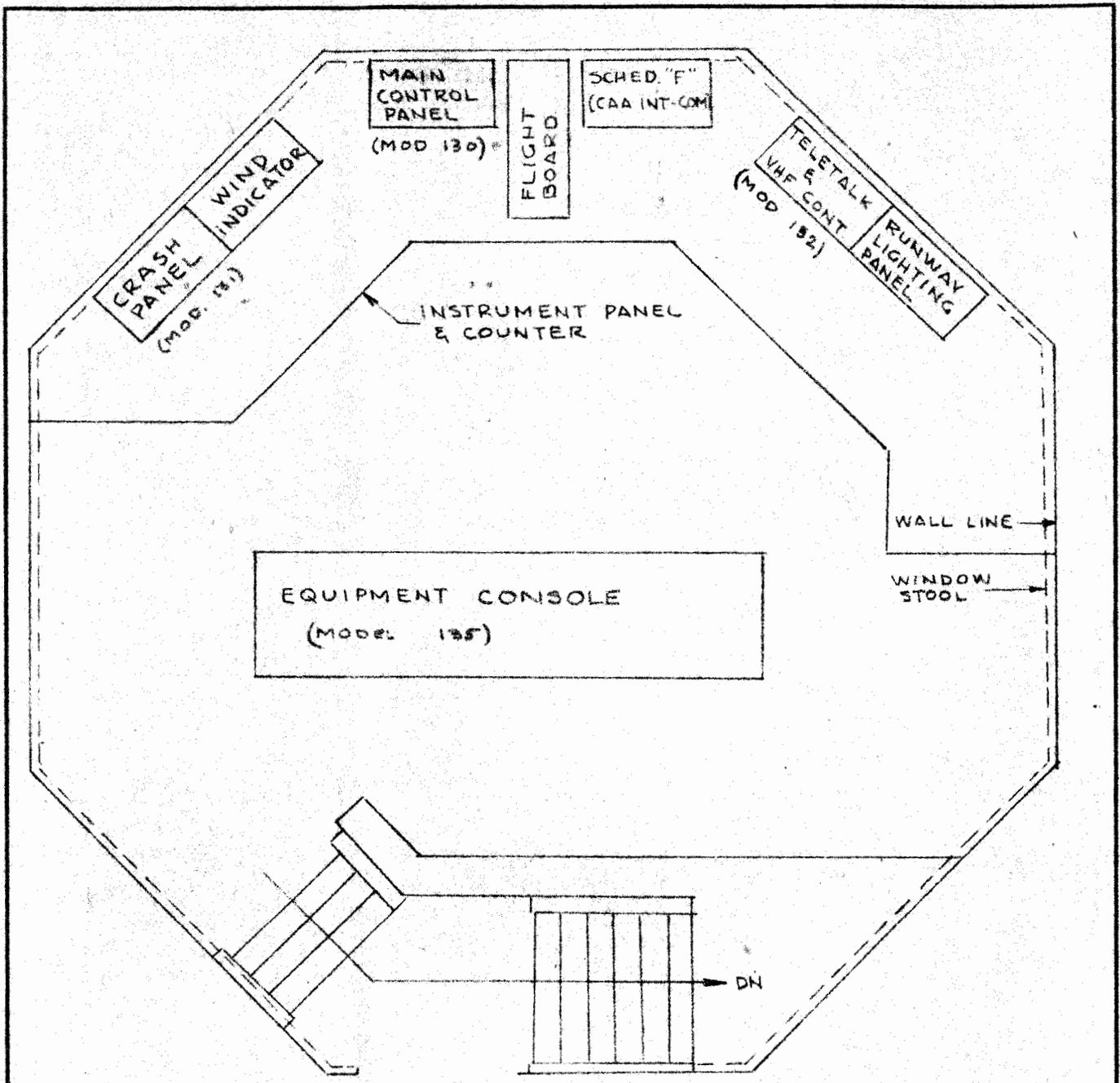


Alt. Let.	ALTERATION	Date	In'l
B	RELOCATED YA CONTROL UNIT. INTERCHANGED ELECTRONIC MIXER AND CARRIER OPERATED DEVICE (COD)	6-16-45	SRK

Radio Material Office Puget Sound Navy Yard		
Prepared By	Drawn By F.M.	In. Chg. Drafting Thompson
Plan. Engr. Shore Sta's. <i>[Signature]</i>	SUBMITTED: H.C. Wilcox Lt. (jg), U.S.N. Asst RMO for Shore Sta's.	
Radio Engr. Shore Sta's. <i>[Signature]</i>	APPROVED: W.H. Pitts Comdr., U.S.N. Radio Material Officer	
Senior Radio Engr. <i>[Signature]</i>		
RECEIVER & RELAY RACK EQPT. FOR NAS CONTROL TOWER		
Scale 1/2" = 1'-0"	Date Approved 3-12-45	Sheet of

SEE RS 10AA 688 FOR PANEL ARRGT WHEN USING MODEL RDE RCVR'S



PLAN

Radio Material Office Puget Sound Navy Yard		
Prepared By J. M. P.	Drawn By R. A. P.	Checked By J. M. P.
Plan. Engr. Shore Sta's. <i>[Signature]</i>	SUBMITTED: <i>[Signature]</i> Lt. U.S.N. Asst RMO for Shore Sta's.	
Radio Engr. Shore Sta's. <i>[Signature]</i>	APPROVED: <i>[Signature]</i> Comdr., U.S.N. Radio Material Officer	
STANDARD AIRPORT TRAFFIC CONTROL TOWER EQUIPMENT ARRANGEMENT		
Scale $\frac{1}{2}'' = 1'-0''$	Date Approved 6-6-45	Sheet   of

# MATERIAL LIST

MAIN CONTROL PANEL PSNY Model 130

DRAWING NO. RS 43F 821

ITEM NO.	AMT. REQD	DESCRIPTION	SIZE	MAT'L	MFR. & NUMBER OR FEDL. STD. STK. NO.	REMARKS
P6	1	Connector, 12 Contact Cable	Type #79 012F1		American Phenolic Corp.	
P7	1	Plug, 8 Prong	Type #GP8		" "	
P8	1	Plug, 11 Prong	Type #CP11		" "	
J9	1	Connector, 4 Contact	Type PC4F		" "	
J10	1	" " "	Same As J9		" "	
J11	1	" " "	" " "		" "	
J12	1	" " "	" " "		" "	
P9	1	Connector, 4 Prong Cable	Type MC4M		" "	
P10	1	" " "	Same as P9		" "	
P11	1	" " "	" " "		" "	
P12	1	" " "	" " "		" "	
R1	1	Resistor, Carbon	1 Meg 1/2w Carbon		International Resistance Co.	
R2	1	" "	Same as R1		" "	
R3	1	" "	" " "		" "	
R4	1	" "	" " "		" "	
R5	1	" "	" " "		" "	
R6	1	" "	" " "		" "	
R7	1	" "	" " "		" "	



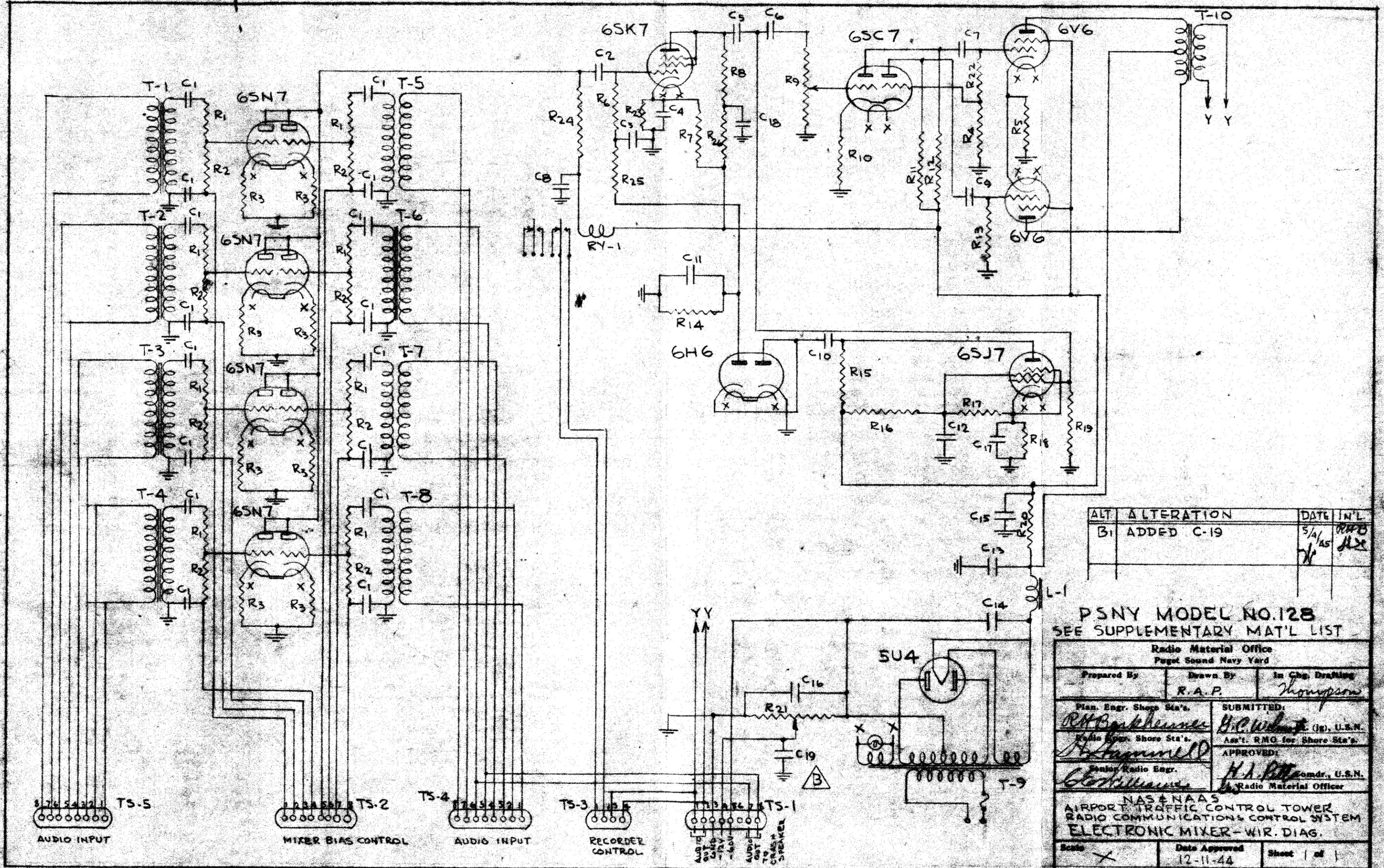
# MATERIAL LIST

DRAWING NO. RS 43P 820

CRASH FREQUENCY CONTROL PANEL PSNY Model 131

ITEM NO.	AMT. REQ'D	DESCRIPTION	SIZE	MAT'L	MFR. & NUMBER OR FEDL. STD. STK. NO.	REMARKS
R1	1	Resistor	1000 Ohm 10 W		International Resistance Corp.	
R2	1	"	400 Ohm 10 W		" "	
R3	1	"	500 Ohm 1 W		" "	
R4	1	"	500 Ohm 1 W		" "	
R5	1	Potentiometer	1 Meg #1-106		Centralab (Globe-Union, Inc)	
SW1	1	Switch, Gang Selector	8-Position 2-Gang		P.R. Mallory & Co., Type #1322L	
T-1	1	Transformer, Line Input	Type GH-1		Thermador	
T-2	1	" , Power	Type C69		"	
T-3	1	" , Audio Output	Type ZY-2001		Jensen Radio Mfg. Co.	
PL-1	1	Light, Pilot (Assembly), Green Jewel	Type #50	Jewel Faceted	Drake Mfg. Co.	
PL-2	1	" " " , Red Jewel	Type #50	"	" " "	
G-1	1	Condenser, Filter	Type BR845 8 Mfd, 450v		Cornell-Dubilier Elec. Corp.	
G-2	1	" "	Same as G-1		" "	
TS1	1	Strip, Terminal	Type #2411		Insulin Corp. of America	
TS2	1	" "	Type #2408		" "	
TS3	1	" "	Same as TS2		" "	
TS4	1	" "	Same as TS1		" "	
	2	Lamp, Panel, Bulb Type T-3 1/2	Type S44		Sylvania Elec. Products Inc.	





ALT	ALTERATION	DATE	IN'L
B1	ADDED C-19	5/1/45	WFB JLX

**PSNY MODEL NO.128**  
SEE SUPPLEMENTARY MAT'L LIST

Radio Material Office  
Pugot Sound Navy Yard

Prepared By	Drawn By	In Chg. Drafting
	R.A.P.	Thompson

Plan. Engr. Shore Sta's.	SUBMITTED:
<i>R.H. Beckhauer</i>	<i>H.C. Wilcox</i> (1g), U.S.N.
Radio Engr. Shore Sta's.	Asst. RMO for Shore Sta's.
<i>A. Agnew</i>	
Senior Radio Engr.	APPROVED:
<i>G. Williams</i>	<i>H.A. Pitts</i> Comdr., U.S.N.
	Radio Material Officer

NAS & NAAS  
AIRPORT TRAFFIC CONTROL TOWER  
RADIO COMMUNICATIONS CONTROL SYSTEM  
ELECTRONIC MIXER-WIR. DIAG.

Scale	Date Approved	Sheet
X	12-11-44	1 of 1

RS 43AA 823B

# MATERIAL LIST

DRAWING NO. RS 43AA 823

ELECTRONIC MIXER PSNY Model 128

ITEM NO.	AMT. REQ'D.	DESCRIPTION	SIZE	MAT'L	MFR. & NUMBER OR FEDL. STD. STK. NO.	REMARKS
R1	8	Resistor	.25 Meg-ohms 1/2 W.		International Resistance Corp.	
R2	8	"	10,000 Ohm 1/2 W.		" "	
R3	8	"	1,250 Ohm 1/2 W.		" "	
R4	1	"	112,500 Ohm 1/2 W.		" "	
R5	1	"	400 Ohm 10 W.		" "	
R6	1	"	1 Megohm 1 W.		" "	
R7	1	"	50,000 Ohm 1 W.		" "	
R8	1	"	25,000 Ohm 1 W.		" "	
R9	1	Potentiometer	1 Megohm Pot.		" "	
R10	1	Resistor	1750 Ohm 1 W.		" "	
R11	1	"	250,000 Ohm 1 W.		" "	
R12	1	"	250,000 Ohm 1 W.		" "	
R13	1	"	500,000 Ohm 1 W.		" "	
R14	1	"	2 Megohm 1 W.		" "	
R15	1	"	250,000 Ohm 1 W.		" "	
R16	1	"	100,000 Ohm 1 W.		" "	
R17	1	"	40,000 Ohm 1 W.		" "	
R18	1	"	500 Ohm 1 W.		" "	

# MATERIAL LIST

DRAWING NO. RS 454A 833

ELECTRONIC LETTER TEST Model 150

ITEM NO.	QTY	DESCRIPTION	SIZE	MATL.	MFR. & NUMBER OR PART, STD. STA. NO.	REMARKS
R19	1	Resistor	500,000 Ohm 1/2 W.		International Resistance Group	
R20	1	"	2,500 Ohm		"	
R21	1	"	1,000 Ohm		"	
R22	1	"	500,000 Ohm 1/2 W.		"	
R23	1	"	5,000 Ohm		"	
R24	1	"	40,000 Ohm		"	
R25	1	"	100,000 Ohm 1/2 W.		"	
R26	1	"	2,500 Ohm		"	
C1	10	Capacitor, Tubular Paper	.02 Mfd.		Gernell-Dubilier Elec. Corp.	
C2	1	"	.025 Mfd.		"	
C3	1	"	.05 Mfd.		"	
C4	1	Capacitor	20 Mfd 50V		"	
C5	1	Capacitor, Tubular Paper	.05 Mfd.		"	
C6	1	"	.05 Mfd.		"	
C7	1	"	.006 Mfd.		"	
C8	1	"	0.1 Mfd.		"	
C9	1	"	.006 Mfd.		"	
C10	1	"	.05 Mfd.		"	

# MATERIAL LIST

DRAWING NO. RS 43AA 823

ELECTRONIC MIXER PSNY Model 128

SEE SHEET 5

ITEM NO.	AMT. REQ'D.	DESCRIPTION	SIZE	MAT'L	MFR. & NUMBER OR FEDL. STD. STK. NO.	REMARKS
C11	1	Capacitor, Tubular Paper	0.5 Mfd.		Cornell-Dubilier Elec. Corp.	
C12	1	" " "	0.1 Mfd.		" "	
C13	1	Condenser, Electrolytic	8 Mfd-450 v		" "	
C14	1	" "	8 Mfd-600 v		" "	
C15	1	" "	8 Mfd-450 v		" "	
C16	1	" "	30 Mfd-150 v		" "	
C17	1	Capacitor, Tubular Paper	.25 Mfd.		" "	
C18	1	" " "	0.5 Mfd.		" "	
T-1	1	Transformer, Audio Line Input	Type GH-5		Thermador	
T-2	1	" " " "	Same as T-1		"	
T-3	1	" " " "	" " "		"	
T-4	1	" " " "	" " "		"	
T-5	1	" " " "	" " "		"	
T-6	1	" " " "	" " "		"	
T-7	1	" " " "	" " "		"	
T-8	1	" " " "	" " "		"	
T-9	1	Transformer, Power	C84		"	
T-10	1	Transformer, Audio Output	GH-41		"	

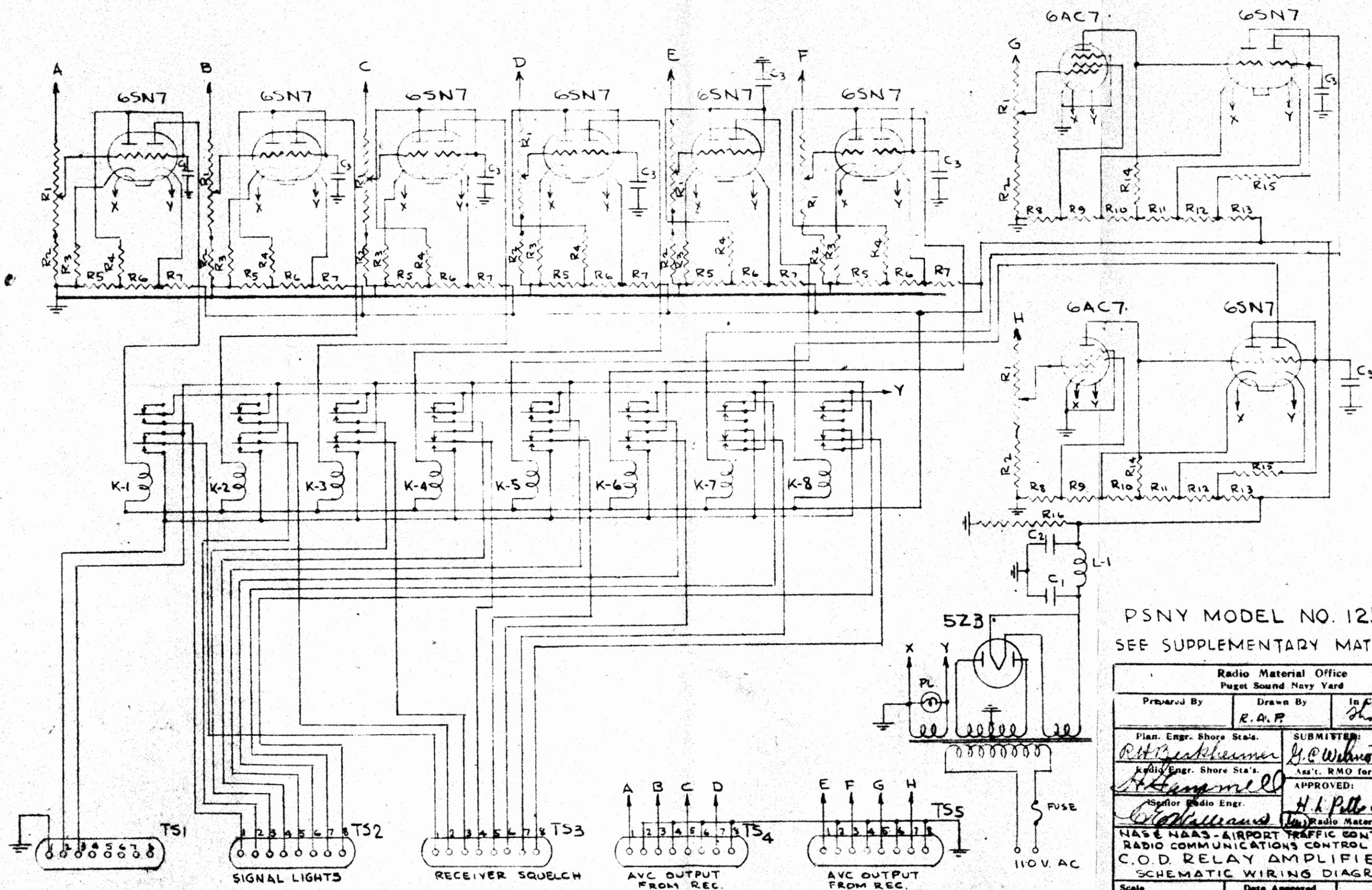
# MATERIAL LIST

DRAWING NO. RS 43AA 823

**ELECTRONIC MIXER PSNY Model 128**

ITEM NO	AMT REQ'D	DESCRIPTION	SIZE	MAT'L	MFR. & NUMBER OR FEEDL STD. STK NO	REMARKS
RY-1	1	Relay	RA22		Automatic Elec. Co.	
L-1	1	Choke, Filter	D2A			
	4	Tubes, Vacuum	6SN7			
	1	" "	6ST7			
	1	" "	6SK7			
	1	" "	6SC7			
	2	" "	6V6			
	1	" "	6H6			
	1	" "	5U4G			
	1	Fuse	Type 3 AG 2 Amp. Rating For 3 AG		Littlefuse Co.	
	1	Holder, Fuse	Fuse		" "	
	11	Socket, Octal, With Retainer Ring	Octal		American Phenolic Corp.	
	1	Chassis		Steel	PSNY	
	1	Receptacle, Male Plug, AC	61-M 2 Pole		American Phenolic Corp.	
PL-1	1	Assembly, Pilot Light, Green Jewel	#50 Pilot Light Assm	Faceted Jewel	Drake Mfg. Co.	
	1	Light, Panel, Type S44	Bulb Type T-34		Sylvania Products Corp.	
TS1	1	Strip, Terminal, Type No. 2409.	8 Term.		Insulin Corp. of America	
TS2	1	Strip, Terminal	Same as TS1		" "	





PSNY MODEL NO. 125  
SEE SUPPLEMENTARY MAT'L LIST

Radio Material Office Puget Sound Navy Yard		
Prepared By	Drawn By	In Chg. Drafting
	R.A.P.	Shompson
Plan. Engr. Shore Sta's.	SUBMITTED:	
R.H. Beckhauer	J.C. Whitcomb	
Radio Engr. Shore Sta's.	Asst. RMO for Shore Sta's.	
	APPROVED:	
Asst. Radio Engr.	H.A. Potts	
	Comdr., U.S.N.	
Radio Material Officer		
NAAS NAAS-AIRPORT TRAFFIC CONTROL TOWER RADIO COMMUNICATIONS CONTROL SYSTEM C.O.D. RELAY AMPLIFIER SCHEMATIC WIRING DIAGRAM		
Scale	Date Approved	Sheet of
	12-11-44	

RS 43AA 824A

# MATERIAL LIST

DRAWING NO. RS 43AA 824

C.O.D. RELAY AMPLIFIER PSNY Model 125

ITEM NO	AMT REQ'D	DESCRIPTION	SIZE	MAT'L	MFR & NUMBER OR FEEL STD. STK. NO.	REMARKS
R1	8	Potentiometer	2 Meg Pot- antiometer		International Resistance Corp.	
R2	8	Resistor	300,000 Ohm 1/2 Watt		" "	
R3	6	"	10,000 Ohm 1/2 Watt		" "	
R4	6	"	2 Megohm 1/2 Watt		" "	
R5	6	"	1750 Ohm 1/2 Watt		" "	
R6	6	"	500 Ohm 1 Watt		" "	
R7	6	"	50,000 Ohm 1 Watt		" "	
R8	2	"	6000 Ohm 1 Watt		" "	
R9	2	"	2500 Ohm 1 Watt		" "	
R10	2	"	1500 Ohm 1 Watt		" "	
R11	2	"	2250 Ohm 1 Watt		" "	
R12	2	"	5000 Ohm 1 Watt		" "	
R13	2	"	6000 Ohm 1 Watt		" "	
R14	2	"	50,000 Ohm 1 Watt		" "	
R15	2	"	40,000 Ohm 1 Watt		" "	
R16	1	"	20,000 Ohm 20 Watts		" "	
C1 & C2	1	Condenser, Electrolytic	8 Mfg-600 v #PEB 6808		Cornell-Dubilier Elec. Corp.	
C3	8	" Tubular Paper	.05 Mfd.		" "	

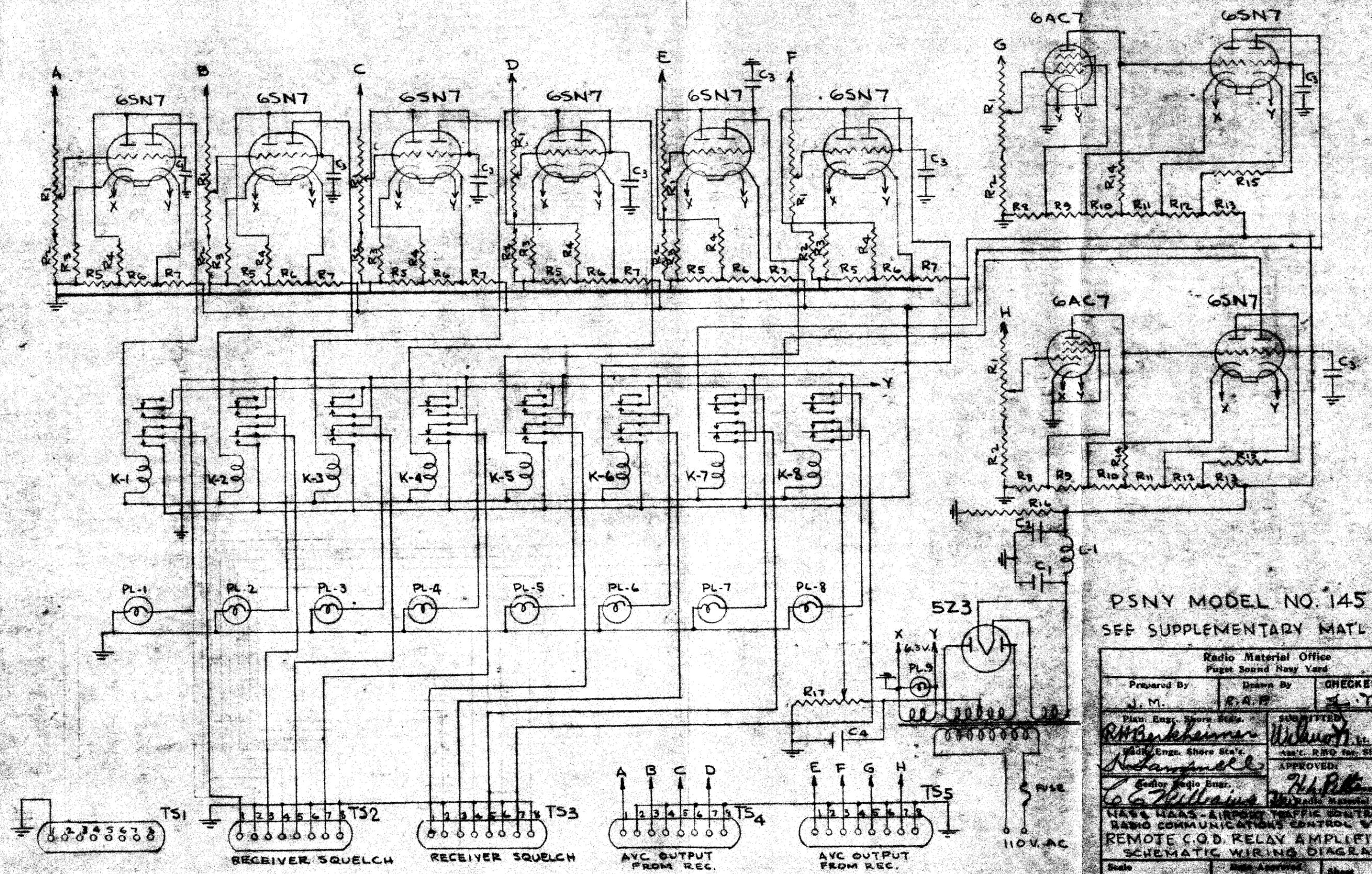
# MATERIAL LIST

DRAWING NO. RS 43AA 824

C.O.D. RELAY AMPLIFIER PSNY Model 125

ITEM NO.	AMT. REQ'D.	DESCRIPTION	SIZE	MATL.	MFR. & NUMBER OR FEDL. STD. STK. NO.	REMARKS
K-1	1	Relay	RA33, 2C Combination		Automatic Elec. Co.	
K-2	1	"	Same as K-1		" "	
K-3	1	"	" " "		" "	
K-4	1	"	" " "		" "	
K-5	1	"	" " "		" "	
K-6	1	"	" " "		" "	
K-7	1	"	" " "		" "	
K-8	1	"	" " "		" "	
TS1	1	Strip, Terminal	#2409 8 - Term.		Insuline Corp. of America	
TS2	1	" "	Same as TS1		" "	
TS3	1	" "	" " "		" "	
TS4	1	" "	" " "		" "	
TS5	1	" "	" " "		" "	
	8	Tube, Vacuum	6SN7			
	2	" "	6AC7			
	1	Transformer, Power	#6252		Chicago Trans- former Corp.	
	1	Choke, Filter	#6253		" "	
	1	Assembly, Pilot Light, Green Jewel	#50	Jewel Faceted	Drake Mfg. Co.	





PSNY MODEL NO. 145  
SEE SUPPLEMENTARY MAT'L LIST

Radio Material Office Fleet Sound Navy Yard		
Prepared By J. M.	Drawn By R. A. P.	CHECKED BY L. M. P.
Plan. Engr. Shore Sta. <i>R. M. Benheimer</i>	SUBMITTED <i>W. H. Pitt</i>	
Radio Engr. Shore Sta. <i>N. Samuel</i>	APPROVED Asst. RMO for Shore Sta.	
Senior Radio Engr. <i>C. G. Williams</i>	APPROVED Radio Material Officer	
NAVY & NAAS - AIRPORT TRAFFIC CONTROL TOWER RADIO COMMUNICATIONS CONTROL SYSTEM REMOTE C.O.D. RELAY AMPLIFIER SCHEMATIC WIRING DIAGRAM		
Scale SCHEMATIC	Date Approved 5-31-45	Sheet of 1

RS 43AA 1050A

# MATERIAL LIST

DRAWING NO. ML RS 43AA 1050

REMOTE C.O.D. RELAY AMPLIFIER PSNY Model 145

Date of Issue	Item No.	Amt. Req'd.	DESCRIPTION	Size	Mat'l.	Mfr. & Number or, Fed'l. Std. Stock No.	REMARKS
	R1	8	Potentiometer	2 Meg Pot-entimeter		International Resistance Corp	
	R2	8	Resistor	300,000 Ohm		" "	
	R3	6	"	1/2 Watt 10,000 Ohm		" "	
	R4	6	"	1/2 Watt 2 Megohm		" "	
	R5	6	"	1/2 Watt 1750 Ohm		" "	
	R6	6	"	500 Ohm 1 Watt		" "	
	R7	6	"	50,000 Ohm 1 Watt		" "	
	R8	2	"	6000 Ohm 1 Watt		" "	
	R9	2	"	2500 Ohm 1 Watt		" "	
	R10	2	"	1500 Ohm 1 Watt		" "	
	R11	2	"	2250 Ohm 1 Watt		" "	
	R12	2	"	5000 Ohm 1 Watt		" "	
	R13	2	"	6000 Ohm 1 Watt		" "	
	R14	2	"	50,000 Ohm 1 Watt		" "	
	R15	2	"	40,000 Ohm 1 Watt		" "	
	R16	1	"	20,000 Ohm 20 Watts		" "	
	R17	1	" Variable	500 Ohm 25 Watts		" "	
	C1 & C2	1	Condenser, Electrolytic	8 Mfd-600 v #PEB 6808		Cornell-Dubilier Elec. Corp.	
	C3	8	" Tubular Paper	.05 Mfd		" "	

# MATERIAL LIST

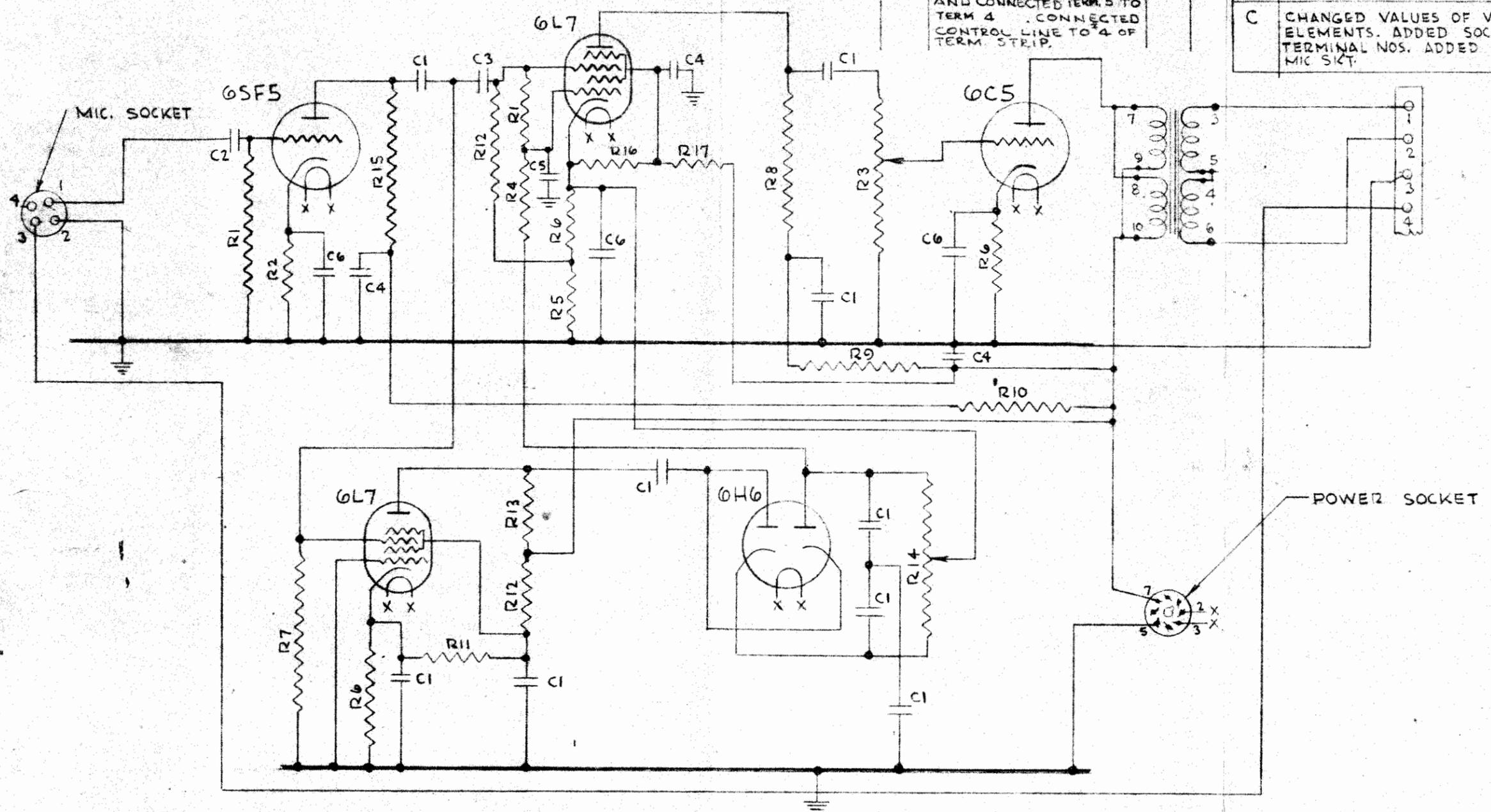
DRAWING NO. ML RS 43AA 1050

REMOTE C.O.D. RELAY AMPLIFIER PSNY Model 145

Date of Issue	Item No.	Amt. Req'd.	DESCRIPTION	Size	Mat'l.	Mfr. & Number or Fed'l. Std. Stock No.	REMARKS
	G4	1	Condenser, Tubular	20 Mfd 150 v.		Cornell-Dubilier Elec. Corp.	
	K-1	1	Relay	RA33, 2C Combination		Automatic Elec. Co.	
	K-2	1	"	Same as K-1		" "	
	K-3	1	"	" " "		" "	
	K-4	1	"	" " "		" "	
	K-5	1	"	" " "		" "	
	K-6	1	"	" " "		" "	
	K-7	1	"	" " "		" "	
	K-8	1	"	" " "		" "	
	TS1	1	Strip, Terminal	#2409 8-Term.		Insuline Corp. of America	
	TS2	1	" "	Same as TS1		" "	
	TS3	1	" "	" " "		" "	
	TS4	1	" "	" " "		" "	
	TS5	1	" "	" " "		" "	
	PL-1	1	Pilot Light Assembly, Green Jewel	Type #50	Jewel Faceted	Drake Mfg. Co.	
	PL-2	1	" " " " " "	" " "	"	" " "	
	PL-3	1	" " " " " "	" " "	"	" " "	
	PL-4	1	" " " " " "	" " "	"	" " "	
	PL-5	1	" " " " " "	" " "	"	" " "	



ALT. LET.	ALTERATION	DATE	INITIALS	ALT. LET.	ALTERATION	DATE	INITIALS
C	DELETED CONDENSER IN SECONDARY OF OUTPUT TRANSFORMER AND CONNECTED TERM. 5 TO TERM. 4. CONNECTED CONTROL LINE TO 4 OF TERM. STRIP.	2 DEC 1944		B	CHANGED VALUES OF R16 & R17. CHANGED VALUE OF C5.	6 SEPT 1943	
				C	CHANGED VALUES OF VARIOUS ELEMENTS. ADDED SOCKET TERMINAL NOS. ADDED LEAD AT MIC SCKT.	13 NOV 1943	



CAPACITORS

SYM.	VALUE	REQ'D.
C1	.05 $\mu$ fd. 600V	9
C2	.1 $\mu$ fd. 600V	2
C3	.002 $\mu$ fd. 600V	1
C4	4 $\mu$ fd. 600V	3
C5	.1 $\mu$ fd. 600V	1
C6	50 $\mu$ fd. 25V	3

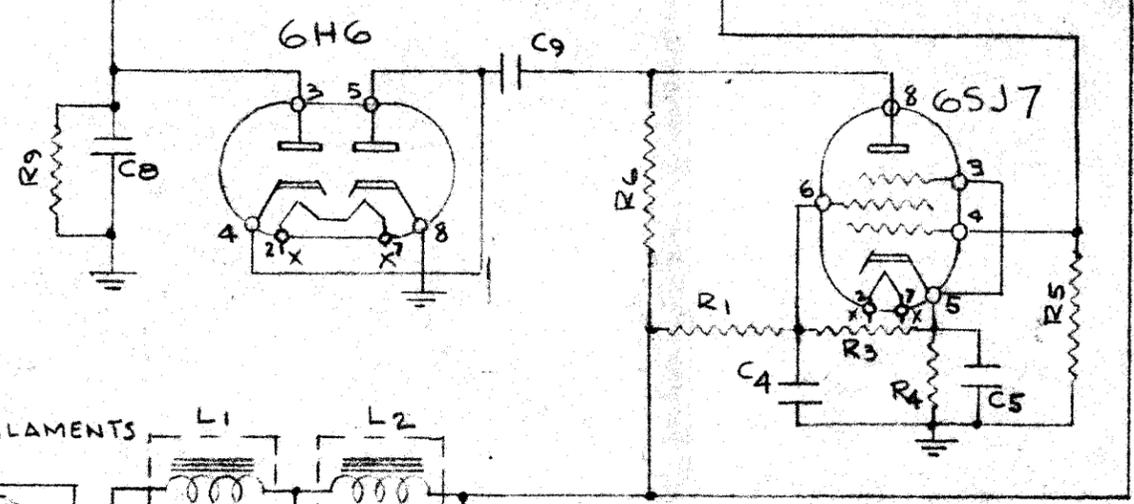
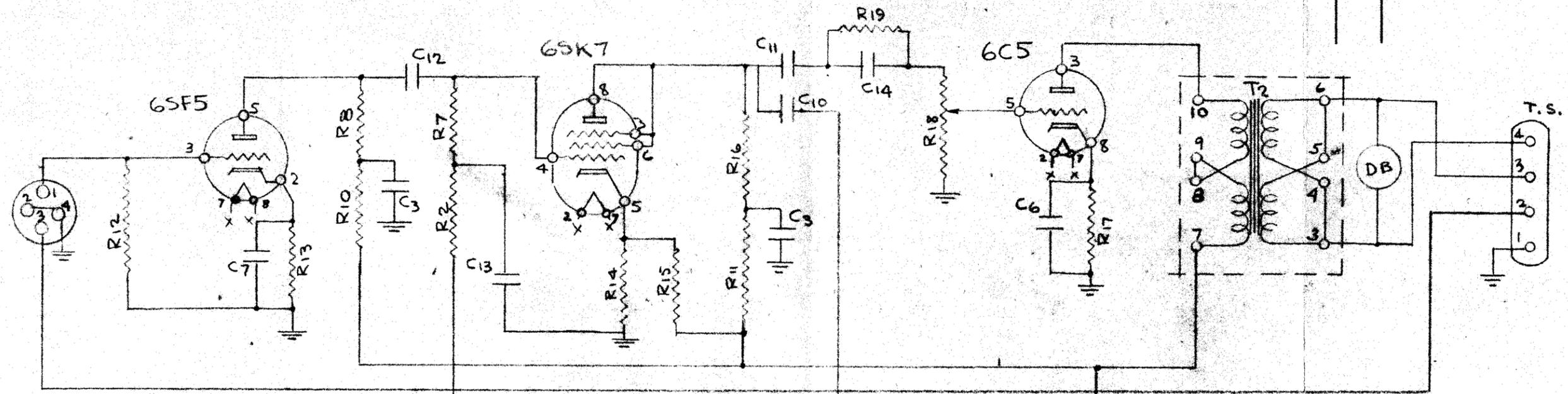
RESISTORS

SYM.	VALUE	REQ'D.	SYM.	VALUE	REQ'D.	SYM.	VALUE	REQ'D.
R1	1 MEGOHM	2	R7	150,000 OHMS	2	R13	400,000 OHMS	1
R2	5000 OHMS	1	R8	200,000 OHMS	1	R14	1 MEGOHM VAR	1
R3	500,000 OHMS VAR	1	R9	25,000 OHMS	1	R15	25,000 OHMS	1
R4	.5 MEGOHM	1	R10	50,000 OHMS	1	R16	70,000 OHMS	1
R5	30,000 OHMS	1	R11	40,000 OHMS	1	R17	75,000 OHMS	1
R6	1,500 OHMS	3	R12	125,000 OHMS	2			

RADIO MATERIAL OFFICE PUGET SOUND NAVY YARD		
PREPARED RRT	CHECKED R.P.	DRG ENGINEER R.H. [Signature]
APPROVED		
SR RADIO ENGR. RADIO MATERIAL OFFICER [Signature]		
COMDR USN		
LIMITING AMPLIFIER NO. 1 SCHEMATIC WIRING DIAGRAM		
NO SCALE	DATE: 23 JULY 1943	

RS 43AA 745 C

Alt. Let.	ALTERATION	Date	In'l



**CONDENSERS**

- C1 --- .05-.05 D4R-60055
- C2, C3 --- 10-15 MFD CAN 400V.
- C4 --- .25 MFD OIL FILLED
- C5, C6, C7 --- 25 MFD. 25V.
- C8 --- .5 MFD OIL FILLED
- C9, C10, C11, C12 --- .01 MFD PAPER
- C13 --- .05 MFD OIL FILLED
- C14 --- 500 MFD MICA

**TRANSFORMERS**

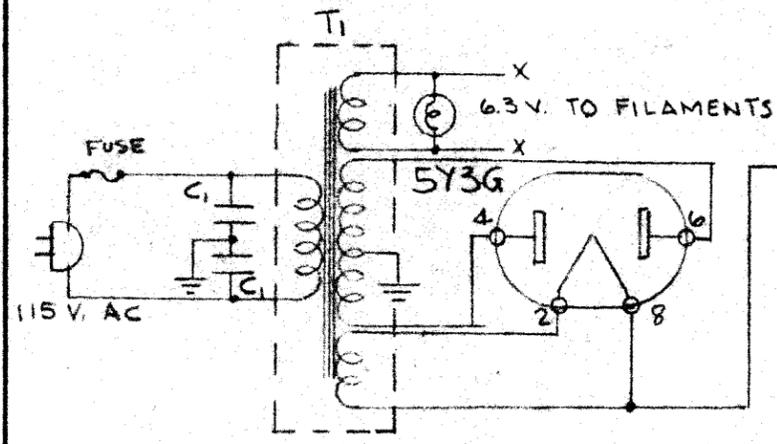
- T1 --- THERMADOR POWER C-64
- T2 --- THERMADOR AUDIO GH-15

**CHOKES**

- L1, L2 --- THERMADOR D-2A

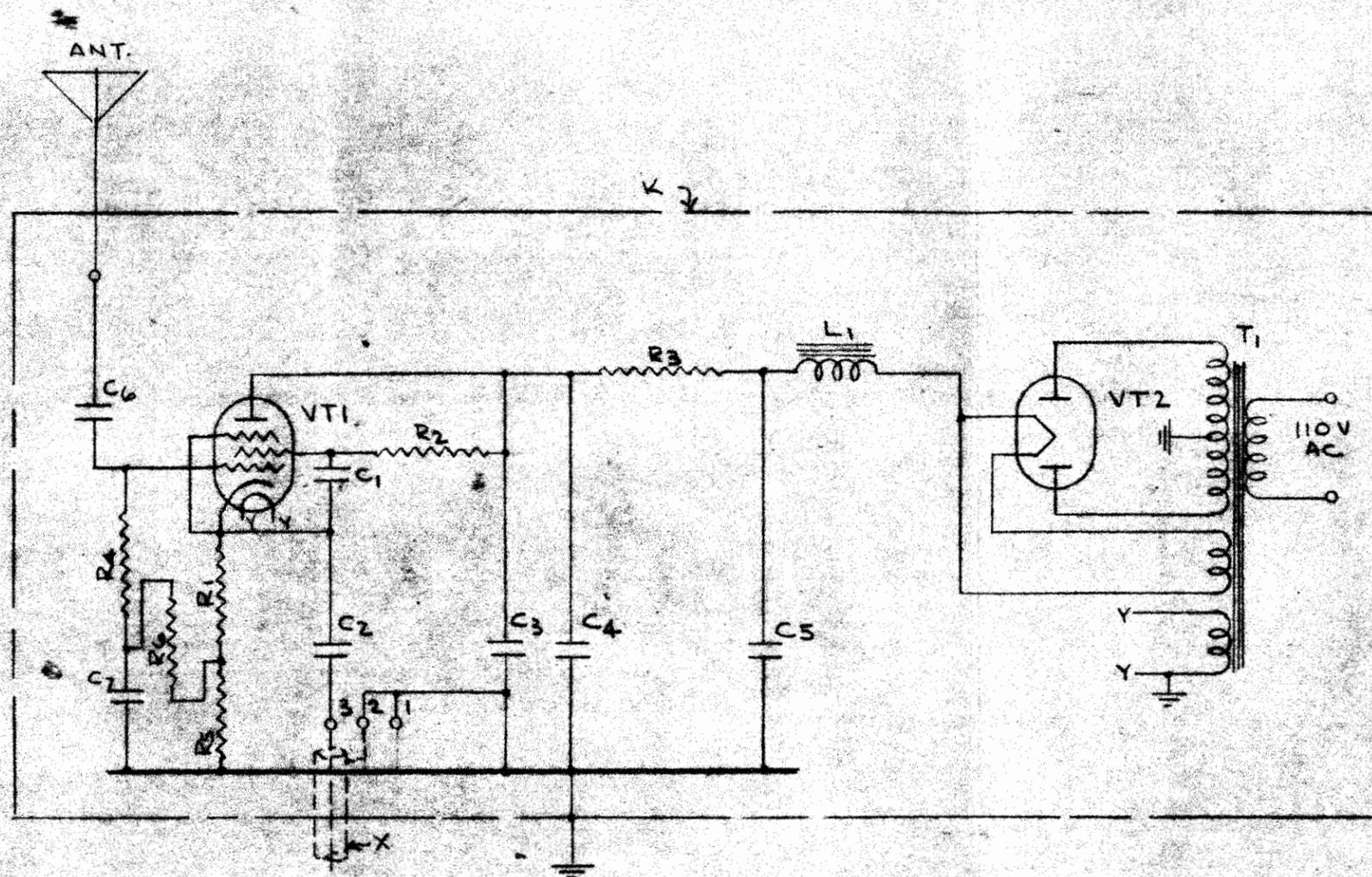
**RESISTORS**

- R1, R2 --- 100K $\Omega$ , 1W.
- R3 --- 40K $\Omega$ , 1W.
- R4 --- 4K $\Omega$ , 1W.
- R5 --- 500K $\Omega$ , 1W.
- R6, R7, R8 --- 250K $\Omega$ , 1W.
- R9 --- 2MEG. 1W.
- R10, R11 --- 10K $\Omega$  1W.
- R12 --- 1MEG., 1W.
- R13, R14 --- 3K $\Omega$ , 1W.
- R15, R16 --- 50K $\Omega$ , 1W.
- R17 --- 1K $\Omega$ , 1W.
- R18 --- 1MEG. POT.
- R19 --- 2MEG. 1W.



Radio Material Office Puget Sound Navy Yard		
Prepared By V. P.	Drawn By RAP	CHECKED BY J.M.P.
Plan. Engr. Shore Sta's. <i>R.H. Berkheimer</i>	SUBMITTED: <i>H.P. Whit</i> Lt. (jg), U.S.N. Ass't RMO for Shore Sta's.	
Radio Engr. Shore Sta's. <i>W. Hammett</i>	APPROVED: <i>G.E. Williams</i> Comdr., U.S.N. Radio Material Officer	
PRE-AMPLIFIER & COMPRESSOR PSNY MODEL 142 WIRING DIAGRAM		
Scale SCHEMATIC	Date Approved 5/24/45	Sheet of 1 of 1

RS 43AA 1049A



**NOTE:**

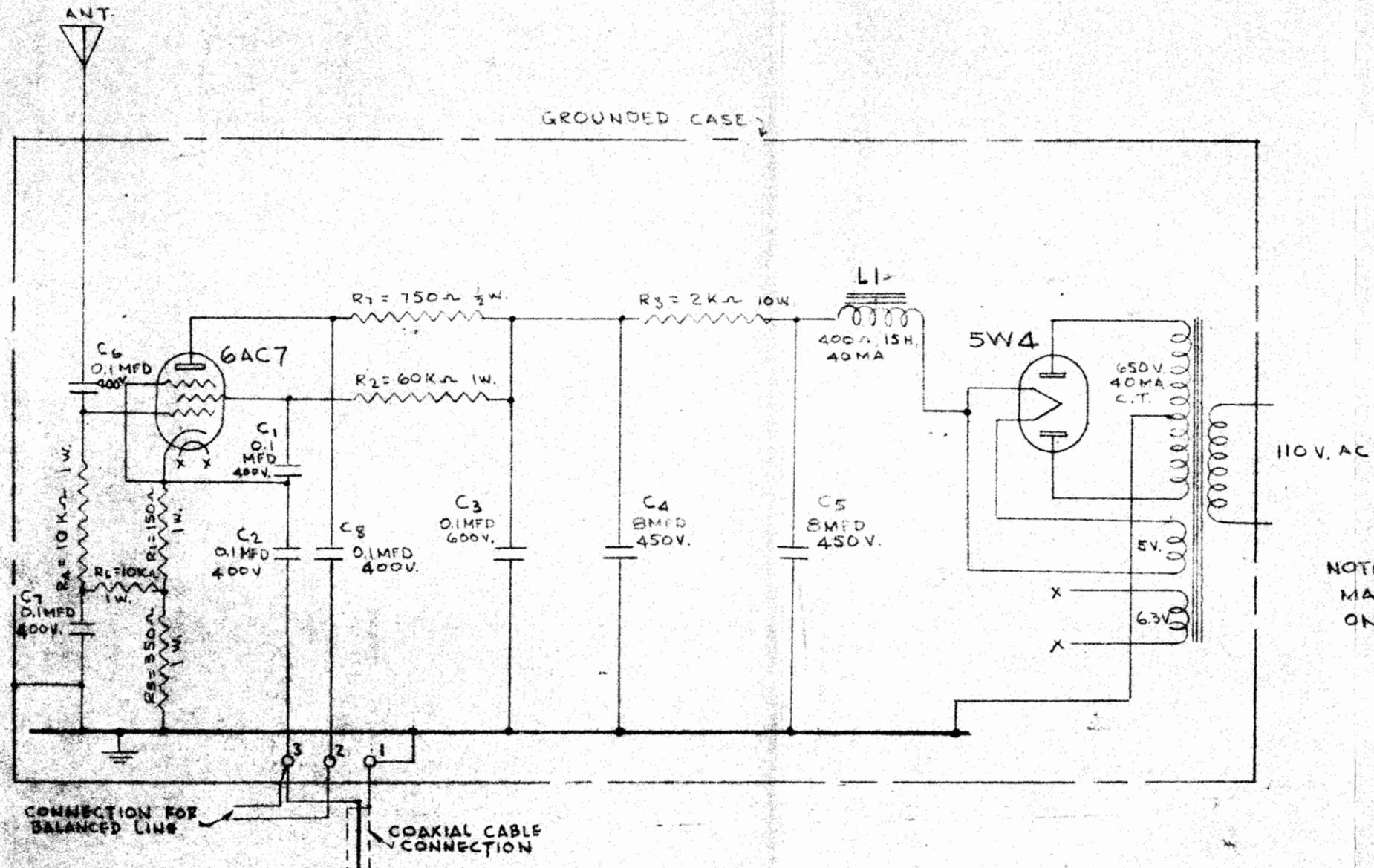
FOR SCHEMATIC WIRING OF CATHODE FOLLOWER ANTENNA COUPLER WITH OUTPUT TO BALANCED LINE, PENY MODEL 106B, SEE DRAWING NO. RS 43AA 763A

VT1	TYPE 6AC7 TUBE	C1	0.1 MFD, 200V. CONDENSER	K	STEEL CASE
VT2	TYPE 80 TUBE	C2	0.1 MFD. 200V. "	L1	FILTER CHOKE, 400-Ω 15 HENRYS, 40 MA.
R1	150-Ω 2W. RESISTOR	C3	0.1 MFD. 500V "	T1	POWER TRANSFORMER 110V PRIMARY, 650V SECONDARY C.T.: 45 MA, 5V, 25V, 6V, 2A.
R2	60,000-Ω 1W. "	C4	8 MFD 450V. "		
R3	2,000-Ω 10W "	C5	8 MFD 450V. "		
R4	10,000-Ω 1W. "	C6	0.1 MFD 200V. "		
R5	350-Ω 2W "	C7	0.1 MFD 200V. "		
R6	10,000-Ω 1W "	X	72 OHM CO-AXIAL TRANSMISSION LINE		

Radio Material Office Fugate Sound Navy Yard		
Prepared By <b>T.C. HALL</b>	Drawn By <b>R.A.P.</b>	In Chg. Drafting <i>Thompson</i>
Plan. Engr. Shore Sta's. <i>R.H. Berkham</i>	SUBMITTED: <i>D.P. Walnut</i> (Sgt., U.S.N.)	
Plan. Engr. Shore Sta's. <i>H. Harwood</i>	Asst. RMO for Shore Sta's. APPROVED:	
Radio Engr. Engr. <i>W.A. Miller</i>	Comdr., U.S.N. Radio Material Officer	
CATHODE FOLLOWER ANTENNA COUPLER, PENY MODEL 106B SCHEMATIC WIRING DIAG.		
Date 11 DEC 1943	Date Approved 11 DEC 1943	Sheet 1 of 1

RS 43AA 762A

Alt. Let.	ALTERATION	Date	In'l



NOTE:  
MATERIAL LIST FOR ONE UNIT IS  
ON ML-RS 43A 763

Radio Material Office Puget Sound Navy Yard		
Prepared By	Drawn By RAP	In Chg. Drafting Thompson
Plan. Engr. Shore Sta's. <i>R.H. Beck</i>	SUBMITTED: <i>W.C. Wilbur</i> (jg), U.S.N. Asst. EMO for Shore Sta's.	
Radio Engr. Shore Sta's. <i>A.H. Bauder</i>	APPROVED: -	
Senior Radio Engr. <i>W.H. Potts</i>	Comdr., U.S.N. Radio Material Officer	
CATHODE FOLLOWER ANT. COUPLER PSNY MODEL 106B SCHEMATIC WIRING DIAGRAM		
Scale X	Date Approved 3-7-45	Sheet 1 of 1

RS 43AA 763A

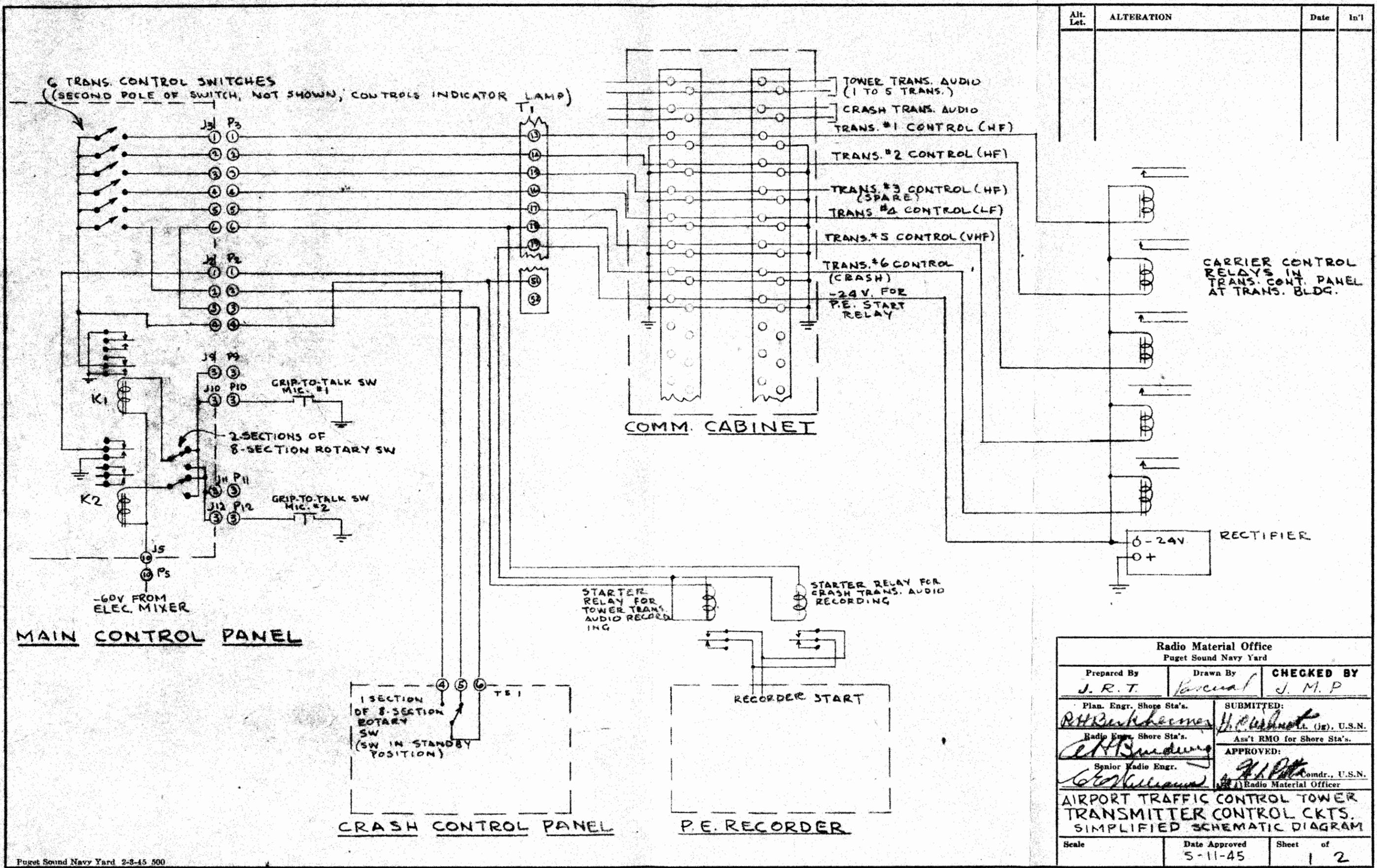
# MATERIAL LIST

DRAWING NO. ML RS 43AA 763A

Date of Issue	Item No.	Amt. Req'd.	DESCRIPTION	Size	Mat'l.	Mfr. & Number or Fed'l. Std. Stock No.	REMARKS
	V <sub>1</sub>	1	VACUUM TUBE TYPE 6AC7				
	V <sub>2</sub>	1	VACUUM TUBE TYPE 5W4				
	R <sub>1</sub>	1	RESISTOR, 150 $\Omega$ 1W.				
	R <sub>2</sub>	1	RESISTOR, 60K $\Omega$ 1W.				
	R <sub>3</sub>	1	RESISTOR, 2K $\Omega$ 10W.				
	R <sub>4</sub>	1	RESISTOR, 10K $\Omega$ 1W.				
	R <sub>5</sub>	1	RESISTOR, 350 $\Omega$ 1W.				
	R <sub>6</sub>	1	RESISTOR, 10K $\Omega$ , 1W.				
	R <sub>7</sub>	1	RESISTOR, 750 $\Omega$ $\frac{1}{2}$ W.				
	C <sub>1</sub>	1	CONDENSER, 0.1MFD, 400V.				
	C <sub>2</sub>	1	" , 0.1MFD, 400V.				
	C <sub>3</sub>	1	" , 0.1MFD, 600V.				
	C <sub>4</sub>	1	" , 8MFD 450V.				
	C <sub>5</sub>	1	" , 8MFD, 450V.				
	C <sub>6</sub>	1	" , 0.1MFD, 400V.				
	C <sub>7</sub>	1	" , 0.1MFD, 400V.				
	C <sub>8</sub>	1	" , 0.1MFD, 400V.				
	L1	1	CHOKE, FILTER <sup>400<math>\Omega</math>, 15H</sup> 40MA	D-21		THERMADOR	
		1	TRANSFORMER, POWER 110V. PRI., 650V. CT SEC. 40MA. <sup>5V. 2AMP</sup> <sub>63V. 20AMP</sub>	C-69		THERMADOR	



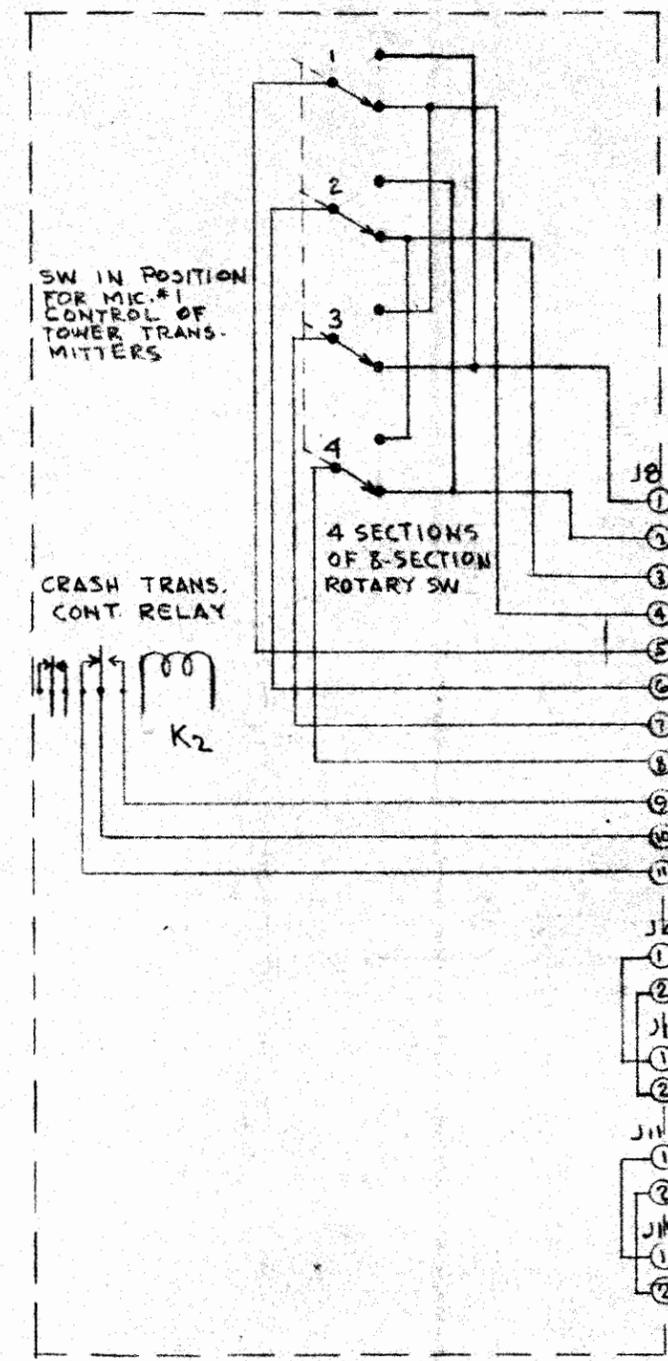
Alt. Let.	ALTERATION	Date	In'l



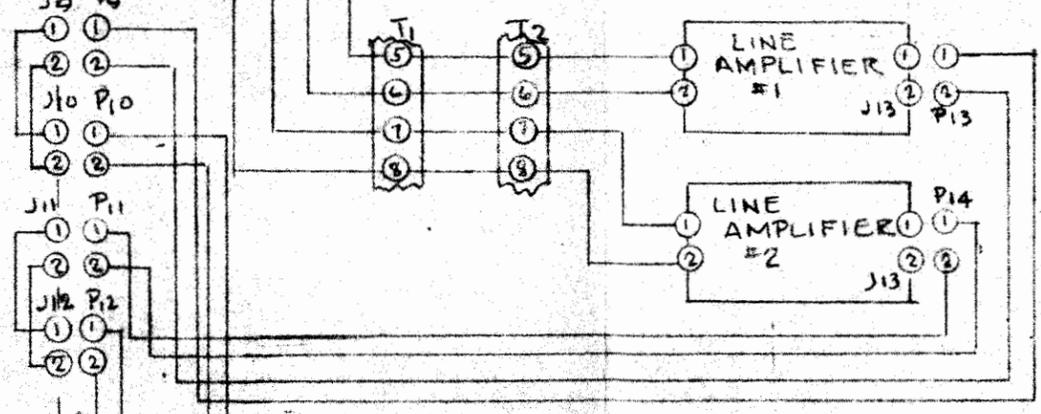
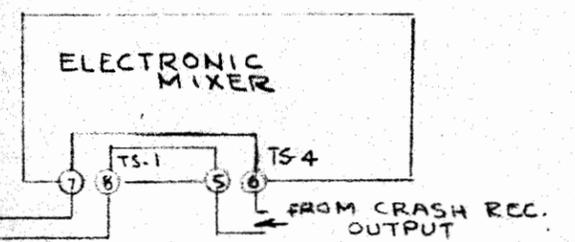
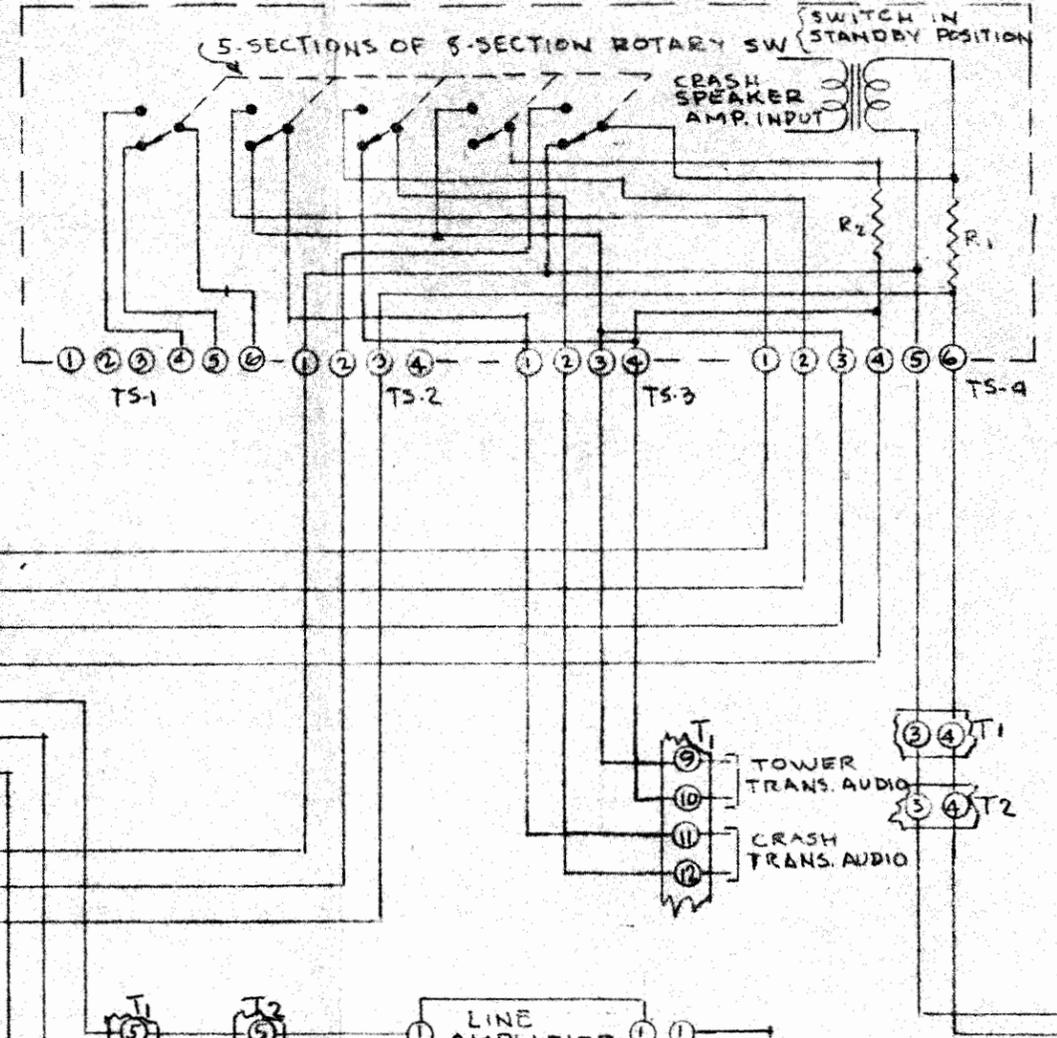
Radio Material Office Puget Sound Navy Yard		
Prepared By <i>J. R. T.</i>	Drawn By <i>Karcual</i>	CHECKED BY <i>J. M. P.</i>
Plan. Engr. Shore Sta's. <i>R.H. Beckhemes</i>	SUBMITTED: <i>H.C. ... Lt. (jg), U.S.N.</i> Ass't RMO for Shore Sta's.	
Radio Engr. Shore Sta's. <i>W.H. ...</i>	APPROVED: <i>... Comdr., U.S.N.</i> Radio Material Officer	
AIRPORT TRAFFIC CONTROL TOWER TRANSMITTER CONTROL CKTS. SIMPLIFIED SCHEMATIC DIAGRAM		
Scale	Date Approved 5-11-45	Sheet of 1 2

Alt. Let.	ALTERATION	Date	In'l

**MAIN CONTROL PANEL**



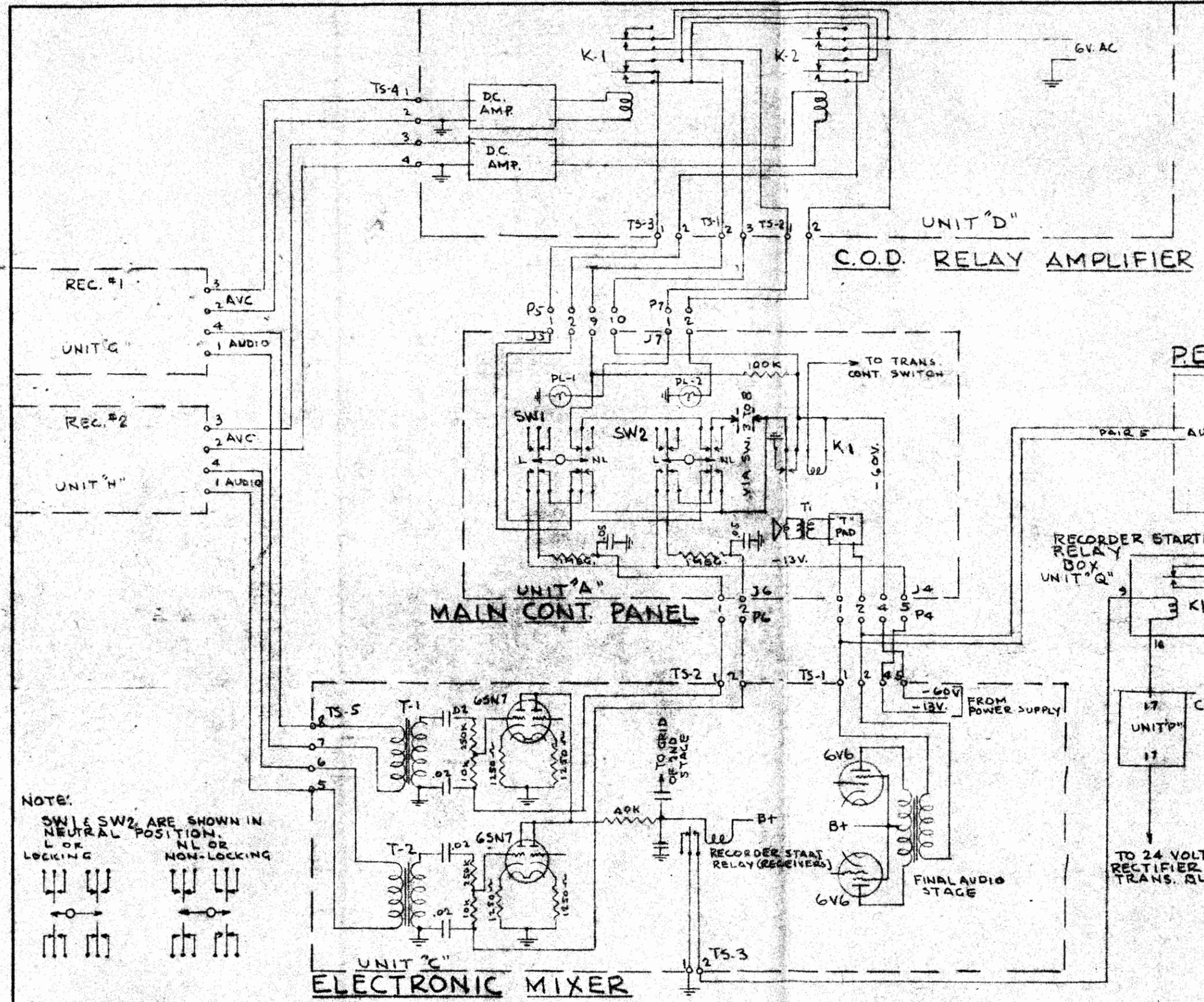
**CRASH CONTROL PANEL**



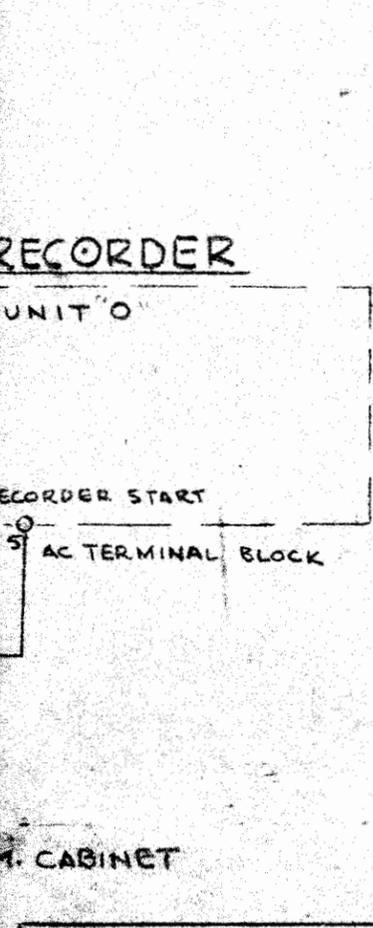
Radio Material Office Puget Sound Navy Yard		
Prepared By <i>J. R. T.</i>	Drawn By <i>Pascual</i>	CHECKED BY <i>J. M. P.</i>
Plan. Engr. Shore Sta's. <i>R. H. Berkheimer</i>	SUBMITTED: <i>U. C. Wilcox</i> Lt. (jg), U.S.N. Ass't RMO for Shore Sta's.	
Radio Engr. Shore Sta's. <i>A. B. Anderson</i>	APPROVED: <i>W. H. Pitts</i> Comdr., U.S.N. Radio Material Officer	
Senior Radio Engr. <i>C. S. Williams</i>		
AIRPORT TRAFFIC CONTROL TOWER TRANSMITTER AUDIO CIRCUITS SIMPLIFIED SCHEMATIC DIAGRAM		
Scale	Date Approved 5-11-45	Sheet of 2 2

RS 43AA 1046A

Alt. Let.	ALTERATION	Date	In'l



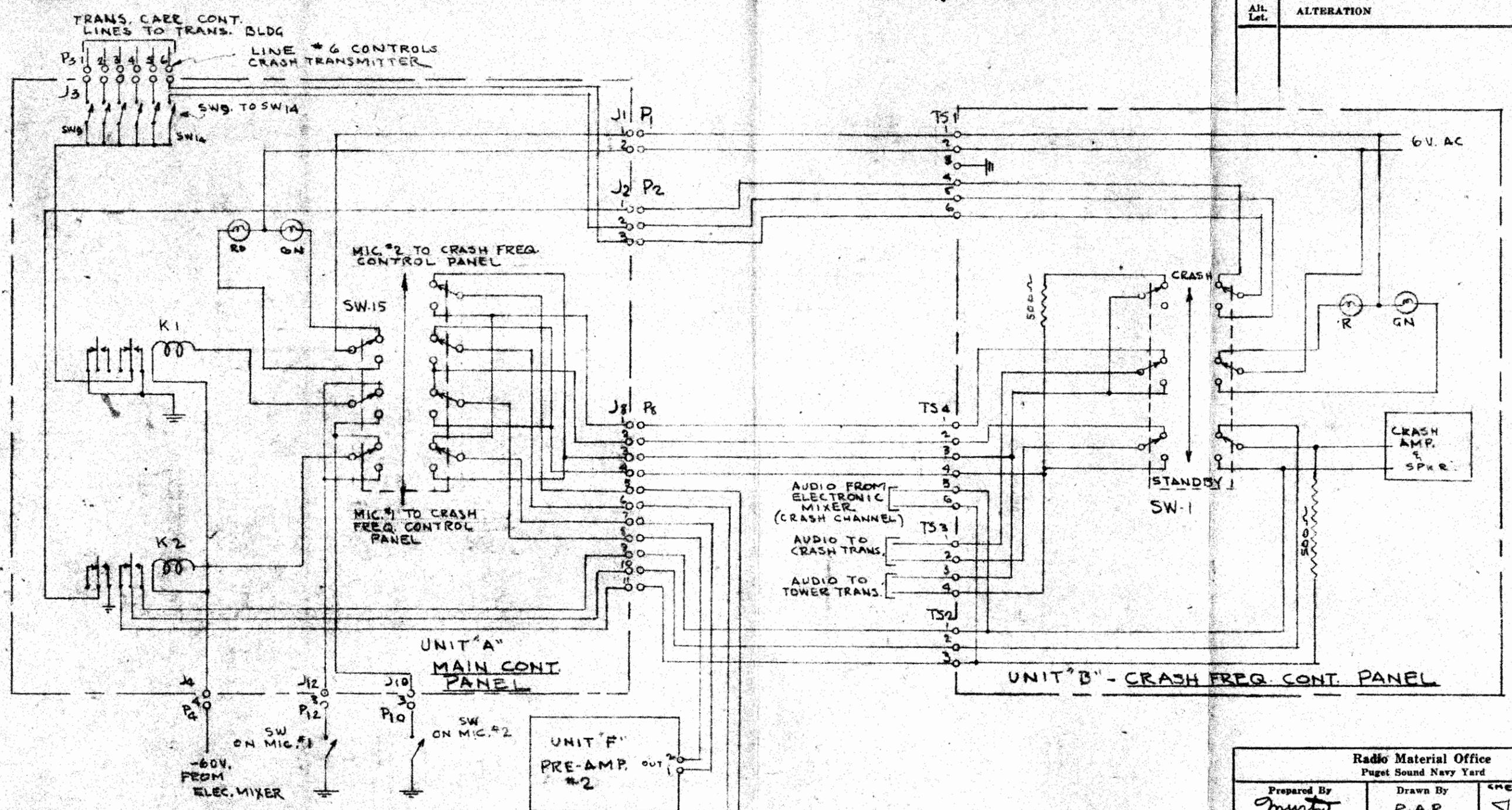
NOTE:  
 SW1 & SW2 ARE SHOWN IN NEUTRAL POSITION.  
 L OR LOCKING      NL OR NON-LOCKING



Radio Material Office Puget Sound Navy Yard		
Prepared By MURTY	Drawn By R.A.P.	CHECKED BY J.M.P.
Plan. Engr. Shore Sta's. <i>R.A. Burckheimer</i>	SUBMITTED: <i>R.A.P.</i>	
Radio Engr. Shore Sta's. <i>H.C. Hammel</i>	APPROVED: <i>H.C. Hammel</i>	
Senior Radio Engr. <i>C.G. Williams</i>	Comdr., U.S.N. Radio Material Officer	
AIRPORT TRAFFIC CONTROL TOWER RECEIVER CONTROL CIRCUITS SIMPLIFIED SCHEMATIC DIAGRAM		
Scale X	Date Approved 6-15-45	Sheet 1 of 1

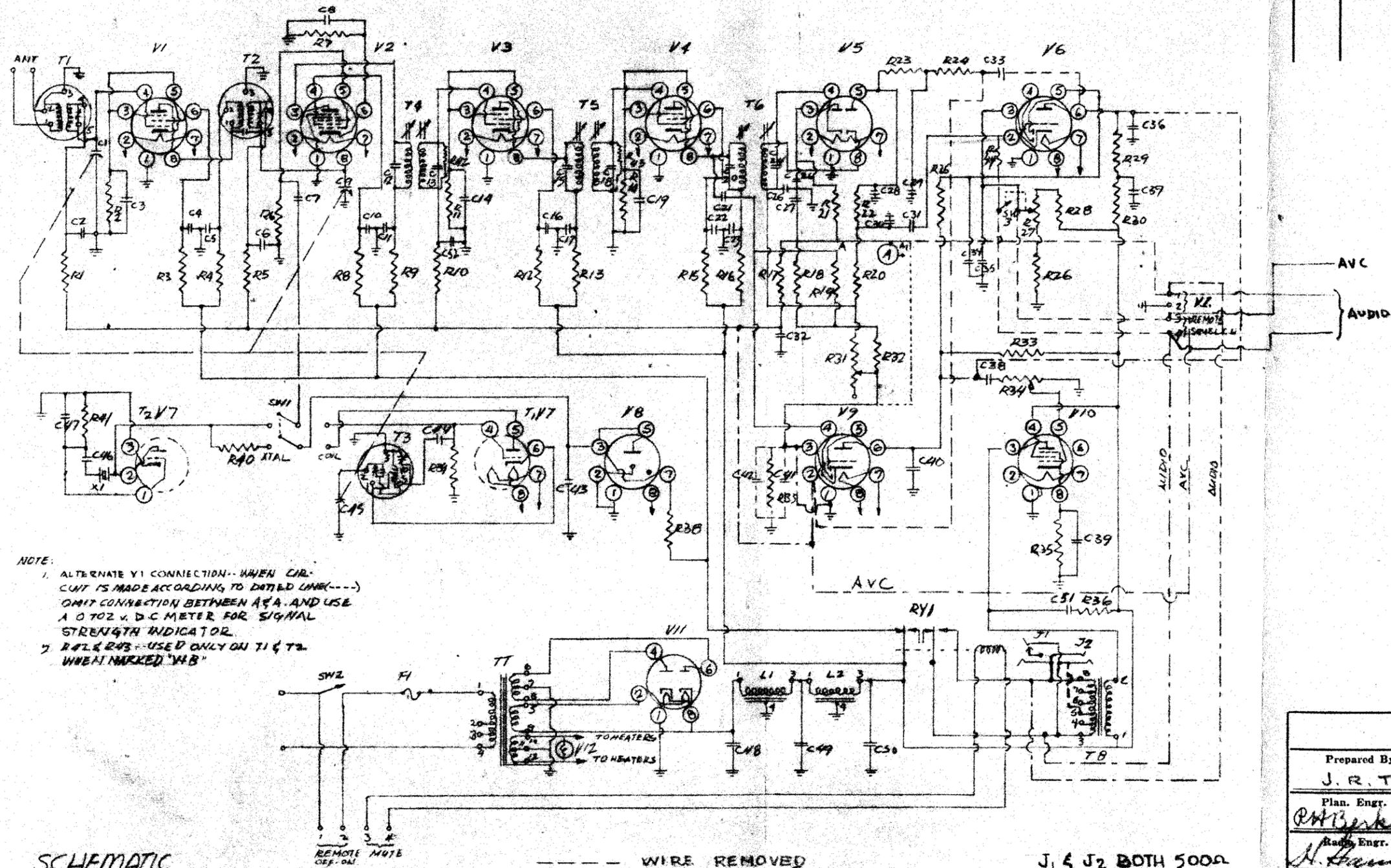
RS 43AA 1061A

Alt. Let.	ALTERATION	Date	In'l



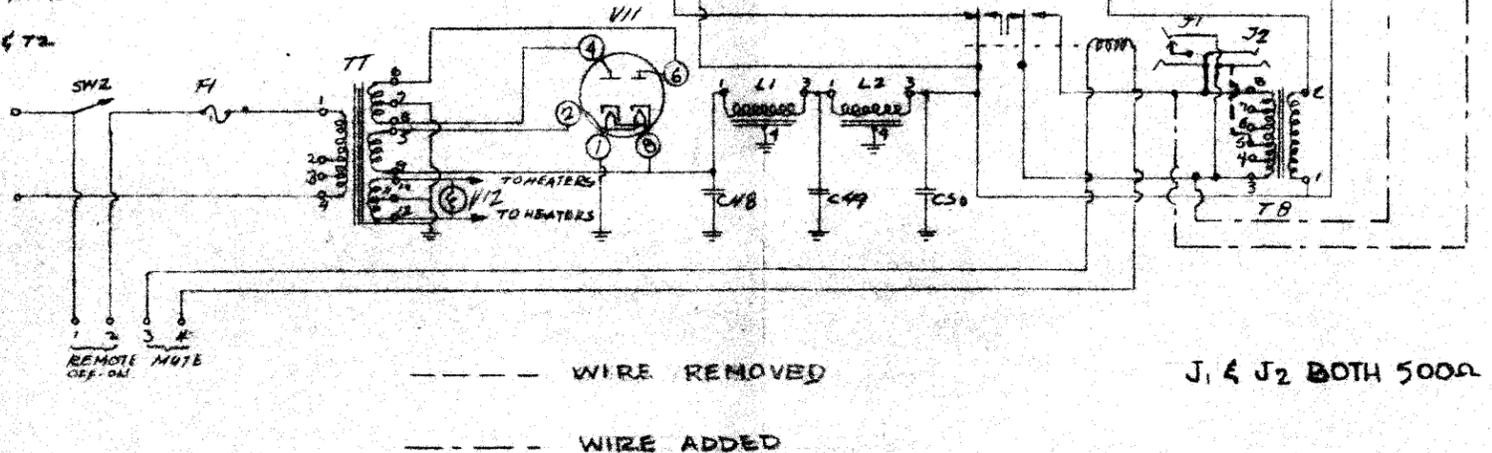
Radio Material Office Puget Sound Navy Yard		
Prepared By <i>Murty</i>	Drawn By R.A.P.	CHECKED BY <i>J.M.P.</i>
Plan. Engr. Shore Sta's. <i>R.M. [Signature]</i>	SUBMITTED: <i>[Signature]</i>	
Radio Engr. Shore Sta's. <i>[Signature]</i>	Engr.'s RMO for Shore Sta's. APPROVED:	
Senior Radio Engr. <i>[Signature]</i>	Comdr., U.S.N. <i>[Signature]</i> Radio Material Officer	
AIRPORT TRAFFIC CONTROL TOWER CRASH FREQ. CONTROL CIRCUIT SIMPLIFIED SCHEMATIC DIAG.		
Scale WIR DIAG.	Date Approved 6-21-45	Sheet of 1 1

Alt. Let.	ALTERATION	Date	In'l



NOTE:  
 1. ALTERNATE V1 CONNECTION--WHEN CIRCUIT IS MADE ACCORDING TO DOTTED LINE(---) OMIT CONNECTION BETWEEN A7A AND USE A 0 TO 2 V. D.C. METER FOR SIGNAL STRENGTH INDICATOR.  
 2. R42 & R43--USED ONLY ON T1 & T2 WHEN MARKED "Y4B"

SCHMATIC DIAGRAM CR3-G



--- WIRE REMOVED  
 --- WIRE ADDED

J1 & J2 BOTH 500Ω

Radio Material Office Puget Sound Navy Yard		
Prepared By J. R. T.	Drawn By E. MANN RTK	CHECKED BY J. M. P.
Plan. Engr. Shore Sta's. <i>R. Berkheimer</i>	SUBMITTED: <i>Willett</i> Lt. (jg), U.S.N.	
Radio Engr. Shore Sta's. <i>N. Brumwell</i>	Asst RMO for Shore Sta's.	
Senior Radio Engr. <i>C. Williams</i>	APPROVED: <i>J. H. Pitt</i> Comdr., U.S.N. Radio Material Officer	
MODEL CR3G RECEIVER, MODIFICATION FOR USE IN TOWER CONTROL CONSOLE		
Scale SCHEMATIC	Date Approved 5/29/45	Sheet of 1 of 1

# MATERIAL LIST

DRAWING NO. RS 437 821

MAIN CONTROL PANEL PSNY Model 130

ITEM NO	AMT REQD	DESCRIPTION	SIZE	MATL	MFR & NUMBER OR FEDL STD STK NO	REMARKS
C1	1	Condenser, Paper Tubular	600 v W.V.		Cornell-Dubilie	
			.05 MFD.		Elec. Corp.	
C2	1	" " "	Same as C1		" "	
C3	1	" " "	" " "		" "	
C4	1	" " "	" " "		" "	
C5	1	" " "	" " "		" "	
C6	1	" " "	" " "		" "	
C7	1	" " "	" " "		" "	
C8	1	" " "	" " "		" "	
K-1	1	Relay,	Type 500		Advance Elec. Co	
			4000 Ohm		" " "	
K-2	1	"	Same as K-1		" " "	
SW1	1	Switch, Lever Key	DD 30 I&NL		Automatic	
			EC RA. Pos		Elec. Co.	
SW2	1	" " "	Same as SW1		" "	
SW3	1	" " "	" " "		" "	
SW4	1	" " "	" " "		" "	
SW5	1	" " "	" " "		" "	
SW6	1	" " "	" " "		" "	
SW7	1	" " "	" " "		" "	
SW8	1	" " "	" " "		" "	

# MATERIAL LIST

MAIN CONTROL PANEL PSNY Model 130

DRAWING NO. BS 437 821

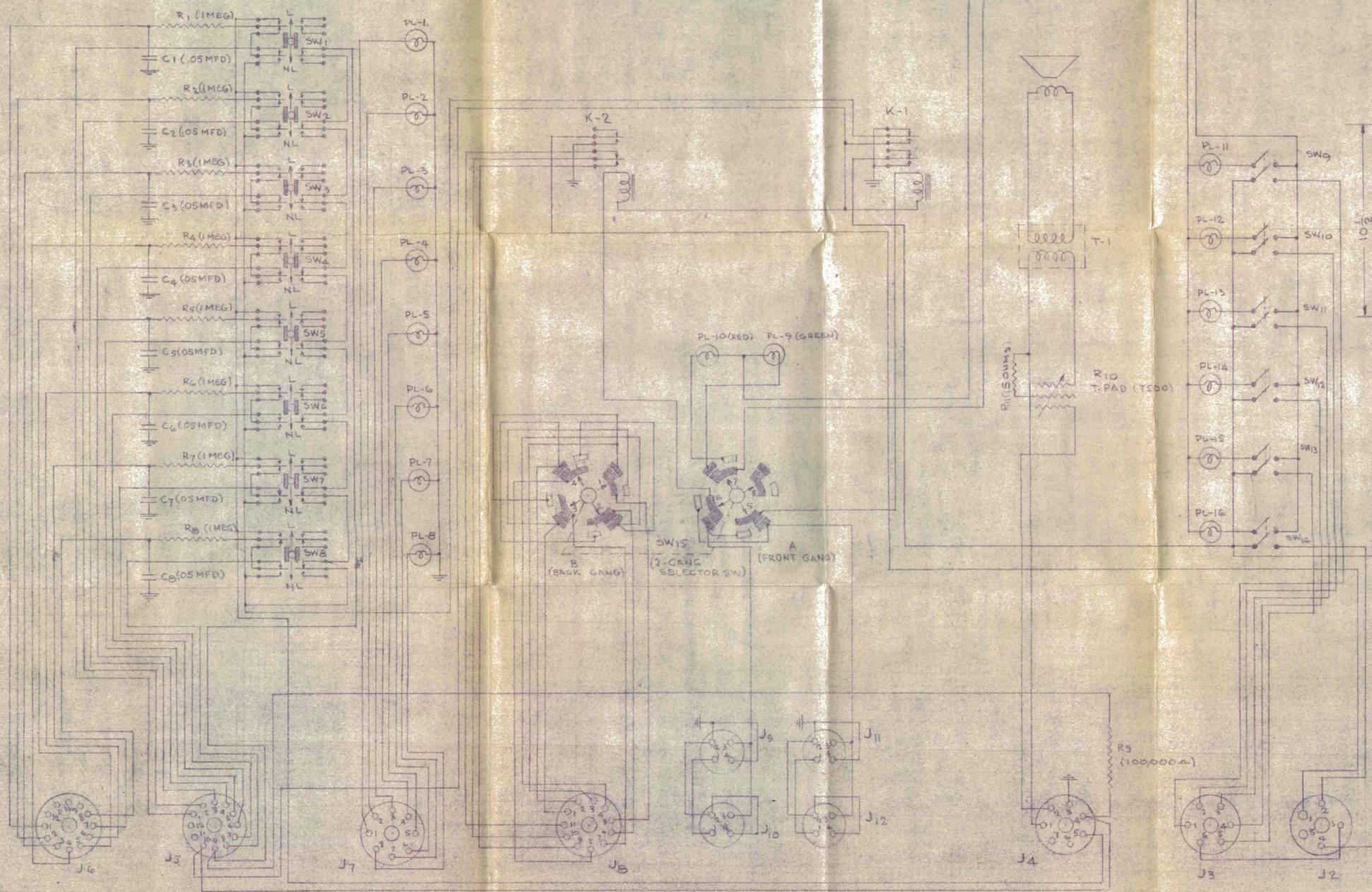
ITEM NO.	AMT REQD	DESCRIPTION	SIZE	MATL	MFR & NUMBER OR FEDL STD STK NO.	REMARKS
SW9	1	Switch, DPST Toggle Red Handle	Type SW-1119		Bud Radio Co.	
SW10	1	" " " " "	" "		" " "	
SW11	1	" " " " "	" "	1	" " "	
SW12	1	" " " " "	" "		" " "	
SW13	1	" " " " "	" "		" " "	
SW14	1	" " " " "	" "		" " "	
SW15	1	Switch, 2-Gang Selector	3-Circuit 2-Gang		P.R. Mallory & Co. Type 1322L	
PL-1	1	Pilot Light Assembly, Red Jewel	Type #275	Jewel	Faceted Drake Mfg. Co.	
PL-2	1	" " " " "	Same as PL-1	"	" " "	
PL-3	1	" " " " "	" "	"	" " "	
PL-4	1	" " " " "	" "	"	" " "	
PL-5	1	" " " " "	" "	"	" " "	
PL-6	1	" " " " "	" "	"	" " "	
PL-7	1	" " " " "	" "	"	" " "	
PL-8	1	" " " " "	" "	"	" " "	
PL-9	1	" " " " Green Jewel	Type #50	"	" " "	
PL-10	1	" " " " Red Jewel	Same as PL-9	"	" " "	
PL-11	1	" " " " " "	" " "	"	" " "	

# MATERIAL LIST

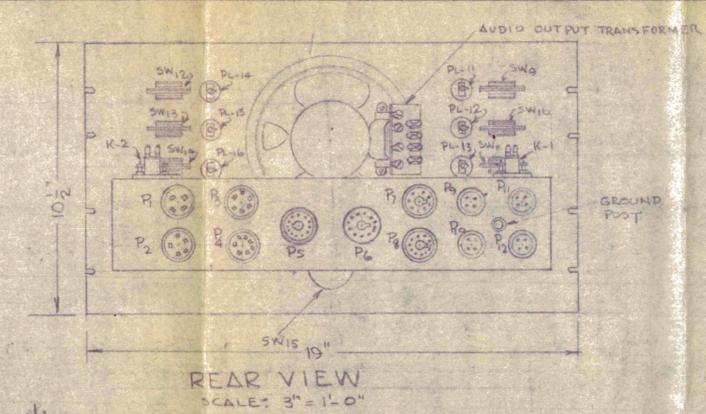
MAIN CONTROL PANEL PSNY Model 130

DRAWING NO. RS 43P 821

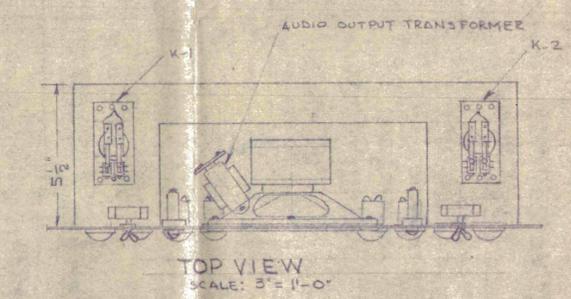
ITEM NO.	AMT REQD	DESCRIPTION	SIZE	MATL	MFR & NUMBER OR FEEL STD. STK NO	REMARKS
PL-12	1	Pilot Light Assembly, Red Jewel	Same as PL-13	Jewel	Parostat Drake Mfg. Co.	
PL-13	1	" " " " " "	" " "	"	" " "	
PL-14	1	" " " " " "	" " "	"	" " "	
PL-15	1	" " " " " "	" " "	"	" " "	
PL-16	1	" " " " " "	" " "	"	" " "	
J1	1	Socket, 4 Contact	Type # 84		American Phenolic Corp.	
J2	1	" 5 "	" # 85		" "	
J3	1	" 6 "	" # 86		" "	
J4	1	" 7 "	" # 87		" "	
J5	1	Connector, 12 Contact Channels	Type #79- #012P		" "	
J6	1	" " " " " "	Type #79- #012M		" "	
J7	1	Socket, 8 Contact	Type #88		" "	
J8	1	" 11 "	" #11		" "	
P1	1	Plug, 4 Prong	" #P4		" "	
P2	1	" 5 "	" #P5		" "	
P3	1	" 6 "	" #P6		" "	
P4	1	" 7 "	" #P7		" "	
P5	1	Connector, 12 Prong Cable	Type #79 #012M		" "	



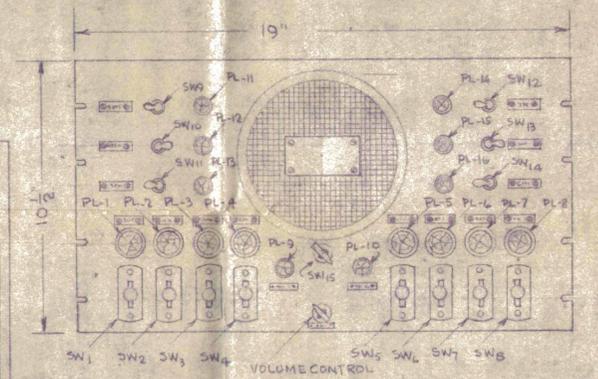
WIRING DIAGRAM



REAR VIEW  
SCALE: 3" = 1'-0"



TOP VIEW  
SCALE: 3" = 1'-0"



FRONT VIEW  
SCALE: 3" = 1'-0"

REFERENCE DRAWINGS		
REF. NO.	TITLE	DWG. NO.
1	RADIO COMMUNICATIONS CONT. SYSTEM SCHEMATIC WIRING DIAGRAM	RS 432 822
2	RADIO COMMUNICATIONS CONT. SYSTEM INTERUNIT CABLING DIAGRAM	RS 434 819
3	RADIO COMMUNICATIONS CONT. SYSTEM CONTROL ROOM ARRANGEMENT	RS 6A 1129

SEE SUPPLEMENTARY MATERIAL LIST

RADIO MATERIAL OFFICE PUGET SOUND NAVY YARD		
DATA PREPARED BY	DRAWN BY	IN CHG. RADIO DRAFTING
	PASCUAL	RR Thompson
PLANNING ENGR. SHORE STA.	SUBMITTED:	
<i>Robert W. ...</i>	<i>H. O. Wilnot</i>	LT. JG., U.S.N.
RADIO ENGR. SHORE STATIONS	ASST. RMG FOR SHORE STATIONS	
<i>Archie ...</i>	APPROVED:	
SENIOR RADIO ENGINEER	<i>H. J. Pitts</i>	COMD'G. U.S.N. RADIO MATERIAL OFFICER
NAS AND NAAS AIRPORT TRAFFIC CONTROL TOWER RADIO COMMUNICATIONS CONTROL SYSTEM MAIN CONTROL PANEL PSNY MODEL 130 WIRING DIAGRAM & EQPT. ARRANGEMENT		
SCALE	DATE APPROVED	SHEET
AS SHOWN	12-11-44	

RS 43F 821A

**UNIT Q RECORDER START RELAY BOX**  
 K-3 STARTS RECORDER FOR TOWER TRANS. AUDIO  
 K-2 STARTS RECORDER FOR CRASH TRANS. AUDIO  
 WHEN OPERATED INDEPENDENTLY  
 K-1 STARTS RECORDER FOR RECEIVED SIGNALS

**UNIT O (RECORDER UNIT)**

ALTERATIONS			
ALT. LET.	DESCRIPTION	DATE	INIT.
B	ADDED RELAY (K-2) TO UNIT O FOR STARTING RECORDER FROM SEARCH FREQUENCY CONTROL PANEL. DELETED SCR 522 EQUIPMENT. CHANGED CONNECTIONS BETWEEN TERM. STRIP NO. 3 OF UNIT O & MAIN TERM. STRIP NO. 1 (T1).	13 FEB '45	R.P.
C	CORRECTED CONNECTIONS BETWEEN UNIT O & T1. CORRECTED PLUG CONNECTIONS ON UNITS E & F.	15 MAY '45	R.P.

**UNITS AT TOWER OPERATOR'S POSITION**

**UNITS IN RECEIVER CONSOLE**

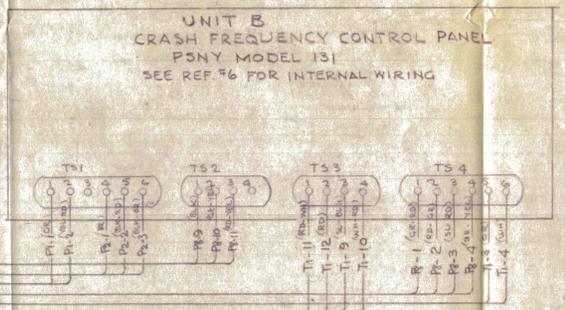
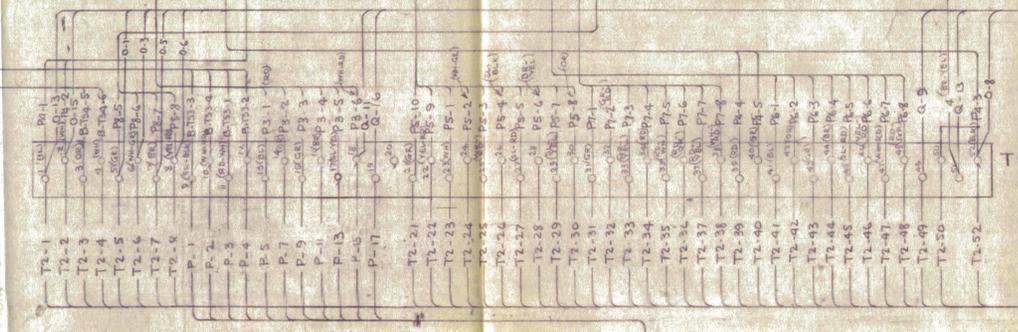
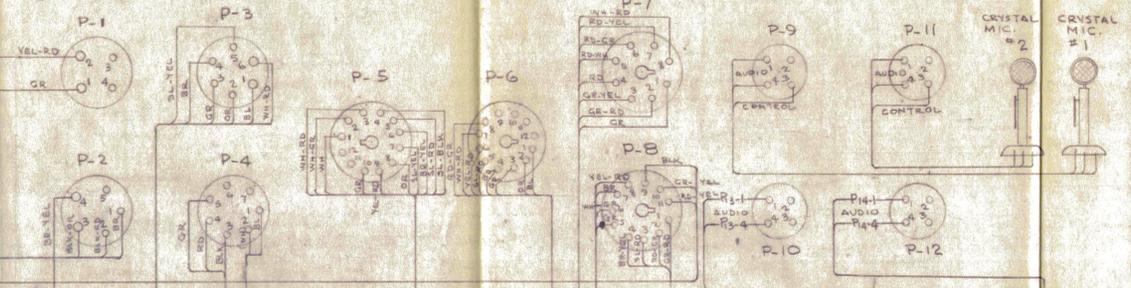
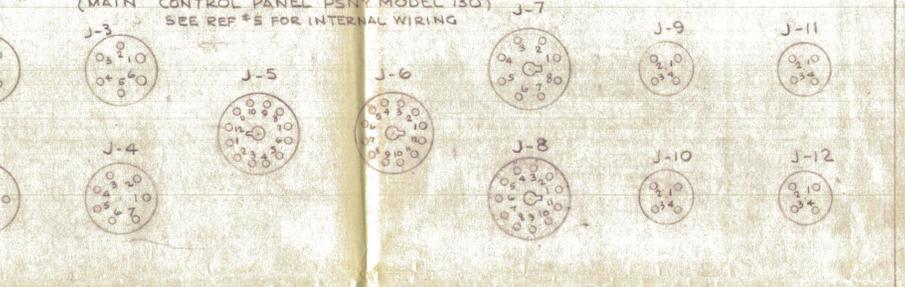
**UNIT A (MAIN CONTROL PANEL PSNY MODEL 130)**  
 SEE REF #5 FOR INTERNAL WIRING

**UNIT C (ELECTRONIC MIXER & SUPPRESSOR)**  
 PSNY MODEL 128  
 SEE REF #2 FOR INTERNAL WIRING

**UNIT D (C.O.D. RELAY AMPLIFIER)**  
 PSNY MODEL 125  
 SEE REF #3 FOR INTERNAL WIRING

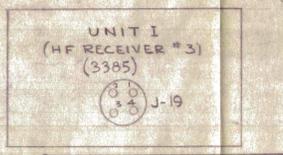
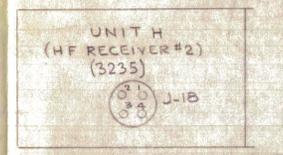
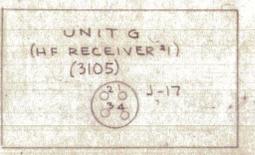
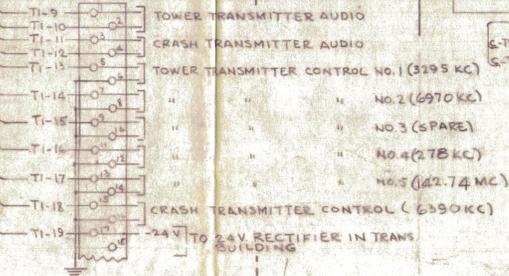
**UNIT E (LIMITING AMPLIFIER #1)**  
 PSNY MODEL NO. 1  
 SEE REF #4 FOR INTERNAL WIRING

**UNIT F (LIMITING AMPLIFIER #2)**  
 PSNY MODEL NO. 1  
 SEE REF #4 FOR INTERNAL WIRING



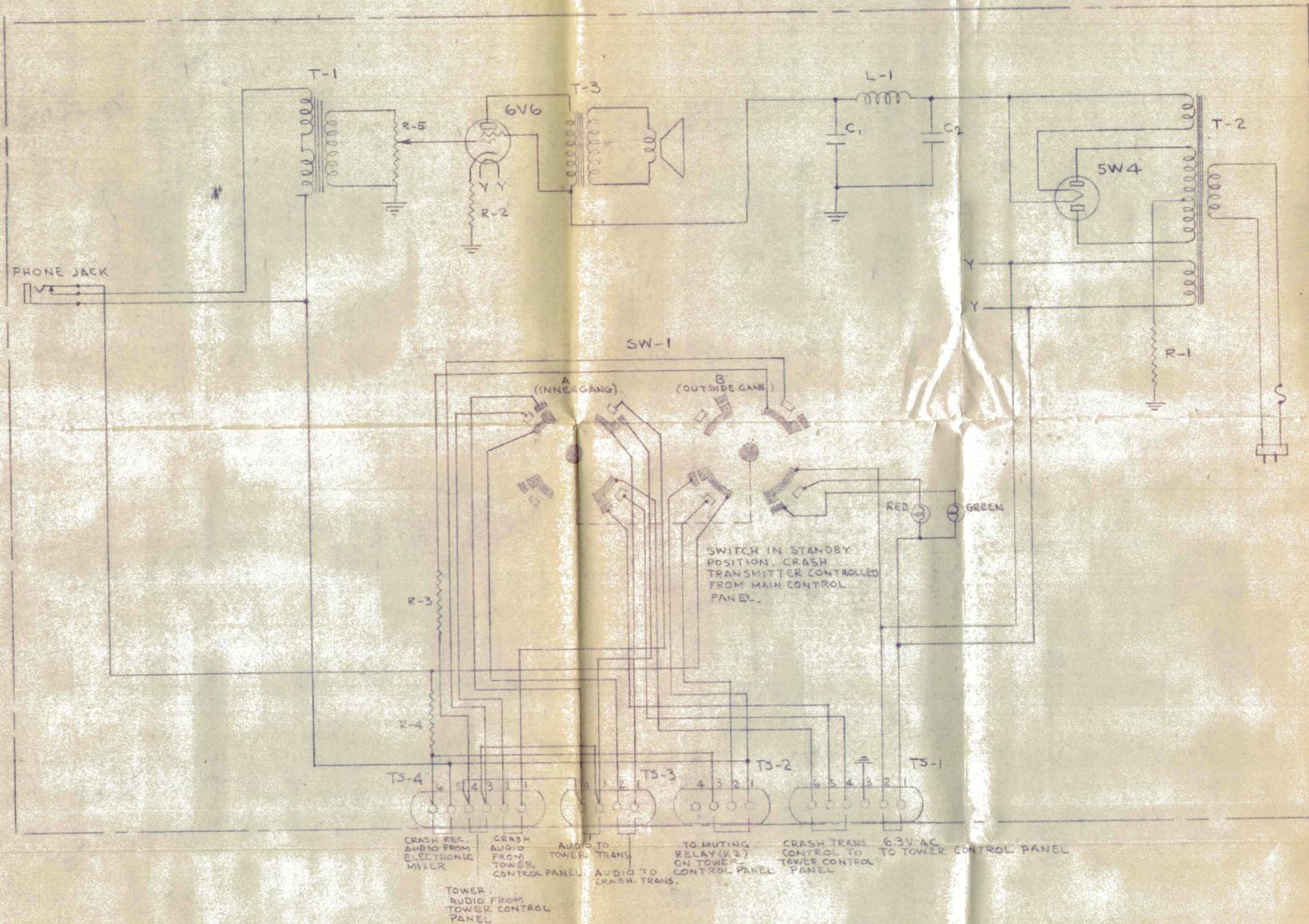
**COLOR ABBREVIATIONS**  
 BL = BLUE OR = ORANGE  
 BK = BLACK RD = RED  
 BR = BROWN SL = SLATE  
 GR = GREEN WH = WHITE  
 GRY = GREY YEL = YELLOW

**UNIT P (TEL. CABINET)**



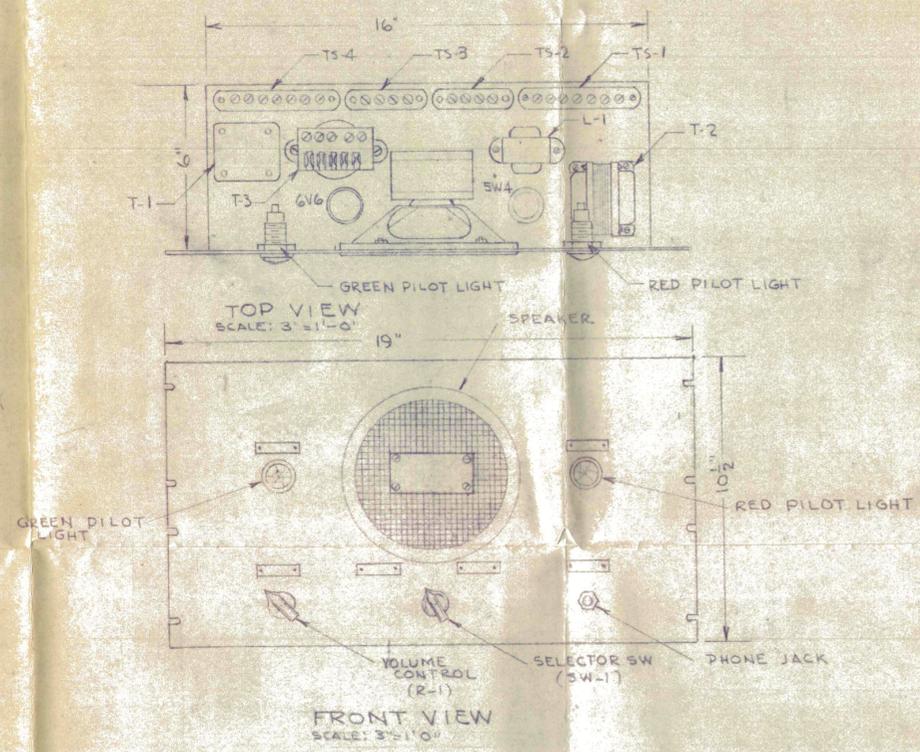
NO.	DESCRIPTION	REF. DRAWINGS
8	SCR-522A TRANS.-REC. INSTALLATION DIAGRAM	RS 43F 802
1	SCHEMATIC WIRING DIAGRAM	RS 432 822
2	ELECTRONIC MIXER WIRING DIAGRAM	RS 43AA 823
3	C.O.D. RELAY AMPLIFIER WIRING DIAGRAM	RS 43AA 824
4	LIMITING AMPLIFIER WIRING DIAGRAM	RS 43AA 745
5	CONTROL PANEL WIRING DIAGRAM	RS 43F 821
6	CRASH FREQ CONTROL PANEL WIRING DIAGRAM	RS 43F 820
7	EQUIPMENT LAYOUT	RS 6A 129

RADIO MATERIAL OFFICE PUGET SOUND NAVY YARD		
DATA PREPARED BY <i>R.P. Scudder</i>	DRAWN BY <i>R.P. Scudder</i>	IN CHG. RADIO DRAFTING <i>R.P. Scudder</i>
PLANNING ENGR. SHORE STA. <i>R.P. Scudder</i>	SUBMITTED: <i>R.P. Scudder</i>	ASST. RMO FOR SHORE STATIONS <i>R.P. Scudder</i>
RADIO ENGR. SHORE STATIONS <i>R.P. Scudder</i>	APPROVED: <i>R.P. Scudder</i>	SENIOR RADIO ENGINEER <i>R.P. Scudder</i>
NAS & NAAS AIRPORT TRAFFIC CONTROL TOWER RADIO COMMUNICATIONS CONTROL SYSTEM INTERUNIT CABLING DIAGRAM		
SCALE WIR. DIAG.	DATE APPROVED 12-11-44	SHEET



WIRING DIAGRAM OF PANEL

T-1	GH-1 AUDIO INPUT TRANSFORMER
T-2	C69 POWER TRANSFORMER
T-3	JENSEN ZX-1000 AUDIO OUTPUT TRANSFORMER
C <sub>1</sub>	8 MFD. 450V. ELECTROLYTIC CONDENSER
C <sub>2</sub>	8 MFD. 450V. ELECTROLYTIC CONDENSER
R-1	1000-Ω 10W. RESISTOR
R-2	400-Ω 10W. RESISTOR
R-3	500-Ω 1W. RESISTOR
R-4	500-Ω 1W. RESISTOR
R-5	1 MEG. ½W. POTENTIOMETER
SW-1	2-GANG 2-POSITION SELECTOR SWITCH
L-1	D-22A FILTER CHOKE

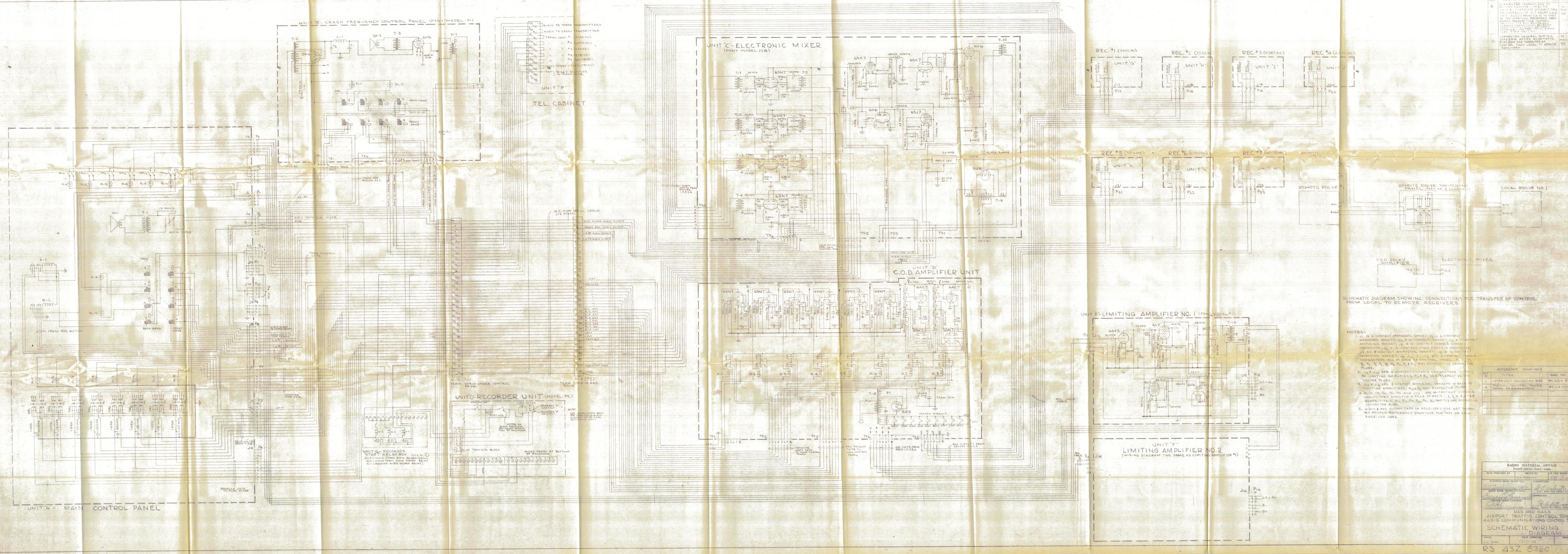


REFERENCE DRAWINGS		
REF. NO.	TITLE	DWG. NO.
1	RADIO COMMUNICATIONS CONTROL SYSTEM - SCHEMATIC WIR. DIAG.	RS 452 827
2	RADIO COMMUNICATIONS CONTROL SYSTEM - INTERUNIT CABLING DIAG.	RS 43H 819
3	RADIO COMMUNICATIONS CONTROL SYSTEM - CONTROL ROOM ARRANGEMENT	RS 6A 1129

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DATA PREPARED BY	DRAWN BY	IN CHG. RADIO DRAFTING
	PASCUAL	Thompson
PLANNING ENGR. SHORE STA.	SUBMITTED:	
<i>R. B. Bickelmeier</i>	<i>H. C. Wilcox</i> LT. JG., U.S.N.	
RADIO ENGR. SHORE STATIONS	ASST. RMO FOR SHORE STATIONS	
<i>A. J. ...</i>	APPROVED:	
SENIOR RADIO ENGINEER	<i>H. L. Potts</i> COMD'R., U.S.N.	
<i>C. C. ...</i>	RADIO MATERIAL OFFICER	
NAS & NAAS AIRPORT TRAFFIC CONTROL TOWER RADIO COMMUNICATIONS CONTROL SYSTEM CRASH FREQUENCY CONTROL PANEL PSNY MODEL NO. 131 SCHEMATIC WIRING DIAG. & PHYSICAL LAYOUT		
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ALTERATIONS

NO.	DESCRIPTION	DATE	INITIALS
1	SELECTED CHANNELS TO BE... (PARTIAL)	12-11-44	
2	UNIT 1... (PARTIAL)	12-11-44	
3	UNIT 2... (PARTIAL)	12-11-44	
4	UNIT 3... (PARTIAL)	12-11-44	
5	UNIT 4... (PARTIAL)	12-11-44	
6	UNIT 5... (PARTIAL)	12-11-44	
7	UNIT 6... (PARTIAL)	12-11-44	
8	UNIT 7... (PARTIAL)	12-11-44	
9	UNIT 8... (PARTIAL)	12-11-44	
10	UNIT 9... (PARTIAL)	12-11-44	
11	UNIT 10... (PARTIAL)	12-11-44	
12	UNIT 11... (PARTIAL)	12-11-44	
13	UNIT 12... (PARTIAL)	12-11-44	
14	UNIT 13... (PARTIAL)	12-11-44	
15	UNIT 14... (PARTIAL)	12-11-44	
16	UNIT 15... (PARTIAL)	12-11-44	
17	UNIT 16... (PARTIAL)	12-11-44	
18	UNIT 17... (PARTIAL)	12-11-44	
19	UNIT 18... (PARTIAL)	12-11-44	
20	UNIT 19... (PARTIAL)	12-11-44	
21	UNIT 20... (PARTIAL)	12-11-44	

SCHEMATIC DIAGRAM SHOWING CONNECTIONS FOR TRANSFER OF CONTROL FROM LOCAL TO REMOTE RECEIVERS.

- NOTES:
- J1 is a 4-CONTACT AMPHENOL SOCKET; J2, A, B-CONTACT AMPHENOL SOCKET; J3, A, B-CONTACT SOCKET; J4, A, B-CONTACT AMPHENOL SOCKET; J5, A, B-CONTACT AMPHENOL SOCKET; J6, A, B-CONTACT AMPHENOL SOCKET; J7, A, B-CONTACT AMPHENOL SOCKET; J8, B-CONTACT AMPHENOL SOCKET; J9, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22, J23, J24, J25, J26, J27, J28, J29, J30, J31, J32, J33, J34, J35, J36, J37, J38, J39, J40, J41, J42, J43, J44, J45, J46, J47, J48, J49, J50, J51, J52, J53, J54, J55, J56, J57, J58, J59, J60, J61, J62, J63, J64, J65, J66, J67, J68, J69, J70, J71, J72, J73, J74, J75, J76, J77, J78, J79, J80, J81, J82, J83, J84, J85, J86, J87, J88, J89, J90, J91, J92, J93, J94, J95, J96, J97, J98, J99, J100, J101, J102, J103, J104, J105, J106, J107, J108, J109, J110, J111, J112, J113, J114, J115, J116, J117, J118, J119, J120, J121, J122, J123, J124, J125, J126, J127, J128, J129, J130, J131, J132, J133, J134, J135, J136, J137, J138, J139, J140, J141, J142, J143, J144, J145, J146, 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