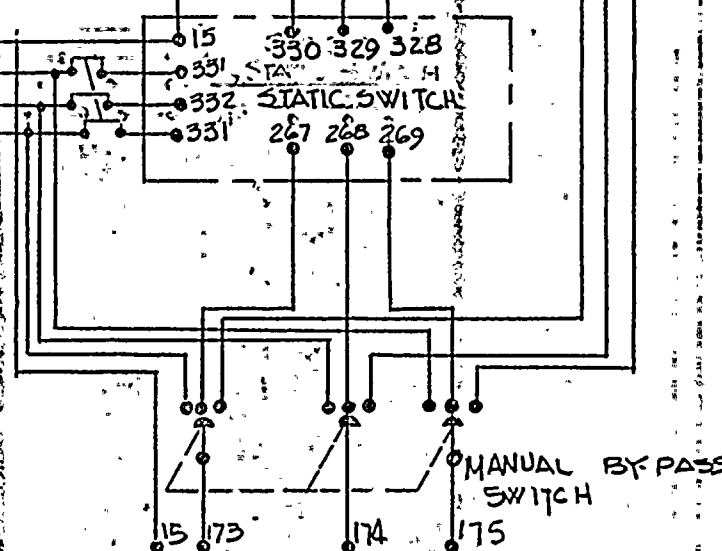


| | | | |
|-----------------------------------|------|-------------|----------|
| ROCHESTER GAS & ELECTRIC CORP. | | | |
| ROBERT EMMETT GINNA NUCLEAR STA. | | | |
| INTERLOCK BASE PANEL - SUMP PUMPS | | | |
| DATE | 2-74 | BY | SCOTT |
| DESIGNED BY | 8-73 | CHECKED BY | 499B425 |
| REVISIONS | | APPROVED BY | |
| BY | | DATE | SHEET 45 |

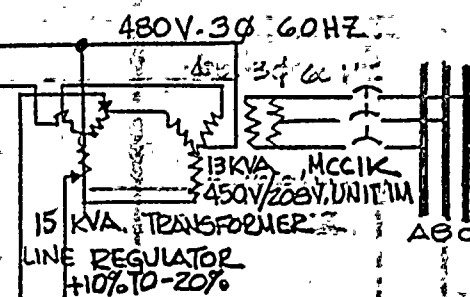


BATTERY

CIR. E260, E261, E262, E263, E264, E265



A.C. OUTPUT TO COMPUTER
120/208V, 60 HZ 3 ϕ



ALTERNATE
SOURCE:

| | | | | | | |
|----------|-------------|------|----------------|---------------|---------|------|
| REV. | | | | | | |
| ORIGINAL | DOF | Rev. | 22B
5/21/72 | RES | 5/21/72 | |
| | DRAWN
BY | CKD | RESP.
ENG'R | ENG'R
MGR. | | DATE |

NOTE: THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425 511 436

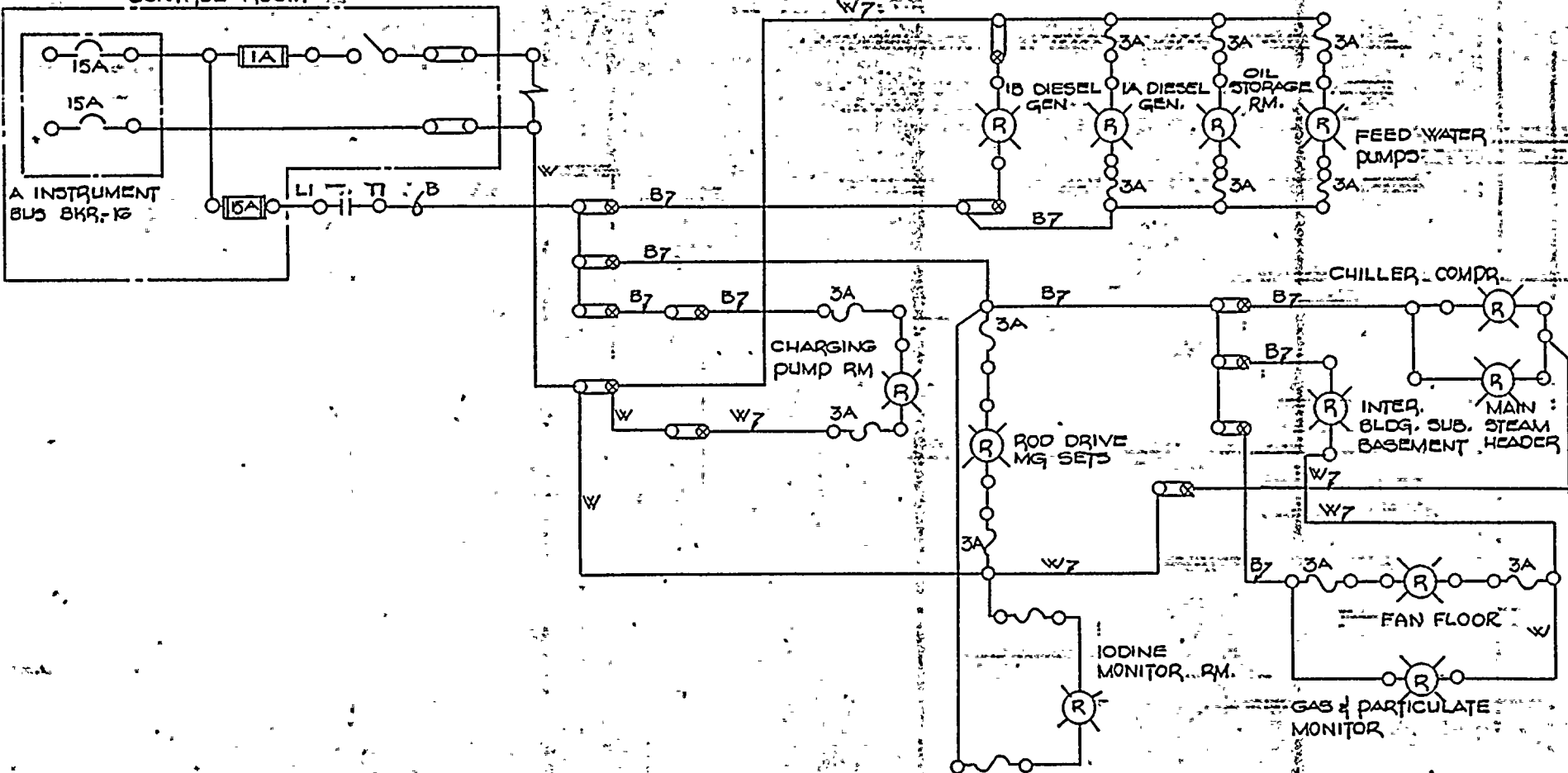
ROCHESTER GAS & ELECTRIC CORP.
ROCHESTER, NEW YORK

ENGINEERING

No. 10905 - 436

ROBERT EMMETT GINNA NUCLEAR
POWER STATION UNIT NO. 1
WIRING DIAGRAM
COMPUTER POWER SUPPLY

CONTROL ROOM



THIS DRAWING SUPERSEDES WESTINGHOUSE DRAWING 499B425 SH.437

| REV. | DATE | BY | CHK'D | RESP. ENGR. | DATE |
|----------|--------|-----|-------|-------------|---------|
| ORIGINAL | 6-4-76 | DFH | CK'D | RES. | 6-10-76 |
| | | DFH | CK'D | RES. | 6-10-76 |
| | | DFH | CK'D | RES. | 6-10-76 |
| | | DFH | CK'D | RES. | 6-10-76 |
| | | DFH | CK'D | RES. | 6-10-76 |

| | | | |
|--|---------|---------------------------------|------------|
| ROBERT EMMETT GINNA NUCLEAR POWER STATION UNIT NO. 1 | | EVAUATION ALARM LIGHT SCHEMATIC | |
| NO. 10905-437 | DATE | SCALE | APPROVED |
| ENGR. | BY | TRACED | FOLDER NO. |
| DEPT | CHECKED | DATE | JOB NO. |