

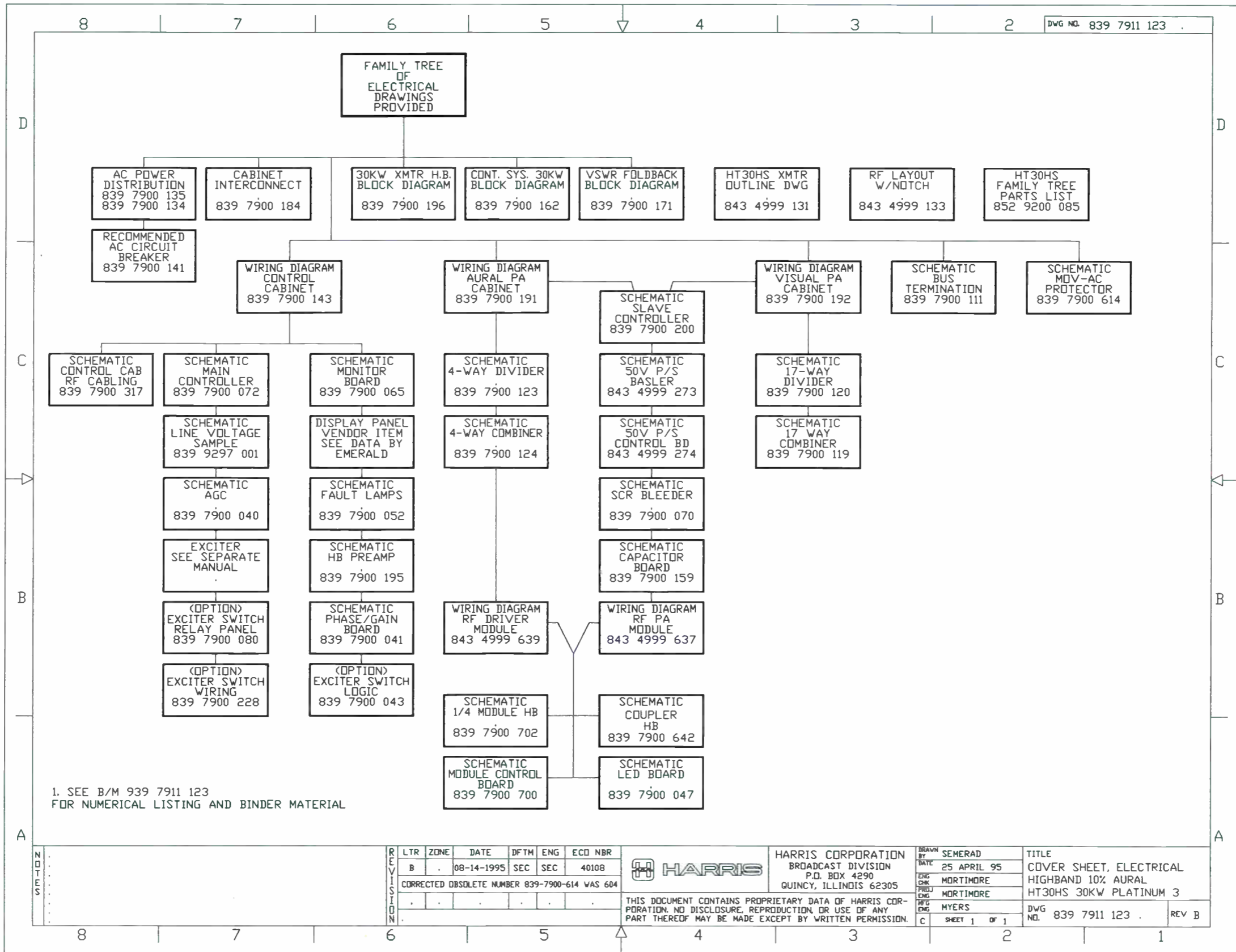
HARRIS

Broadcast Communications Division 3200 Wisnann Lane, Quincy, Illinois USA 62301

**PLATINUM TV
TRAINING ONLY
917-2178-193**

**DWG. REV. D
917-2178-194**

S. FORD



NOTES

REV	DATE	BY	CHKD	ENG	ECD NBR
B	08-14-1995	SEC	SEC		40108
CORRECTED OBSOLETE NUMBER 839-7900-614 WAS 604					

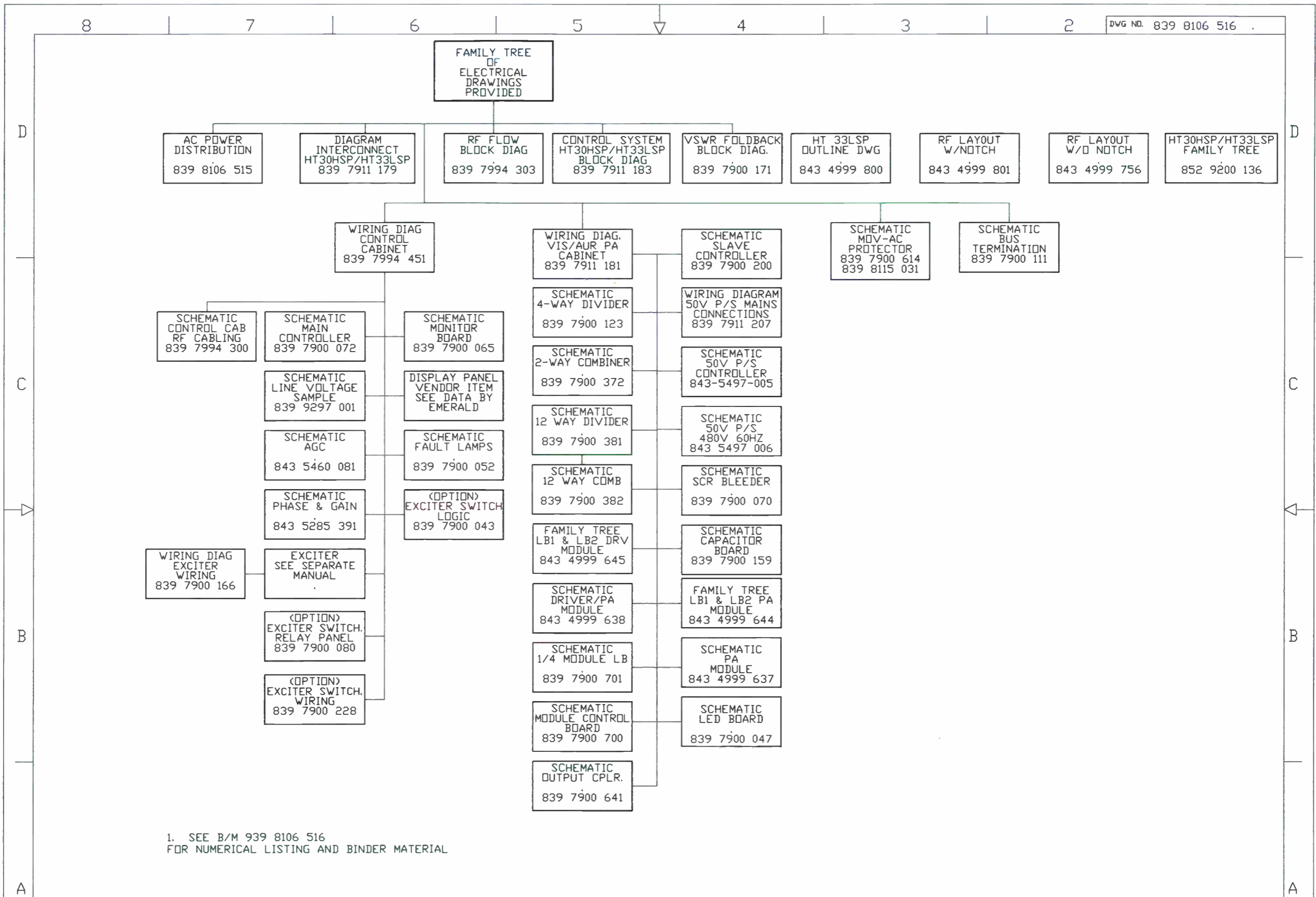
HARRIS
HARRIS CORPORATION
BROADCAST DIVISION
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY	SEMERAD
DATE	25 APRIL 95
ENG	MORTIMORE
CHKD	MORTIMORE
ENG	MYERS
TRG	
ENG	

TITLE	COVER SHEET, ELECTRICAL HIGHBAND 10% AURAL HT30HS 30KW PLATINUM 3
DWG NO.	839 7911 123
REV	B

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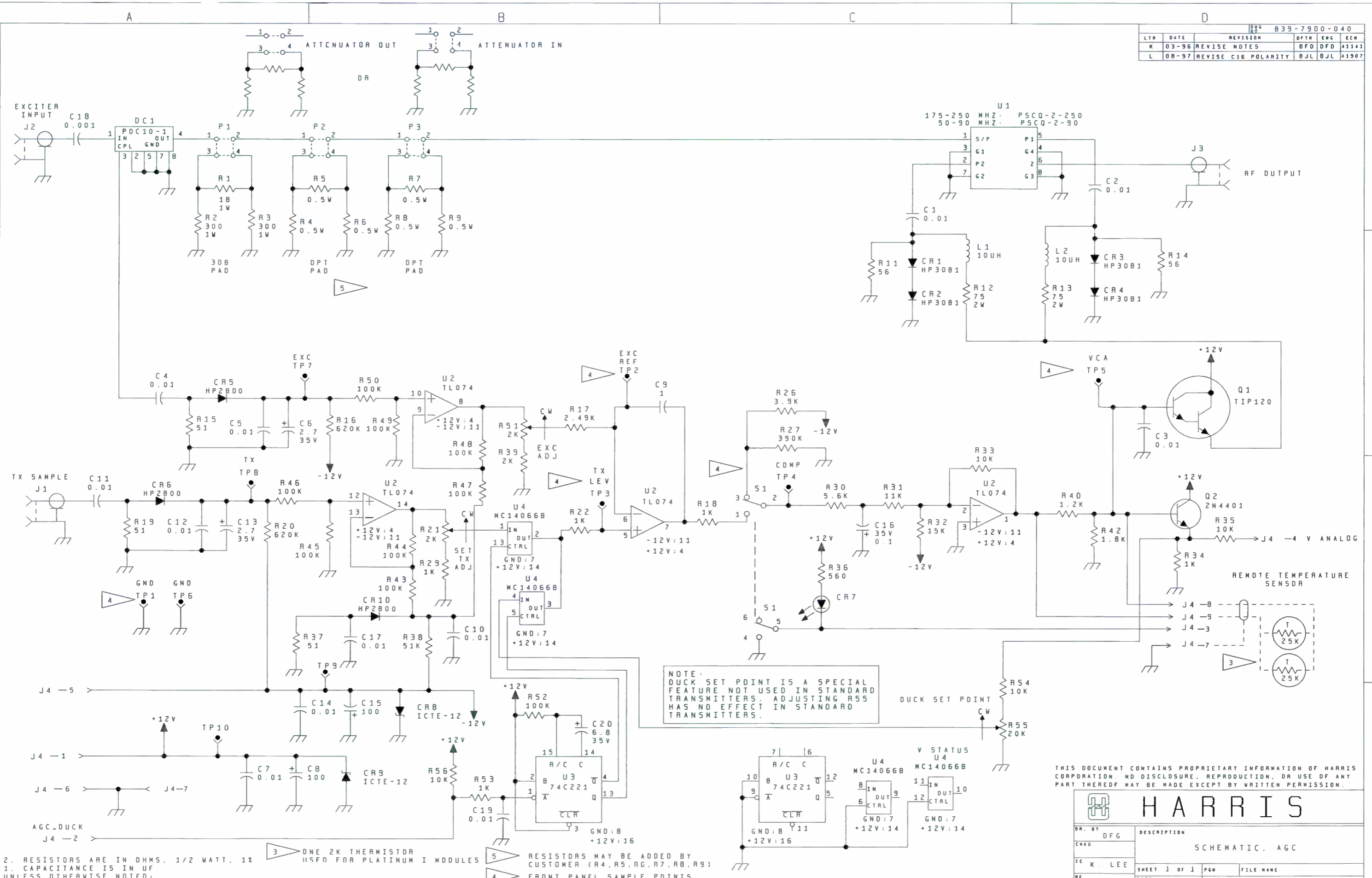
SHEET 1 OF 1



1. SEE B/M 939 8106 516 FOR NUMERICAL LISTING AND BINDER MATERIAL

NOTES	REVISION						<p>HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305</p> <p>THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.</p>	DRAWN BY C NEAL DATE 11 MAY 00 ENG CHK C NEAL PROJ ENG C NEAL MFG ENG T O'NEAL C	TITLE COVER SHEET, ELECTRICAL LOWBAND HT 33LSP W/PLATIUM III MOD	
	LTR	ZONE	DATE	DFTM	ENG	ECO NBR		DWG NO. 839 8106 516 . REV A		
	A	.	5/00	.	.	NEW		SHEET 1 OF 1		
		

REV# 839-7900-040	
LTR	DATE
K	03-96
L	08-97
REVISION	REVISE NDTES
OFTH	DFD
ECW	41141
REVISE C16 POLARITY	BJL BJJ
	41907



2. RESISTORS ARE IN OHMS. 1/2 WATT. 1%
 1. CAPACITANCE IS IN UF
 UNLESS OTHERWISE NOTED.

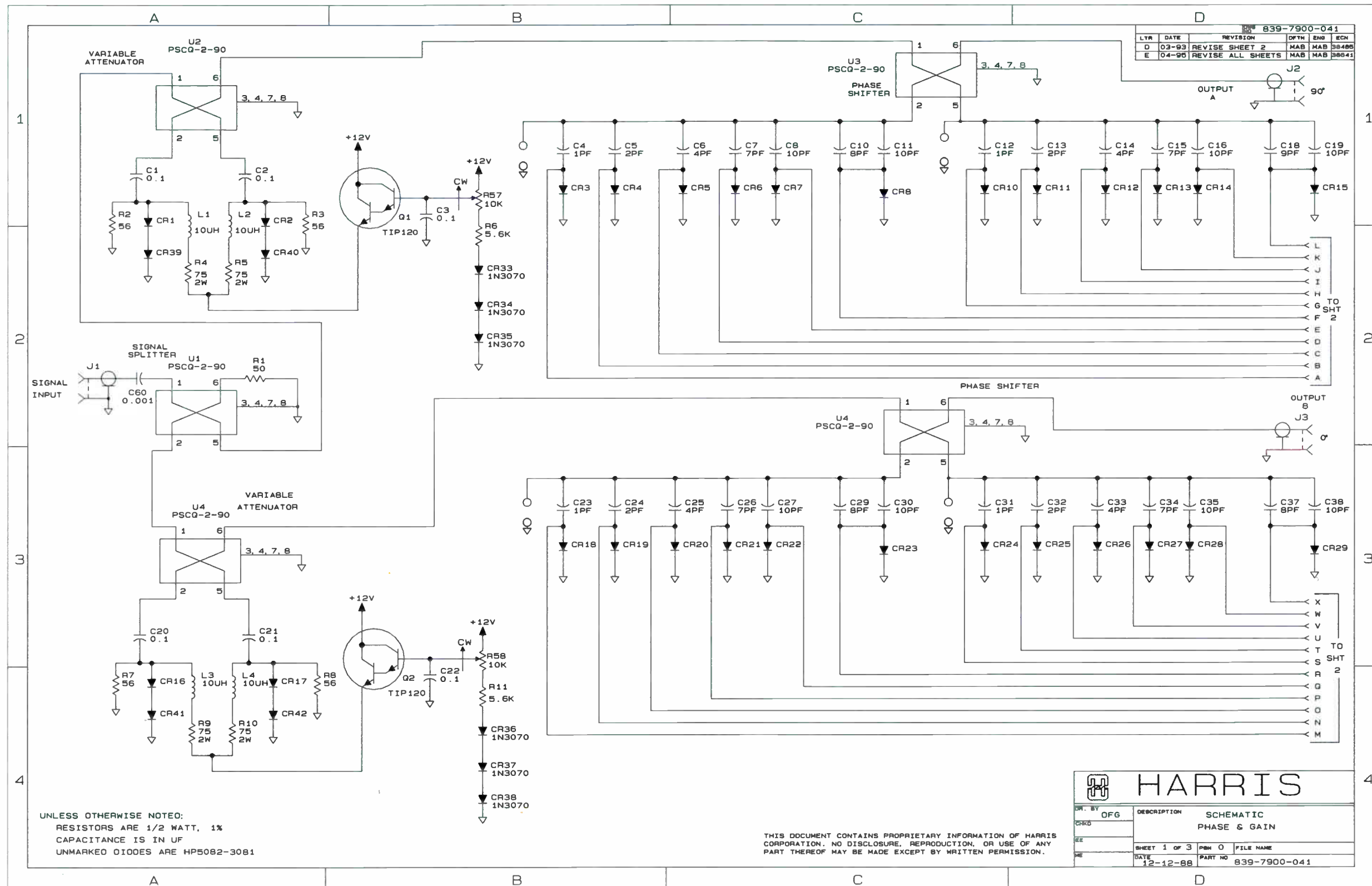
3 ONE 2K THERMISTOR USED FOR PLATINUM I MODULES

5 RESISTORS MAY BE ADDED BY CUSTOMER (R4, R5, R6, R7, R8, R9)
 4 FRONT PANEL SAMPLE POINTS

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HARRIS

DR. BY	DFG	DESCRIPTION	SCHEMATIC, AGC	
CHKD				
EE	K. LEE	SHEET 1 OF 1	PGW	FILE NAME
RE		DATE 11-8-89	PART NO	839-7900-040

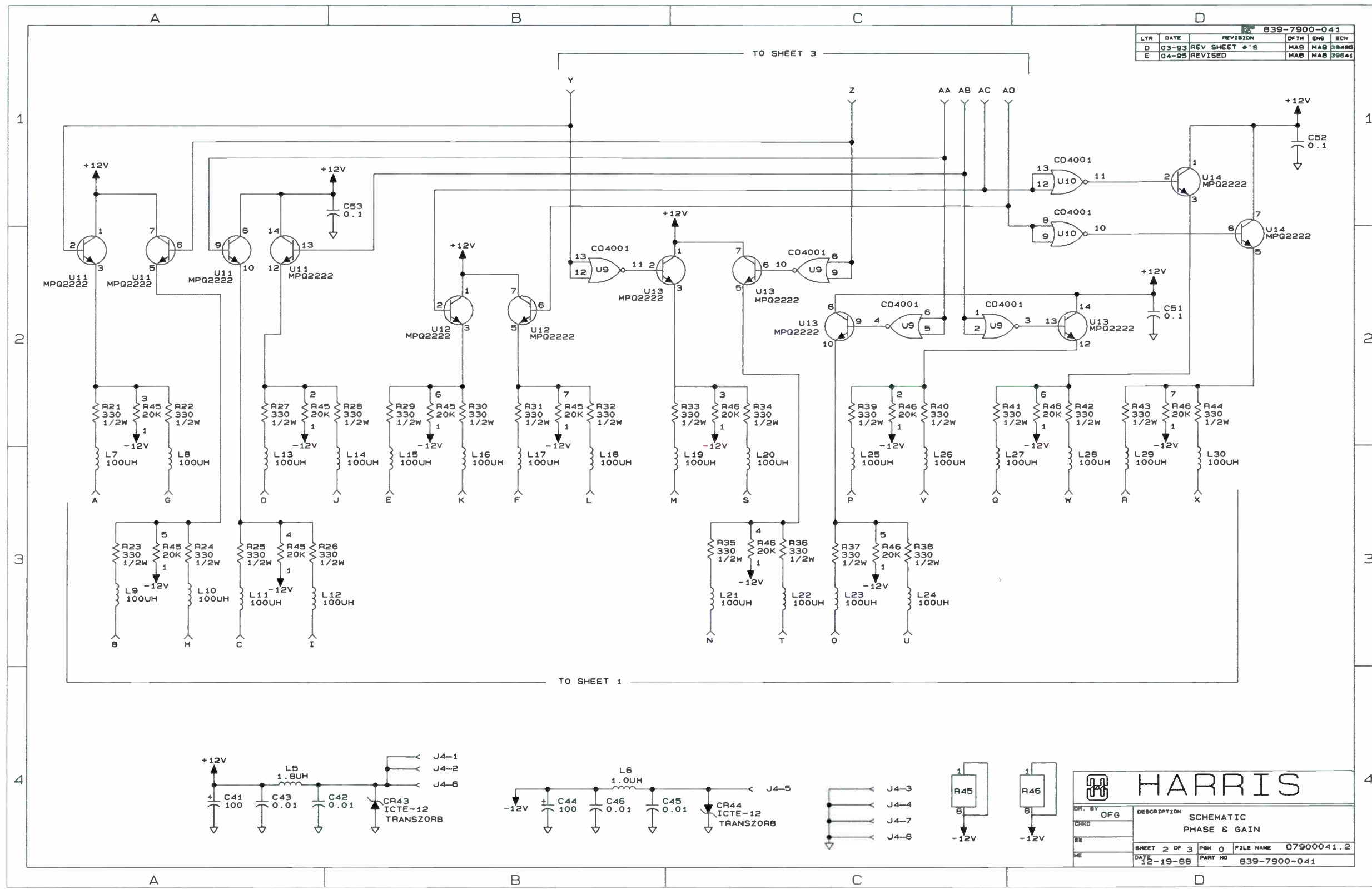


UNLESS OTHERWISE NOTED:
 RESISTORS ARE 1/2 WATT, 1%
 CAPACITANCE IS IN UF
 UNMARKED DIODES ARE HP5082-3081

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		DESCRIPTION	
		SCHEMATIC PHASE & GAIN	
DR BY	OFG	SHEET 1 OF 3	PRN 0
CHKD		DATE	FILE NAME
DES		12-12-88	PART NO 839-7900-041

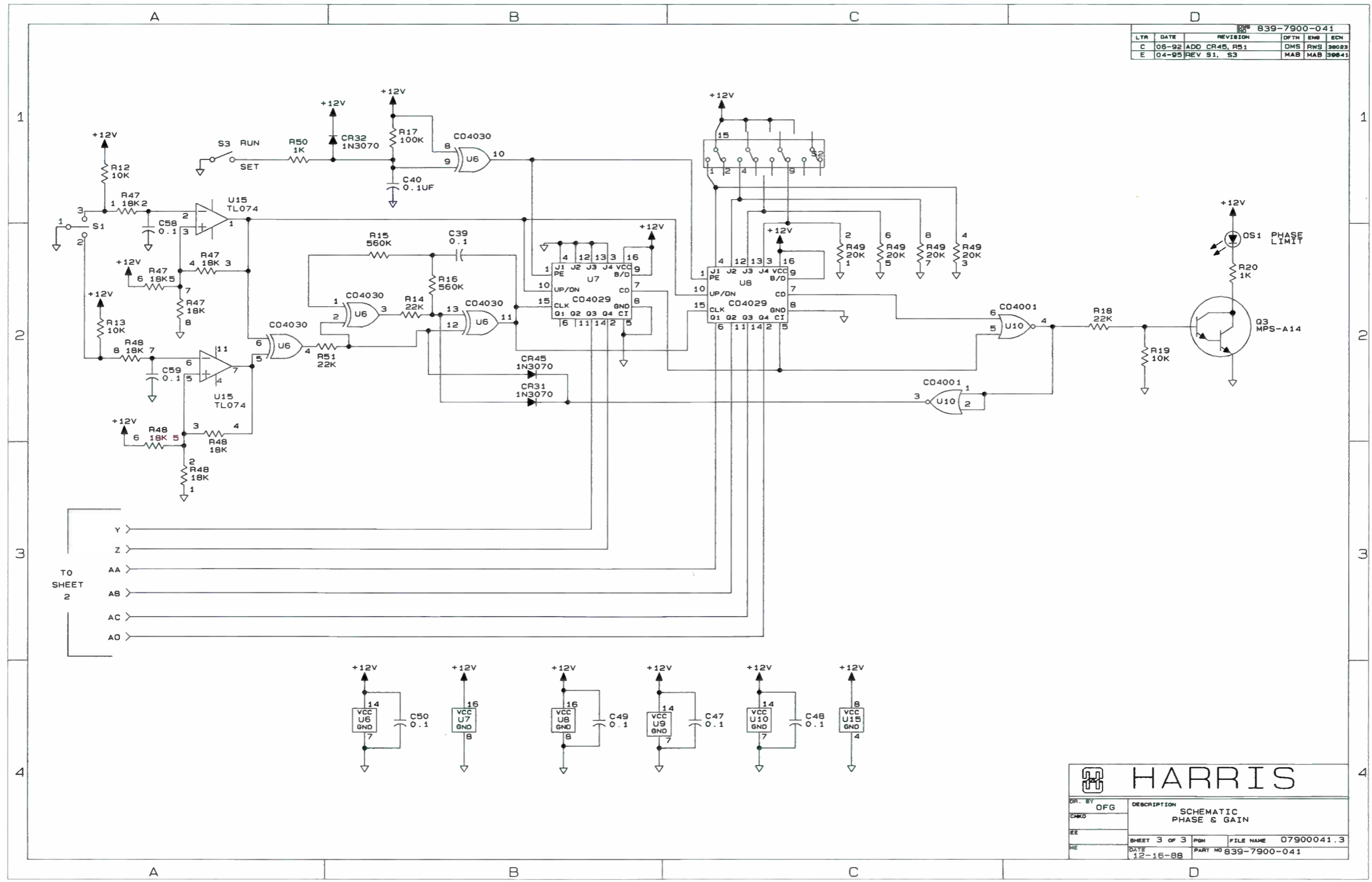
839-7900-041			
LTR	DATE	REVISION	ECH
D	03-93	REV SHEET #'S	MAB MAB 38488
E	04-95	REVISED	MAB MAB 38541



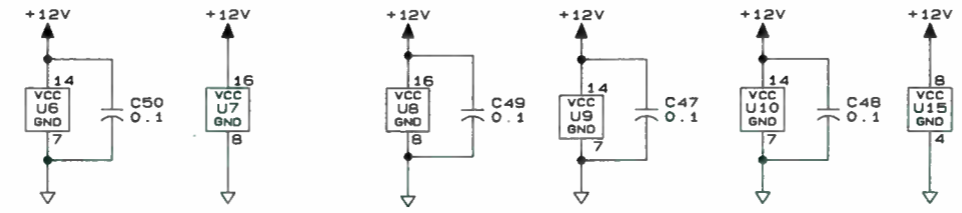
HARRIS

DR. BY	OFG	DESCRIPTION	SCHMATIC
CHKD			PHASE & GAIN
EE		SHEET 2 OF 3	PGH 0 FILE NAME 07900041.2
DATE	12-19-88	PART NO	839-7900-041

LTR	DATE	REVISION	DFTH	ENR	ECN
C	06-92	ADD CR45, R51	DMS	RWS	38023
E	04-95	REV S1, S3	MAB	MAB	39641

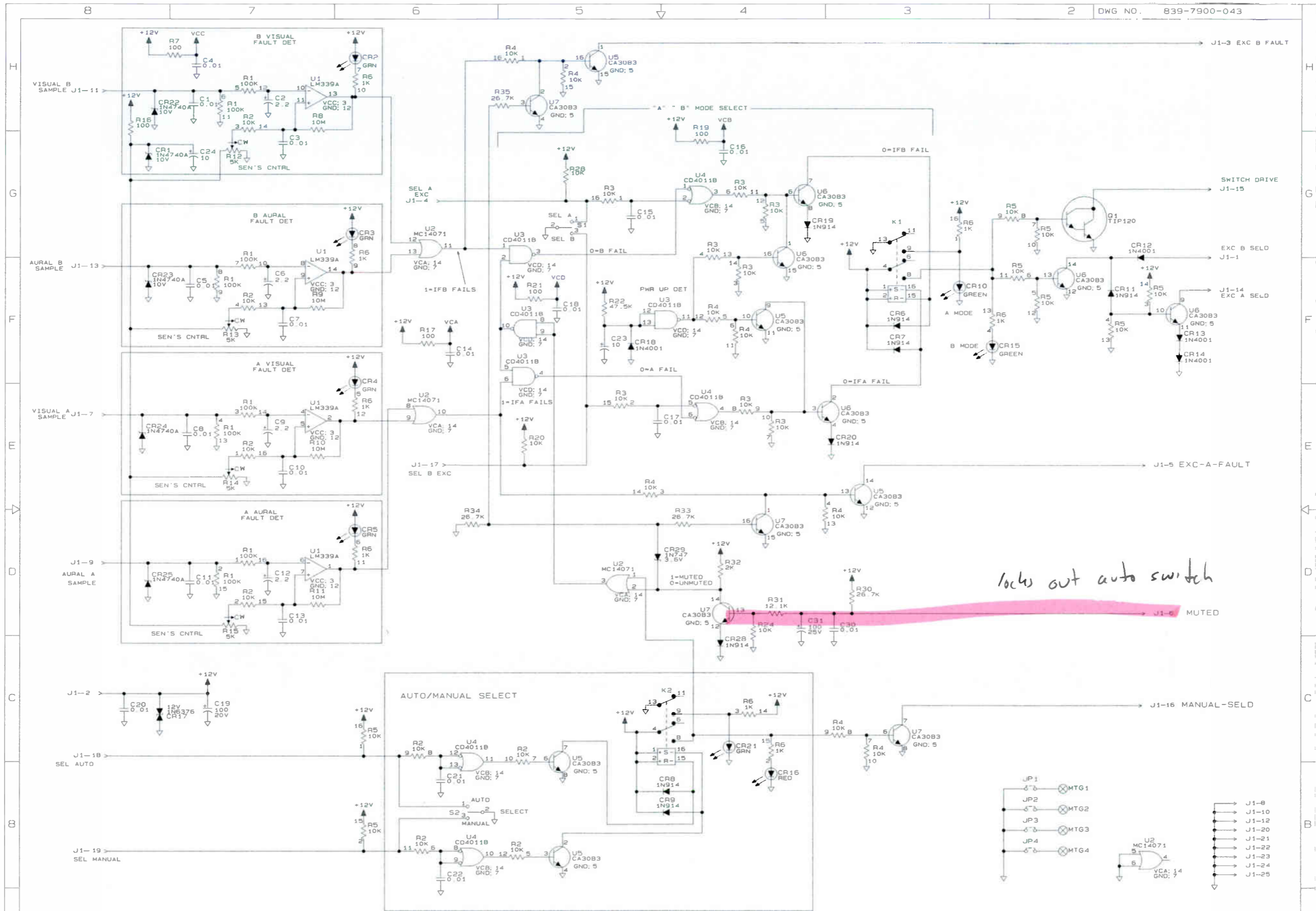


TO SHEET 2
 Y
 Z
 AA
 AB
 AC
 AD



HARRIS

DR. BY	OFG	DESCRIPTION	SCHEMATIC PHASE & GAIN		
CHKD					
EE		SHEET 3 OF 3	PGM	FILE NAME	07900041.3
REV		DATE	12-16-88	PART NO	839-7900-041



locks out auto switch

UNLESS OTHERWISE NOTED:
 1. ALL RESISTORS ARE 1/2 WATT, 1%.
 2. RESISTANCE IN OHMS.
 3. CAPACITANCE IN UF.
 4. INDUCTANCE IN UH.

5. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.
 6. SHEET NUMBER ZONE [2/A1] CONTINUATION SYMBOL

REV	DATE	DFTM	ENG	ECO NBR
D	5-9-97	DFD	BAR	39922

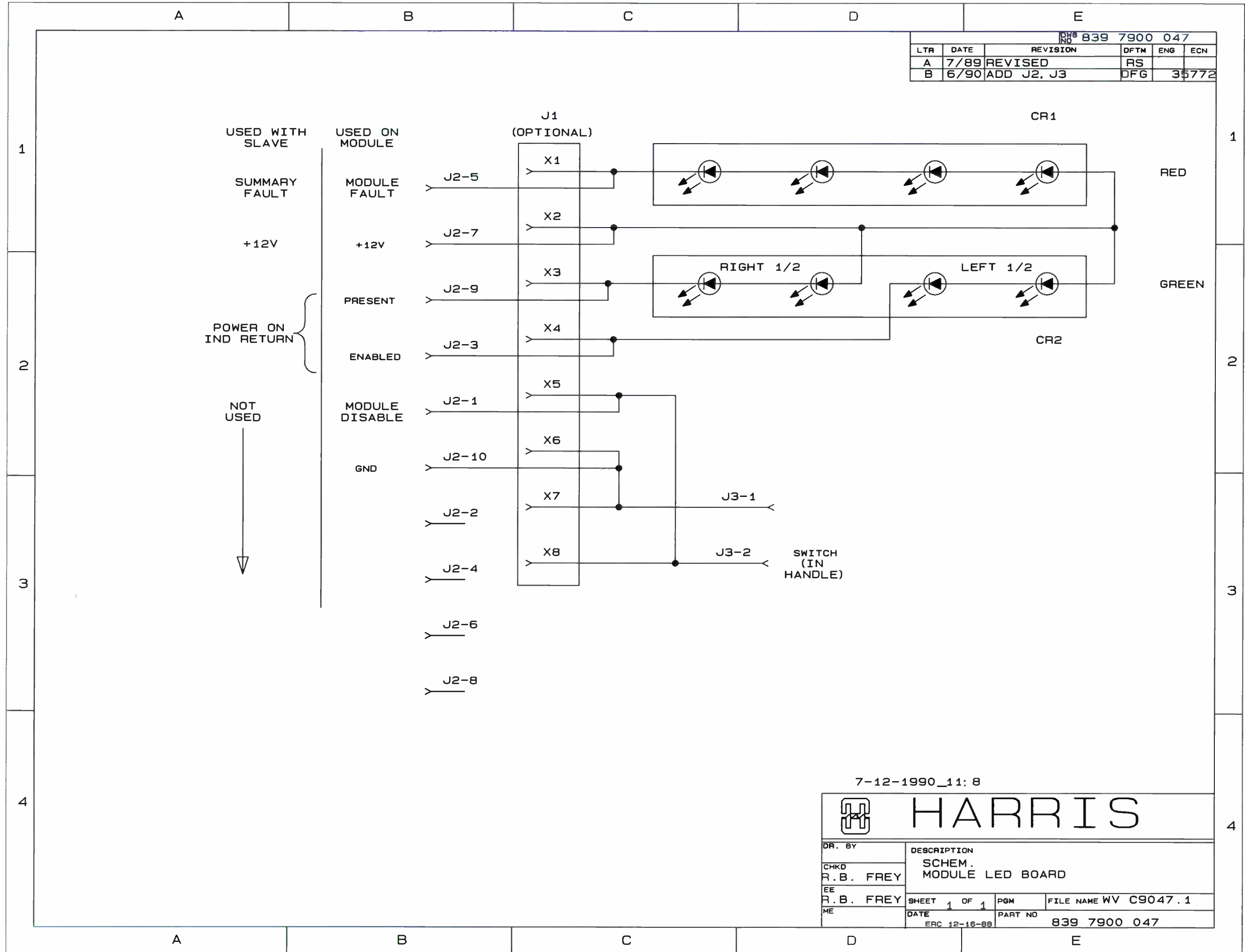
REDRAW IN WORKVIEW

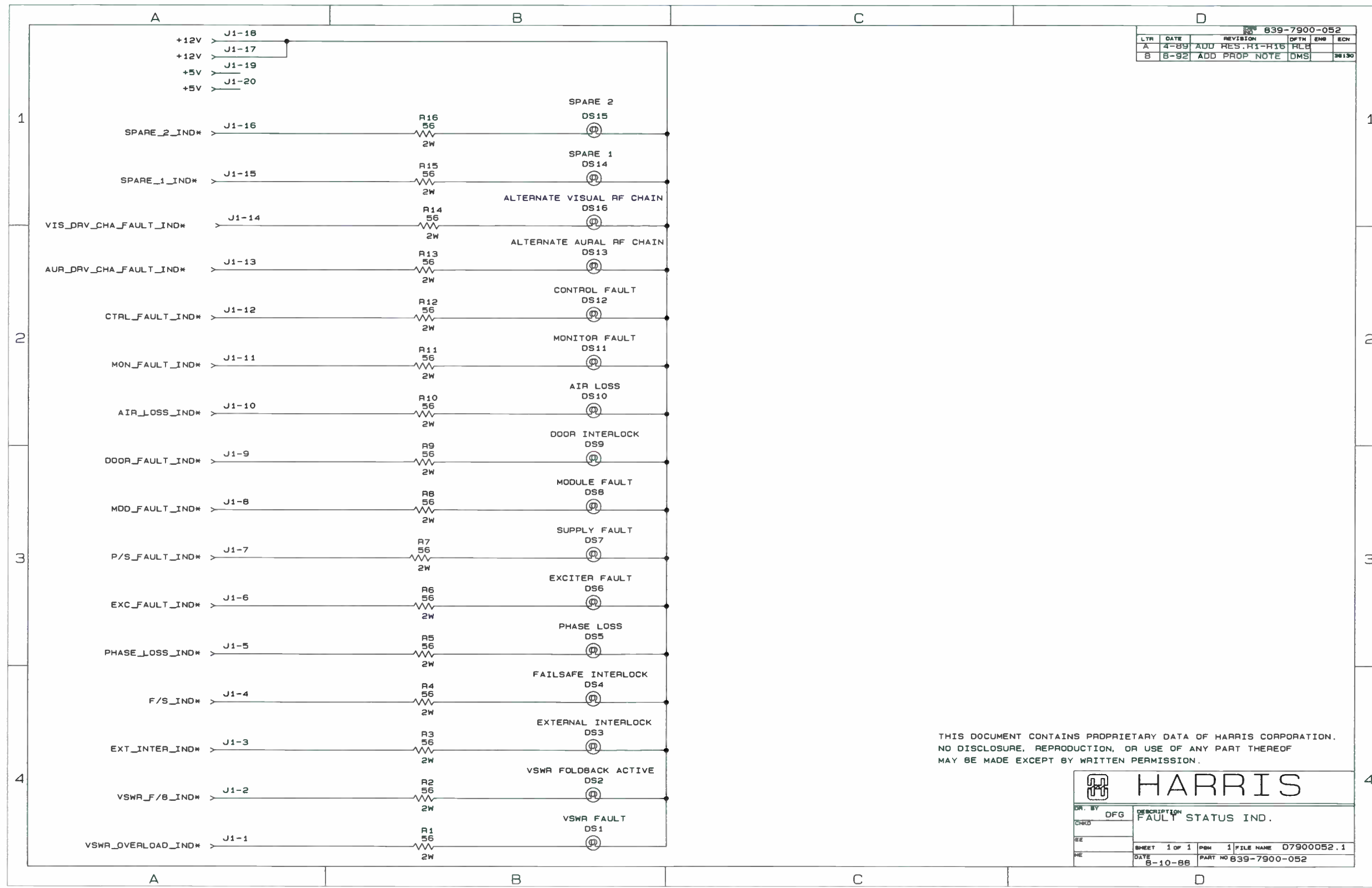


HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	DAVIDSDN	TITLE	SCH. EXCITER SWITCHER LOGIC
DATE	5-9-97	DWG NO.	839-7900-043
ENG CHK	BEEVER	REV D	
PROJ ENG	ROBERTSON		
MFG ENG			

LTR		DATE	REVISION	DFTM	ENG	ECN
A		7/89	REVISED	RS		
B		6/90	ADD J2, J3	DFG	35772	



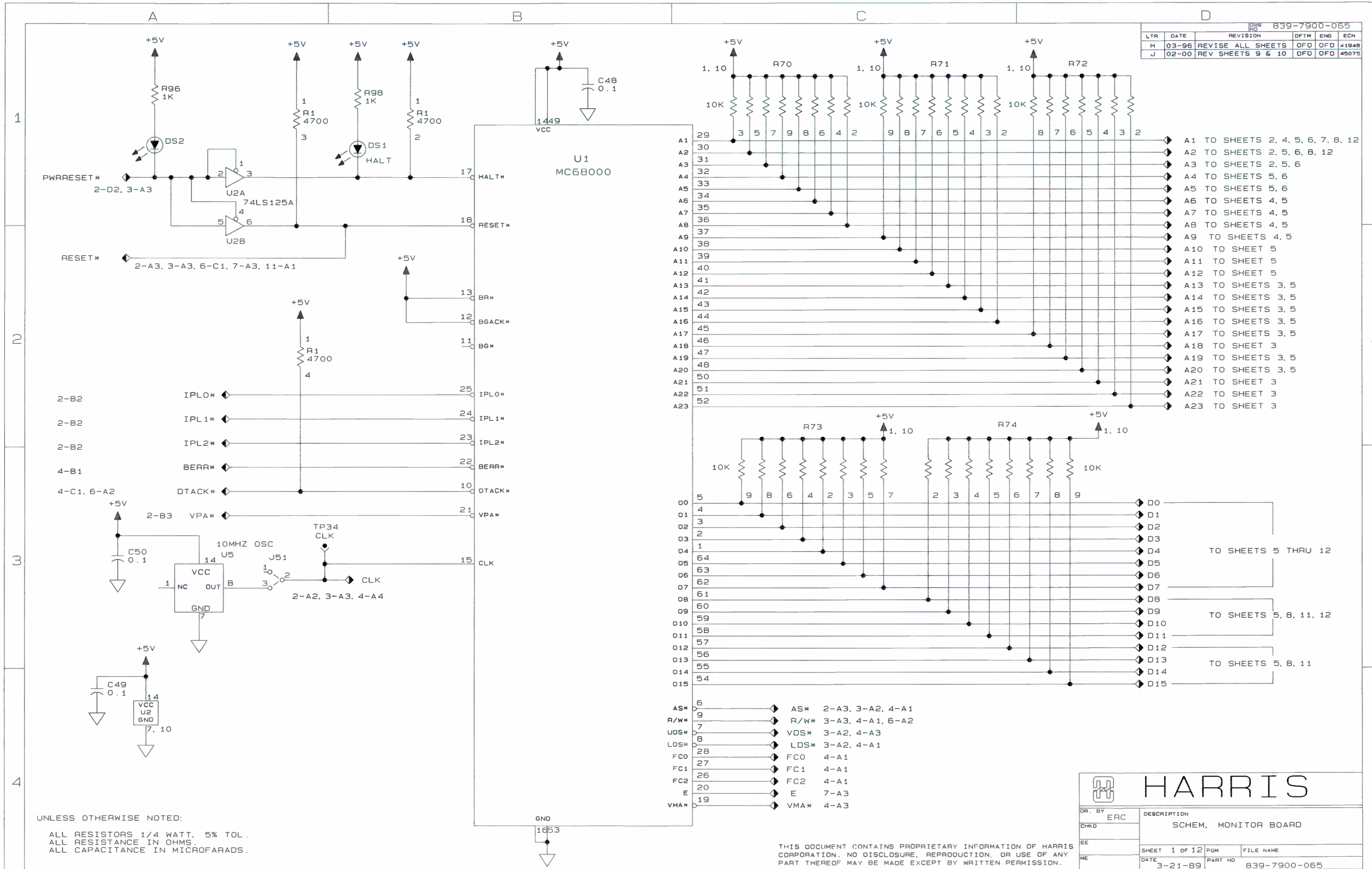


LTR	DATE	REVISION	DFM	ENR	ECN
A	4-89	ADD RES. R1-R16	RLB		
B	8-92	ADD PROP NOTE	DMS		38130

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		FAULT STATUS IND.	
		DWN BY DFG CHRD REV DATE 8-10-88	SHEET 1 OF 1 PART NO 839-7900-052

839-7900-065					
LTR	DATE	REVISION	DFTM	ENG	ECN
H	03-96	REVISE ALL SHEETS	OFO	OFO	41948
J	02-00	REV SHEETS 9 & 10	OFO	OFO	45075



UNLESS OTHERWISE NOTED:
 ALL RESISTORS 1/4 WATT, 5% TOL.
 ALL RESISTANCE IN OHMS.
 ALL CAPACITANCE IN MICROFARADS.

A1	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
A2	3	5	7	9	8	6	4	2	9	8	7	6	5	4	3	2	8	7	6	5	4	3	2	
A3																								
A4																								
A5																								
A6																								
A7																								
A8																								
A9																								
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A19																								
A20																								
A21																								
A22																								
A23																								

00	5	9	8	6	4	2	3	5	7	2	3	4	5	6	7	8	9	D0	
01	4																	D1	
02	3																	D2	
03	2																	D3	
04	1																	D4	TO SHEETS 5 THRU 12
05	64																	D5	
06	63																	D6	
07	62																	D7	
08	61																	D8	
09	60																	D9	TO SHEETS 5, 8, 11, 12
010	59																	D10	
011	58																	D11	
012	57																	D12	
013	56																	D13	TO SHEETS 5, 8, 11
014	55																	D14	
015	54																	D15	

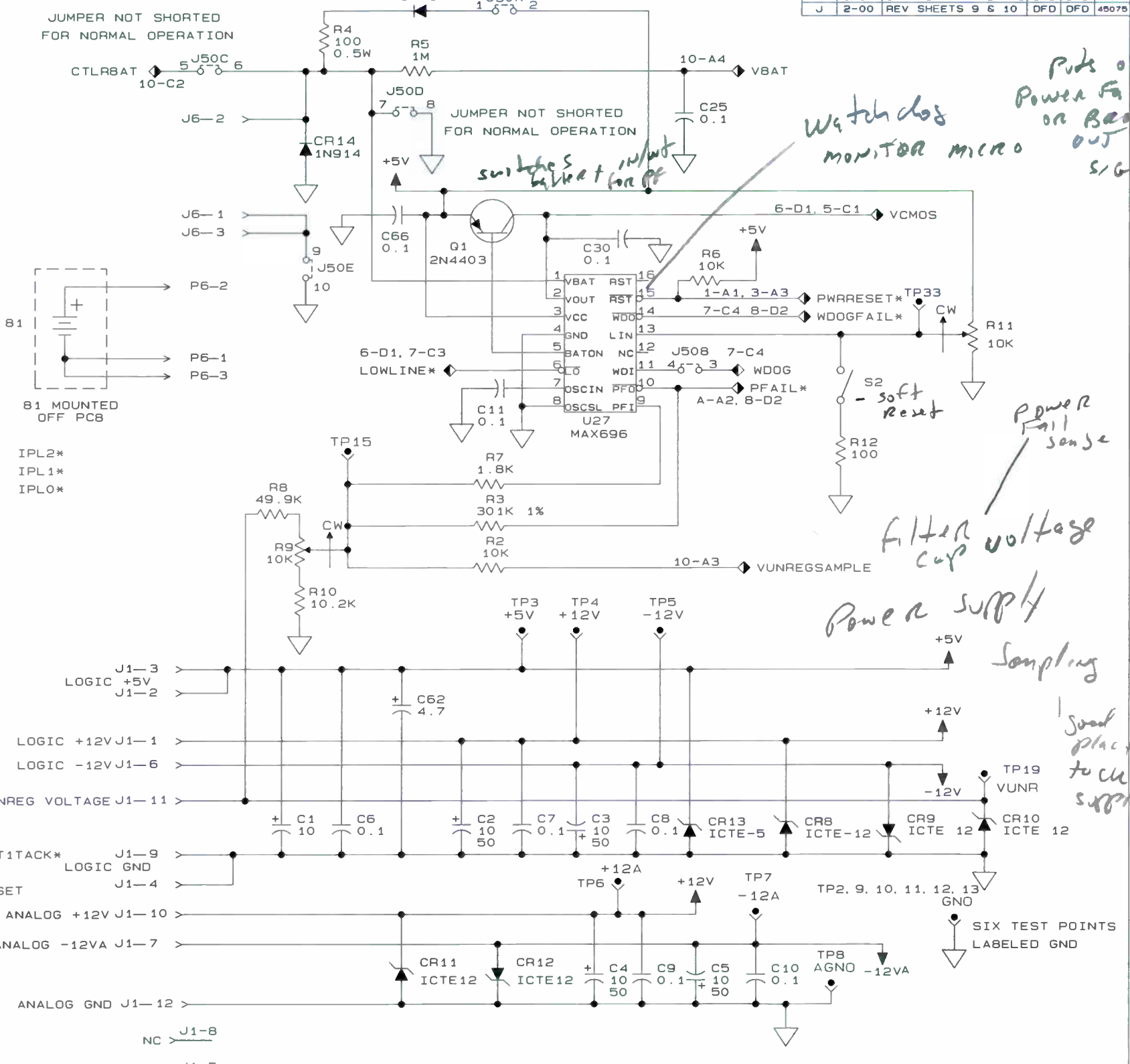
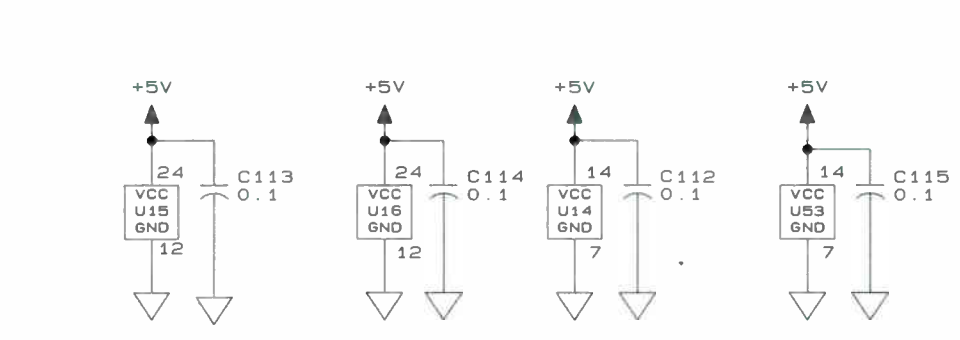
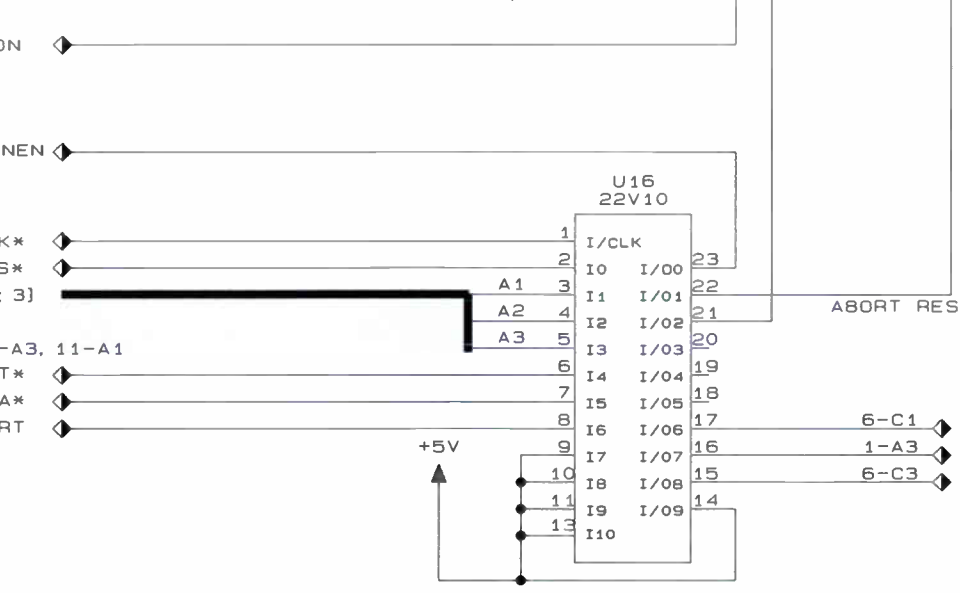
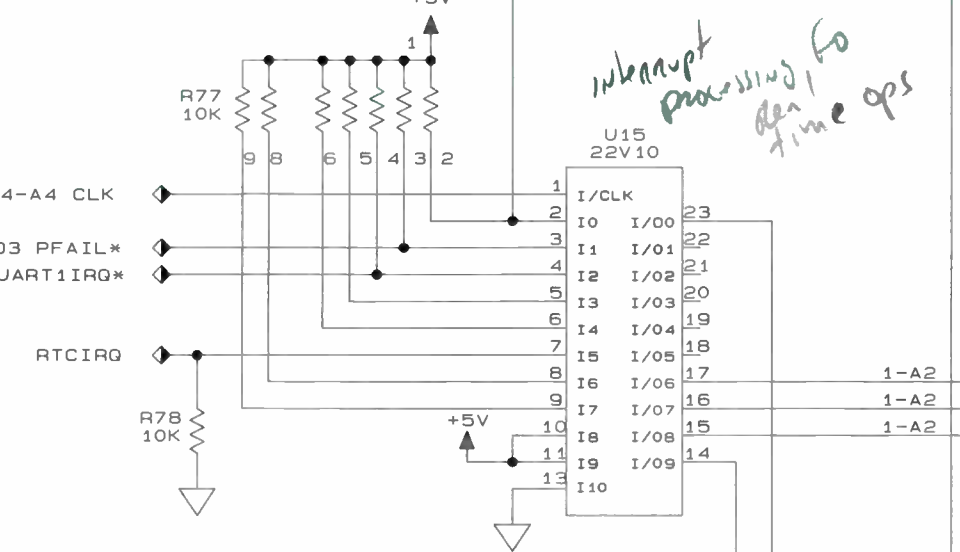
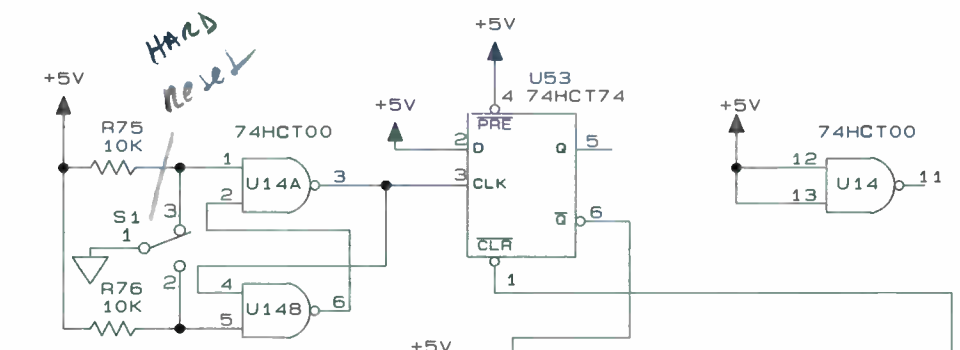
AS*	6	AS*	2-A3, 3-A2, 4-A1
R/W*	9	R/W*	3-A3, 4-A1, 6-A2
UOS*	7	VDS*	3-A2, 4-A3
LOS*	8	LDS*	3-A2, 4-A1
FC0	28	FC0	4-A1
FC1	27	FC1	4-A1
FC2	26	FC2	4-A1
E	20	E	7-A3
VMA*	19	VMA*	4-A3

HARRIS

DR. BY	ERC	DESCRIPTION		
CHKD		SCHEM. MONITOR BOARD		
EE		SHEET 1 OF 12	PGM	FILE NAME
ME		DATE 3-21-89	PART NO	839-7900-065

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LTR	DATE	REVISION	DFM	ENG	ECN
H	9-97	CHG TO MATCH BOARD	DFD	DFD	41948
J	2-00	REV SHEETS 9 & 10	DFD	DFD	48075



Watch dog monitor micro

Power Fail on Board out signal

Power Fail sense

Filter voltage cap

Power supply Sampling

Good place to check supplies

HARRIS

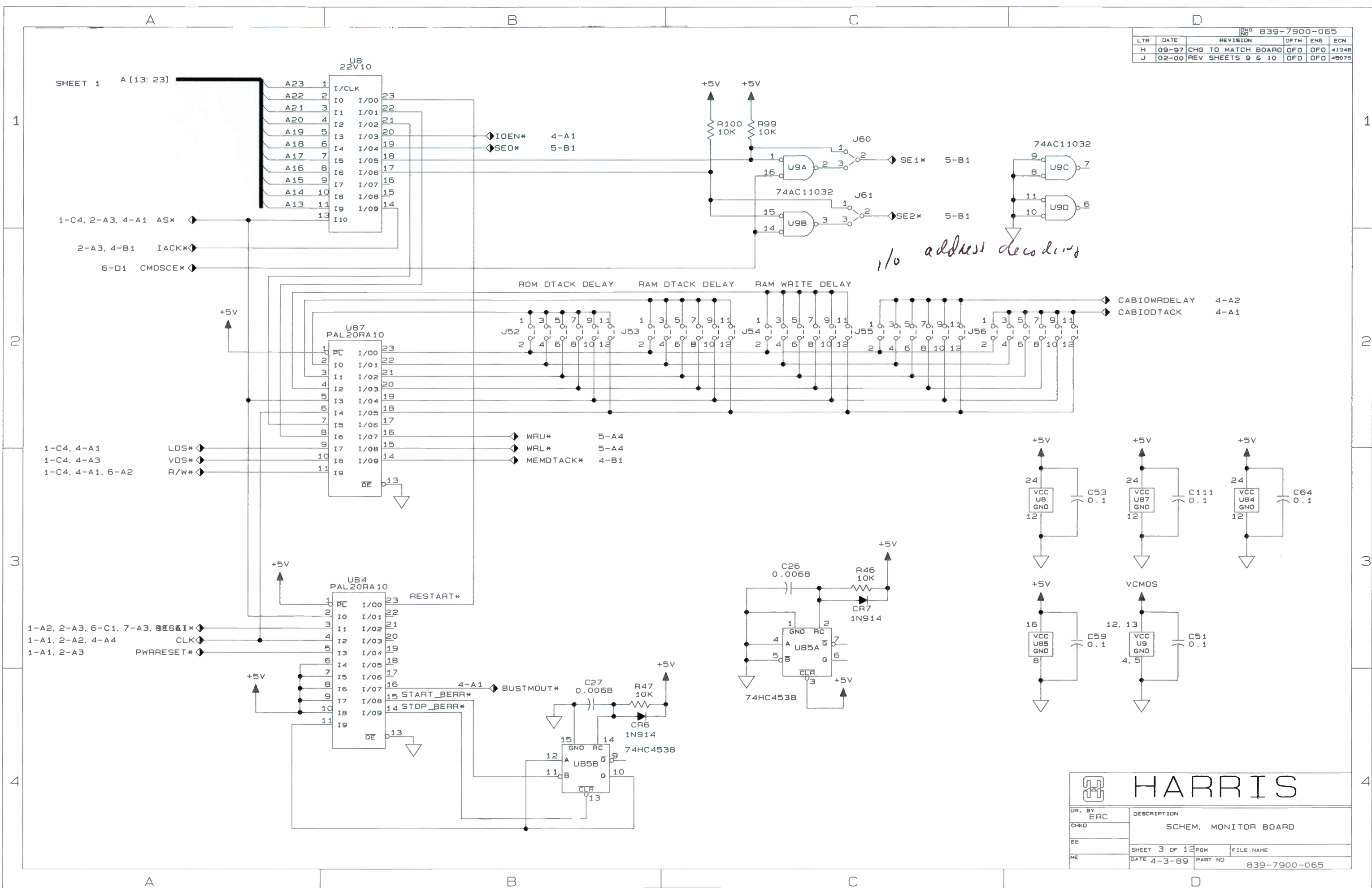
DR. BY: ERC
CHKD: _____
EE: _____
ME: _____

DESCRIPTION: SCHEM. MONITOR BOARD

SHEET 2 OF 12
DATE 3-21-89

PGM FILE NAME
PART NO 839-7900-065

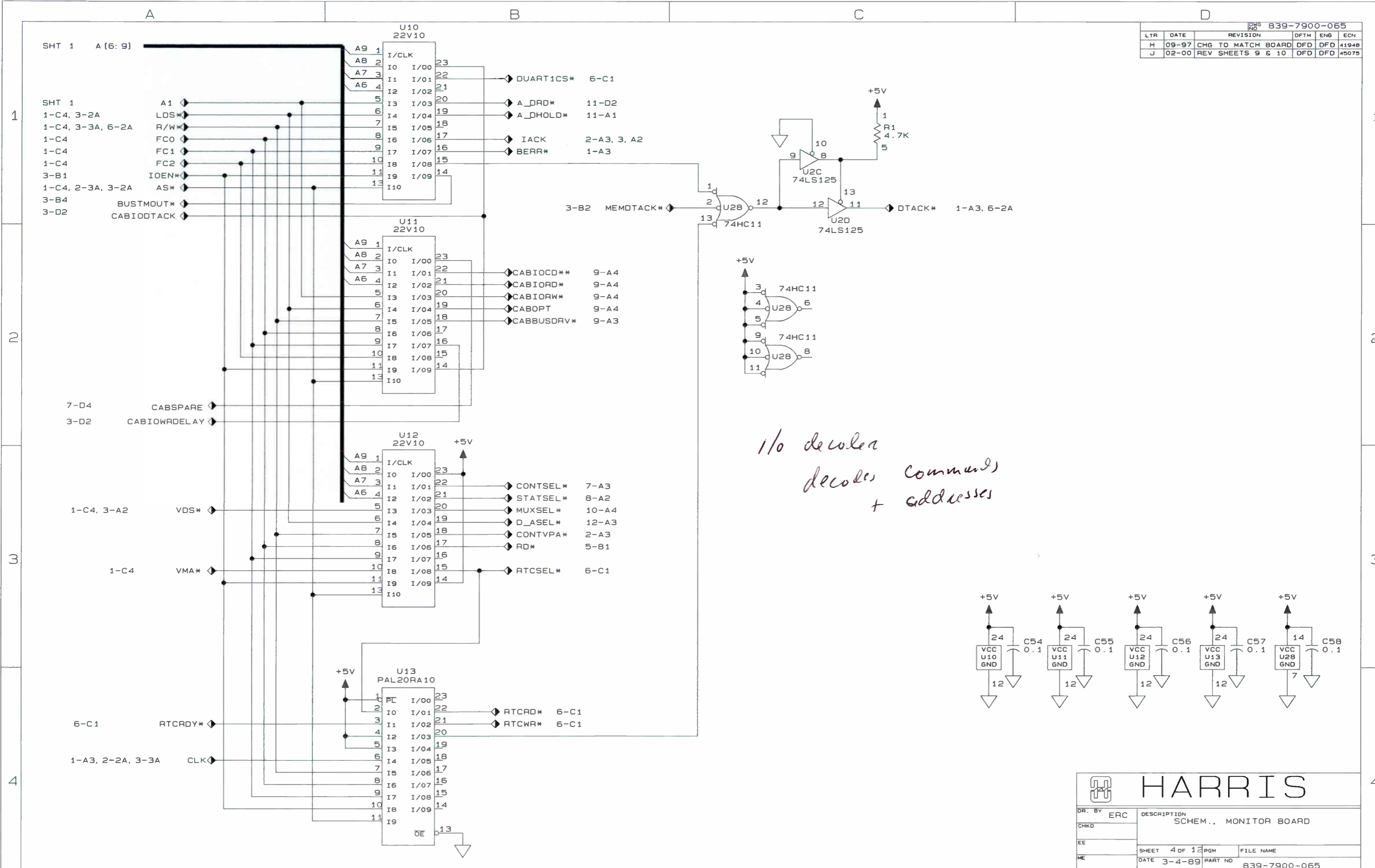
REV 839-7900-065		QFM	ENG	ECN
LTR	DATE	REVISION	OFO	OFO
H	09-97	CHG TO MATCH BOARD	OFO	41948
J	02-00	REV SHEETS 9 & 10	OFO	45075



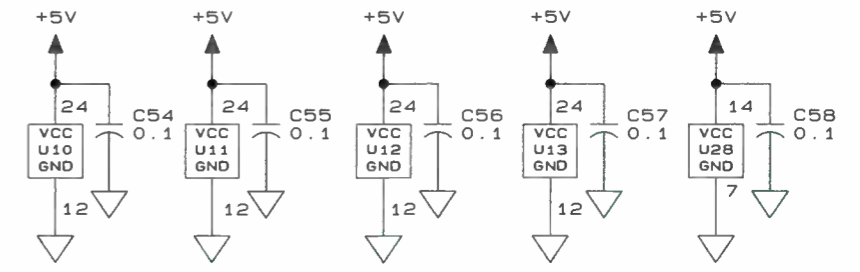
HARRIS

DR. BY ERC	DESCRIPTION SCHEM. MONITOR BOARD
CHKD	SHEET 3 OF 12 PGM FILE NAME
EE	DATE 4-3-89 PART NO 839-7900-065
ME	

		REV 839-7900-065			
LTR	DATE	REVISION	DFTM	ENG	ECN
H	09-97	CHG TO MATCH BOARD	DFD	DFD	41948
J	02-00	REV SHEETS 9 & 10	DFD	DFD	45075



*i/o decoder
decoder comments
+ addresses*



HARRIS

DR. BY	ERC	DESCRIPTION
CHKD		SCHEM., MONITOR BOARD
EE		SHEET 4 OF 12 PGM FILE NAME
ME		DATE 3-4-89 PART NO 839-7900-065

REV NO		839 7900 065	
LTR	DATE	REVISION	ECN
H	09-97	CHG TO MATCH BOARD	41948
J	02-00	REV SHEETS 9 6 10	45075

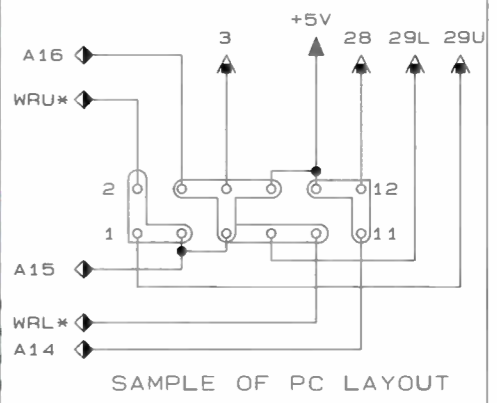
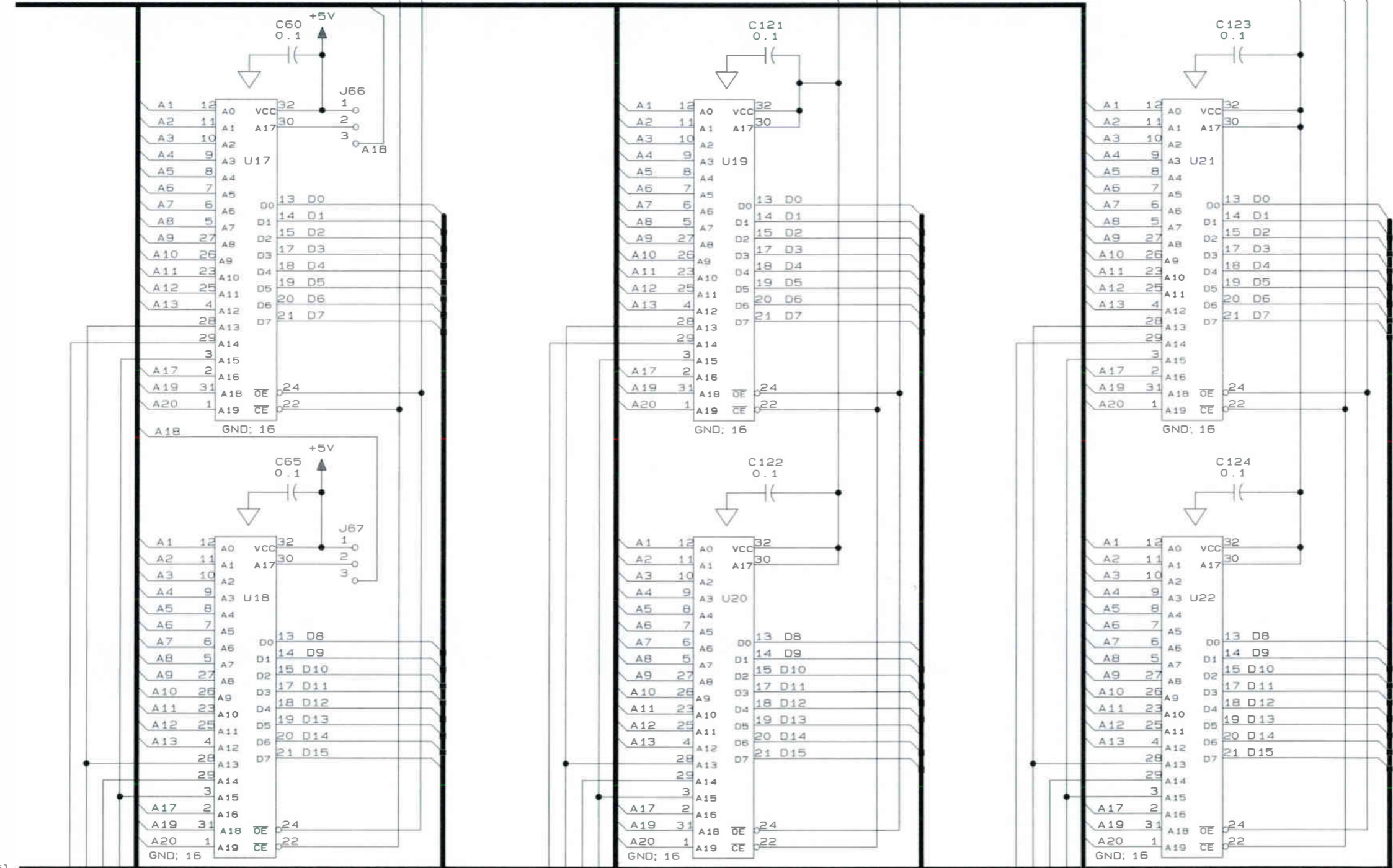
NOTE: U17 THRU U20 ARE TYP 32K OR 64K EPROMS. U21 AND U22 ARE TYP 32K RAMS. SEE I.B. FOR CONFIGURATION.

2-D1, 6-D1 VC MOS

RAM / ROM

4-B3 RD*
3-C1 SE2*
3-C1 SE1*
3-B1 SE0*

A [1: 20]
SHEET 1



SHT 1 D [0: 15]

3-B2

3-B2

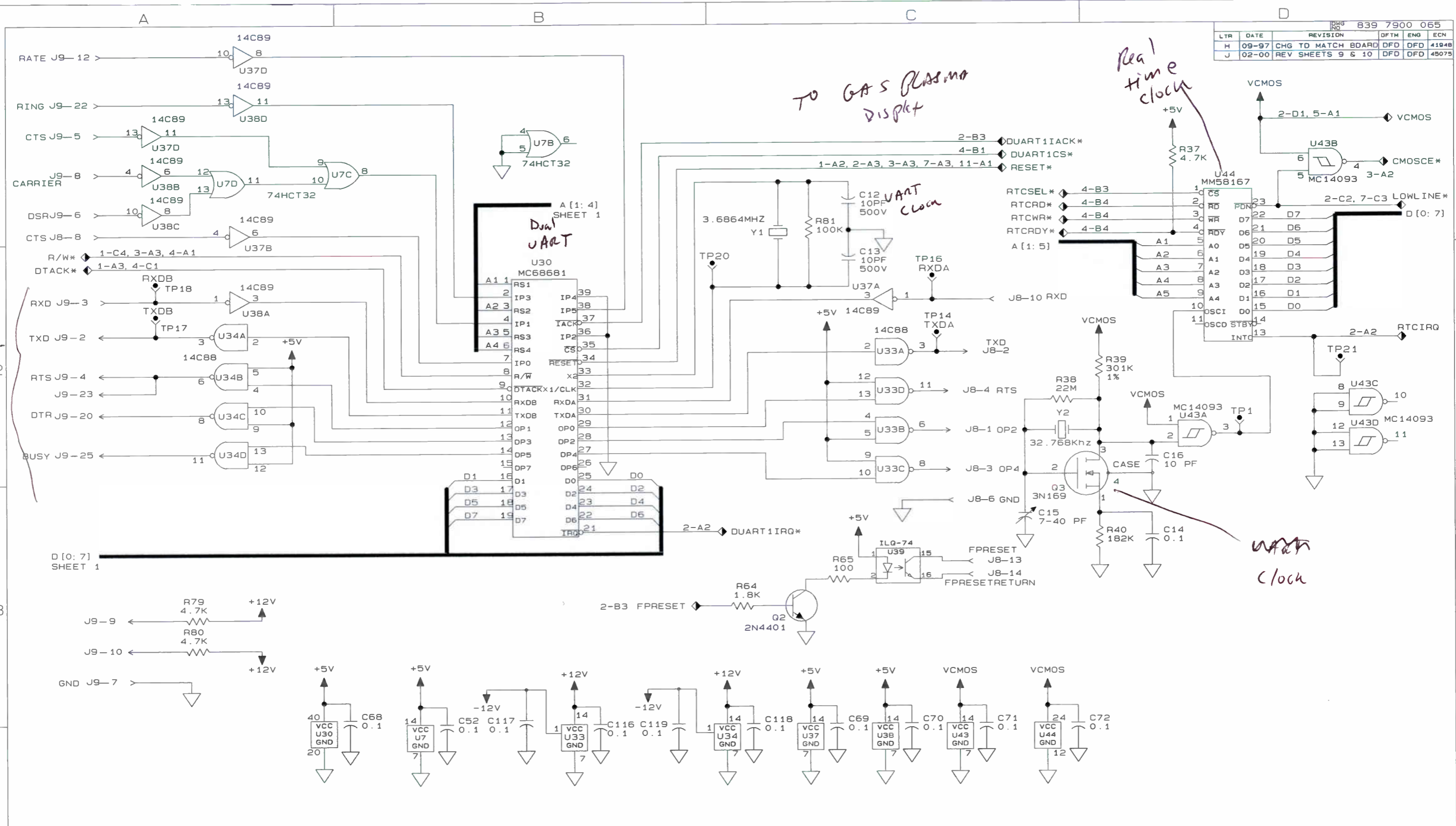
HARRIS

DR. BY RLB
CHRD
EE
ME

DESCRIPTION
SCHEM.. MONITOR BOARD

SHEET 5 OF 12 PGH FILE NAME
DATE 4-5-89 PART NO 839-7900-065

REV. NO.		839 7900 065		DFM	ENG	ECN
LTR	DATE	REVISION	DFM	ENG	DFD	41948
H	09-97	CHG TO MATCH BOARD	DFD	DFD	DFD	45075
J	02-00	REV SHEETS 9 & 10	DFD	DFD	DFD	



Send 1/0

TO GAS PLASMA Display

Real time clock

Dual UART

UART Clock

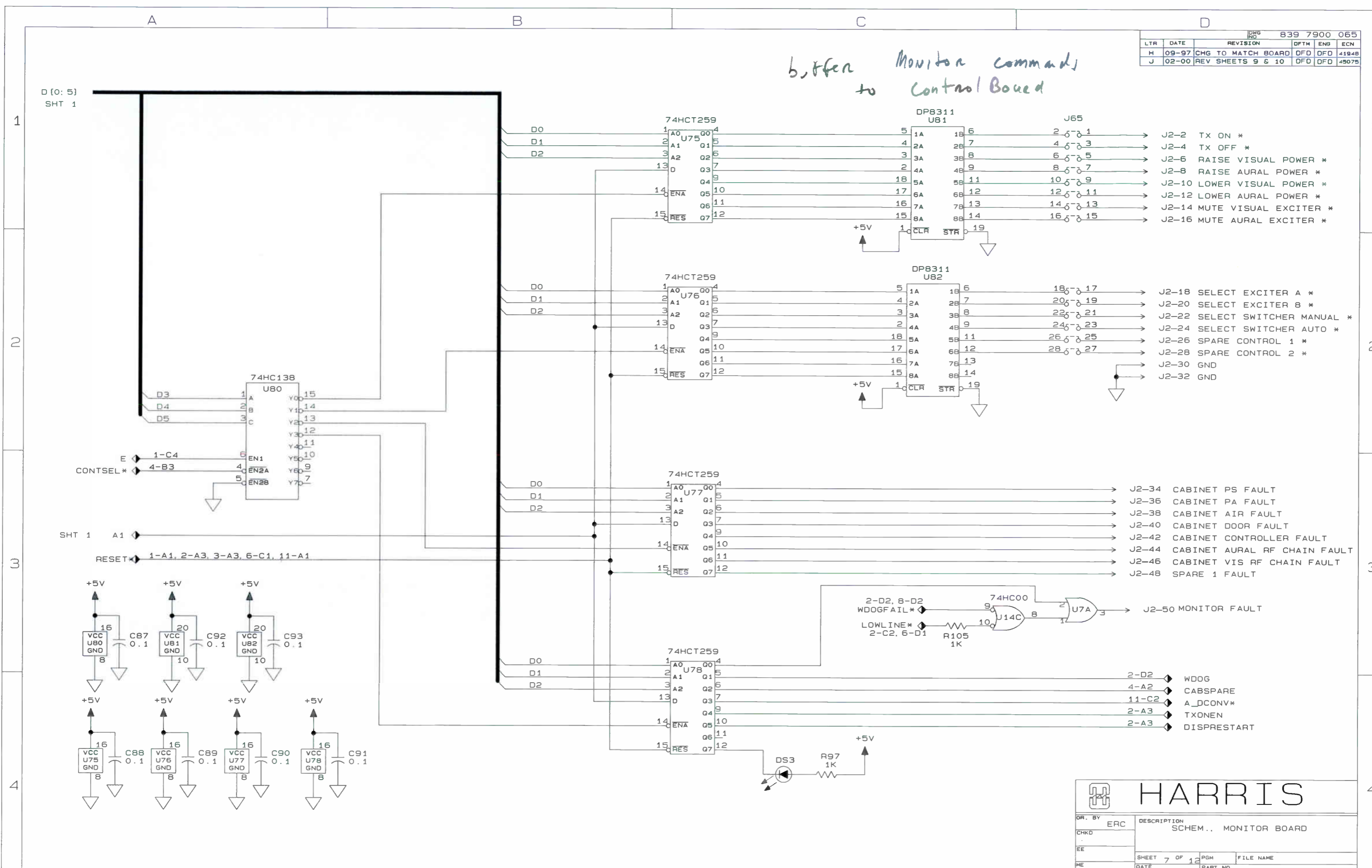
UART Clock

HARRIS

DR. BY	ERC	DESCRIPTION	SCHEM., MONITOR BOARD	
CHKD		SHEET 6 OF 12	PGM	FILE NAME
EE		DATE 4-4-89	PART NO	839-7900-065
ME				

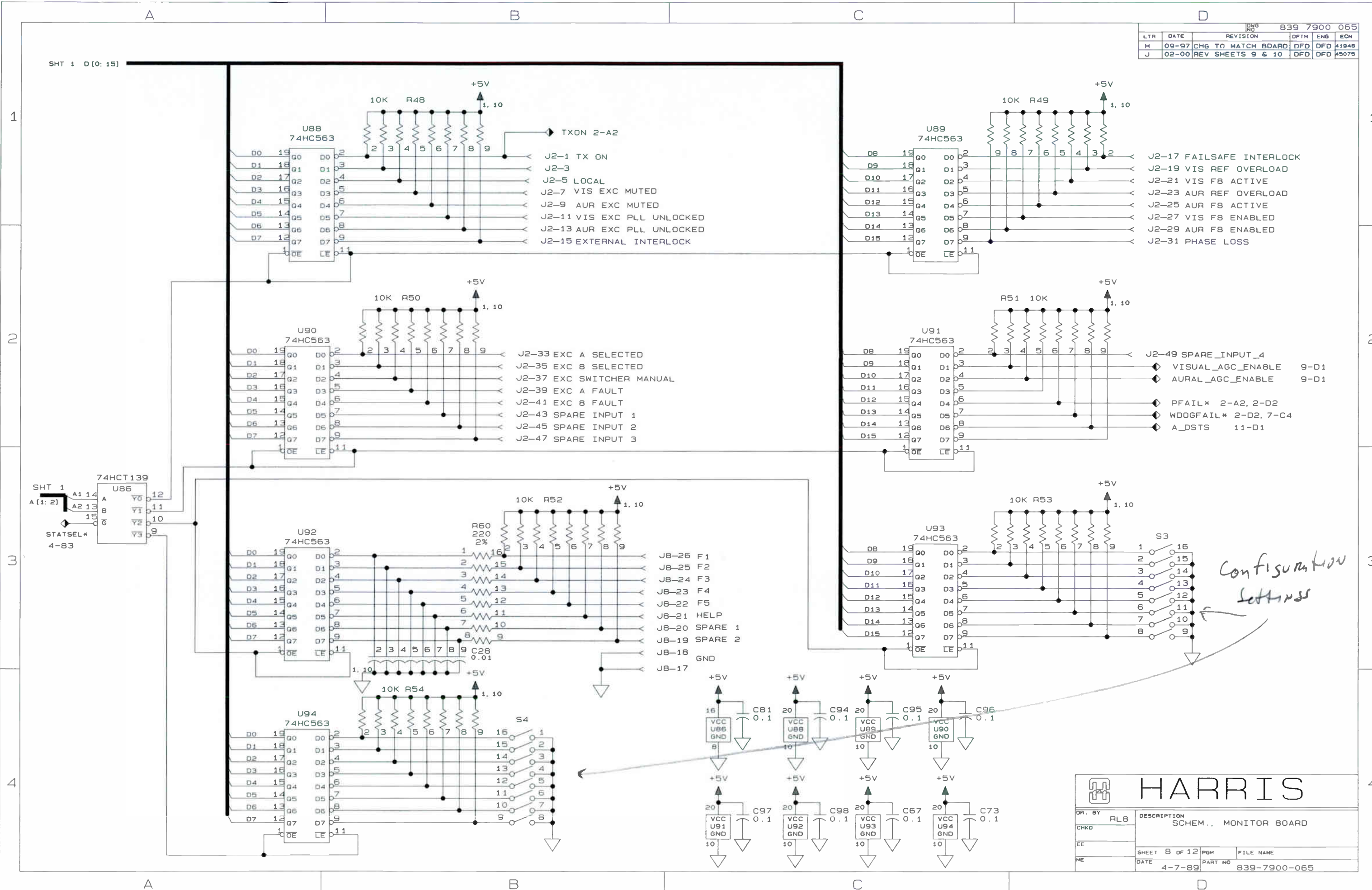
LTR	DATE	REVISION	DFM	ENG	ECN
H	09-97	CHG TO MATCH BOARD	DFD	DFD	41948
J	02-00	REV SHEETS 9 & 10	DFD	DFD	45075

*buffer Monitor commands
to Control Board*



		DESCRIPTION	
		SCHEM.. MONITOR BOARD	
OR. BY	ERC	SHEET	7 OF 12
CHKD		PGM	FILE NAME
EE		DATE	4-6-89
ME		PART NO	839-7900-065

CHG NO		839 7900 065	
LTR	DATE	REVISION	ECN
H	09-97	CHG TO MATCH BOARD	41948
J	02-00	REV SHEETS 9 & 10	45075



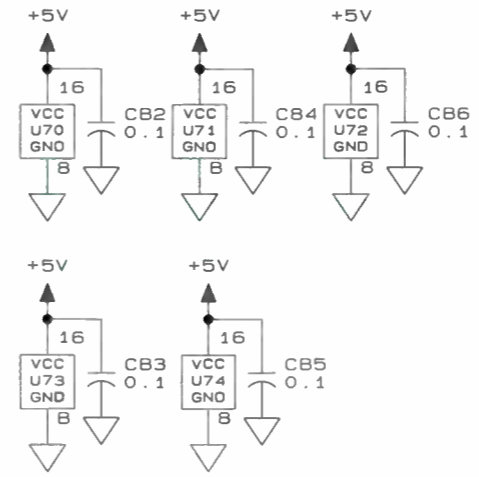
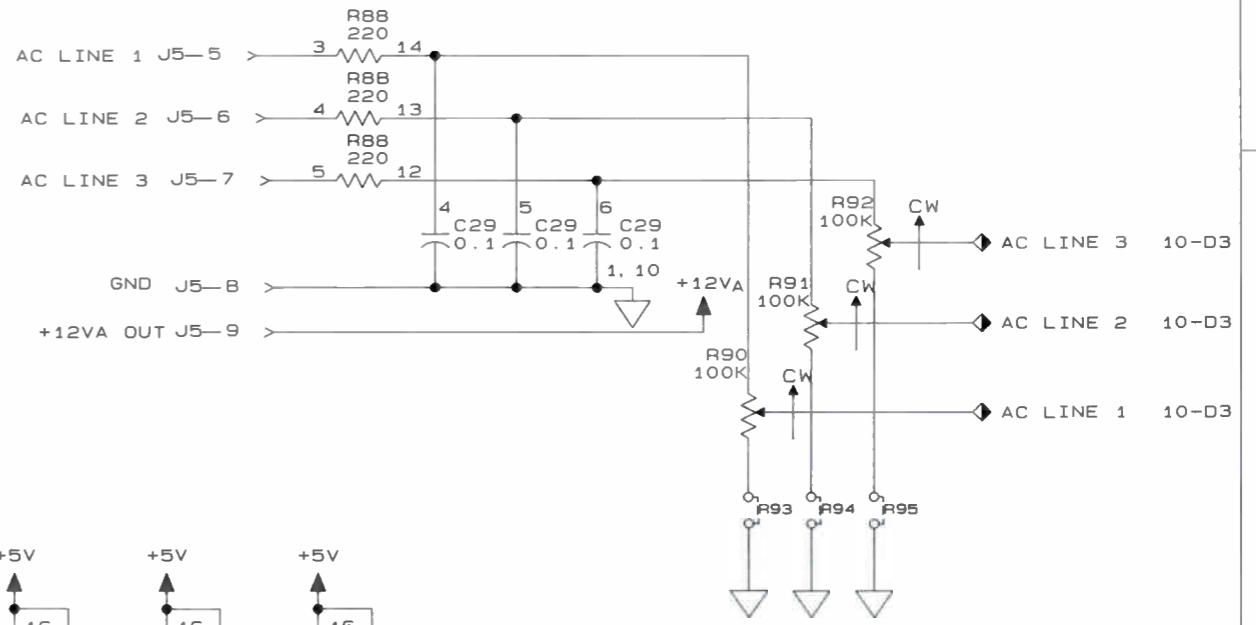
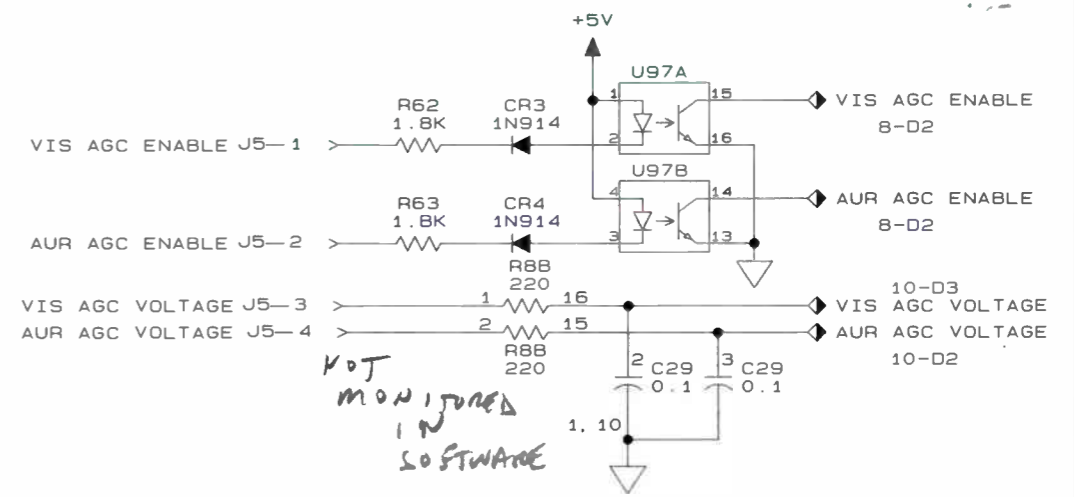
*Configuration
Settings*

HARRIS

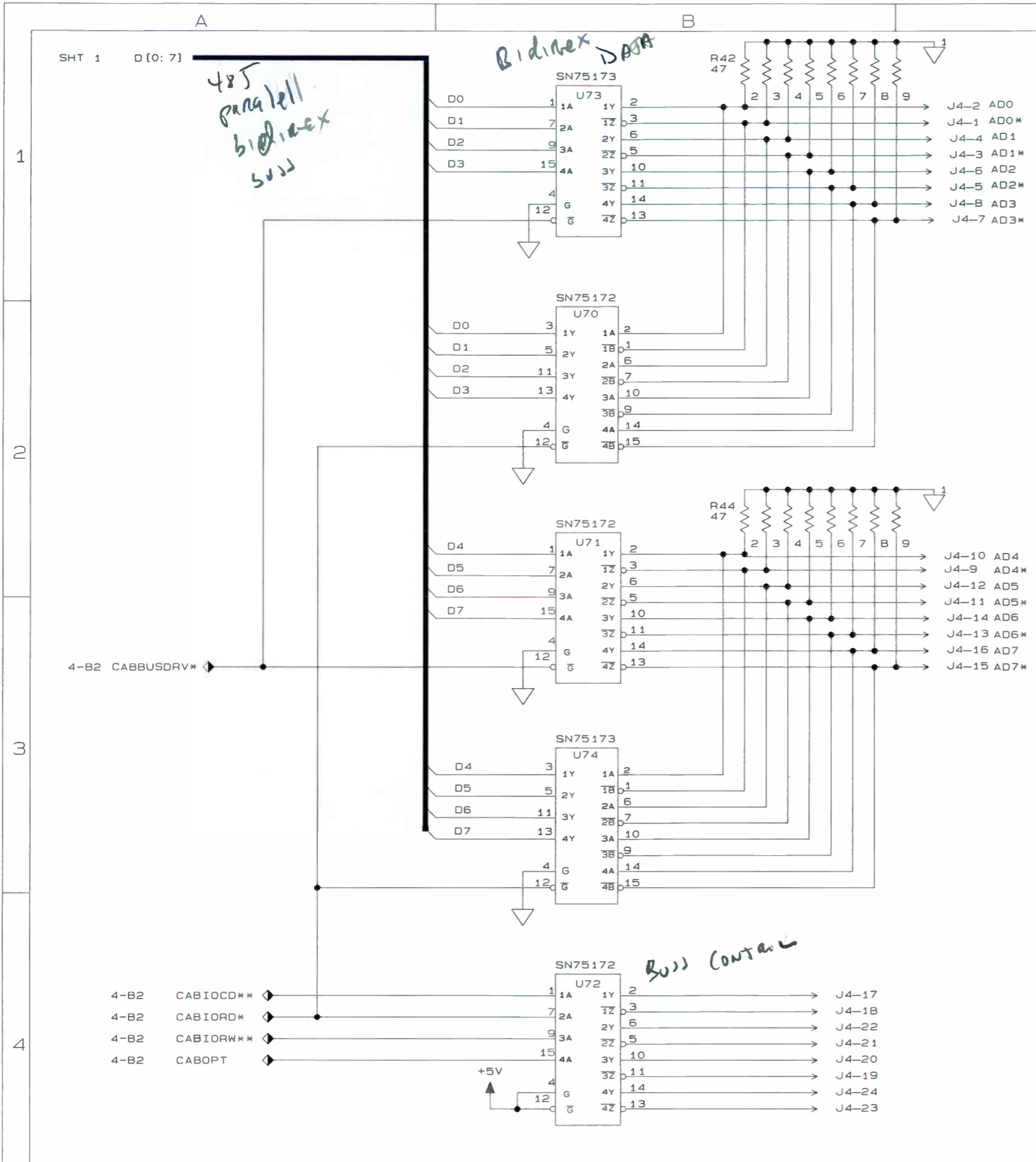
DR. BY	RLB	DESCRIPTION	
CHKD		SCHEM., MONITOR BOARD	
EE		SHEET 8 OF 12	PGM FILE NAME
ME		DATE 4-7-89	PART NO 839-7900-065

REV 01		839 7900 065	
LTR	DATE	REVISION	OFTH ENG ECH
H	09-97	REV U70 AND U73	OFO OFO 41948
J	2-00	REV R90-92; DEL R93-95	OFO OFO 45075

**MONITOR BOARD
MONITOR AGC**

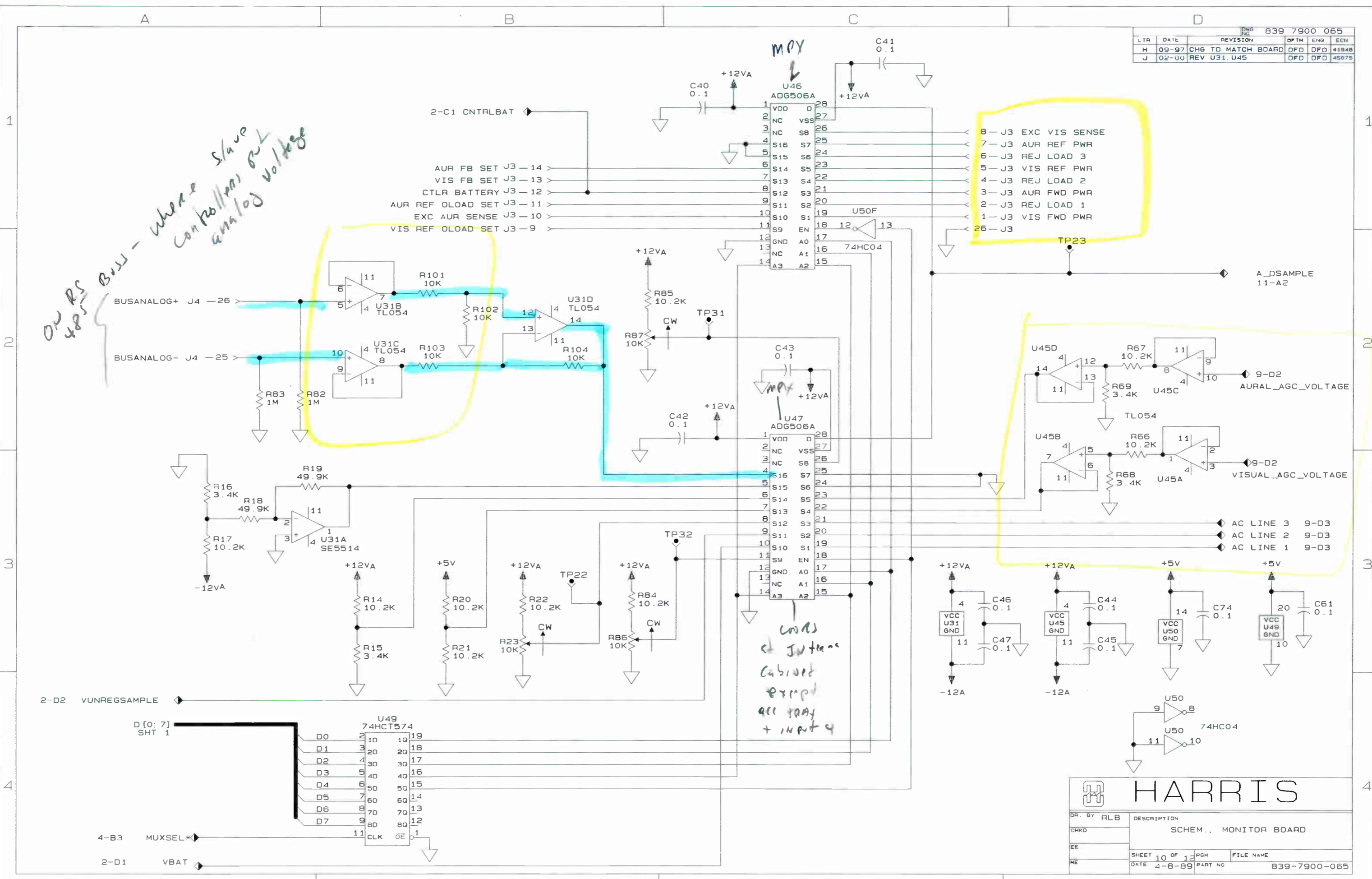


		DESCRIPTION	
		SCHEM., MONITOR BOARD	
DR. BY	ERC	SHEET	9 OF 12
CHKD		PGM	FILE NAME
EE		DATE	4-8-89
ME		PART NO	839-7900-065



Dwg No		839 7900 065	
LTR	DATE	REVISION	DFM ENG ECN
H	09-97	CHG TO MATCH BOARD	DFD DFD 41948
J	02-00	REV U31, U45	DFD DFD 45075

On RS 485 Bus - where Slave Controller Pull analog voltage

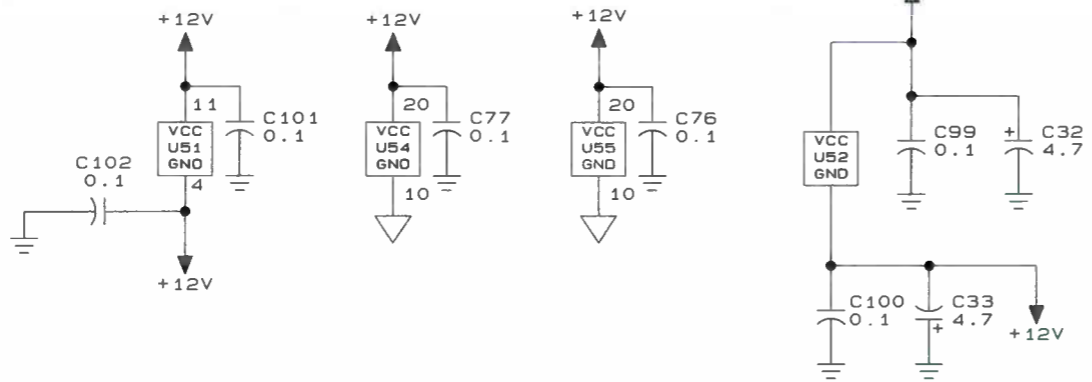
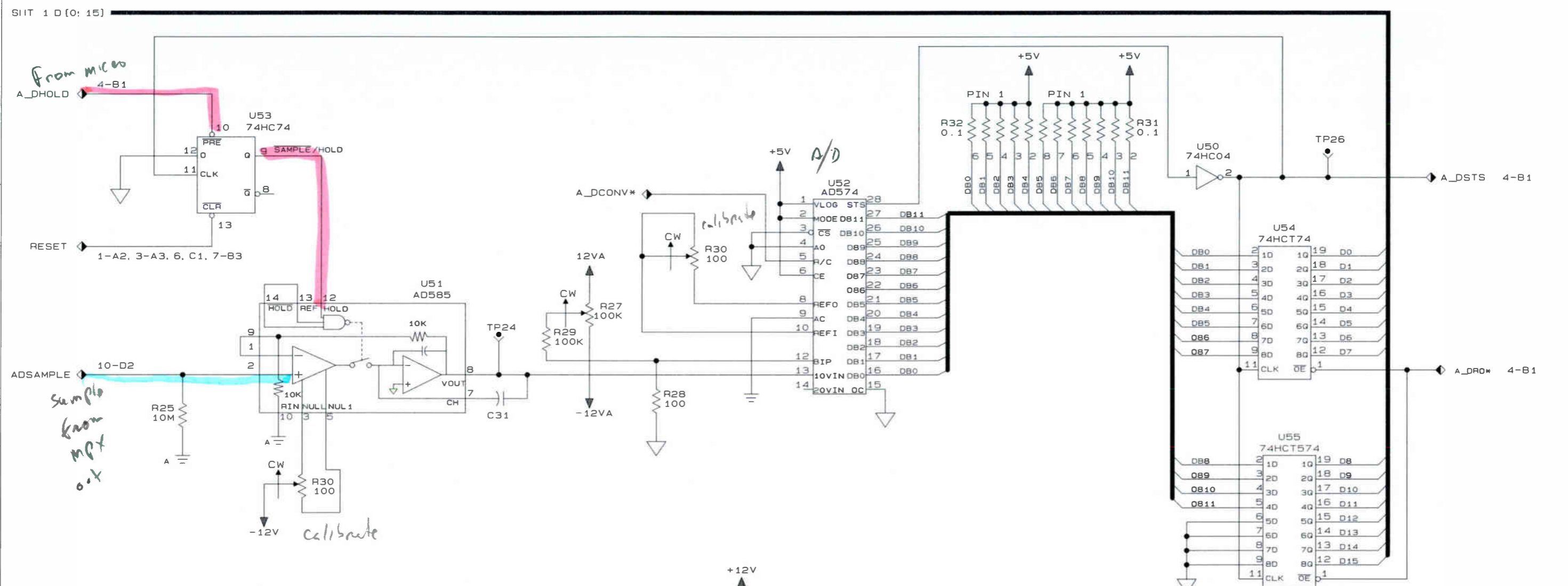


*LOWES
at Int'l
Cabinet
except
all other
+ input 4*

HARRIS

DR. BY	RLB	DESCRIPTION	SCHEM.. MONITOR BOARD	
CHKD				
EE		SHEET 10 OF 12	PGM	FILE NAME
ME		DATE 4-8-89	PART NO	839-7900-065

LTR		DATE	REVISION	OFM	ENG	ECN
H		09-97	CHG TO MATCH BOARD	0FO	0FO	41948
J		02-00	REV SHEETS 9 & 10	0FO	0FO	45075

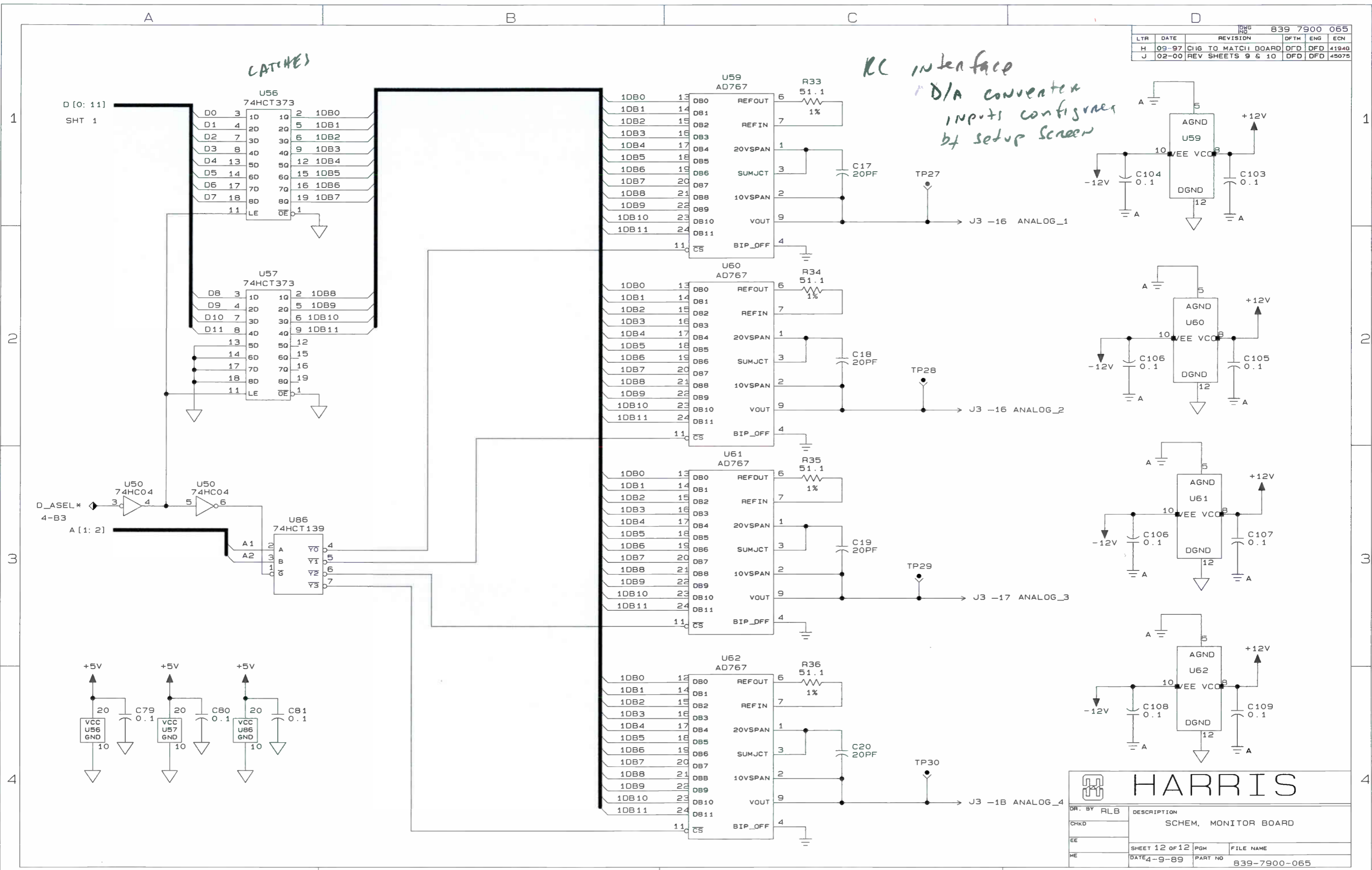


HARRIS

DR. BY	ERC	DESCRIPTION	
CHKD		SCHEM. MONITOR BOARD	
EE		SHEET 11 OF 12	PGM FILE NAME
ME		DATE 4-9-89	PART NO 839-7900-065

LTR		DATE	REVISION	DWG NO	839 7900 065	DFTM	ENG	ECN
H	09-97	CIG TO MATCH BOARD	DFD	DFD	41940			
J	02-00	REV SHEETS 9 & 10	DFD	DFD	45075			

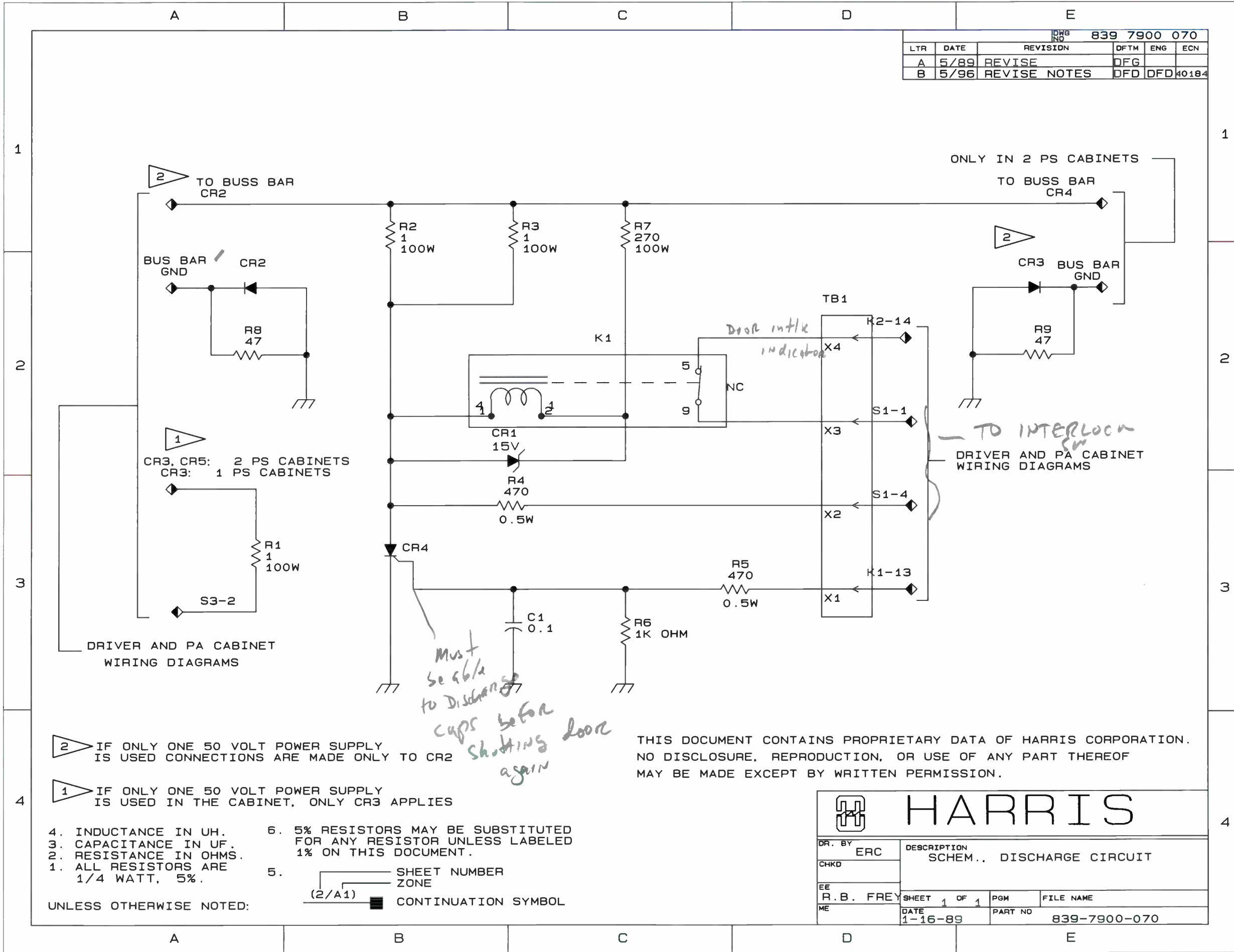
*RC interface
D/A converter
inputs configured
by setup screen*



HARRIS

DR. BY	RLB	DESCRIPTION	SCHEM. MONITOR BOARD	
CHKD				
EE		SHEET 12 OF 12	PGM	FILE NAME
ME		DATE 4-9-89	PART NO	839-7900-065

DRG NO		839 7900 070			
LTR	DATE	REVISION	DFTM	ENG	ECN
A	5/89	REVISE	DFG		
B	5/96	REVISE NOTES	DFD	DFD	40184



1
2
3
4

1
2
3
4

2 TO BUSS BAR CR2

ONLY IN 2 PS CABINETS TO BUSS BAR CR4

BUS BAR GND CR2

CR3 BUS BAR GND

CR3, CR5: 2 PS CABINETS
CR3: 1 PS CABINETS

TO INTERLOCK DRIVER AND PA CABINET WIRING DIAGRAMS

DRIVER AND PA CABINET WIRING DIAGRAMS

Must be 66/2 to discharge caps before shutting door again

2 IF ONLY ONE 50 VOLT POWER SUPPLY IS USED CONNECTIONS ARE MADE ONLY TO CR2

1 IF ONLY ONE 50 VOLT POWER SUPPLY IS USED IN THE CABINET, ONLY CR3 APPLIES

- 4. INDUCTANCE IN UH.
- 3. CAPACITANCE IN UF.
- 2. RESISTANCE IN OHMS.
- 1. ALL RESISTORS ARE 1/4 WATT, 5%.
- 6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.
- 5. SHEET NUMBER ZONE

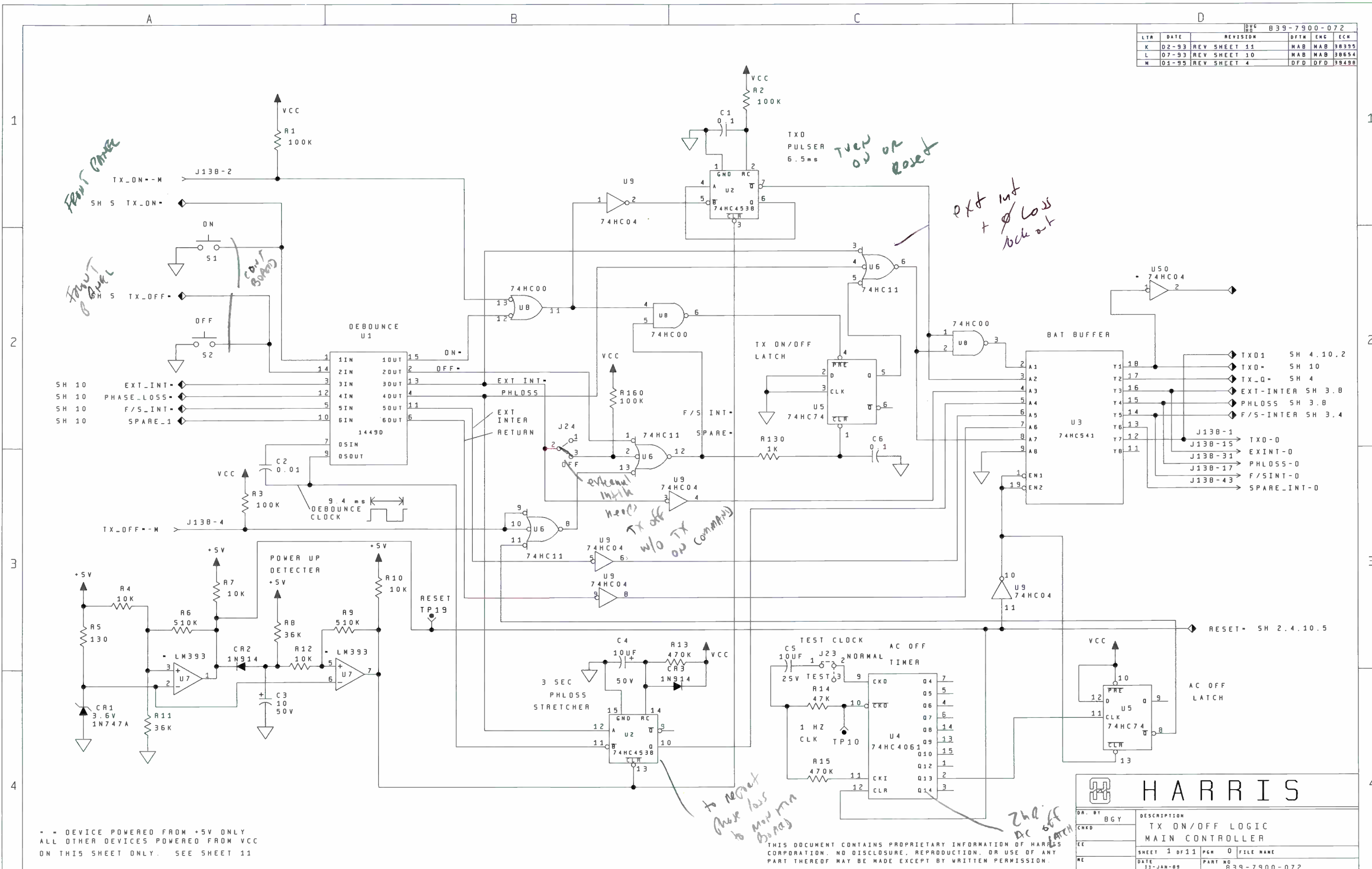
UNLESS OTHERWISE NOTED:

(2/A1) CONTINUATION SYMBOL

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DR. BY ERC	DESCRIPTION SCHEM.. DISCHARGE CIRCUIT
CHKD	
EE R.B. FREY	SHEET 1 OF 1 PGM FILE NAME
ME	DATE 1-16-89 PART NO 839-7900-070

REV B		839-7900-072	
LTR	DATE	REVISION	DFTH ENG ECM
K	02-93	REV SHEET 11	MAB MAB 38395
L	07-93	REV SHEET 10	MAB MAB 38654
M	01-95	REV SHEET 4	DFD DFD 39498



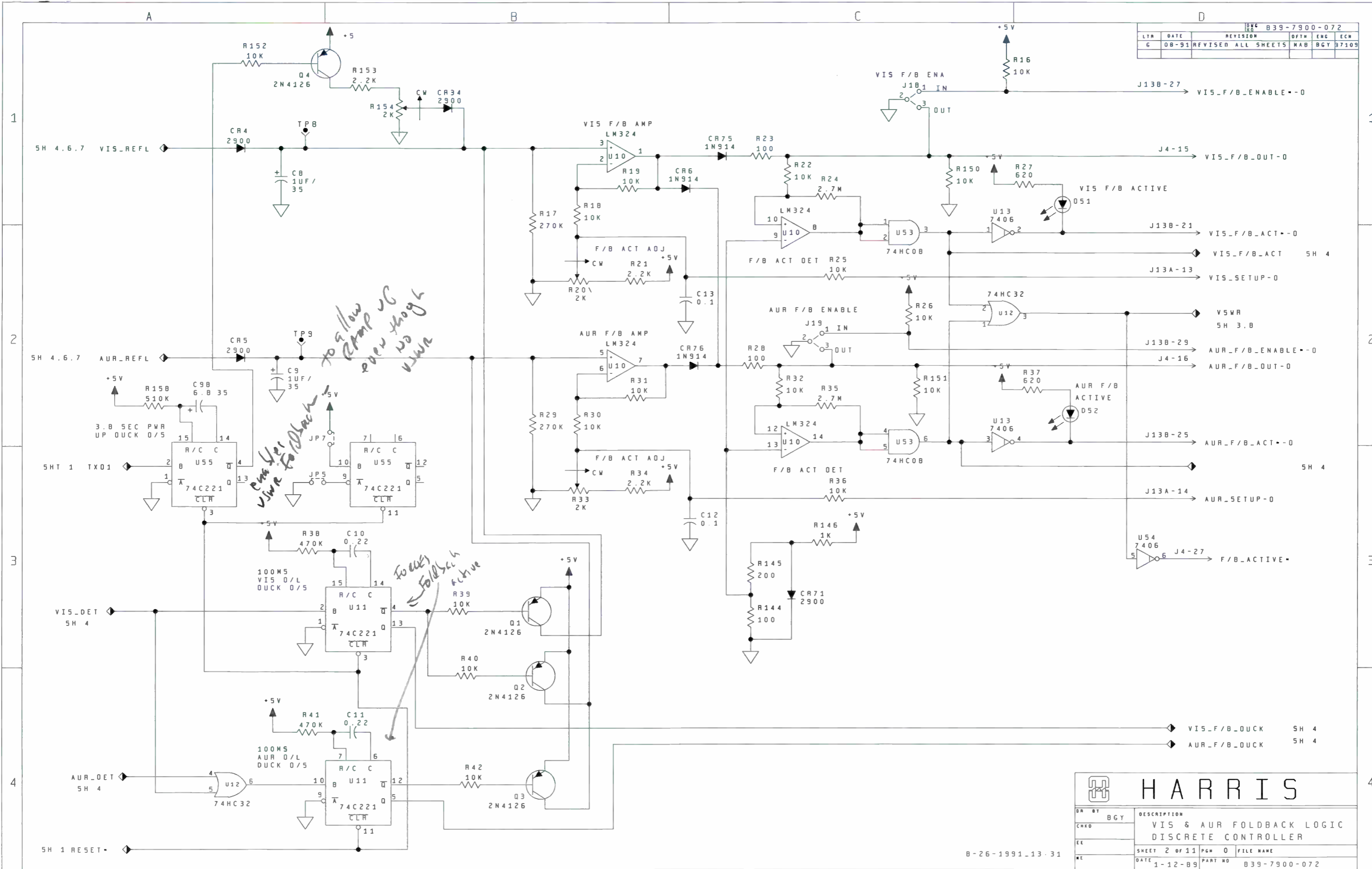
- = DEVICE POWERED FROM +5V ONLY
 ALL OTHER DEVICES POWERED FROM VCC
 ON THIS SHEET ONLY. SEE SHEET 11

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.

HARRIS

DR. BY	BGY	DESCRIPTION
CHKD		TX ON/OFF LOGIC MAIN CONTROLLER
EE		SHEET 1 OF 11 PGW 0 FILE NAME
RE		DATE 11-JAN-88 PART NO 839-7900-072

REV B39-7900-072	
LTR	DATE
G	08-91
REVISION	REVISED ALL SHEETS
DFTM	MAB
ENG	BGY
ECH	37109



To allow Amp to even though VSWR

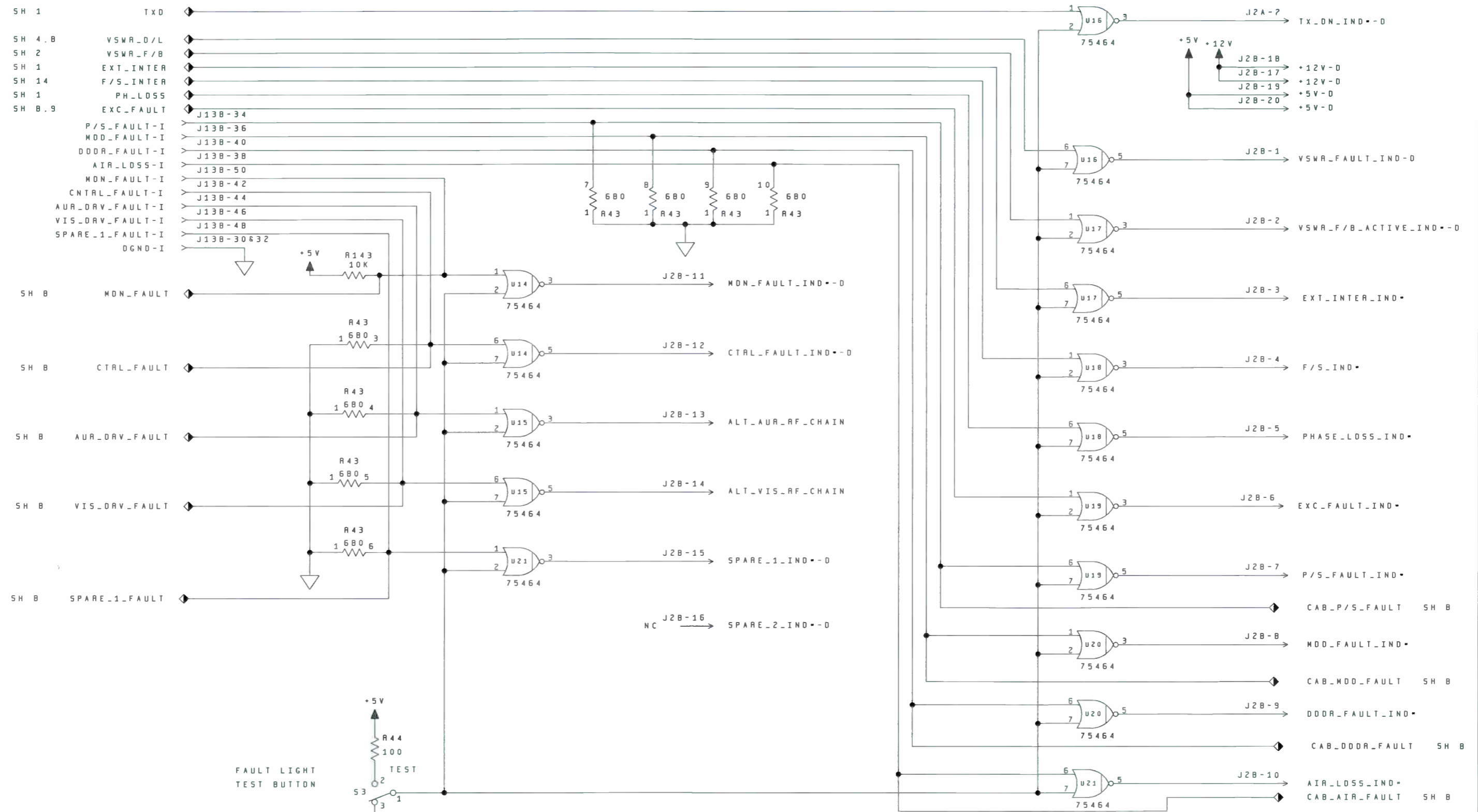
To allow Foldback Active

HARRIS

DR BY	BGY	DESCRIPTION	VIS & AUR FOLDBACK LOGIC DISCRETE CONTROLLER	
CHKD		SHEET	2 OF 11	PGM 0 FILE NAME
EE		DATE	1-12-89	PART NO B39-7900-072
WE				

B-26-1991-13-31

REV 6		B39-7900-072	
LTR	DATE	REVISION	BY
B	7-89	RE5. CHANGE	RS
C	08-93	REVISED ALL SHEETS	MAB BGY 37109

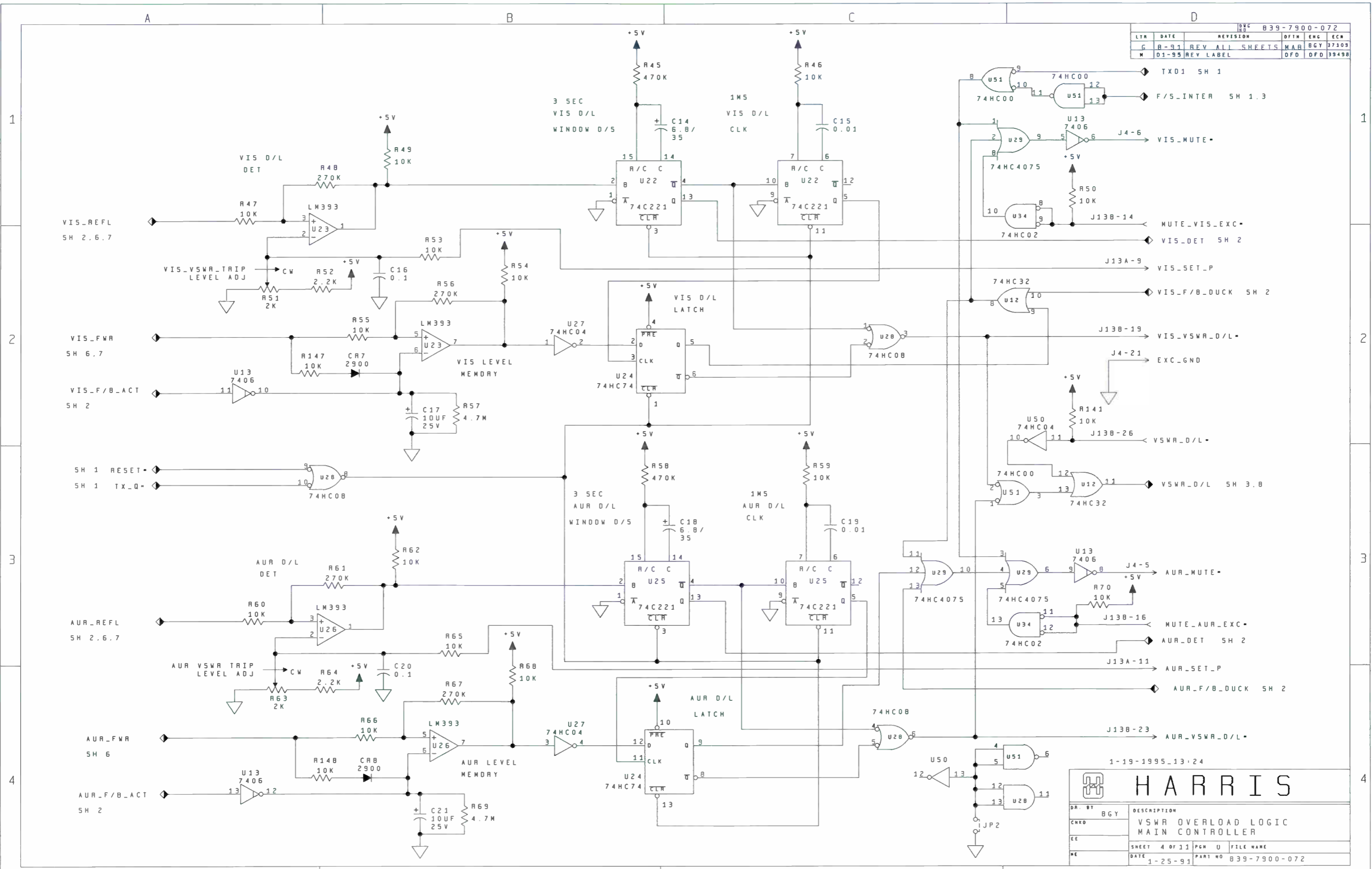


HARRIS

DR BY	BGY	DESCRIPTION
CHKD		STATUS DRIVERS MAIN CONTROLLER
EE		SHEET 3 OF 11
WE	DATE 1-12-89	PGH 0 FILE NAME PART NO B39-7900-072

B-26-1991-11-39

REV		B39-7900-072			
LTR	DATE	REVISION	DFW	EMC	ECN
G	8-91	REV ALL SHEETS	MAR	BGY	37109
M	01-95	REV LABEL	DFD	DFD	39498

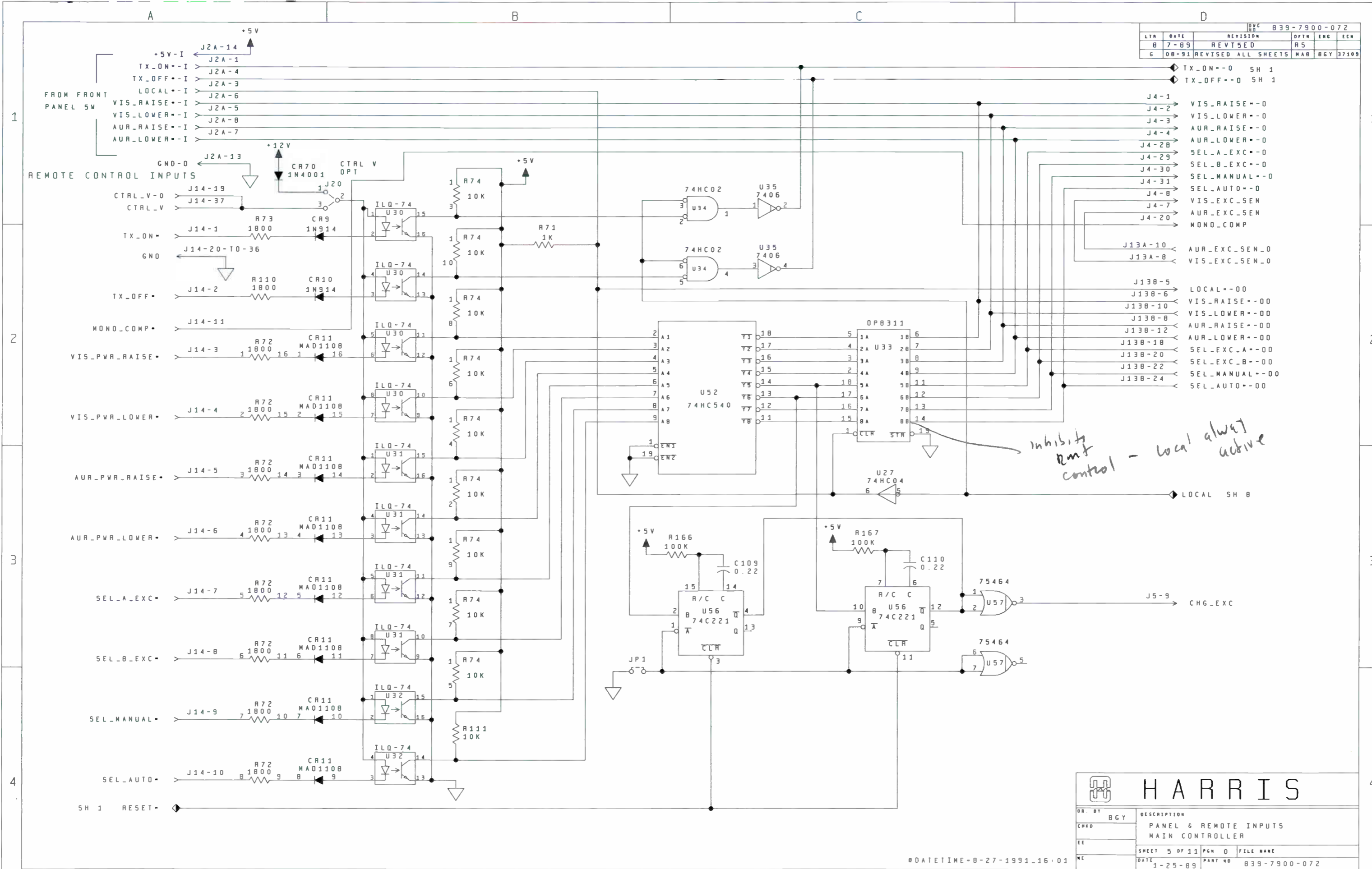


1-19-1995_13.24

HARRIS

DR. BY	BGY	DESCRIPTION
CHKD		VSWR OVERLOAD LOGIC MAIN CONTROLLER
EE		SHEET 4 OF 11 PGM U FILE NAME
ME		DATE 1-25-91 PART NO B39-7900-072

REV 839-7900-072	
LTR	DATE
B	7-89
REVISED	
DFTN	ENG
R5	ECH
REVISED ALL SHEETS	
MAB	BCY
37109	



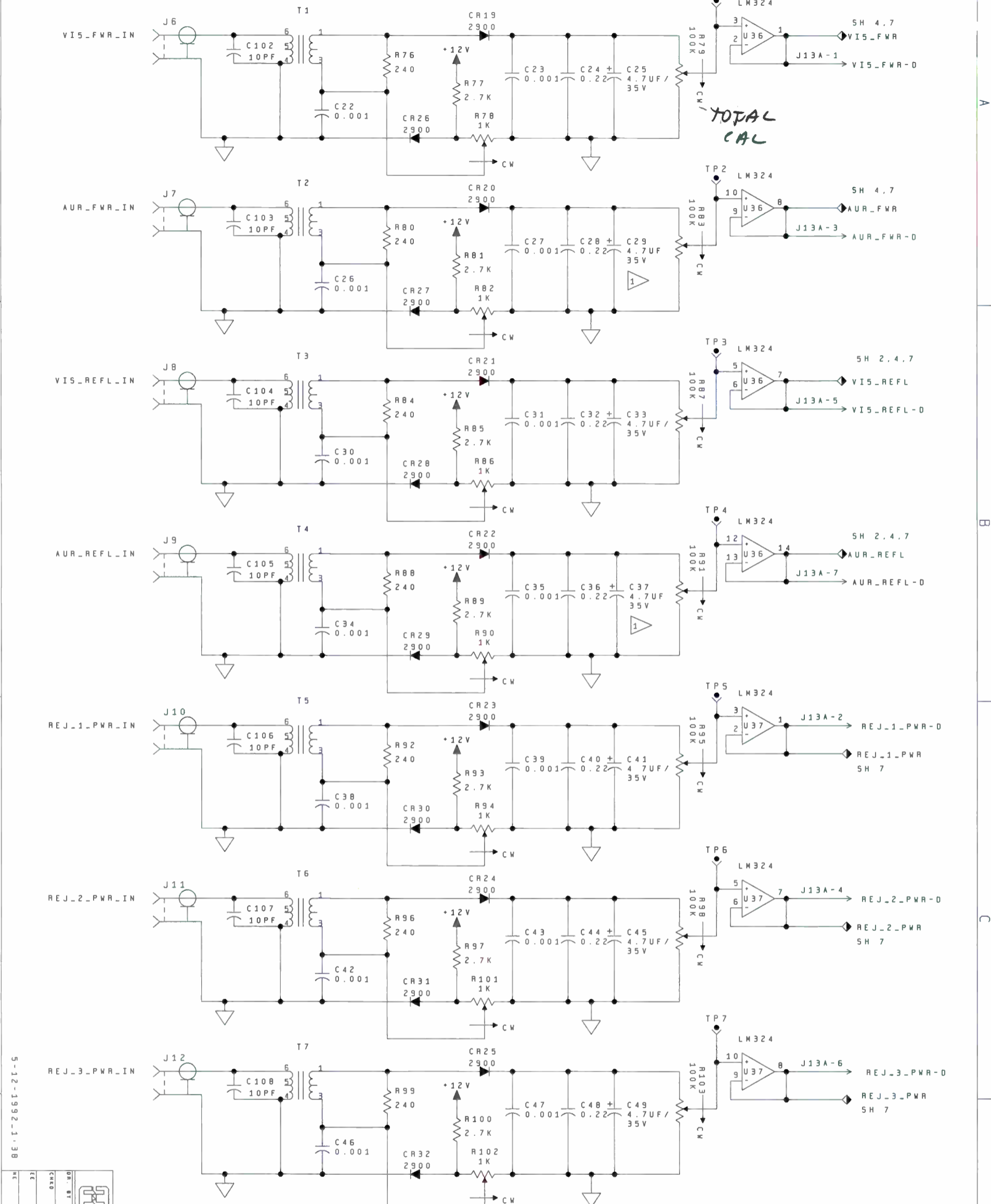
inhibits Rmt control - local always active

HARRIS

DR. BY	BGY	DESCRIPTION
CHKD		PANEL & REMOTE INPUTS MAIN CONTROLLER
EE		
DATE	1-25-89	SHEET 5 OF 11
FILE NAME		PGN 0
PART NO	839-7900-072	

DDATETIME=8-27-1991-16:01

D.C. offset



TOTAL CAL

1 SELECTED ON TEST

5-12-1992-1.38

HARRIS	
DR. BY	BGY
CHKD	
DESCRIPTION	
RF PEAK DETECTORS	
MAIN CONTROLLER	
SHEET	5 OF 11
DATE	1-27-89
FILE NAME	
PART NO.	B39-7900-072

REV	DESCRIPTION	DATE	BY
1	B39-7900-072		
2	REVISED		
3	REVISED		
4	REVISED		
5	REVISED		
6	REVISED		
7	REVISED		
8	REVISED		
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100	REVISED		

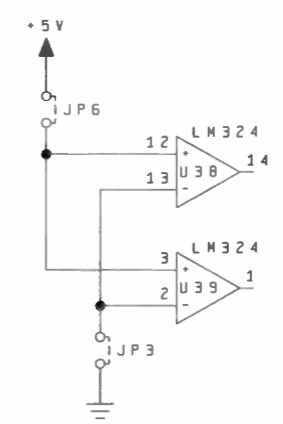
LTR		DATE	REVISION	DPTH	ENG	ECN
A	6-89	UPDATE		RLB		
G	08-91	REVISED ALL SHEETS		MAB	BGT	37109

FROM MONITOR BOARD

REMOTE ANALOG OUTPUTS

- J16-1 VIS_FWR-O
- J16-2 VIS_VSWR-O
- J16-3 AUR_FWR-O
- J16-4 AUR_VSWR-O
- J16-5 REJ_1_PWR-O
- J16-6 REJ_2_PWR-O
- J16-7 REJ_3_PWR-O
- J16-8 RAW_VIS_FWR-O
- J16-9 RAW_AUR_FWR-O
- J16-10 RAW_VIS_REFL-O
- J16-11 RAW_AUR_REFL-O
- J16-12-T0-37 NC-O
- J16-20-T0-36 SIG_GND-O

Need ext PWR source

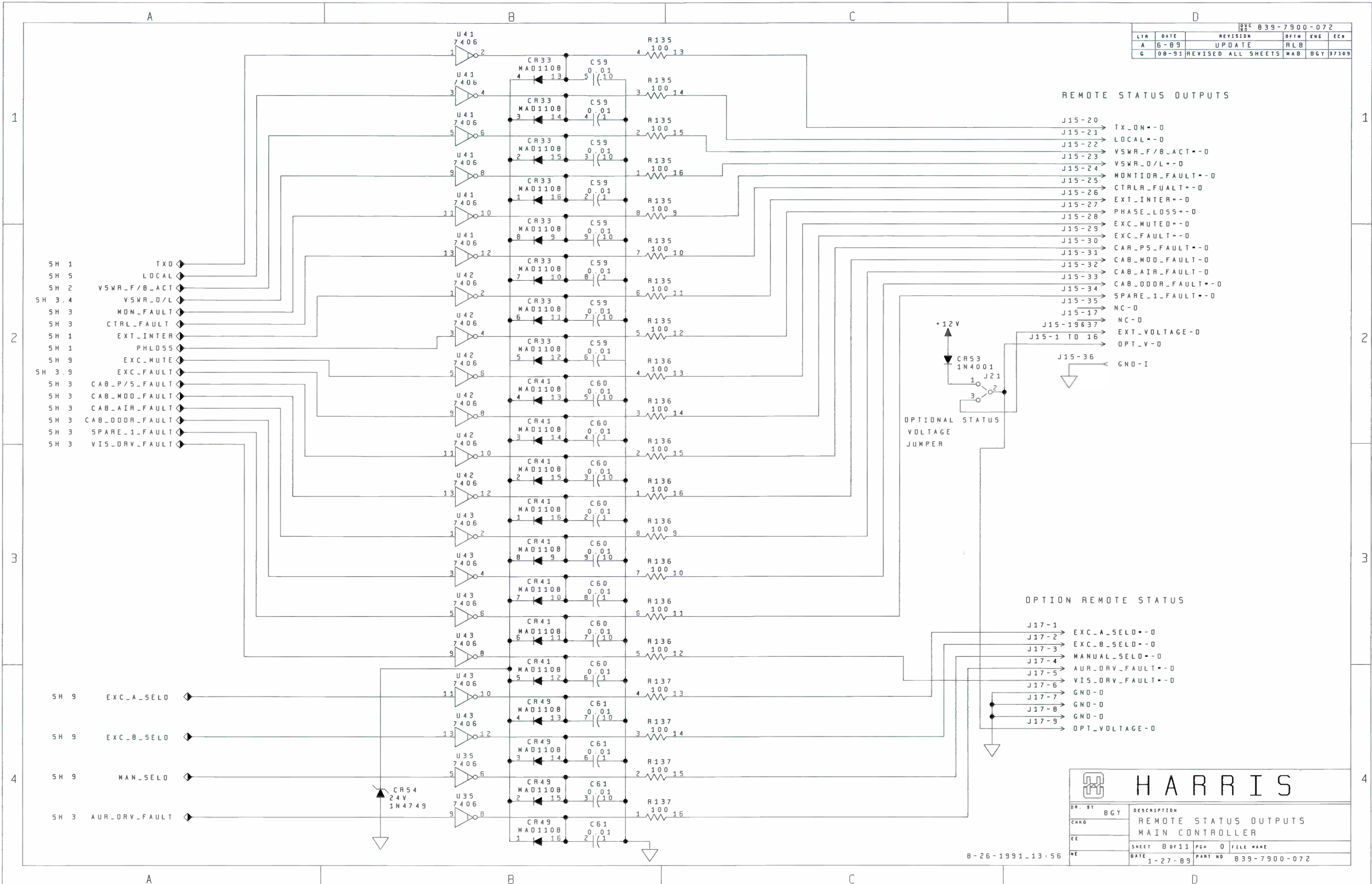


ALL IC POWERED FROM +12V & AGND

9-26-1997_13:46

HARRIS	
DR BY BGY	DESCRIPTION
CHKD	REMOTE ANALOG OUTPUTS
EE	MAIN CONTROLLER
RE	SHEET 7 OF 11
DATE 1-27-89	FILE NAME
PART NO 839-7900-072	

REV 839-7900-072					
LTR	DATE	REVISION	DTW	ENG	ECH
A	6-89	UPDATE	HLB		
G	08-91	REVISED ALL SHEETS	MAB	BGY	37109



REMOTE STATUS OUTPUTS

- J15-20 TX_ON--0
- J15-21 LOCAL--0
- J15-22 VSWR_F/B_ACT--0
- J15-23 VSWR_D/L--0
- J15-24 MONTIOR_FAULT--0
- J15-25 CTRLR_FAULT--0
- J15-26 EXT_INTER--0
- J15-27 PHASE_LOSS--0
- J15-28 EXC_MUTE--0
- J15-29 EXC_FAULT--0
- J15-30 CAR_PS_FAULT--0
- J15-31 CAB_MOD_FAULT--0
- J15-32 CAB_AIR_FAULT--0
- J15-33 CAB_DOOR_FAULT--0
- J15-34 SPARE_1_FAULT--0
- J15-35 NC-0
- J15-17 NC-0
- J15-19&37 EXT_VOLTAGE-0
- J15-1 TO 16 OPT_V-0
- J15-36 GND-I

OPTION REMOTE STATUS

- J17-1 EXC_A_SELD--0
- J17-2 EXC_B_SELD--0
- J17-3 MANUAL_SELD--0
- J17-4 AUR_DRV_FAULT--0
- J17-5 VIS_DRV_FAULT--0
- J17-6 GND-0
- J17-7 GND-0
- J17-8 GND-0
- J17-9 OPT_VOLTAGE-0

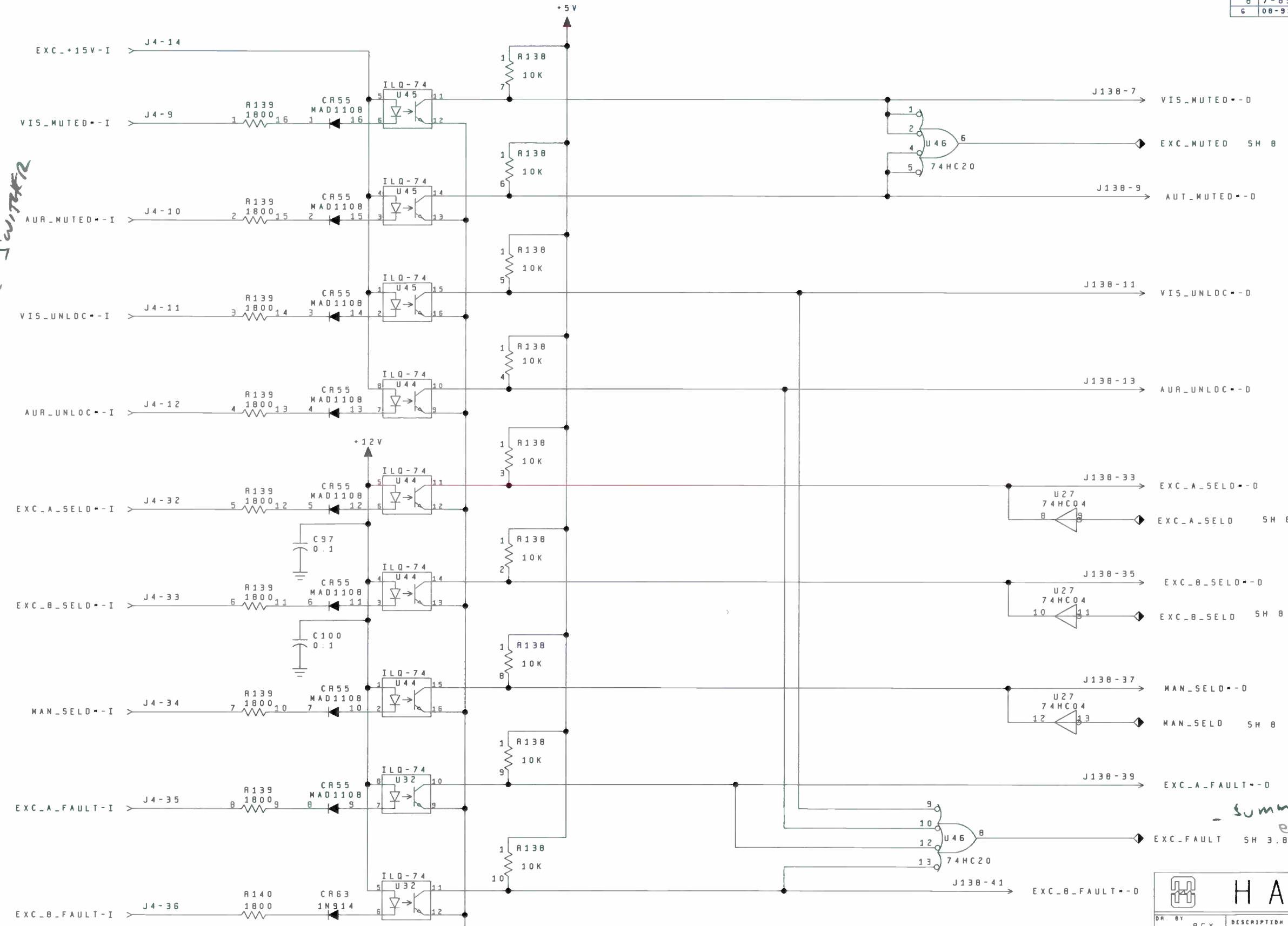
HARRIS

DR. BY	BGY	DESCRIPTION
CHKD		REMOTE STATUS OUTPUTS
EE		MAIN CONTROLLER
NE		
DATE	1-27-89	FILE NAME
PAGE	0	PART NO
		839-7900-072

B-26-1991-13-56

LTR		DATE	REVISION	DFTM	ENG	ECN
8		7-89	DEL. J4-37	RS		
6		08-91	REVISED ALL SHEETS	MAB	BGY	37109

*FROM
Exciter +
Exc Switcher*

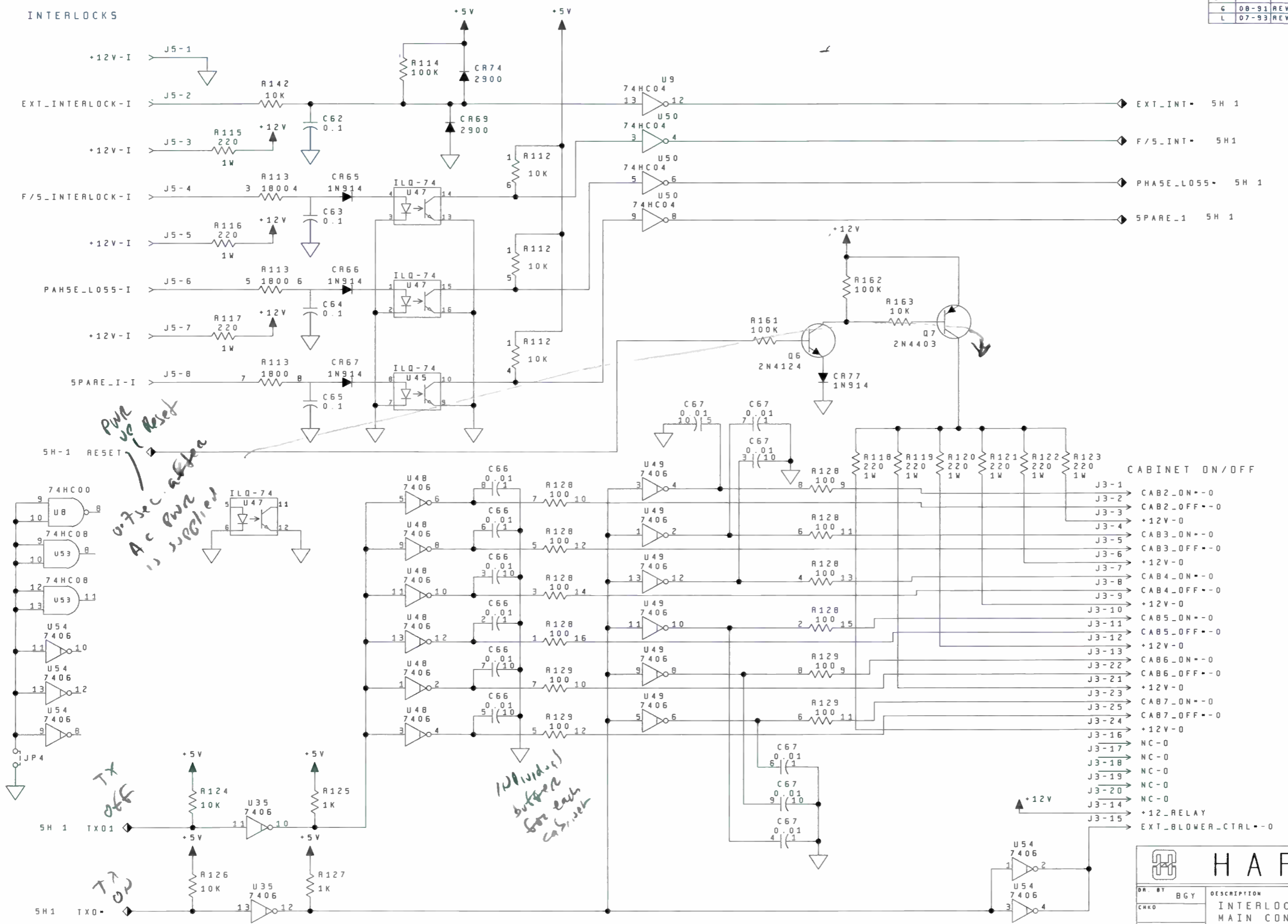


*- Summary Fault
exc fault*

DR. BY		BGY		DESCRIPTION	
CHKD				EXCITER/SWITCHER I/O MAIN CONTROLLER	
EE		SHEET 9 OF 11		PGH U FILE NAME	
ME		DATE 1-27-89		PART NO 839-7900-072	

9-26-1997-13-57

LTR		DATE	REVISION	OPN	ENG	ECH
G	08-91	REVISED ALL SHEETS	MAB	MAB	MAB	37109
L	07-93	REV J3				38654



*PWR vs Reset
0.7 sec. delay
A.C. PWR
is supplied*

TX OFF

TX ON

*100µF (1)
buffer
for each
cabinet*

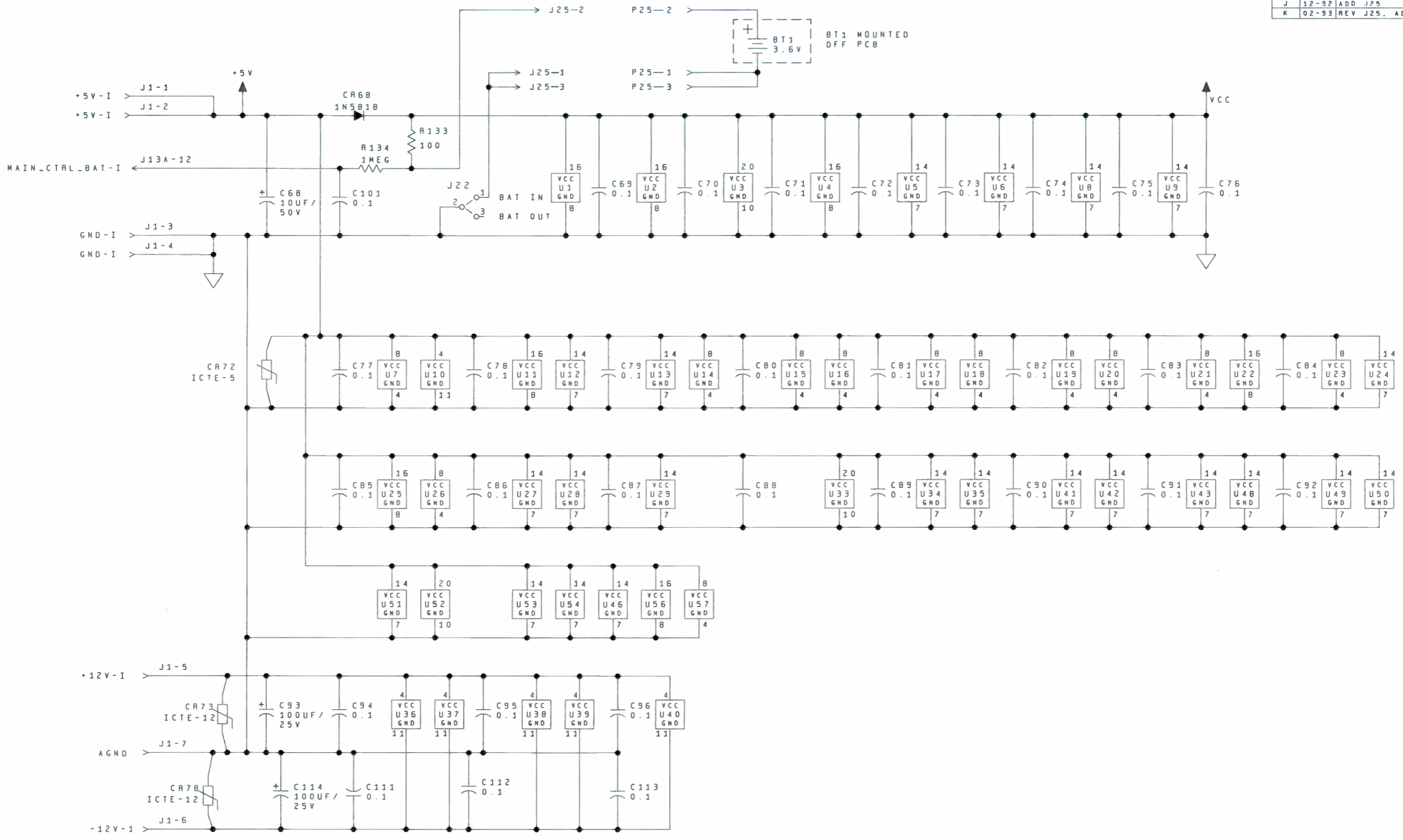
CABINET ON/OFF

- J3-1 CAB2_ON--0
- J3-2 CAB2_OFF--0
- J3-3 +12V-0
- J3-4 CAB3_ON--0
- J3-5 CAB3_OFF--0
- J3-6 +12V-0
- J3-7 CAB4_ON--0
- J3-8 CAB4_OFF--0
- J3-9 +12V-0
- J3-10 CAB5_ON--0
- J3-11 CAB5_OFF--0
- J3-12 +12V-0
- J3-13 CAB6_ON--0
- J3-22 CAB6_OFF--0
- J3-21 +12V-0
- J3-23 CAB7_ON--0
- J3-25 CAB7_OFF--0
- J3-24 +12V-0
- J3-16 NC-0
- J3-17 NC-0
- J3-18 NC-0
- J3-19 NC-0
- J3-20 NC-0
- J3-14 +12_RELAY
- J3-15 EXT_BLOWER_CTRL--0

HARRIS

DR. BY	BCY	DESCRIPTION
CHKD		INTERLOCK INPUTS MAIN CONTROLLER
EE		
WE		
SHEET 10 OF 11		PGM 0 FILE NAME
DATE	1-30-89	PART NO 839-7900-072

REV		839-7900-072			
LTR	DATE	REVISION	DFTH	ENG	ECW
J	12-92	ADD J25	MAB	MAB	38198
K	02-93	REV J25, ADD P25	MAB	MAB	38395

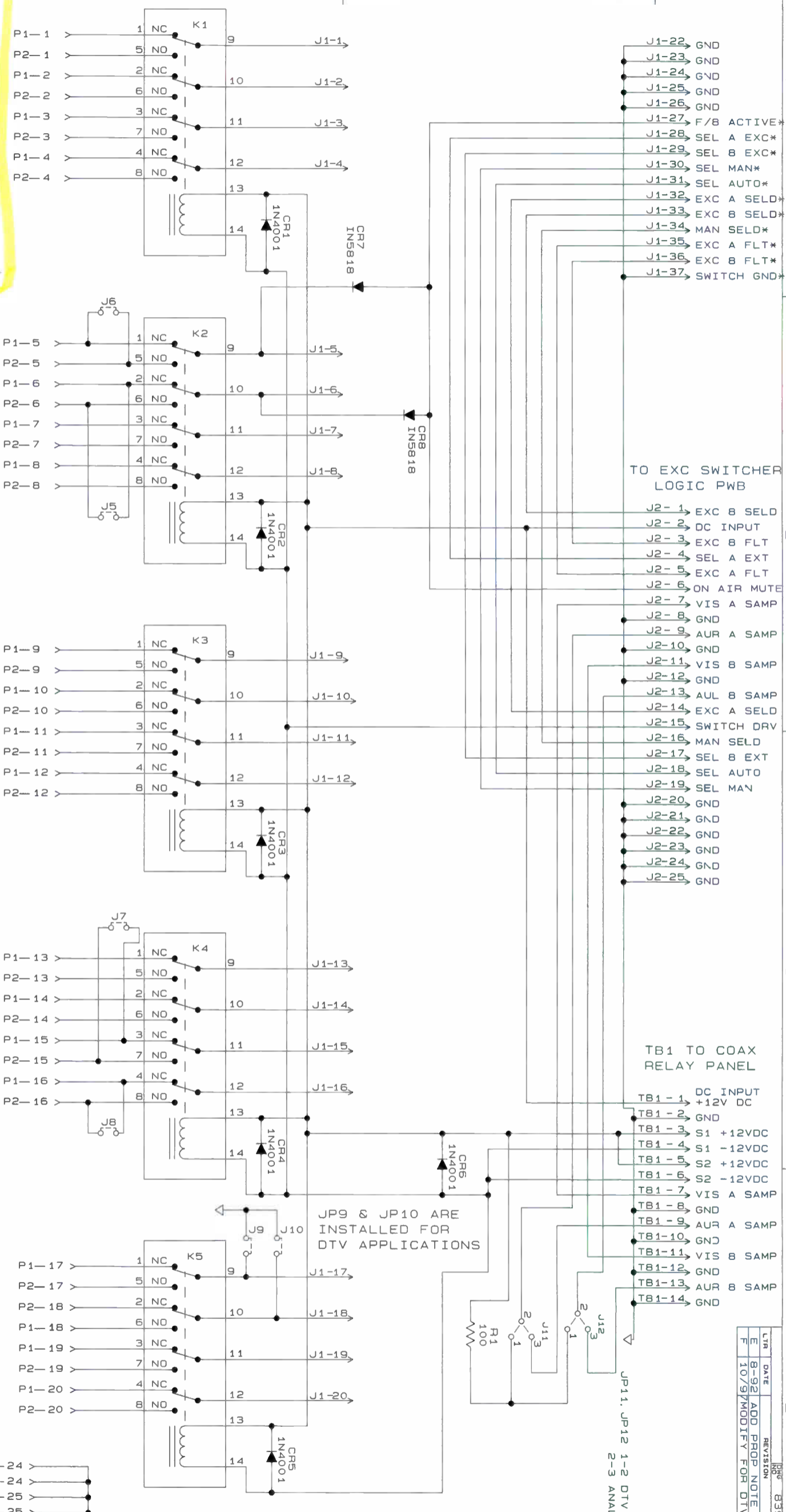


HARRIS

DR. BY	BGY	DESCRIPTION
CHKD		DC DISTRIBUTION MAIN CONTROLLER
EE		SHEET 11 OF 11 PGN 0 FILE NAME
WE		DATE 1-30-89 PART NO 839-7900-072

ANALOG HX-1V		
TO DISCRETE CONTROL	P1 HX-1V EXCITER A	P2 HX-1V EXCITER B
J1-1	1	VISUAL RAISE
J1-2	2	VISUAL LOWER
J1-3	3	AURAL RAISE
J1-4	4	AURAL LOWER
J1-5	5	AURAL MUTE
J1-6	6	VISUAL MUTE
J1-7	7	VISUAL SENSE
J1-8	8	AURAL SENSE
J1-9	9	VISUAL MUTED
J1-10	10	AURAL MUTED
J1-11	11	VISUAL UNLOCKED
J1-12	12	AURAL UNLOCKED
J1-13	13	DUAL CORRECTOR
J1-14	14	EXCITER +15V
J1-15	15	VISUAL VSWR
J1-16	16	AURAL VSWR
J1-17	17	SPARE
J1-18	18	SPARE
J1-19	19	SPARE
J1-20	20	COMPOSITE/MONO

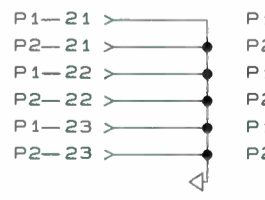
DTV CD-1		
TO DISCRETE CONTROL	P1 CD-1 EXCITER A	P2 CD-1 EXCITER B
J1-1	1	POWER RAISE
J1-2	2	POWER LOWER
J1-3	3	NC
J1-4	4	NC
J1-5	5	NC
J1-6	6	MUTE IN
J1-7	7	POWER SENSE
J1-8	8	NC
J1-9	9	MUTED
J1-10	10	NC
J1-11	11	UNLOCKED
J1-12	12	NC
J1-13	13	NC
J1-14	14	EXCITER +15V
J1-15	15	VSWR FOLDBACK
J1-16	16	NC
J1-17	17	RS232 ENABLE
J1-18	18	EQ RESET
J1-19	19	EQ HOLD
J1-20	20	NC



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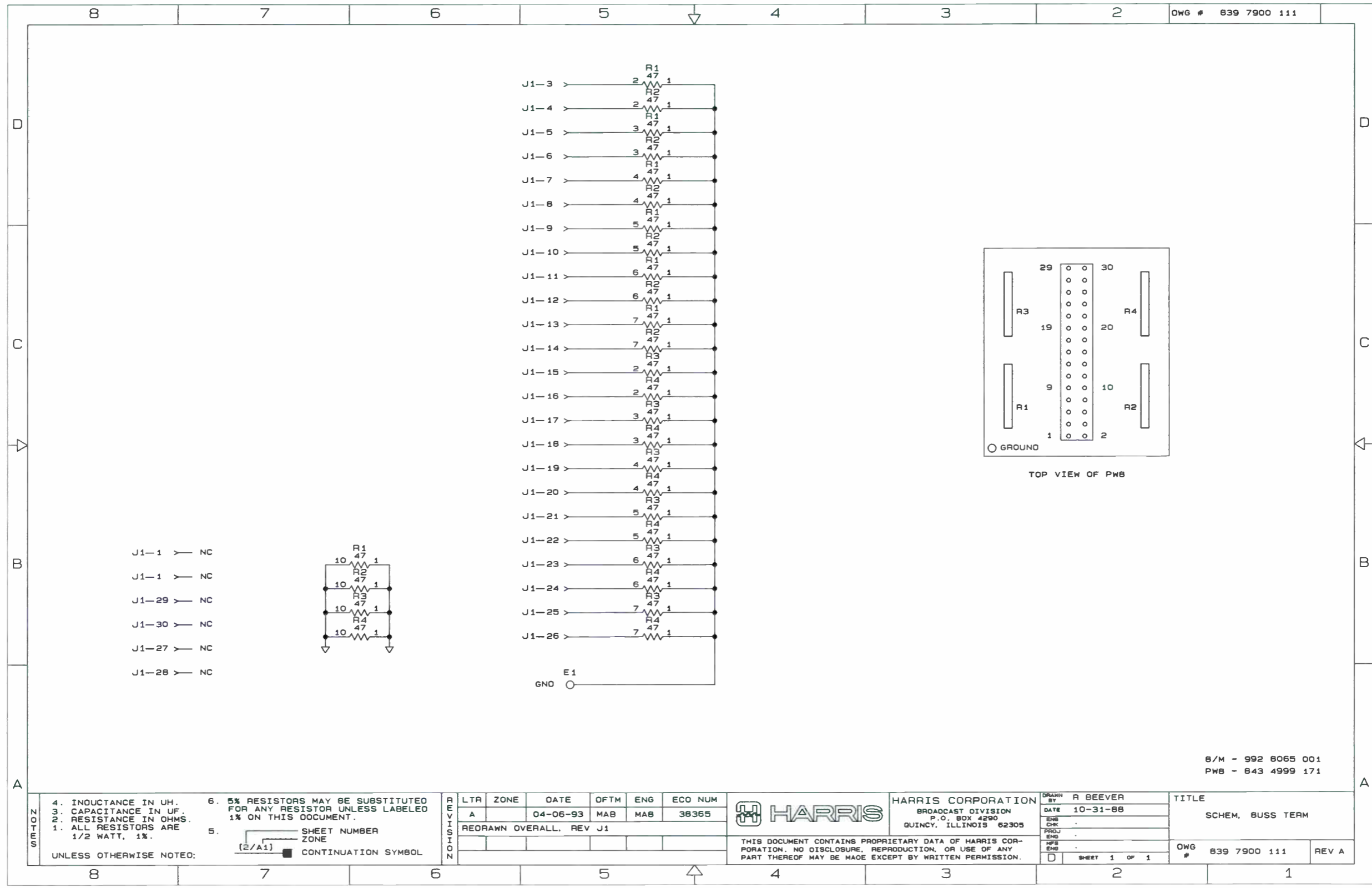
HARRIS

DR. BY RLB
 CHKD. SCHEM. EXCITER SWITCHER
 RELAY BOARD
 SHEET 1 OF 1 PGM. FILE NAME OBO. 1
 DATE 5-12-89 PART NO. 839-7900-080

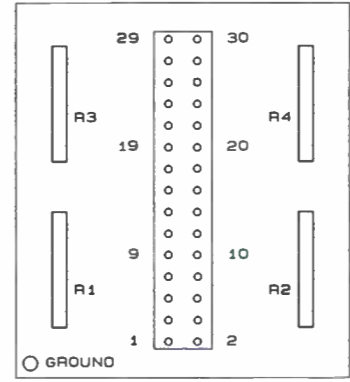
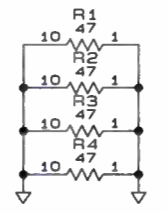


NOTE PINS 27 THRU 37 OF P1 AND P2 NOT CONNECTED
 NOTE PIN 21 OF J1 IS NOT CONNECTED

REV.	DATE	REVISION	DRM1	ENR	ECN
E	8-92	ADD PROP NOTE	DMS	18	130
F	10/97	MODIFY FOR DTV	DLN	CAN	42017

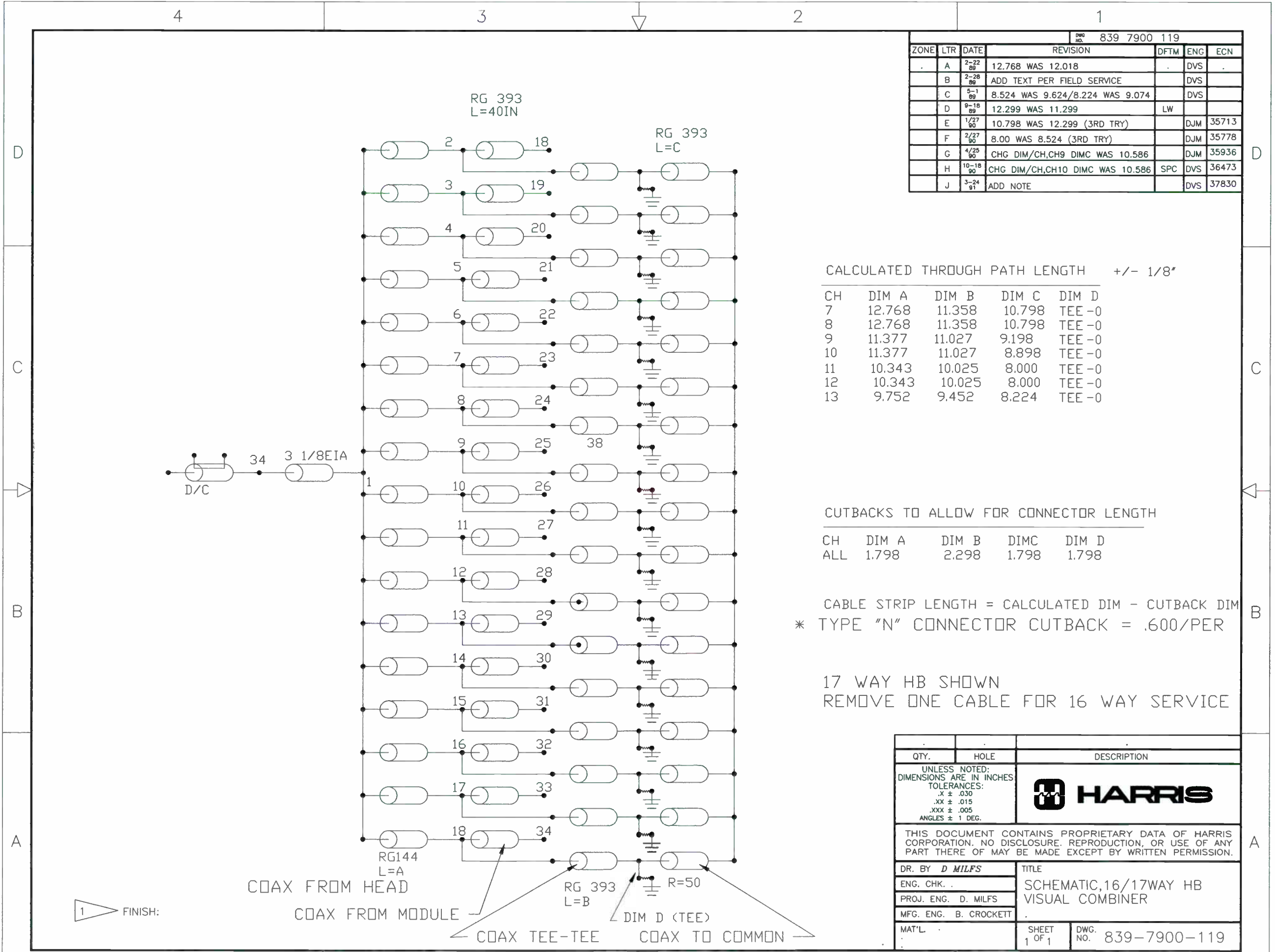


- J1-1 — NC
- J1-1 — NC
- J1-29 — NC
- J1-30 — NC
- J1-27 — NC
- J1-28 — NC



NOTES	4. INDUCTANCE IN UH.	6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.	REVISION	LTR	ZONE	DATE	OFTM	ENG	ECO NUM	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY	R BEEVER	TITLE SCHEM. BUSS TERM	
	3. CAPACITANCE IN UF.	5. SHEET NUMBER ZONE [2/A1] CONTINUATION SYMBOL		A		04-06-93	MAB	MAB	38365		DATE	10-31-88		
	2. RESISTANCE IN OHMS.			REDRAWN OVERALL, REV J1			ENG	CHK			DATE			
1. ALL RESISTORS ARE 1/2 WATT, 1%.	UNLESS OTHERWISE NOTED:										HPB	END		
													OWG # 839 7900 111	REV A

B/M - 992 8065 001
PWB - 843 4999 171



		839 7900 119				
ZONE	LTR	DATE	REVISION	DFTM	ENG	ECN
.	A	2-22 89	12.768 WAS 12.018	.	DVS	.
.	B	2-28 89	ADD TEXT PER FIELD SERVICE	.	DVS	.
.	C	5-1 89	8.524 WAS 9.624/8.224 WAS 9.074	.	DVS	.
.	D	9-18 89	12.299 WAS 11.299	.	LW	.
.	E	1/27 90	10.798 WAS 12.299 (3RD TRY)	.	DJM	35713
.	F	2/27 90	8.00 WAS 8.524 (3RD TRY)	.	DJM	35778
.	G	4/25 90	CHG DIM/CH,CH9 DIMC WAS 10.586	.	DJM	35936
.	H	10-18 90	CHG DIM/CH,CH10 DIMC WAS 10.586	.	SPC	36473
.	J	3-24 91	ADD NOTE	.	DVS	37830

CALCULATED THROUGH PATH LENGTH +/- 1/8"

CH	DIM A	DIM B	DIM C	DIM D
7	12.768	11.358	10.798	TEE -0
8	12.768	11.358	10.798	TEE -0
9	11.377	11.027	9.198	TEE -0
10	11.377	11.027	8.898	TEE -0
11	10.343	10.025	8.000	TEE -0
12	10.343	10.025	8.000	TEE -0
13	9.752	9.452	8.224	TEE -0

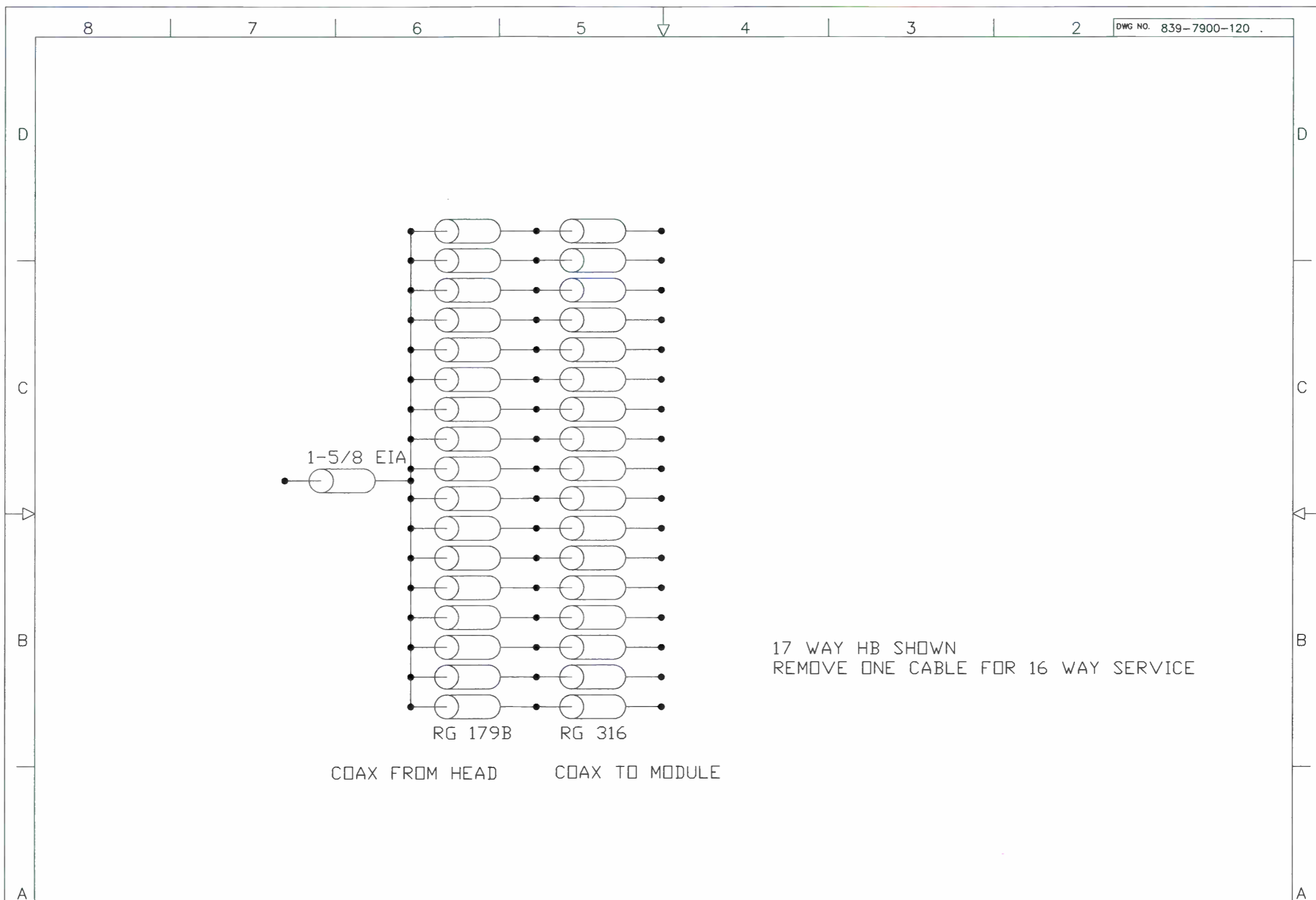
CUTBACKS TO ALLOW FOR CONNECTOR LENGTH

CH	DIM A	DIM B	DIM C	DIM D
ALL	1.798	2.298	1.798	1.798

CABLE STRIP LENGTH = CALCULATED DIM - CUTBACK DIM
 * TYPE "N" CONNECTOR CUTBACK = .600/PER

17 WAY HB SHOWN
 REMOVE ONE CABLE FOR 16 WAY SERVICE

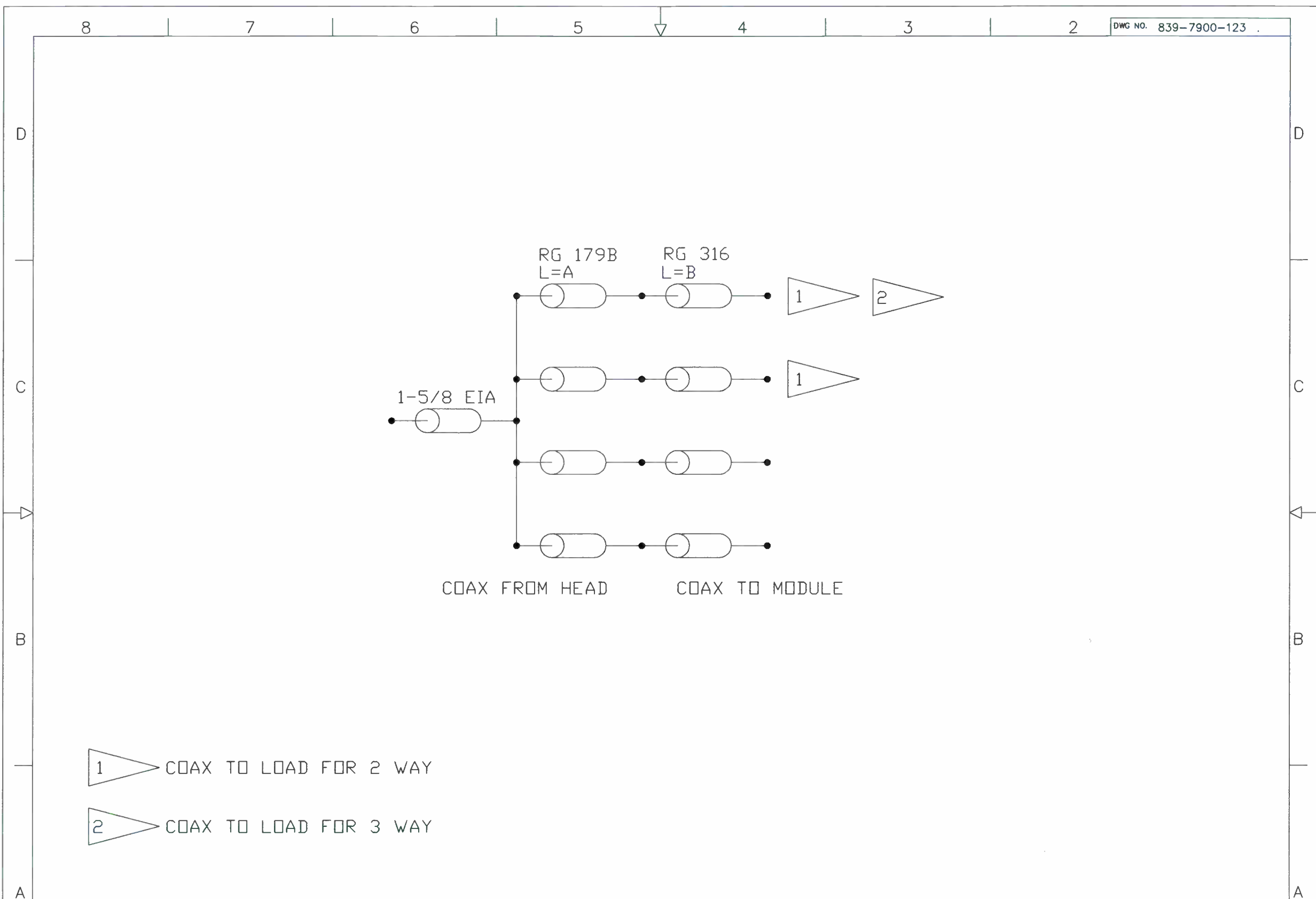
QTY.	HOLE	DESCRIPTION
UNLESS NOTED: DIMENSIONS ARE IN INCHES TOLERANCES: .X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG.		
THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THERE OF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.		
DR. BY D MILFS	TITLE	
ENG. CHK. .	SCHEMATIC, 16/17WAY HB	
PROJ. ENG. D. MILFS	VISUAL COMBINER	
MFG. ENG. B. CROCKETT		
MAT'L .	SHEET 1 OF 1	DWG. No. 839-7900-119



17 WAY HB SHOWN
REMOVE ONE CABLE FOR 16 WAY SERVICE

RG 179B RG 316
COAX FROM HEAD COAX TO MODULE

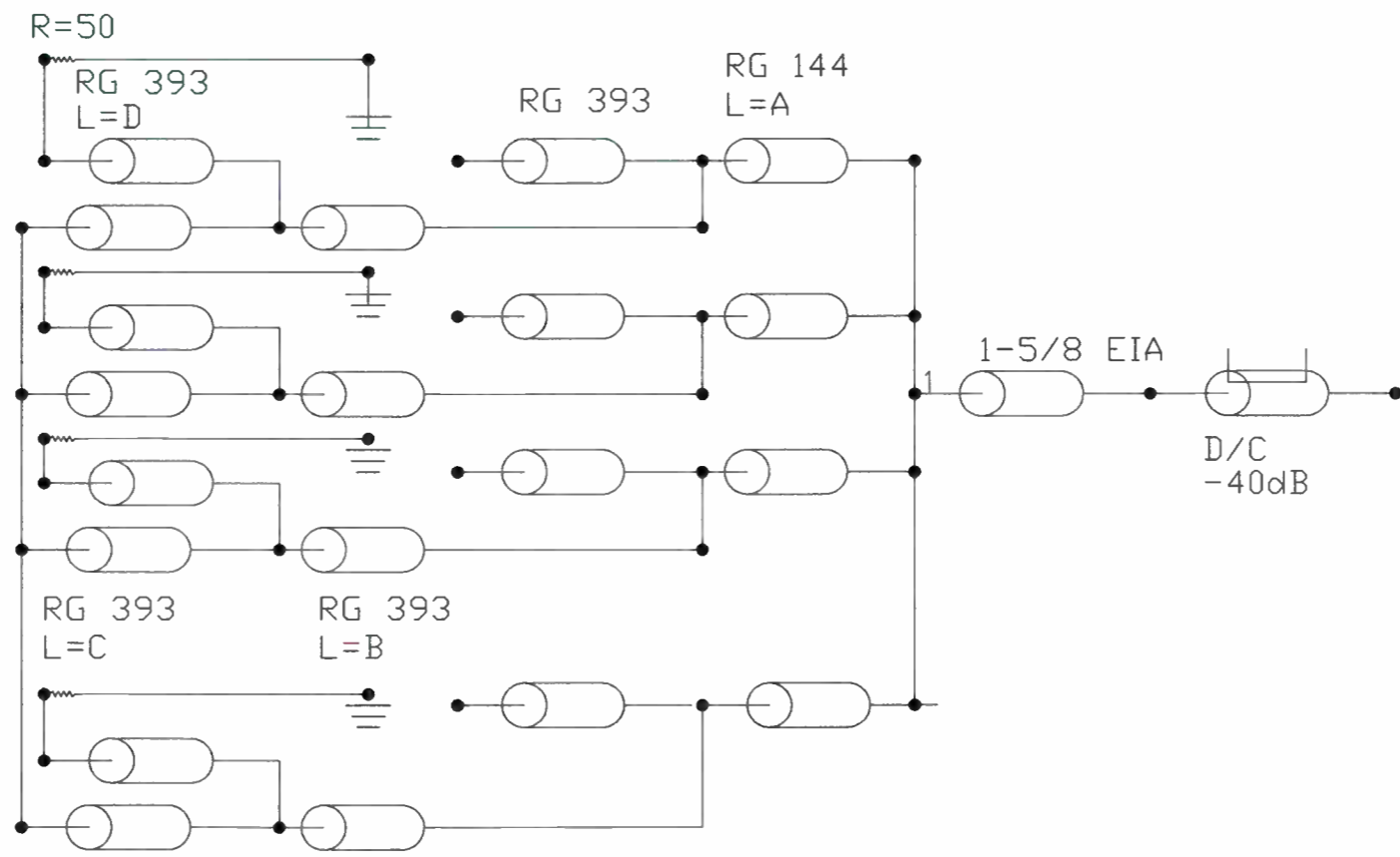
NOTES	LTR	ZONE	DATE	DFTM	ENG	ECO NBR		HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN	MILFS	TITLE SCHEM, 16/17 WAY HB VISUAL DIVIDER		
	D	.	03-21-91	SEC	SEC	37830			BY	-		DATE	-
	ADDED NOTES							ENG	-	PROJ	-		
	E	.	07-05-1994	SEC	SEC	39249	ENG	MILFS	ENG	-	MFG	CROCKETT	DWG NO. 839-7900-120	REV E
DELETED NOTES							THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.		MFG	CROCKETT	DWG NO. 839-7900-120	REV E	
							ENG	CROCKETT	C	SHEET 1 of 1			



1 COAX TO LOAD FOR 2 WAY

2 COAX TO LOAD FOR 3 WAY

NOTES	LTR	ZONE	DATE	DFTM	ENG	ECO NBR		HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY	MILFS	TITLE SCHEM, 2/3/4 WAY DIVIDER HIGH / LOW BAND AURAL
	C	.	07-05-1994	SEC	SEC	39249			DATE	-	
	DELETED NOTES							ENG	-	ENG	-
	D	.	07-18-1994	SEC	SEC	39374	THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.		PROJ ENG	MILFS	-
ADDED FLAG NOTES FOR 2 AND 3 WAY DIVIDERS							MFG ENG	CROCKETT	DWG NO.	839-7900-123	REV D
							ENG	C	SHEET 1 of 1		



NOTES

REV	DATE	BY	CHK	ENG	ECO NBR
E	07-05-1994	SEC	SEC		39249
DELETED NOTES					
F	07-19-1994	SEC	SEC		39373
ADDED L=A/B/C OR D NOTE					



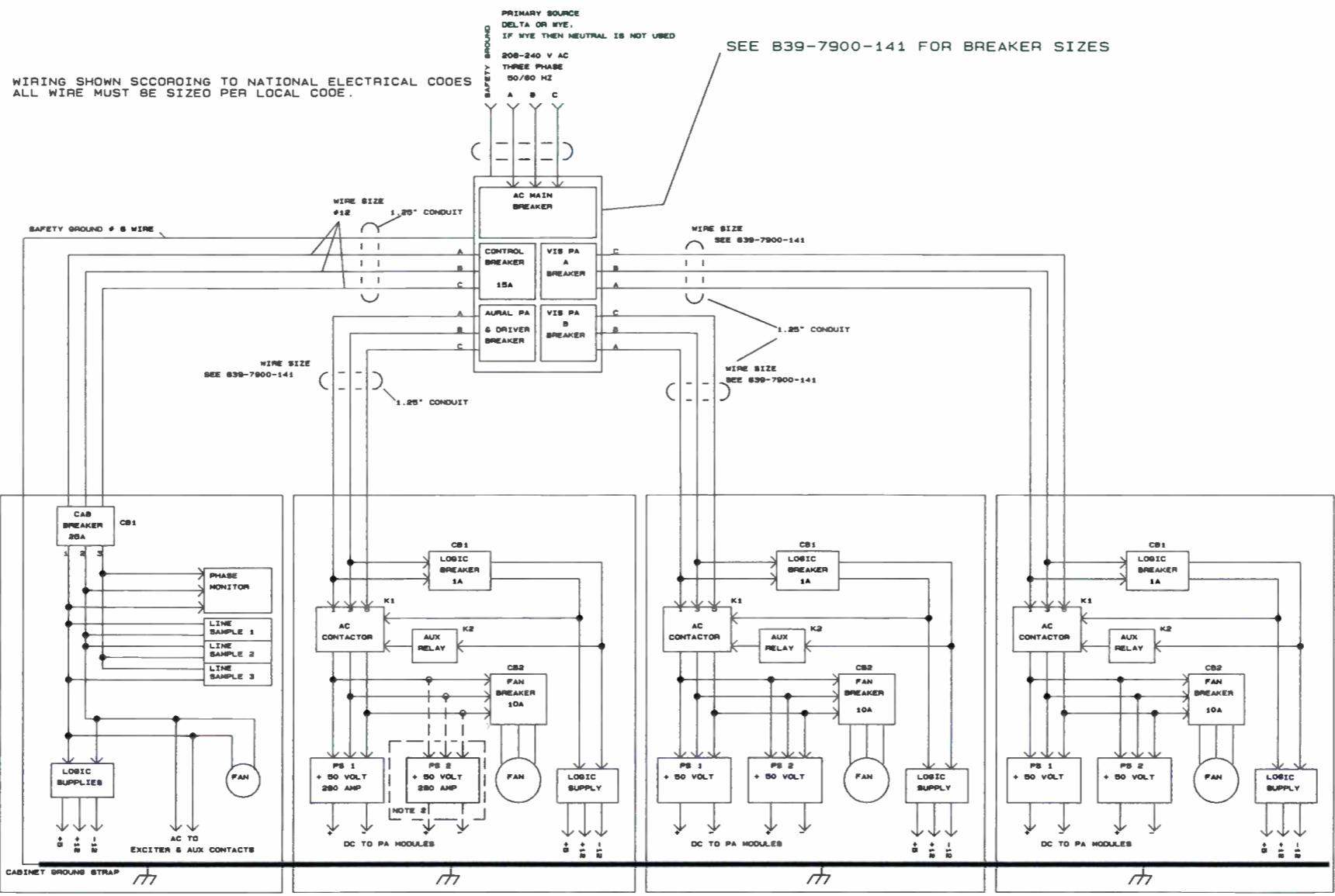
HARRIS CORPORATION
BROADCAST DIVISION
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY	MILFS
DATE	-
ENG	-
CHK	-
PROJ	-
ENG	MILFS
MFG	CROCKETT
ENG	
C	SHEET 1 OF 1

TITLE
SCHEM, 4WAY COMBINER
HIGH / LOW BAND
-
DWG NO. 839-7900-124

REV F

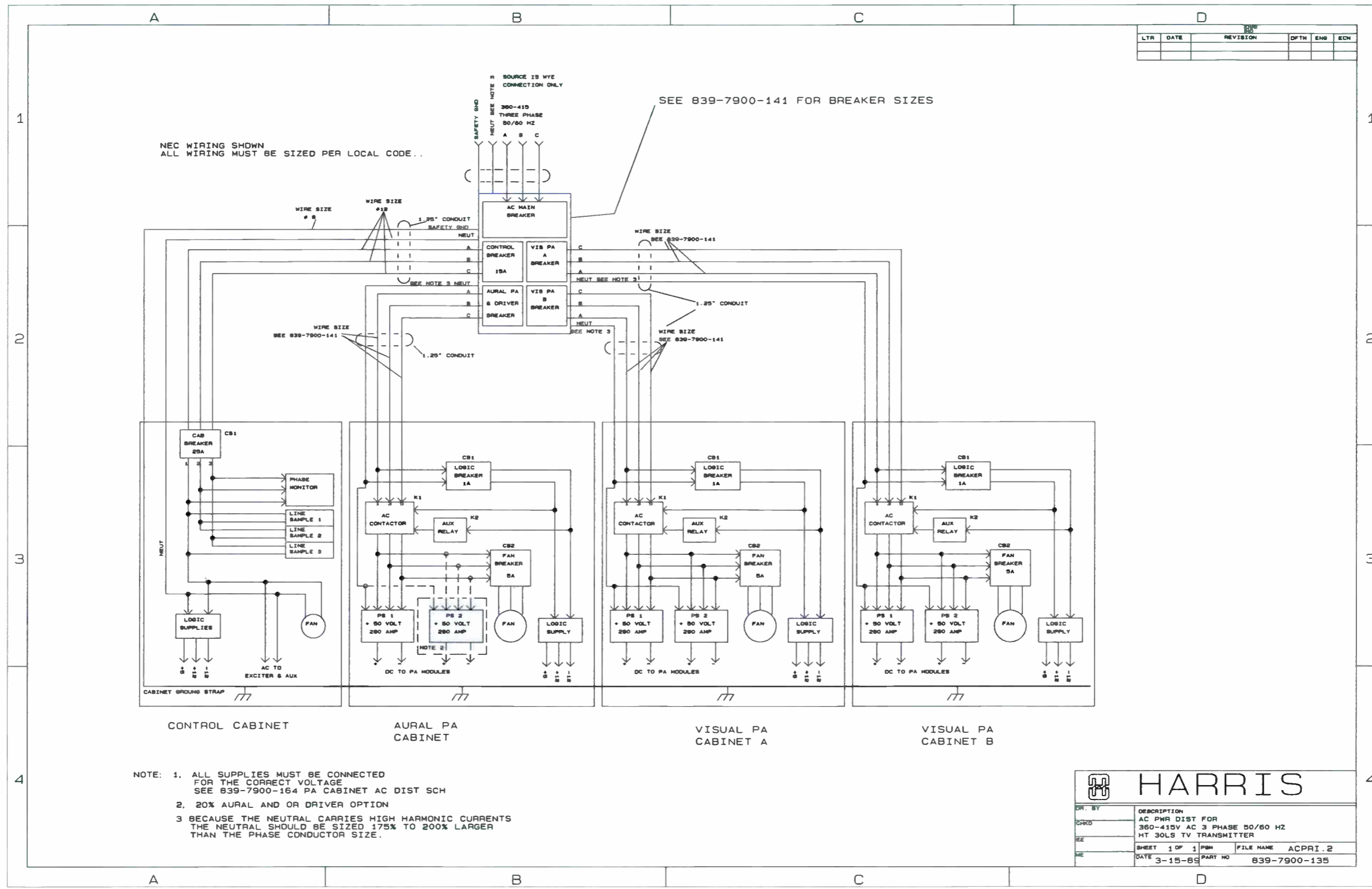
REVISED		839 7900 134	
LTR	DATE	REVISION	DFTN
A	7/89	REVISED	RS



CONTROL CABINET AURAL PA CABINET VISUAL PA CABINET A VISUAL PA CABINET B

NOTE: 1. ALL SUPPLIES MUST BE CONNECTED FOR THE CORRECT VOLTAGE SEE 839-7900-163 PA CABINET AC DISTRIBUTION SCHEMATIC
 2. 20% AURAL AND OR DRIVER OPTION

HARRIS	
DR. BY	DESCRIPTION
CHRD	AC PWR DISTRIBUTION FOR 208-240V AC 3 PHASE 50/60 HZ HT 30LS/HS
REV	
SHEET 1 OF 1	FILE NAME ACPR1.1
DATE 3-15-89	PART NO 839-7900-134



LTR	DATE	REVISION	OPN	ENR	EDN

NEC WIRING SHOWN
ALL WIRING MUST BE SIZED PER LOCAL CODE..

SEE 839-7900-141 FOR BREAKER SIZES

- NOTE: 1. ALL SUPPLIES MUST BE CONNECTED FOR THE CORRECT VOLTAGE SEE 839-7900-164 PA CABINET AC DIST SCH
2. 20% AURAL AND OR DRIVER OPTION
3 BECAUSE THE NEUTRAL CARRIES HIGH HARMONIC CURRENTS THE NEUTRAL SHOULD BE SIZED 175% TO 200% LARGER THAN THE PHASE CONDUCTOR SIZE.

HARRIS

DR. BY	DESCRIPTION
CRKD	AC PWR DIST FOR
	360-415V AC 3 PHASE 50/60 HZ
	HT 30LS TV TRANSMITTER
SHEET 1 OF 1	FILE NAME ACPRI.2
DATE 3-15-69	PART NO 839-7900-135

LTR	DATE	REVISION	DPTH	ENR	ECN
B	2/90	CLARIFICATION	LW		86732
C	5/92	ADDED 20KW POWER	BMP	BMP	87861

COUNT OF 50 VOLT POWER SUPPLIES
IN TRANSMITTER PER POWER LEVEL.

POWER LEVEL	* % AURAL	BAND	HARRIS PART #	# OF 50V PWR SUPP	SEE #1 PA CABINET BREAKERS REQUIRED
1KW	10/20	LB	994 9199 001	1	1
	10/20	HB	994 9200 001	1	1
2KW	10/20	LB	994 9226 001	1	1
	10/20	HB	994 9227 001	1	1
5KW	10/20	LB	994 9212 001	2	1
	10/20	HB	994 9211 001	2	1
10KW	10	LB	994 9228 001	2	1
	.	HB	994 9229 001	2	1
20KW	10	LB	994 9236 001	4	2
	.	HB	994 9237 001	4	2
15KW	10	LB	994 9184 001	3	2
	20	LB	994 9184 001	4	2
	10PA/V	LB	994 9184 001	4	2
	10	HB	994 9185 001	3	2
	20	HB	994 9185 001	4	2
	10PV	HB	994 9185 001	4	2
30KW	10	LB	994 9141 001	5	3
	20	LB	994 9141 001	6	3
	10PA	LB	994 9141 001	6	3
	10PV	LB	994 9141 001	6	3
	10PA/V	LB	994 9141 001	6	3
	20PV	LB	994 9141 001	6	3
	10	HB	994 9152 001	6	3
	20	HB	994 9152 001	6	3
	10PA	HB	994 9152 001	6	3
	10PV	HB	994 9152 001	6	3
45KW	10	LB	994 9186 001	8	4
	20	LB	994 9186 001	9	5
	10	HB	994 9187 001	8	4
	20	HB	994 9187 001	9	5
60KW	10	LB	994 9188 001	12	6
	20	LB	994 9188 001	12	6
	10	HB	994 XXXX 001	12	6
	20	HB	994 XXXX 001	12	6

* (P=PARALLEL, A=AURAL, V=VISUAL, LB=LOW BAND, HB=HIGH BAND)

THE 3 PHASE LINE CURRENTS AT FULL LOAD ARE:

VOLTS	50 VOLT SUPPLY BREAKER RATINGS			
	SINGLE SUPPLY	DUAL SUPPLY	SINGLE SUPPLY	DUAL SUPPLY
208	39A	78A	50**	100**
220	37A	74A	50**	100**
240	34A	68A	45**	90**
360	23A	45A	30**	60**
380	22A	43A	30**	60**
415	20A	40A	30**	60**

**= THE ABOVE BREAKER RATINGS MAY BE INCREASED BY 50% (TO 150 AMPS MAX) IN ORDER TO FIND A BREAKER WITH THE CORRECTLY RATED INRUSH CURRENT.

*1 - THE CONTROL CAB USES A 15 AMP BREAKER FOR 208-240, AND A 10 AMP BREAKER FOR 360

THE 208-240 VOLT PA CABINET BREAKERS MUST WITHSTAND AN INRUSH CURRENT OF 800 AMPS FOR 3 CYCLES PER POWER SUPPLY, AND THE CONTINUOUS CURRENTS RATED AT 130% TO PREVENT NUISANCE TRIPS. CABINETS WITH DUAL SUPPLIES MULTIPLY INRUSH AND CONTINUOUS CURRENTS BY TWO.

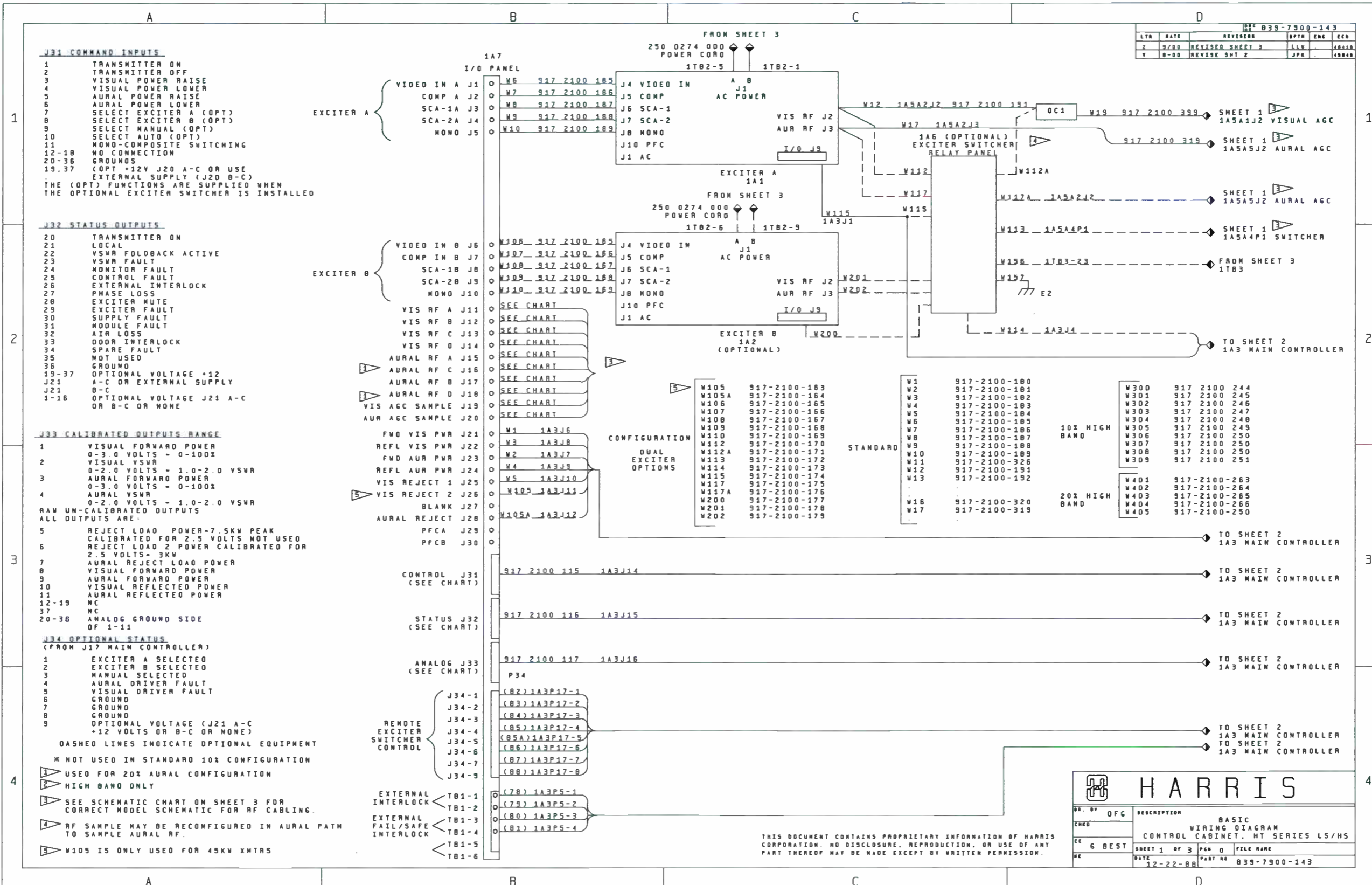
THE 360-415 VOLT PA CABINET BREAKERS MUST WITHSTAND AN INRUSH CURRENT OF 465 AMPS FOR 3 CYCLES PER POWER SUPPLY, AND THE CONTINUOUS CURRENTS RATED AT 130% TO PREVENT NUISANCE TRIPS. CABINETS WITH DUAL SUPPLIES MULTIPLY INRUSH AND CONTINUOUS CURRENTS BY TWO.

IN ALL CASES THE MAIN BREAKER MUST WITHSTAND THE TOTAL COMBINED INRUSH AND CONTINUOUS CURRENT OF ALL THE BREAKERS.

ALL WIRE SIZES BETWEEN THE BREAKER PANEL AND THE TRANSMITTER MUST CONFORM TO LOCAL WIRING CODES, OR NATIONAL ELECTRICAL CODES AT A MINIMUM.

HARRIS

DR. BY	BGY	DESCRIPTION
CARD		RECOMMENDED AC CIRCUIT BREAKER SIZES FOR 1 TO 60 KW HT TV TRANSMITTERS
RE	G BEST	SHEET 1 OF 1 PGM 1 FILE NAME
NO	D MILFS	DATE 2-2-89 PART NO 839-7900-141



LTN	DATE	REVISION	BY	CHKD	ENG	ECH
1	9/20	REVISED SHEET 3	LLK			ARSR
2	8-00	REVISE SHT 2	JPK			ARSR

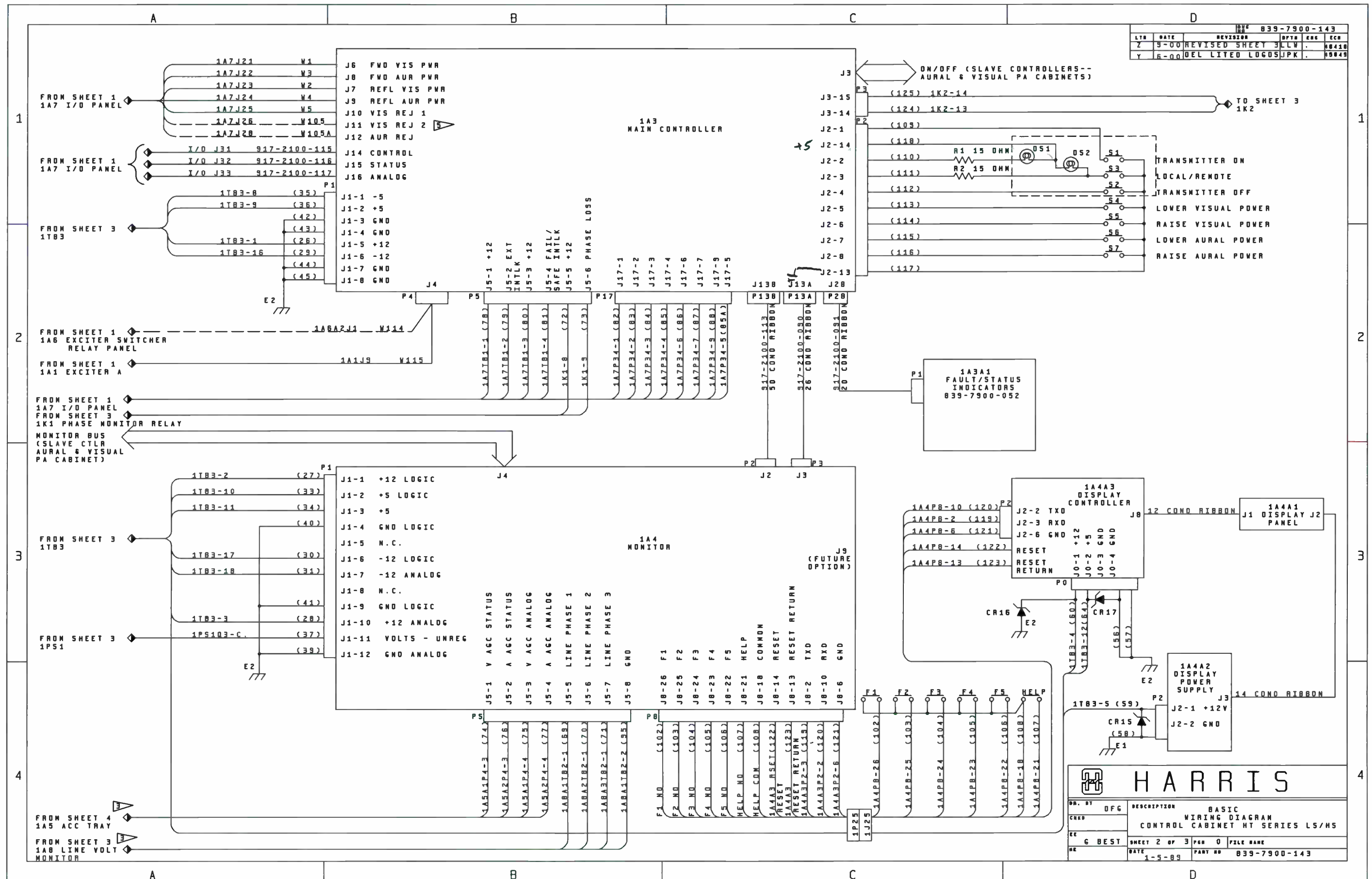
Wire No.	Part No.	Description
W1	917-2100-180	
W2	917-2100-181	
W3	917-2100-182	
W4	917-2100-183	
W5	917-2100-184	
W6	917-2100-185	
W7	917-2100-186	
W8	917-2100-187	
W9	917-2100-188	
W10	917-2100-189	
W11	917-2100-326	
W12	917-2100-191	
W13	917-2100-192	
W14	917-2100-174	
W15	917-2100-175	
W16	917-2100-176	
W17	917-2100-177	
W18	917-2100-178	
W19	917-2100-179	
W20	917-2100-180	
W21	917-2100-181	
W22	917-2100-182	
W23	917-2100-183	
W24	917-2100-184	
W25	917-2100-185	
W26	917-2100-186	
W27	917-2100-187	
W28	917-2100-188	
W29	917-2100-189	
W30	917-2100-244	
W31	917-2100-245	
W32	917-2100-246	
W33	917-2100-247	
W34	917-2100-248	
W35	917-2100-249	
W36	917-2100-250	
W37	917-2100-251	
W38	917-2100-252	
W39	917-2100-253	
W40	917-2100-254	
W41	917-2100-255	
W42	917-2100-256	
W43	917-2100-257	
W44	917-2100-258	
W45	917-2100-259	



DR. BY	OFC	DESCRIPTION	BASIC WIRING DIAGRAM CONTROL CABINET, HT SERIES LS/MS
CHKD			
EE	G BEST	SHEET 1 OF 3	PER 0 FILE NAME
RE		DATE 12-22-88	PART NO 839-7900-143

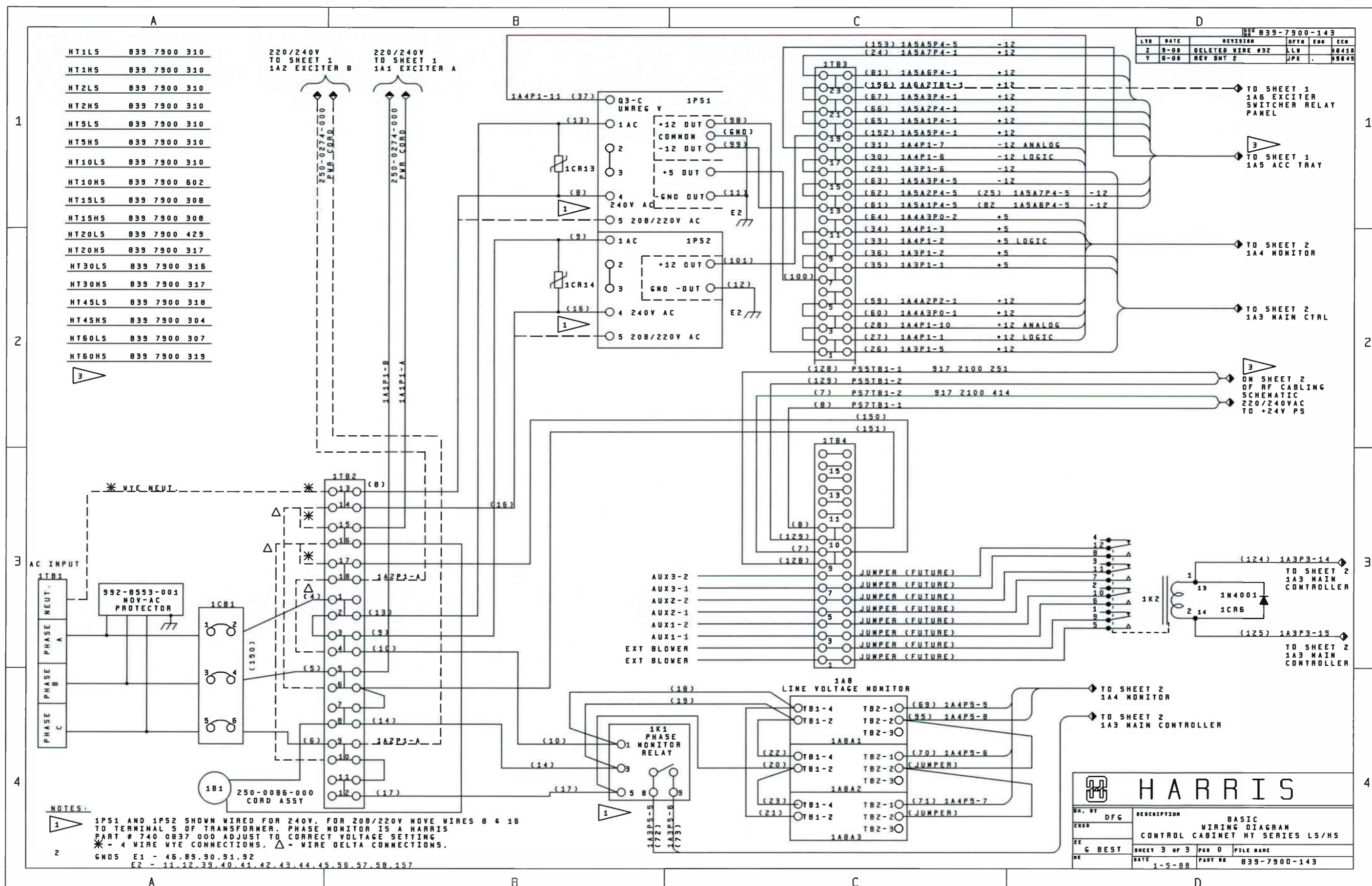
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LTN	DATE	REVISED	BY	CHK	ECN
Z	9-00	REVISED SHEET 3	LLV		88418
Y	6-00	DEL LITED LOGS	JPK		88419



HT1L5	839 7900 310
HT1H5	839 7900 310
HT2L5	839 7900 310
HT2H5	839 7900 310
HT5L5	839 7900 310
HT5H5	839 7900 310
HT10L5	839 7900 310
HT10H5	839 7900 602
HT15L5	839 7900 308
HT15H5	839 7900 308
HT20L5	839 7900 429
HT20H5	839 7900 317
HT30L5	839 7900 316
HT30H5	839 7900 317
HT45L5	839 7900 318
HT45H5	839 7900 304
HT60L5	839 7900 307
HT60H5	839 7900 319

REV 839-7900-143					
LTR	DATE	REVISION	DFTR	ENG	ECN
Z	9-00	DELETED WIRE #32	LLW		80418
Y	8-00	REV SMT 2	JPK		80849



NOTES:

1 1P51 AND 1P52 SHOWN WIRED FOR 240V. FOR 208/220V MOVE WIRES 8 & 16 TO TERMINAL 5 OF TRANSFORMER. PHASE MONITOR IS A HARRIS PART # 740 0837 000 ADJUST TO CORRECT VOLTAGE SETTING

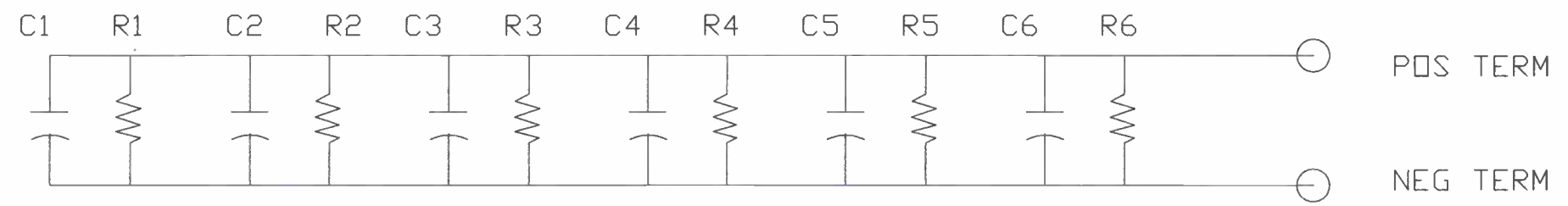
2 * - 4 WIRE WYE CONNECTIONS, Δ - WIRE DELTA CONNECTIONS.

GNDS E1 - 46.89.90.91.92
E2 - 11.12.33.40.41.42.43.44.45.56.57.58.157

HARRIS

DR. BY	DFG	DESCRIPTION	BASIC WIRING DIAGRAM
CHKD			CONTROL CABINET HT SERIES LS/HS
EE	G BEST	SHEET 3 OF 3	PER 0 FILE NAME
RE	DATE	1-5-88	PART NO 839-7900-143

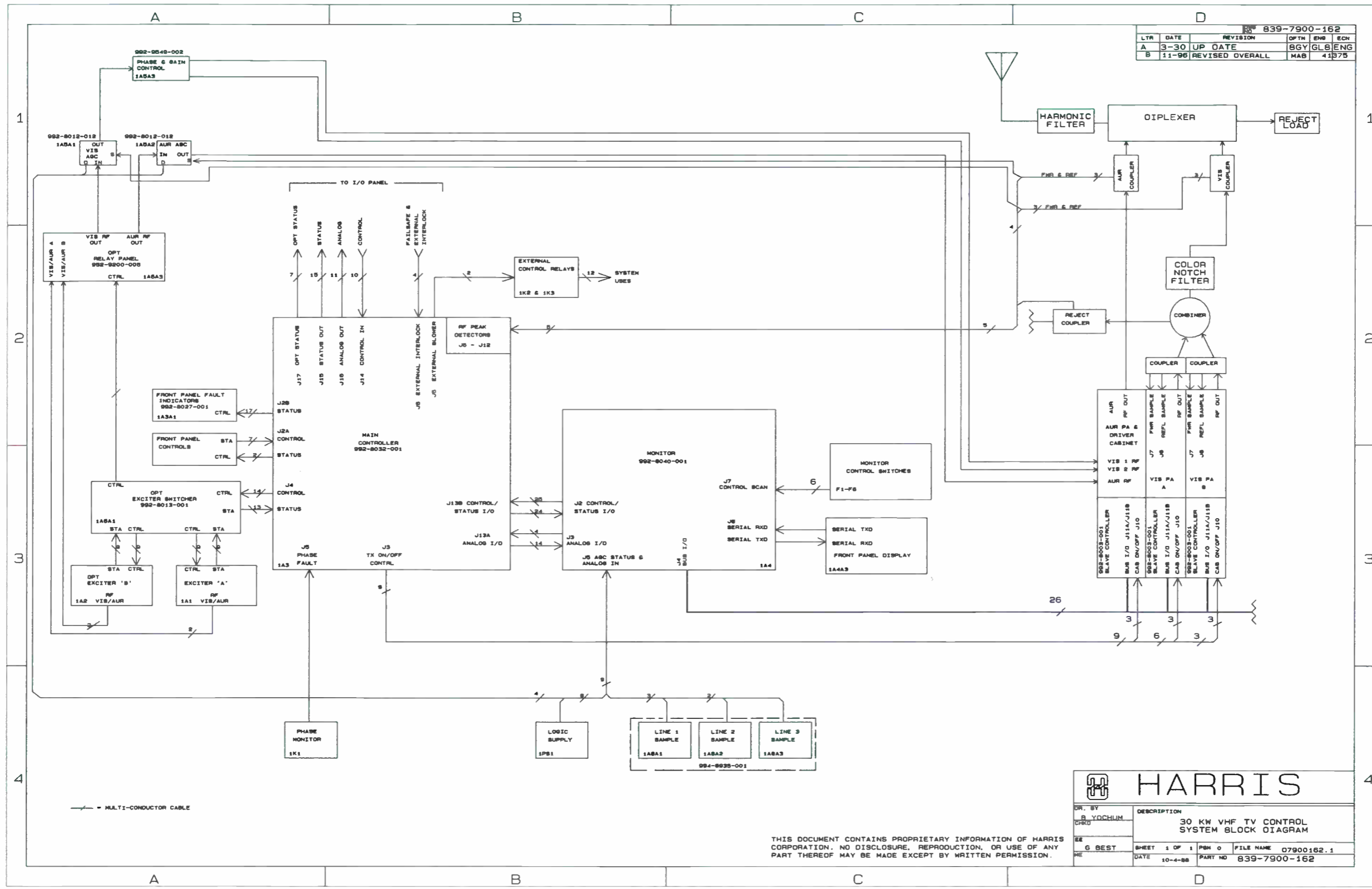
DWG. NO. 839 7900 159			DFTM	ENG	ECN
ZONE	LTR	DATE	REVISION		
.	A	3-25-96	CHANGE C1-C6 NOTE		41140
			DFTM	DFD	



C1-C6 240,000 MICROFARD 60 VOLT
R1-R6 150 OHM, 20 WATT

1 FINISH:

QTY.	HOLE	DESCRIPTION
UNLESS NOTED: DIMENSIONS ARE IN INCHES TOLERANCES: .X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG.		HARRIS
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DR. BY D. MILFS	TITLE	
ENG. CHK. .	SCHEM CAP BOARD	
PROJ. ENG. D. MILFS		
MFG. ENG. B. CROCKETT		
MAT'L. .	SHEET 1 OF 1	DWG. NO. 839-7900-159



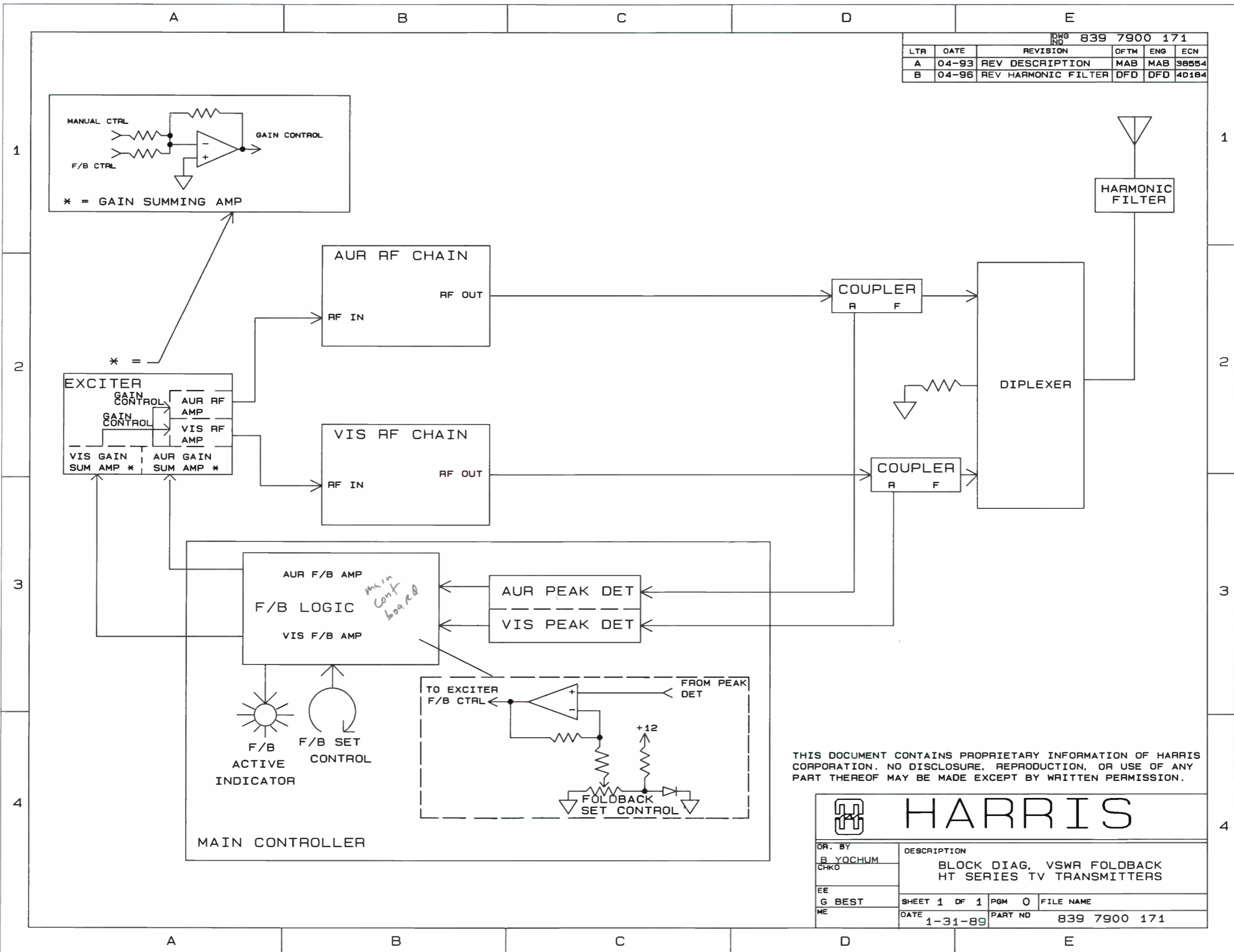
LTR		DATE	REVISION	OPN	ENR	ECN
A		3-30	UP DATE	8GY	GLB	ENG
B		11-96	REVISED OVERALL	MAB	41875	

HARRIS


DR. BY B YOCHUM	DESCRIPTION 30 KW VHF TV CONTROL SYSTEM BLOCK DIAGRAM
CRD	
EE G BEST	SHEET 1 OF 1 PBN 0 FILE NAME 07900162.1
RE	DATE 10-4-88 PART NO 839-7900-162

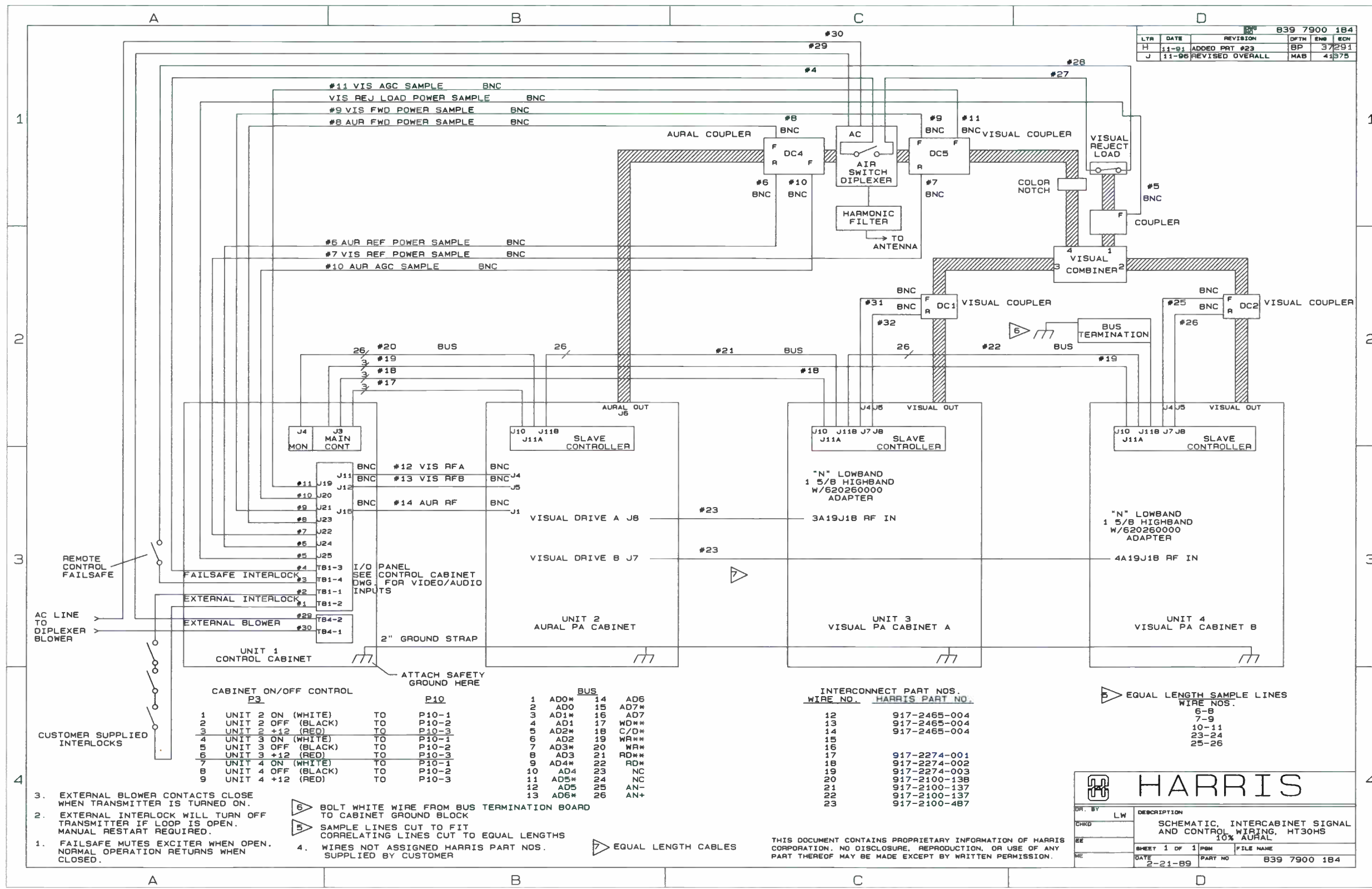
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REV NO		839 7900 171			
LTR	DATE	REVISION	OFTM	ENG	ECN
A	04-93	REV DESCRIPTION	MAB	MAB	38554
B	04-96	REV HARMONIC FILTER	DFD	DFD	40184



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 HARRIS	
OR. BY B YOCHUM CHKO	DESCRIPTION BLOCK DIAG, VSWR FOLDBACK HT SERIES TV TRANSMITTERS
EE G BEST	SHEET 1 OF 1 PGM 0 FILE NAME
ME	DATE 1-31-89 PART NO 839 7900 171



		839 7900 1B4	
LTR	DATE	REVISION	BY
H	11-91	ADDED PRT #23	BP
J	11-96	REVISED OVERALL	MAB

CABINET ON/OFF CONTROL

P9		TO	P10
1	UNIT 2 ON (WHITE)	TO	P10-1
2	UNIT 2 OFF (BLACK)	TO	P10-2
3	UNIT 2 +12 (RED)	TO	P10-3
4	UNIT 3 ON (WHITE)	TO	P10-1
5	UNIT 3 OFF (BLACK)	TO	P10-2
6	UNIT 3 +12 (RED)	TO	P10-3
7	UNIT 4 ON (WHITE)	TO	P10-1
8	UNIT 4 OFF (BLACK)	TO	P10-2
9	UNIT 4 +12 (RED)	TO	P10-3

BUS

AD0*	AD1*	AD2*	AD3*	AD4*	AD5*	AD6*	AD7*	AD8*	AD9*	AD10*	AD11*	AD12*	AD13*	AD14*	AD15*	AD16*	AD17*	AD18*	AD19*	AD20*	AD21*	AD22*	AD23*	AD24*	AD25*	AD26*
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	

INTERCONNECT PART NOS.

WIRE NO.	HARRIS PART NO.
12	917-2465-004
13	917-2465-004
14	917-2465-004
15	
16	
17	917-2274-001
18	917-2274-002
19	917-2274-003
20	917-2100-138
21	917-2100-137
22	917-2100-137
23	917-2100-487

EQUAL LENGTH SAMPLE LINES WIRE NOS. 6-8, 7-9, 10-11, 23-24, 25-26

- EXTERNAL BLOWER CONTACTS CLOSE WHEN TRANSMITTER IS TURNED ON.
- EXTERNAL INTERLOCK WILL TURN OFF TRANSMITTER IF LOOP IS OPEN. MANUAL RESTART REQUIRED.
- FAILSAFE MUTES EXCITER WHEN OPEN. NORMAL OPERATION RETURNS WHEN CLOSED.

- BOLT WHITE WIRE FROM BUS TERMINATION BOARD TO CABINET GROUND BLOCK
- SAMPLE LINES CUT TO FIT CORRELATING LINES CUT TO EQUAL LENGTHS
- WIRES NOT ASSIGNED HARRIS PART NOS. SUPPLIED BY CUSTOMER

EQUAL LENGTH CABLES

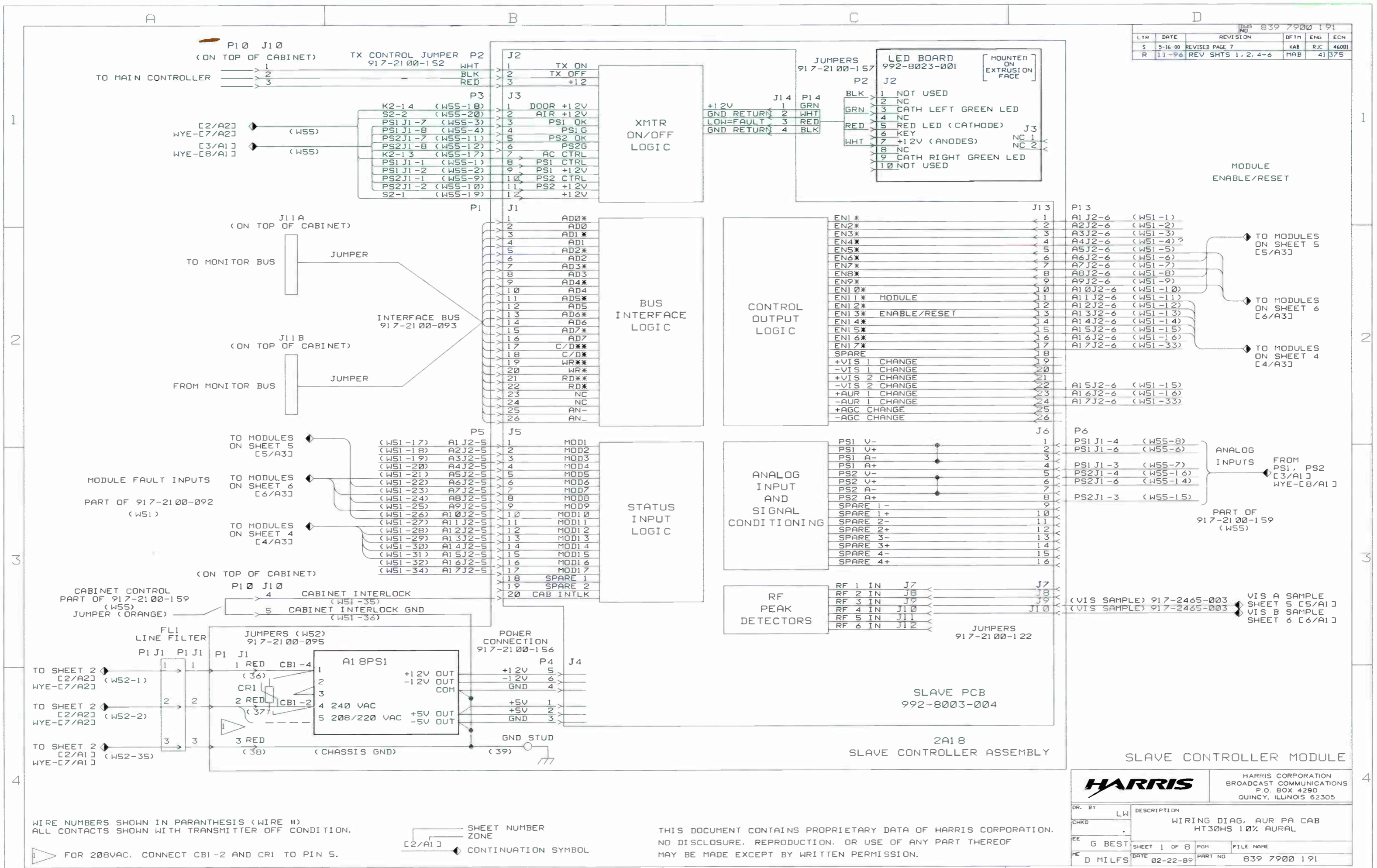
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HARRIS

DR. BY LW DESCRIPTION SCHEMATIC, INTERCABINET SIGNAL AND CONTROL WIRING, HT30HS 10% AURAL

DATE 2-21-89 PART NO 839 7900 1B4

LTR	DATE	REVISION	DFTM	ENG	ECN
S	5-16-00	REVISED PAGE 7	KAB	RJC	46081
R	11-96	REV SHTS 1, 2, 4-6	MAB		41375



REV 839 7900 191		REV	DATE	REVISION	DFTM	ENG	ECN
S	5-16-80	REVISED PAGE 7			KAB	RJC	46081
R	11-96	REV TOP VIEW			MAB		41375

CUSTOMER SUPPLIED
INPUT LINES
3 PHASE AC

C - PHASE 1
B - PHASE 2
A - PHASE 3

MOV ASSEMBLY
992-8553-001

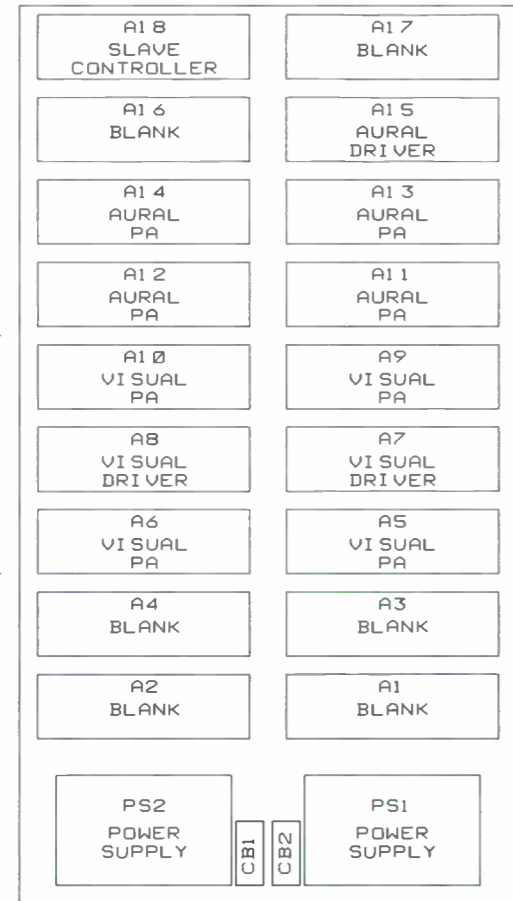
K1
AC
CONTACTOR

VOLT	FREQ	PART NUMBER
208V	60HZ	570-031 4-000
220V	50HZ	570-031 4-002
240V	60HZ	570-031 4-002
240V	50HZ	570-031 4-003
220V	60HZ	570-031 4-008

TO A18FL1 SHEET 1 ← C1/A4J (W52-35) GND STUD NEAR K2

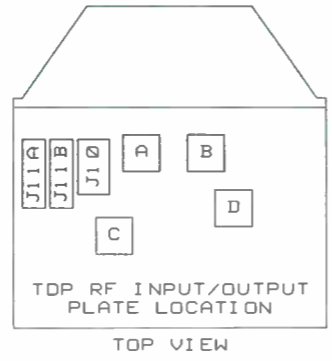
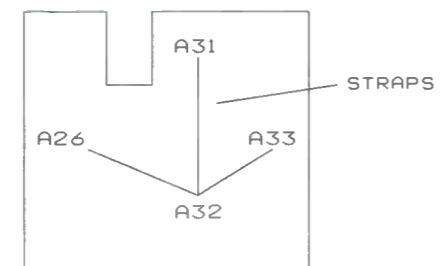
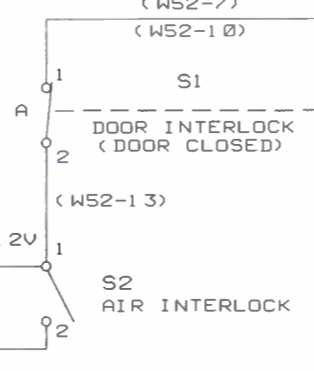
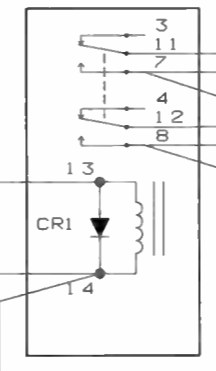
TO A18FL1 SHEET 1 ← C1/A4J (W52-1)
TO A18FL1 SHEET 1 ← C1/A4J (W52-2)
TO A18J3 SHEET 1 ← C1/A1J (W55-17-20)

AURAL PA CABINET
30KW 10% AURAL

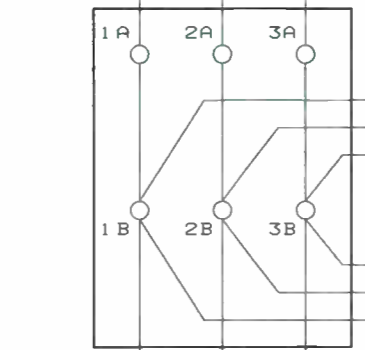


VISUAL RF
DRIVE CHAIN

VISUAL RF
DRIVE CHAIN

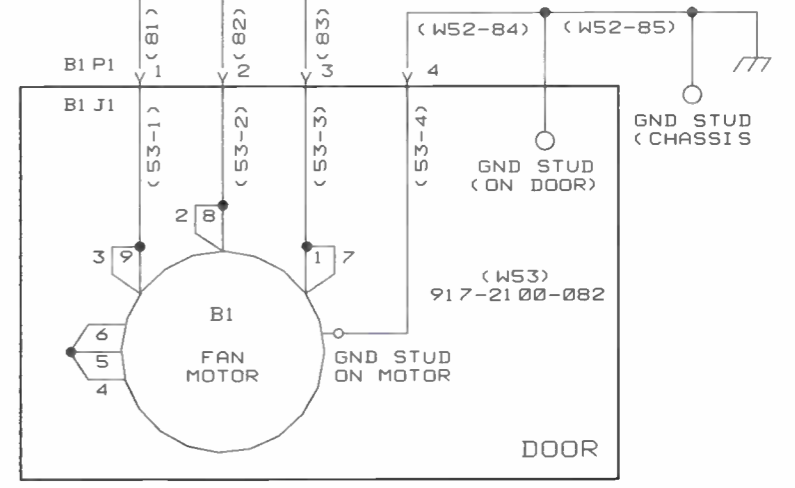
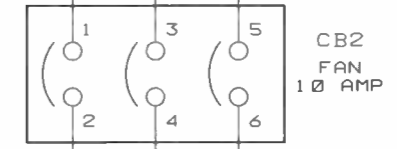


A = 1 5/8" AURAL
B = 839-7900-063
C = 839-7900-435
D = 839-7900-063



TO SHEET 3
PS1
C3/A3J

TO SHEET 3
PS2
C3/A3J

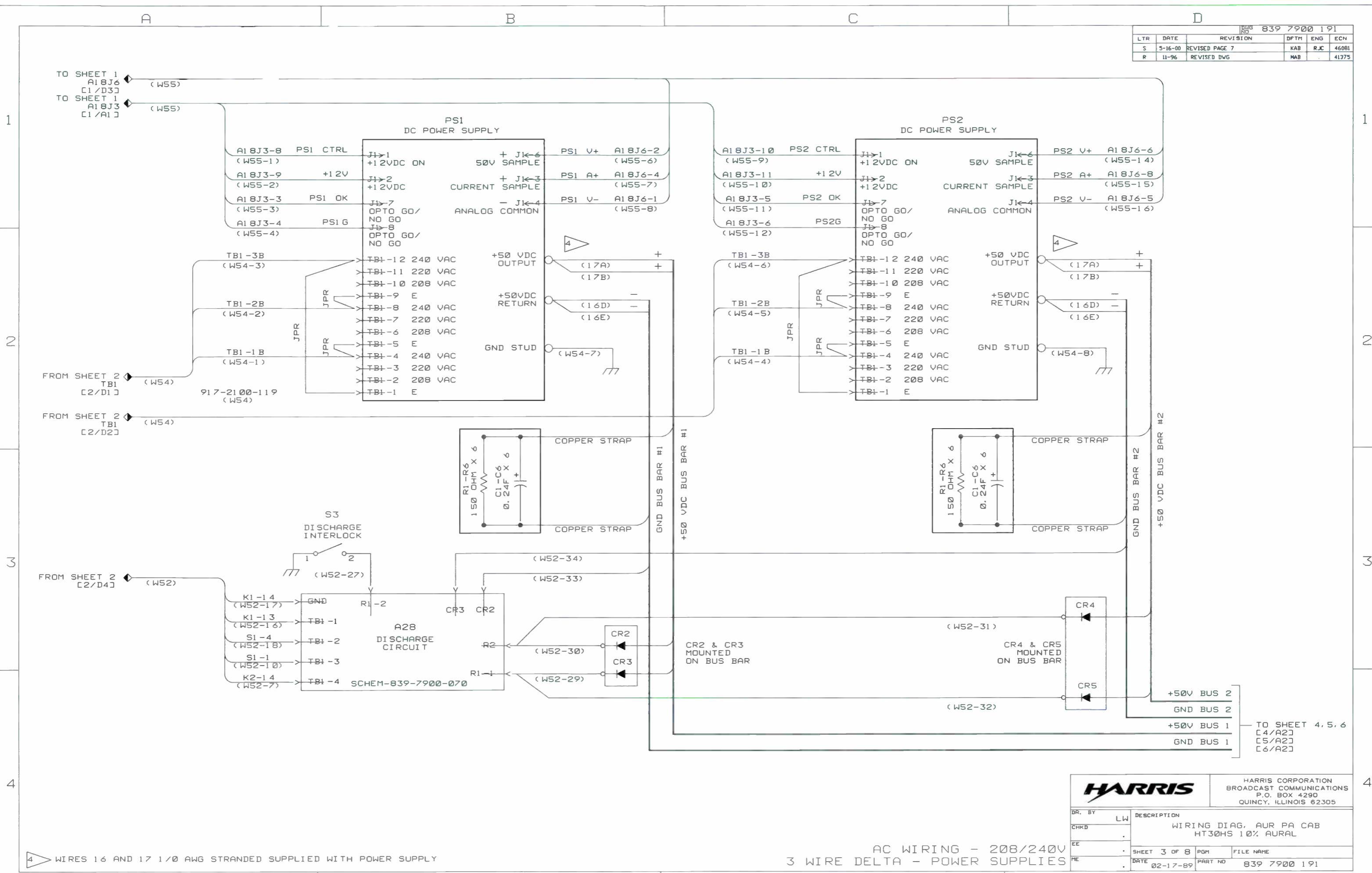


TO SHEET 3
DISCHARGE
CIRCUIT A28
C3/A3J

AC WIRING - 208/240V
3 WIRE DELTA

HARRIS		HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305	
DR. BY	LW	DESCRIPTION	WIRING DIAG. AUR PA CAB HT30HS 10% AURAL
CHKD	.	SHEET 2 OF 8	PGH FILE NAME
EE	.	DATE 02-17-89	PART NO 839 7900 191
ME	.		

REV. NO. 839 7900 191		REVISION		DFTM	ENG	ECN
LTR	DATE	REVISION		KAB	RJC	46081
S	5-16-00	REVISED PAGE 7		MAB		41375
R	11-96	REVISED DVG				

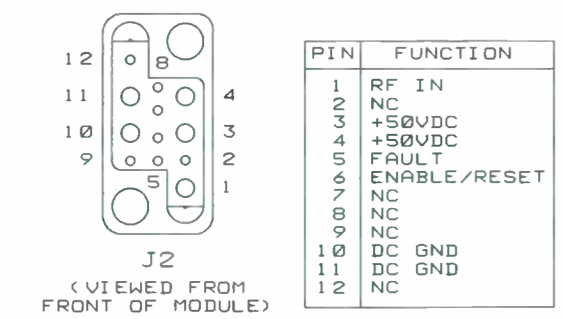
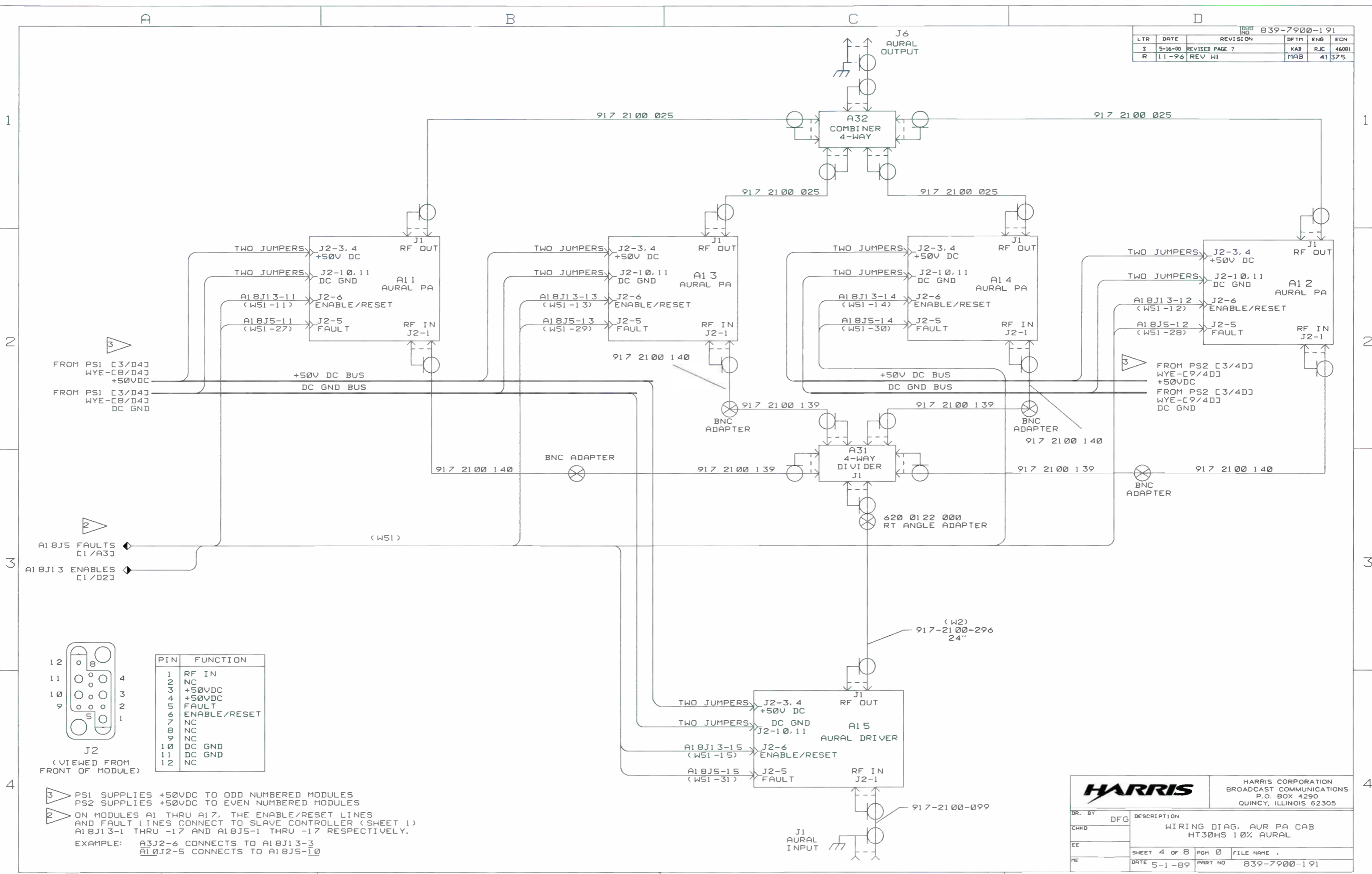


WIRES 16 AND 17 1/0 AWG STRANDED SUPPLIED WITH POWER SUPPLY

AC WIRING - 208/240V
3 WIRE DELTA - POWER SUPPLIES

HARRIS		HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305	
DR. BY	LW	DESCRIPTION	WIRING DIAG. AUR PA CAB HT30HS 10% AURAL
CHKD	.	SHEET 3 OF 8	PGM FILE NAME
EE	.	DATE 02-17-89	PART NO 839 7900 191
ME	.		

REV NO 839-7900-191		LTR	DATE	REVISION	DFTM	ENG	ECN
S	5-16-00	REVISED PAGE 7			KAB	RJC	46081
R	11-96	REV W1			MAB	41	375



3 PS1 SUPPLIES +50VDC TO ODD NUMBERED MODULES
PS2 SUPPLIES +50VDC TO EVEN NUMBERED MODULES

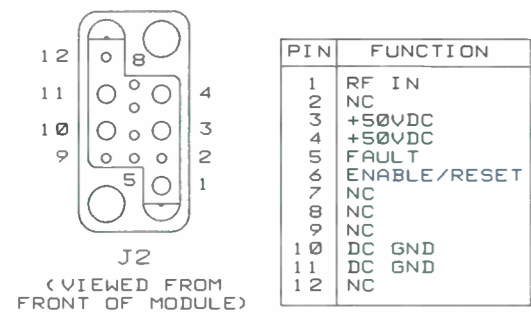
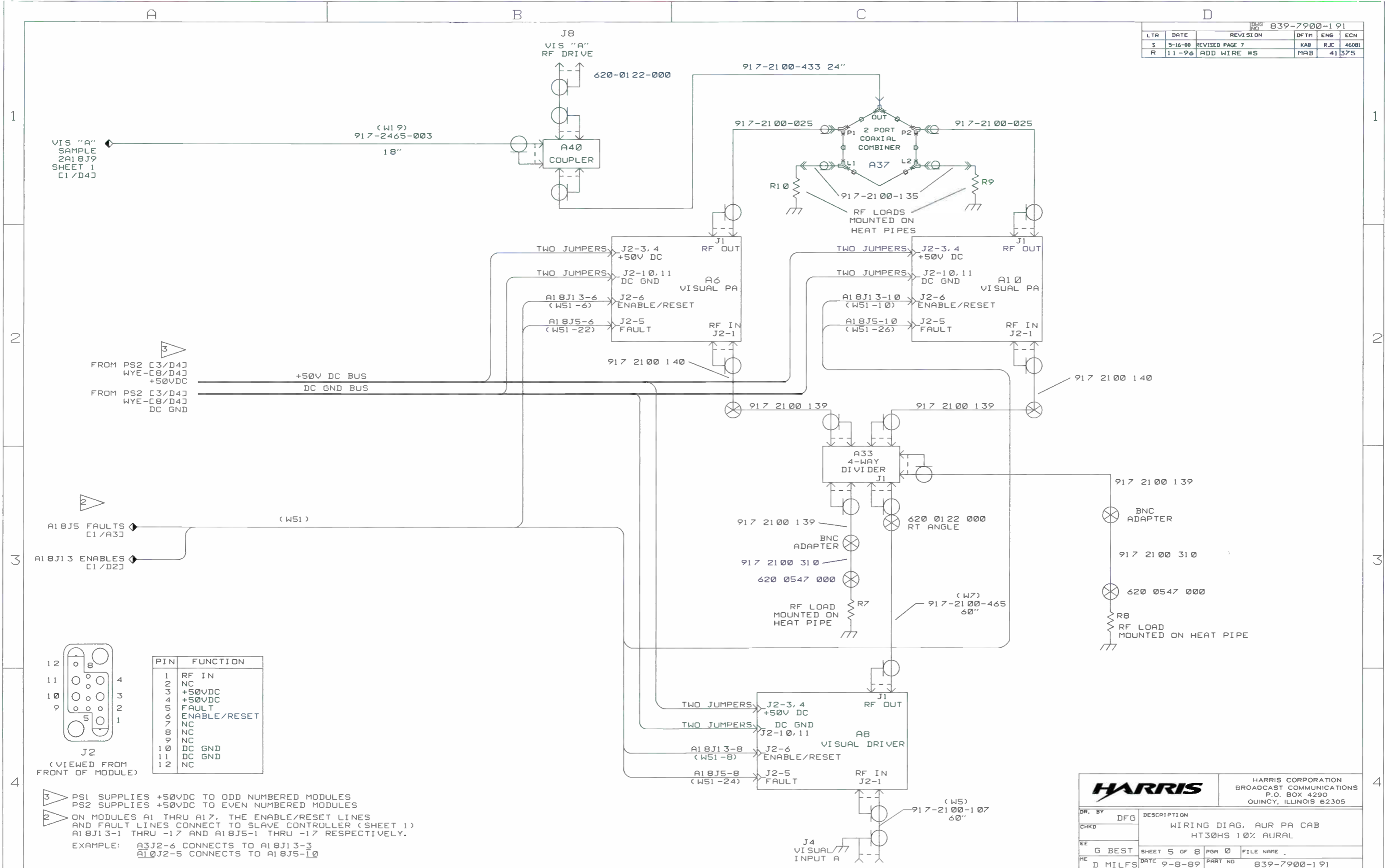
2 ON MODULES A1 THRU A17, THE ENABLE/RESET LINES
AND FAULT LINES CONNECT TO SLAVE CONTROLLER (SHEET 1)
A18J13-1 THRU -17 AND A18J5-1 THRU -17 RESPECTIVELY.

EXAMPLE: A3J2-6 CONNECTS TO A18J13-3
A10J2-5 CONNECTS TO A18J5-10

HARRIS HARRIS CORPORATION
BROADCAST COMMUNICATIONS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DR. BY	DFG	DESCRIPTION
CHKD		WIRING DIAG. AUR PA CAB HT30HS 10% AURAL
EE		SHEET 4 OF 8 PGM 0 FILE NAME .
ME		DATE 5-1-89 PART NO 839-7900-191

REV 839-7900-191		REV	DATE	REVISION	DFTM	ENG	ECN
S	5-16-80	REVISED PAGE 7			KAB	RJC	46081
R	11-96	ADD WIRE #S			MAB		41375



3 PS1 SUPPLIES +50VDC TO ODD NUMBERED MODULES
 PS2 SUPPLIES +50VDC TO EVEN NUMBERED MODULES
 2 ON MODULES A1 THRU A17, THE ENABLE/RESET LINES
 AND FAULT LINES CONNECT TO SLAVE CONTROLLER (SHEET 1)
 A18J13-1 THRU -17 AND A18J5-1 THRU -17 RESPECTIVELY.
 EXAMPLE: A3J2-6 CONNECTS TO A18J13-3
 A10J2-5 CONNECTS TO A18J5-10

HARRIS

HARRIS CORPORATION
 BROADCAST COMMUNICATIONS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DR. BY	DFG	DESCRIPTION
CHKD		WIRING DIAG. AUR PA CAB HT30HS 10% AURAL
EE	G BEST	SHEET 5 OF 8 PGM NO FILE NAME
ME	D MILFS	DATE 9-8-89 PART NO 839-7900-191

REV 839-7900-191		REV	DATE	REVISION	DFTM	ENG	ECN
S	5-16-00	REVISED PAGE 7			KAB	RJC	46081
R	11-96	ADD WIRE #S			MAB		41375

VIS "B"
SAMPLE
2A18J10
SHEET 1
C1/D4J

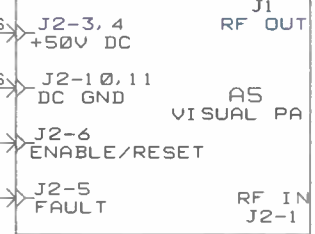
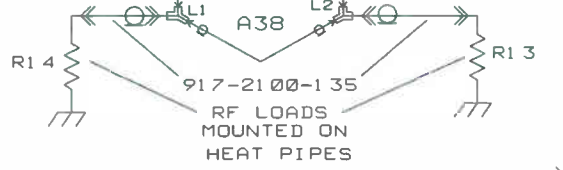
(W16)
917-2465-003
18"

J7
VIS "B"
RF DRIVE
620-0122-000

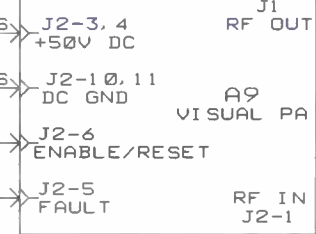
917-2100-433 24"

917-2100-025

917-2100-025



917 2100 140



917 2100 140

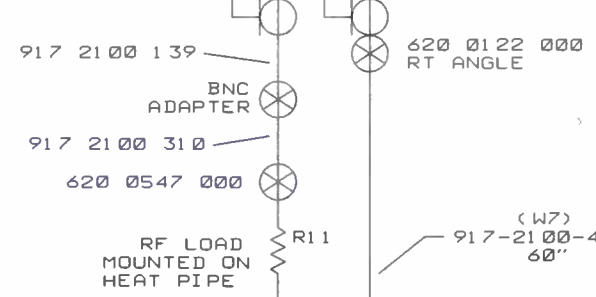
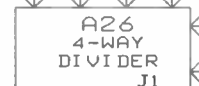
FROM PS1 C3/D4J
WYE-CB/D4J
+50VDC
FROM PS1 C3/D4J
WYE-CB/D4J
DC GND

+50V DC BUS
DC GND BUS

A18J5 FAULTS
C1/A3J

A18J13 ENABLES
C1/D2J

(W51)



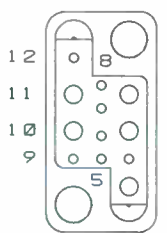
917 2100 139

BNC ADAPTER

917 2100 310

620 0547 000

R12
RF LOAD MOUNTED ON HEAT PIPE

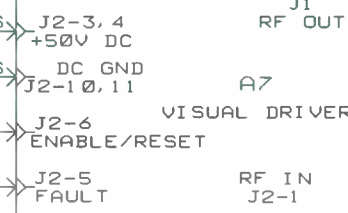


PIN	FUNCTION
1	RF IN
2	NC
3	+50VDC
4	+50VDC
5	FAULT
6	ENABLE/RESET
7	NC
8	NC
9	NC
10	DC GND
11	DC GND
12	NC

PS1 SUPPLIES +50VDC TO ODD NUMBERED MODULES
PS2 SUPPLIES +50VDC TO EVEN NUMBERED MODULES

ON MODULES A1 THRU A17, THE ENABLE/RESET LINES AND FAULT LINES CONNECT TO SLAVE CONTROLLER (SHEET 1) A18J13-1 THRU -17 AND A18J5-1 THRU -17 RESPECTIVELY.

EXAMPLE: A3J2-6 CONNECTS TO A18J13-3
A10J2-5 CONNECTS TO A18J5-10



(W5)
917-2100-107
60"

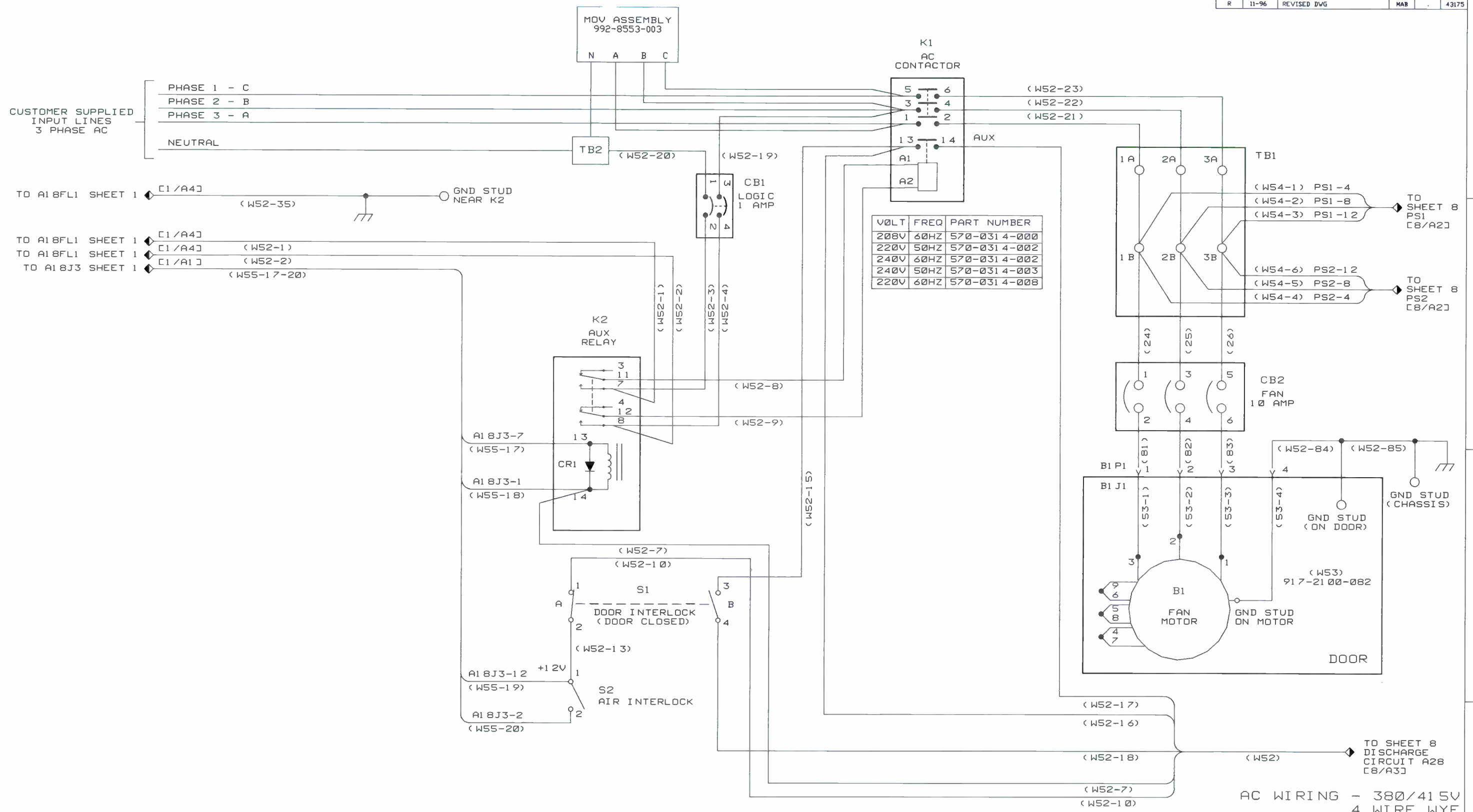
J5
VISUAL
INPUT B

HARRIS

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BROADCAST COMMUNICATIONS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DR. BY	DFG	DESCRIPTION	WIRING DIAG, AUR PA CAB HT30HS 10% AURAL	
CHKD				
EE	G BEST	SHEET 6 OF 8	PGM 0	FILE NAME
HE	D MILFS	DATE 9-8-89	PART NO	839-7900-191

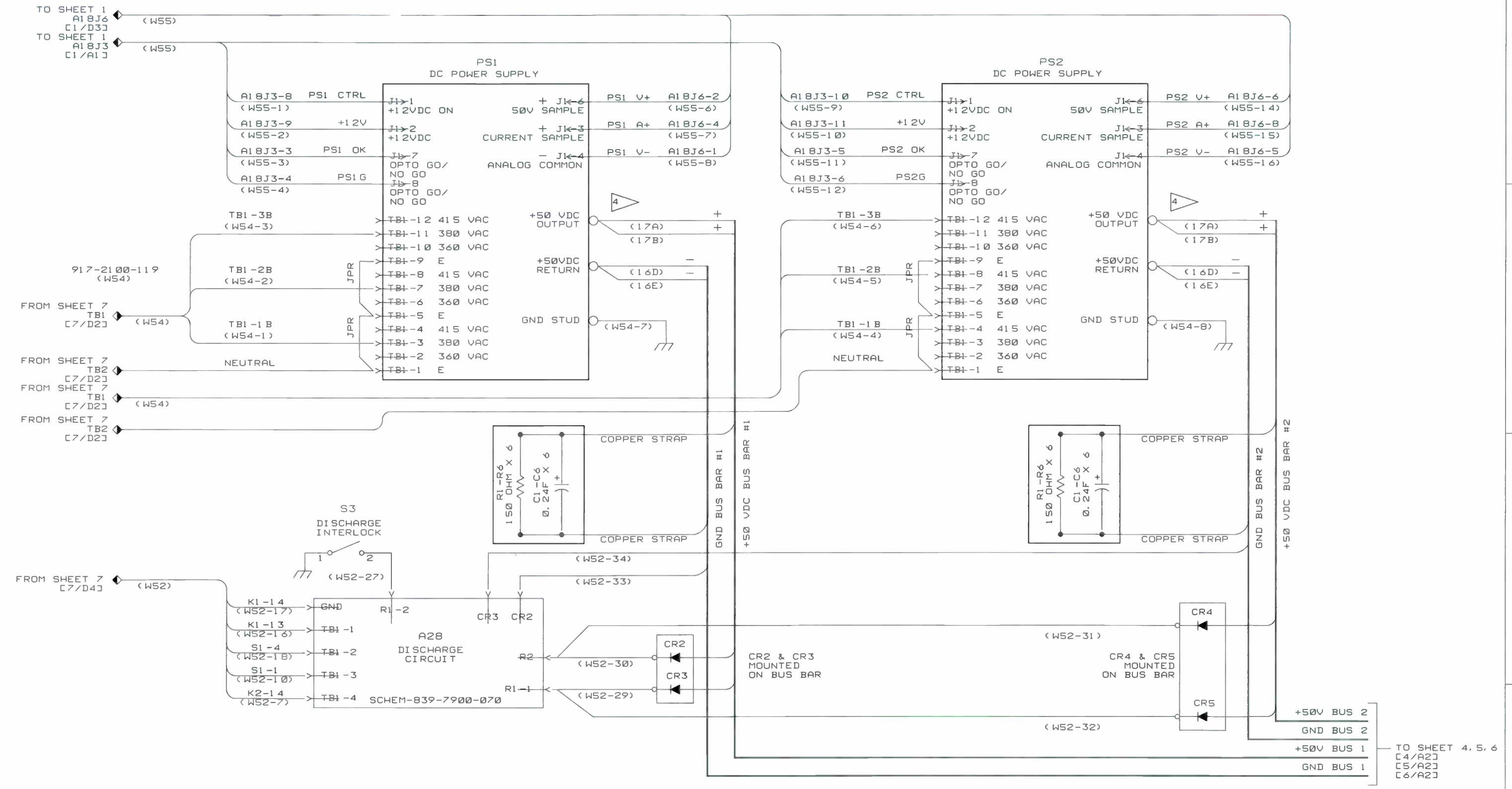
REV NO		839 7900 191			
LTR	DATE	REVISION	DFTH	ENG	ECN
S	5-16-89	REVISED MOV # TO 003	KAB	RJC	46081
R	11-96	REVISED DVG	MAB		43175



AC WIRING - 380/415V
4 WIRE WYE

HARRIS		HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305	
DR. BY	DFG	DESCRIPTION	
CHKD		WIRING DIAG. AUR PA CAB HT30HS 10% AURAL	
EE		SHEET 7 OF 8	PGM FILE NAME
ME		DATE 9-7-89	PART NO 839 7900 191

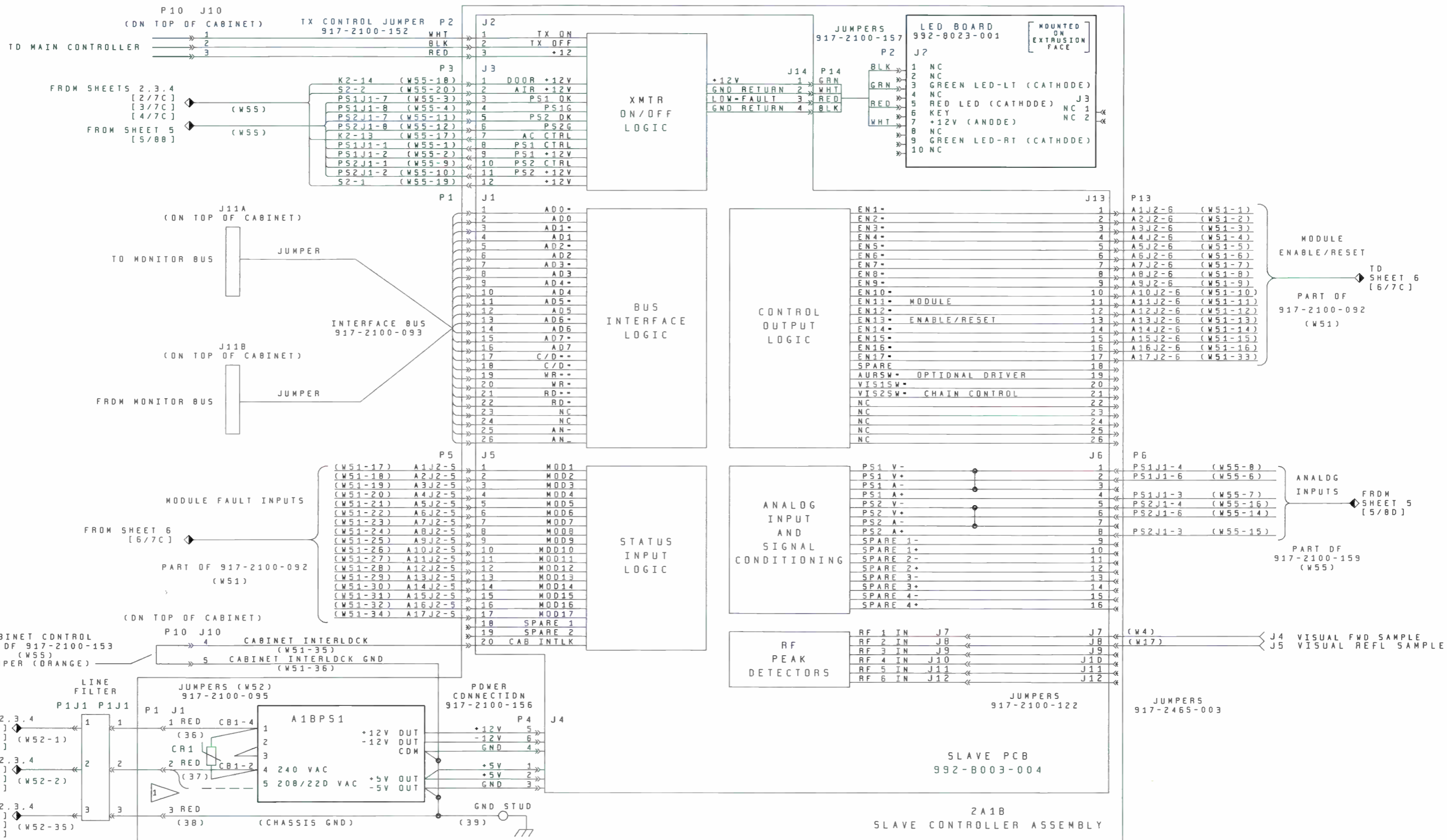
REV. NO. 839 7900 191		DFTH	ENG	ECN
LTR	DATE	REVISION		
S	5-16-00	REVISED PAGE 7	KAB	RJC
R	11-96	REVISED DVG	MAB	43715



4 Wires 16 and 17 1/0 AWG stranded supplied with power supply

AC WIRING - 380/415V
4 WIRE WYE - POWER SUPPLIES

HARRIS		HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305	
DR. BY	DFG	DESCRIPTION	
CHKD	.	WIRING DIAG. AUR PA CAB HT30HS 10% AURAL	
EE	.	SHEET 8 OF 8	PGM FILE NAME
ME	.	DATE 09-7-89	PART NO 839 7900 191



WIRE NUMBERS SHOWN IN PARANTHESIS (WIRE #)
 ALL CONTACTS SHOWN WITH TRANSMITTER OFF CONDITIDN.

1 FDR 208VAC. CONNCT CB1-2 AND CR1 TO PIN 5.

REV	LTR	ZONE	DATE	DFTM	ENG	ECD NUM
K			5-16-00	KAB	RJC	46081
J			11/98	CAN	CAN	42507
NEW WDRKVIEW. NEW BASLERS. 480V						

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 BROADCAST SYSTEMS
 P. O. BOX 4290
 QUINCY, ILLINOIS 62305

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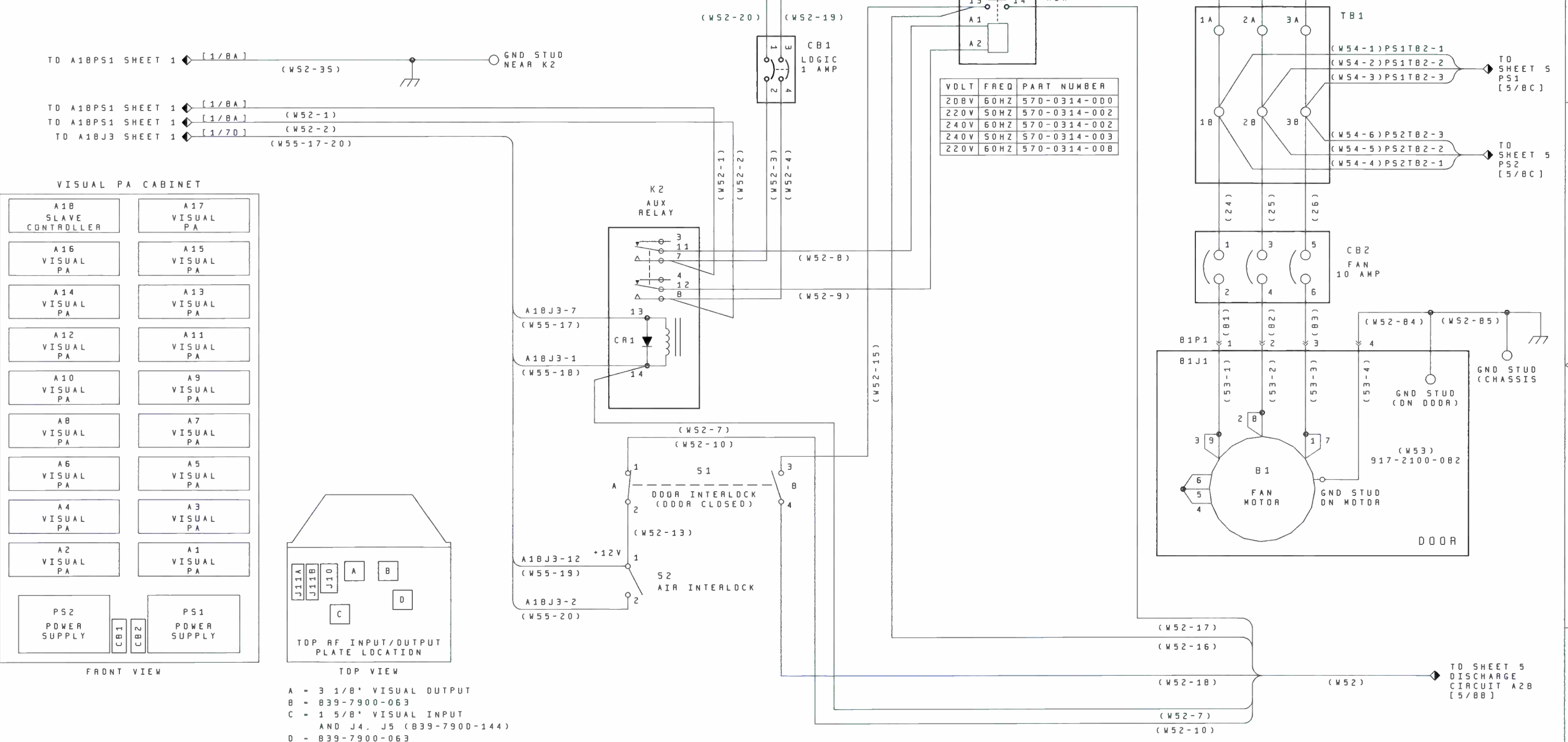
DRAWN BY	DATE	ENG CHK	PROJ ENG	HFC ENG	TITLE	DWG #	REV
LW	02-22-89	G BEST	D MILFS		WIRING DIAG. VIS PA CAB HT SERIES. HB	839 7900 192	K
SHEET 1 OF 6							

CUSTOMER SUPPLIED
INPUT LINES
3 PHASE AC

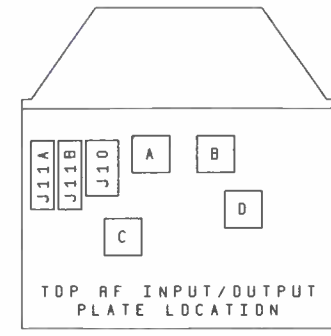
C - PHASE 1
B - PHASE 2
A - PHASE 3

MDV ASSEMBLY
992-8553-001

K1
AC
CONTACTOR



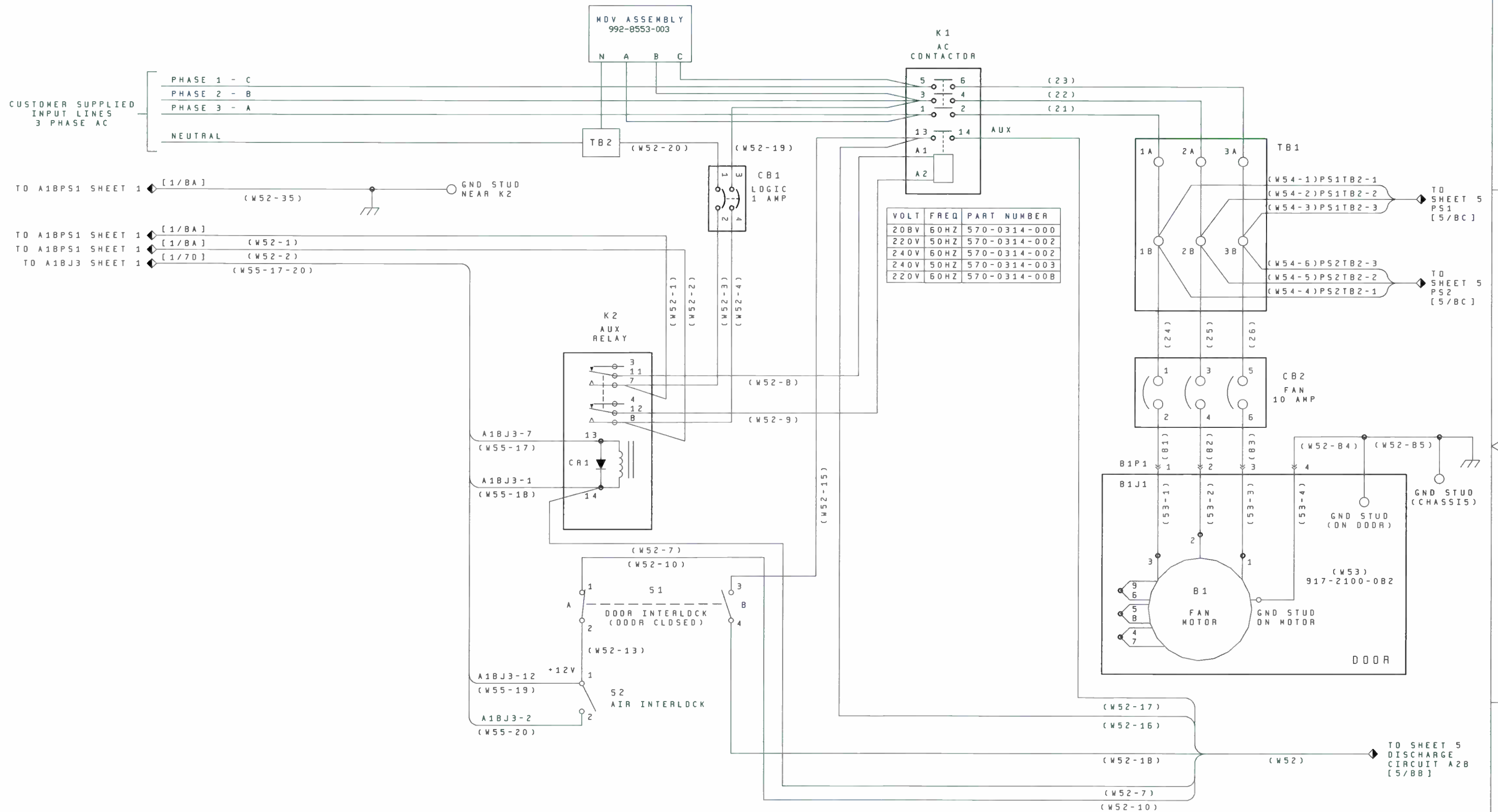
VISUAL PA CABINET



A - 3 1/8" VISUAL OUTPUT
B - 839-7900-063
C - 1 5/8" VISUAL INPUT
AND J4, J5 (839-7900-144)
D - 839-7900-063

AC WIRING - 208/240V
3 WIRE DELTA

NOTES	REV	LTR	ZONE	DATE	DFTM	ENG	ECD NUM	<p>HARRIS CORPORATION BROADCAST SYSTEMS P.O. BOX 4290 QUINCY, ILLINOIS 62305</p>	DRAWN BY: LW DATE: 02-22-89 ENG CHK: G BEST PROJ ENG: D MILFS MFG ENG:	TITLE
	1	K		5-16-00	KAB	RJC	46081		WIRING DIAG. VIS PA CAB HT SERIES. HB	
	2	REVISED PAGE 3							DWG # 839 7900 192	
	3	J		11/98	CAN	CAN	42507		REV K	
POWER SUPPLY 480V INFD/NEW WV DWG								THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.	SHEET 2 OF 6	



AC WIRING - 380/415V
4 WIRE WYE

REV	LTR	ZONE	DATE	DFTM	ENG	ECD NUM
K			5-16-00	KAB	RJC	46081
REVISED MDV # TO 003						
J			11/98	CAN	CAN	42507
POWER SUPPLY 480V INFO. NEW WV DWG						



HARRIS CORPORATION
BRDADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DATE	BY
02-22-89	LW
	G BEST
	D MILFS

TITLE	DWG #	REV
WIRING DIAG. VIS PA CAB HT SERIES. HB	B39 7900 192	K

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NOTES

CUSTOMER SUPPLIED
INPUT LINES
3 PHASE AC

C - PHASE 1
B - PHASE 2
A - PHASE 3

MOV ASSEMBLY
992-8553-005

K1
AC
CONTACTOR

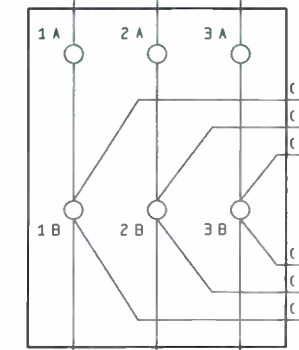
TO A18FL1 SHEET 1 [1/BA] (W52-35) GND STUD NEAR K2

TO A18FL1 SHEET 1 [1/BA] (W52-1)

TO A18FL1 SHEET 1 [1/BA] (W52-2)

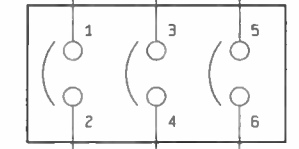
TO A18J3 SHEET 1 [1/7D] (W55-17-20)

VOLT	FREQ	PART NUMBER
208V	60HZ	570-0314-000
220V	50HZ	570-0314-002
240V	60HZ	570-0314-002
240V	50HZ	570-0314-003
220V	60HZ	570-0314-008

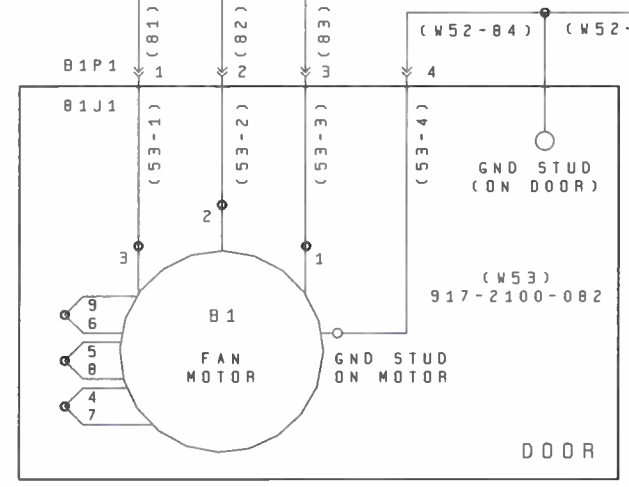


TO SHEET 5 PS1 [5/8C] (W54-1)P51TB2-1 (W54-2)P51TB2-2 (W54-3)P51TB2-3

TO SHEET 5 PS2 [5/8C] (W54-6)P52TB2-3 (W54-5)P52TB2-2 (W54-4)P52TB2-1

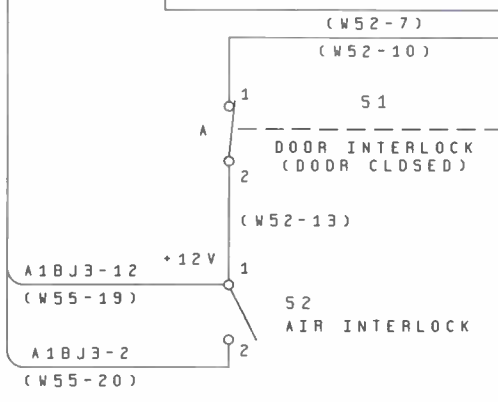
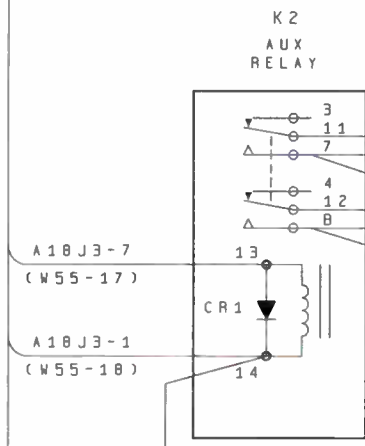


CB2
FAN
10 AMP



GND STUD (ON DOOR) (W52-84) (W52-85)

GND STUD ON MOTOR (W53) 917-2100-082



A18J3-7 (W55-17) CR1

A18J3-1 (W55-18)

A18J3-12 (W55-19) +12V

A18J3-2 (W55-20)

(W52-17) (W52-16) (W52-18) (W52) TO SHEET 5 DISCHARGE CIRCUIT A2B [5/8B]

(W52-7) (W52-10)

AC WIRING - 480V
3 WIRE DELTA

NOTES

REV	LTR	ZONE	DATE	DFTM	ENG	ECD NUM
K			5-16-00	KAB	RJC	460B1
REVISED PAGE 3						
J			11/9B	CAN	CAN	42507
480V POWER SUPPLY INFO/NEW WV DWG						



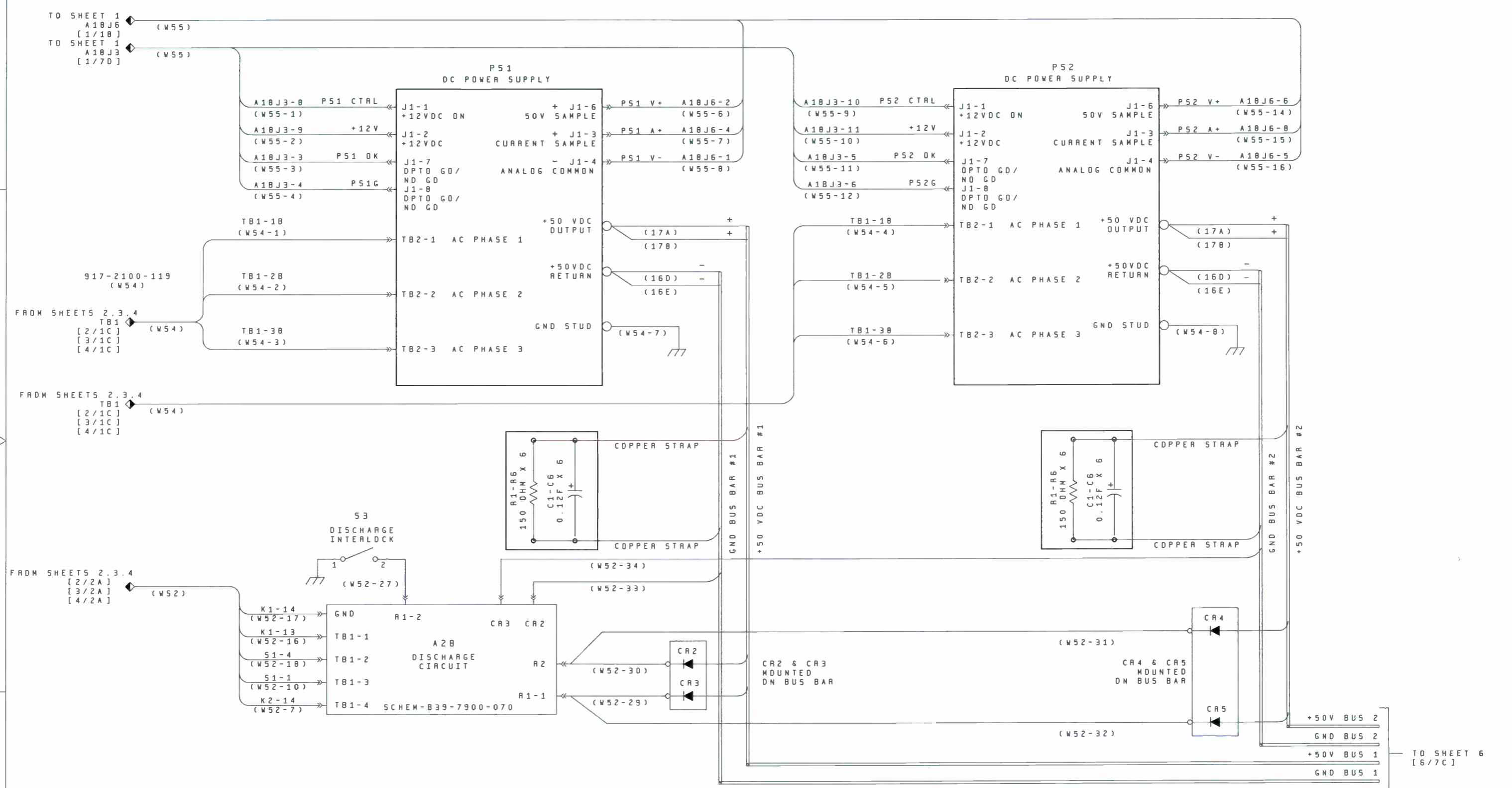
HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DATE	BY
02-22-89	LW
	G BEST
	D MILFS

DATE	BY	DATE	BY
02-22-89	LW		
	G BEST		
	D MILFS		

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DWG # 839 7900 192 REV K



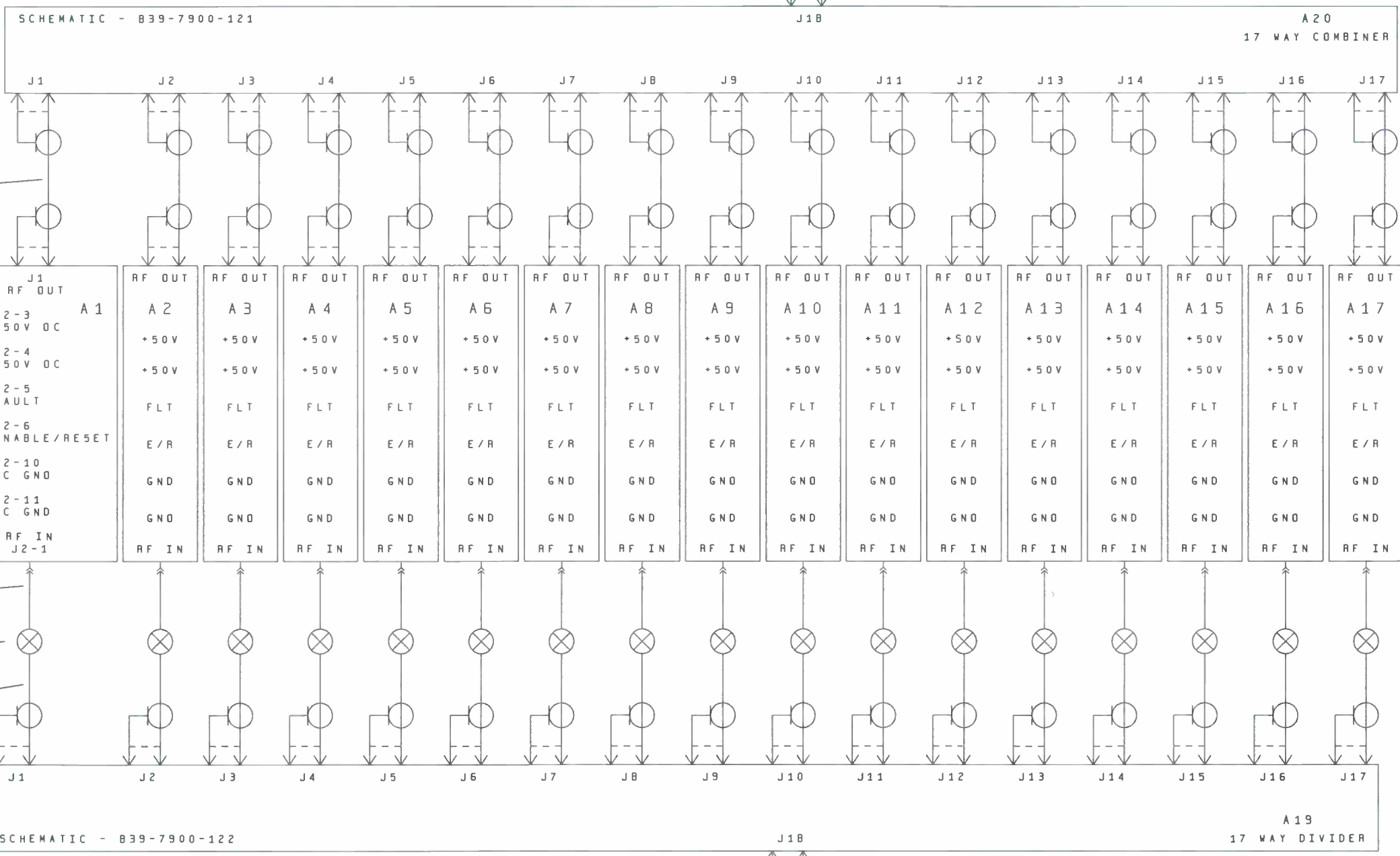
WIRES #16 & #17 ARE 1/0AWG STRANDED. SUPPLIED WITH POWER SUPPLY

AC WIRING POWER SUPPLIES

NOTES	REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NUM	<p>HARRIS CORPORATION BROADCAST SYSTEMS P.O. BOX 4290 QUINCY, ILLINOIS 62305</p>	DRAWN BY	LW	TITLE
		K		5-16-00	KAB	RJC	46081		DATE	02-22-89	WIRING DIAG. VIS PA CAB HT SERIES. HB
		REVISED PAGE 3							PROJ ENG	D MILFS	
		J		11/98	CAN	CAN	42507		DWG #	839 7900 192	REV K
	POWER SUPPLY 480V INFD/NEW WV DWG							THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.		SHEET 5 OF 6	

VISUAL OUTPUT TO DIRECTIONAL COUPLER - A21 3-1/8" EIA FLANGE (TOP OF CABINET)

3-1/8" RF CONDUCTOR



917-2100-025 (TYPICAL 17 PLACES)

VISUAL POWER AMPLIFIER MODULE (TYPICAL 17 PLACES)

FROM SHEET 5 [5/1A] BUS BAR 1/PS1 - ODD BUS BAR 2/PS2 - EVEN +50VDC

JUMPER FROM BUS BAR

J2-3 +50V DC

J2-4 +50V DC

A1BJ5-1 (W51-17)

J2-5 FAULT

A1BJ13-1 (W51-1)

J2-6 ENABLE/RESET

JUMPER FROM BUS BAR

J2-10 DC GND

JUMPER FROM BUS BAR

J2-11 DC GND

RF IN J2-1

TO SHEET 1 [1/7B]

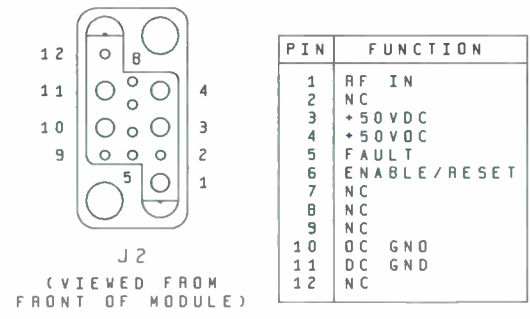
FROM SHEET 1 [1/1C]

FROM SHEET 5 [5/1A] BUS BAR 1/PS1 - ODD BUS BAR 2/PS2 - EVEN DC GND

917-2100-010 (TYPICAL 17 PLACES)

BNC ADAPTERS (TYPICAL 17 PLACES)

FREQUENCY DETERMINED SEE BILL OF MATERIAL FOR PART NUMBER (TYPICAL 17 PLACES)



RF INTERCONNECT

VISUAL INPUT 1-5/8" EIA FLANGE (TOP OF CABINET)

PS1 SUPPLIES +50VDC TO ODD NUMBERED MODULES
 PS2 SUPPLIES +50VDC TO EVEN NUMBERED MODULES

ON MODULES A1 THRU A17, THE ENABLE/RESET LINES AND FAULT LINES CONNECT TO SLAVE CONTROLLER (SHEET 1) A1BJ13-1 THRU -17 AND A1BJ5-1 THRU -17 RESPECTIVELY.

EXAMPLE: A3J2-6 CONNECTS TO A1BJ13-3
 A10J2-5 CONNECTS TO A1BJ5-10

REV	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
1	K		5-16-00	KAB	RJC	46081
REVISED PAGE 3						
2	J		12/98	CAN		42507

NEW WORKVIEW. NEW BASLERS. 480V

HARRIS

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 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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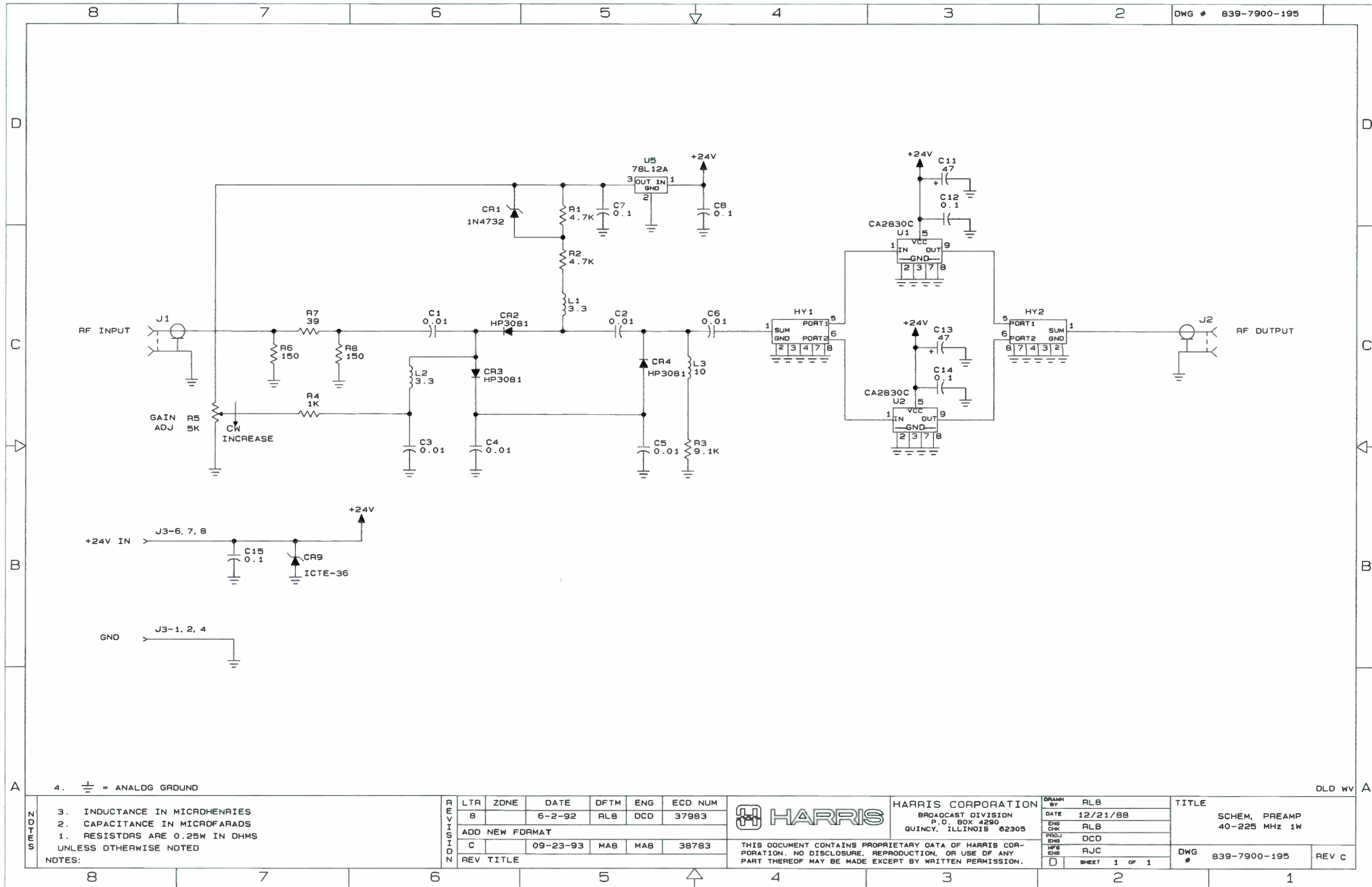
DATE	BY	CHK	ENG	PRJ	ENG	NFC	ENG
02-21-89	LW						

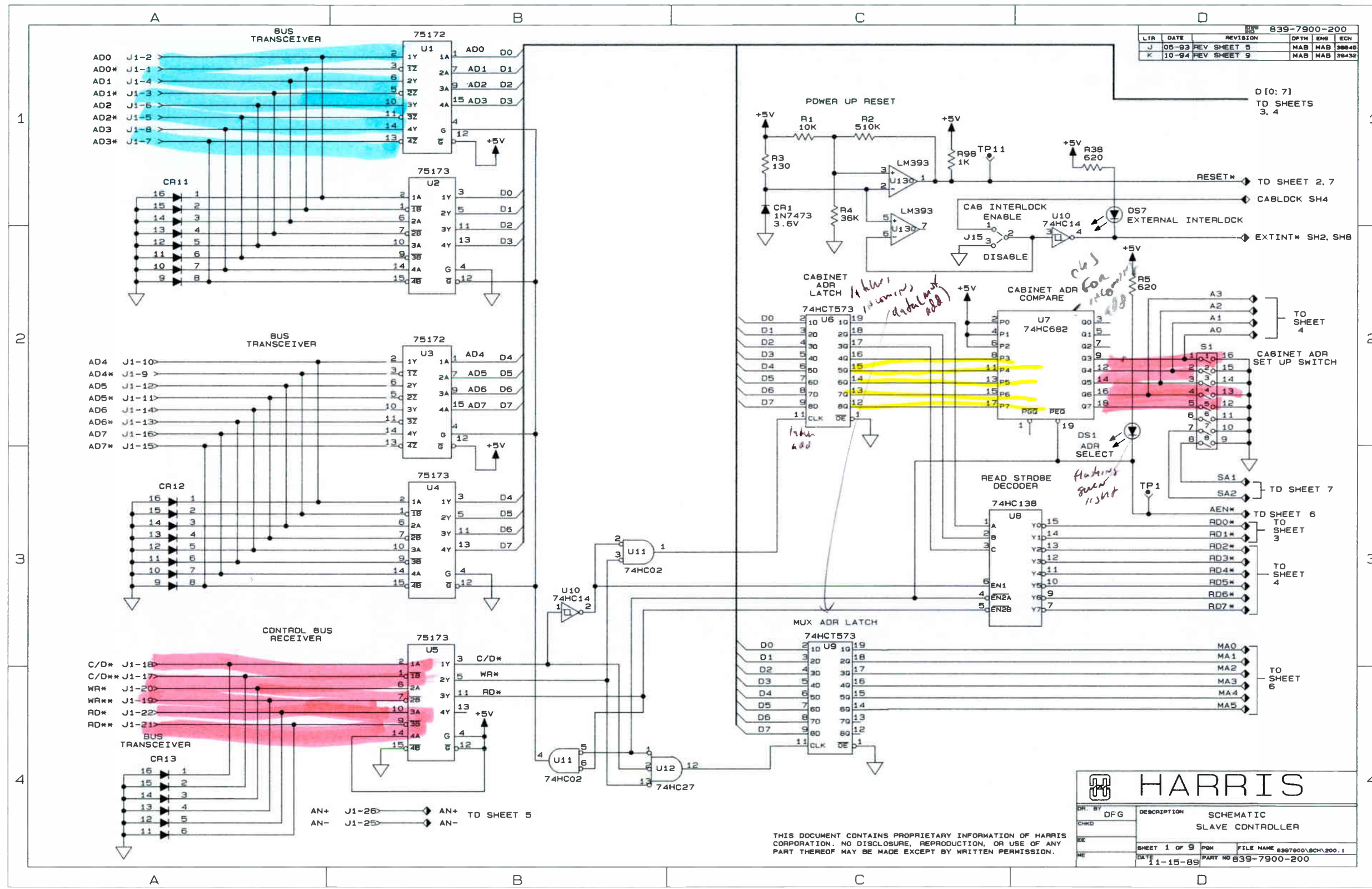
TITLE: WIRING DIAG. VIS PA CAB HT SERIES. HB

DWG # 839 7900 192

REV K

SHEET 6 OF 6



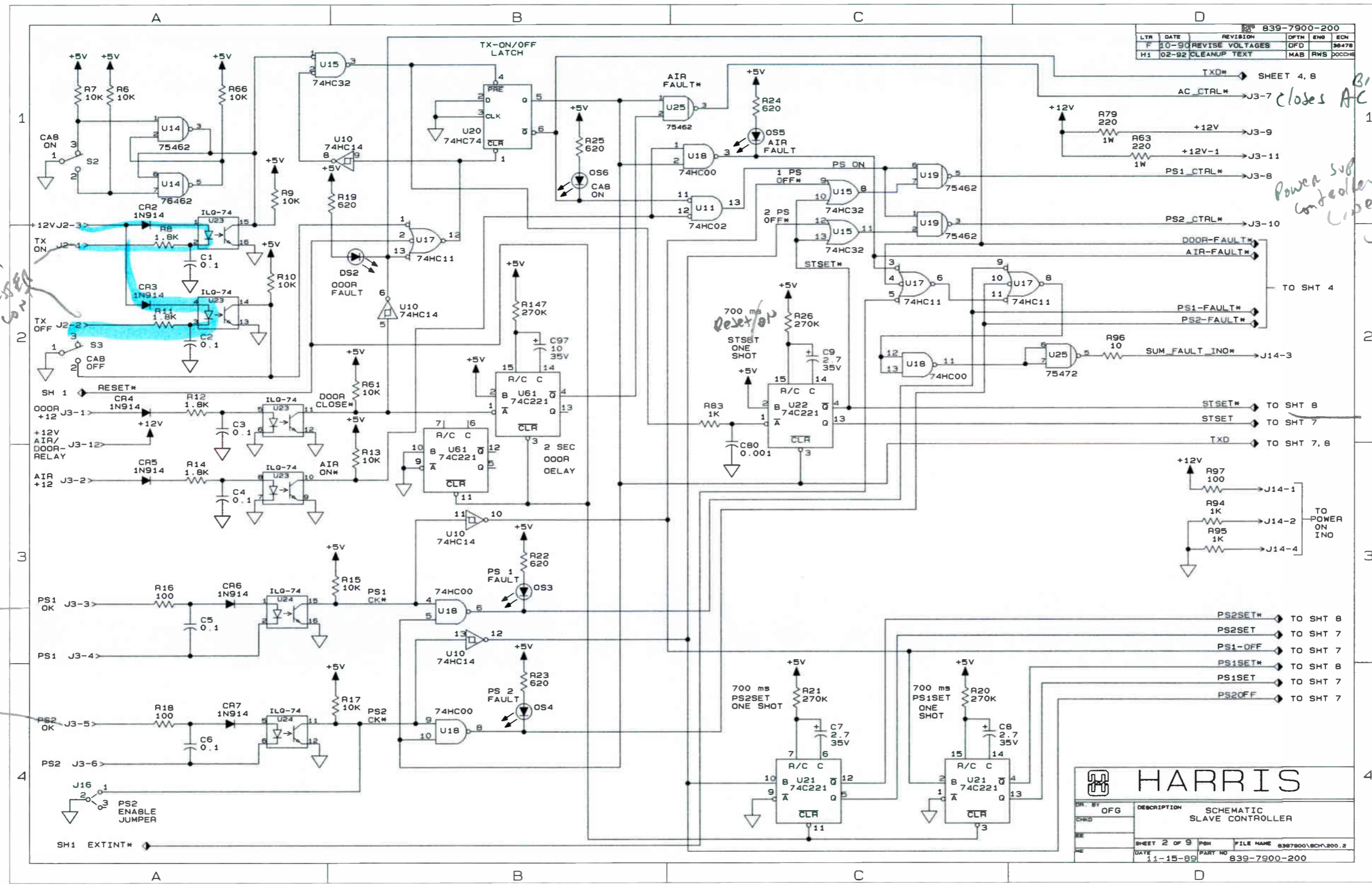


LTR	DATE	REVISION	OPTR	ENR	ECN
J	05-93	REV SHEET 5	MAB	MAB	38846
K	10-94	REV SHEET 9	MAB	MAB	38432

HARRIS	
DR: BY	DFG
DESCRIPTION	SCHEMATIC
CHRD	SLAVE CONTROLLER
SE	SHEET 1 OF 9
ME	DATE 11-15-89
	FILE NAME 8397900\SCH\200.1
	PART NO 839-7900-200

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LYR	DATE	REVISION	DFTN	ENG	ECH
F	10-90	REVISE VOLTAGES	DFO		38478
M	02-92	CLEANUP TEXT	MAB	RWS	00000



From
MAGNET
CON

STATUS
OF
PS ON
PS STATUS DOWN
WHILE CAUSE
FAULT

815
CLOSES AC CONTACT
STARTUP TO BASELINE 50V
POWER SUPPLY
CONTROLLER
CASE - DELAYED
UNTIL PROPER
COOLING AIR FLOW

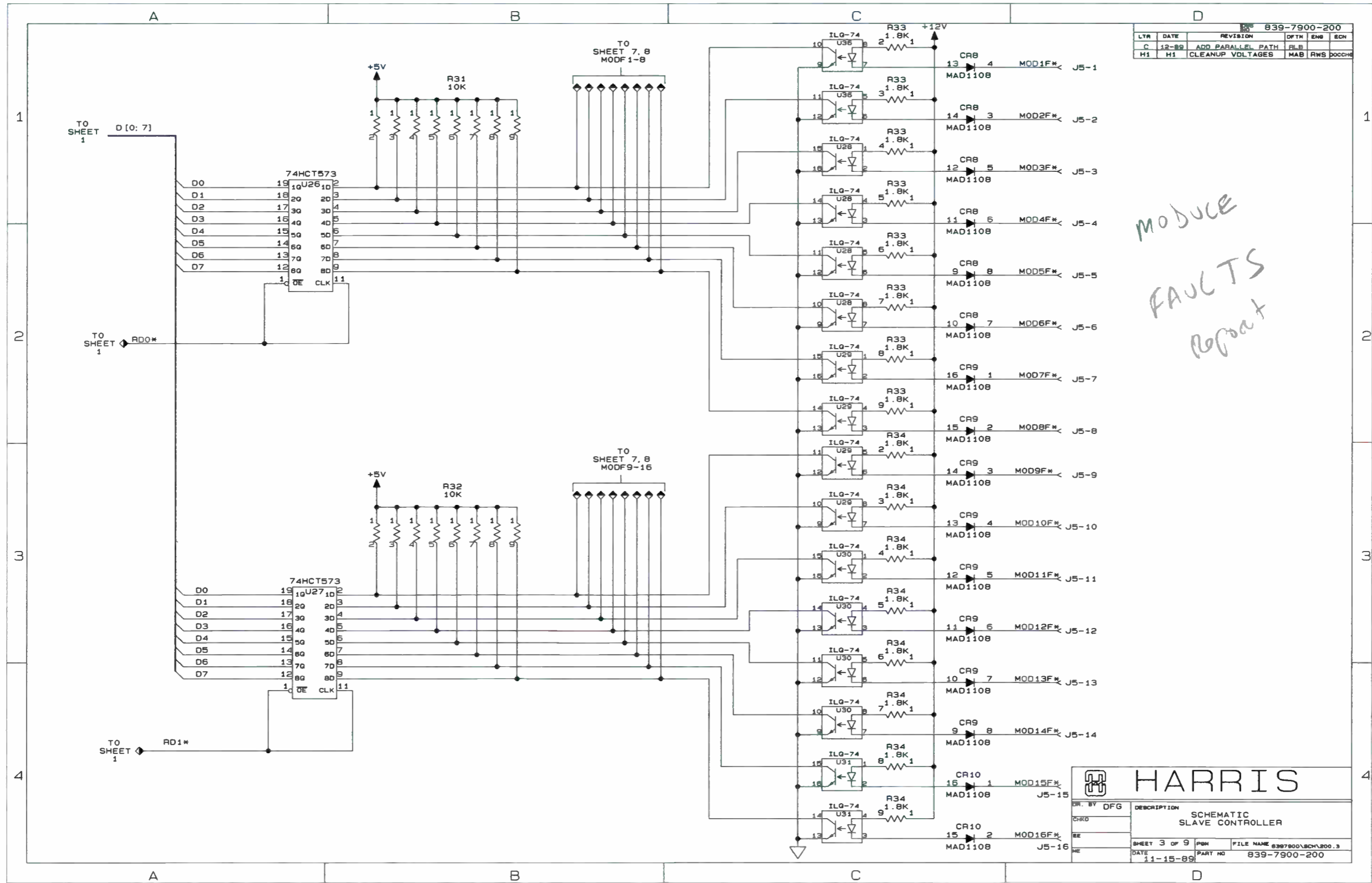
USED TO RESET
MODULE

HARRIS

DR BY: OFG DESCRIPTION: SCHEMATIC SLAVE CONTROLLER

SHEET 2 OF 9 P/N: FILE NAME: 8387800\SCH.200.2

DATE: 11-15-89 PART NO: 839-7900-200



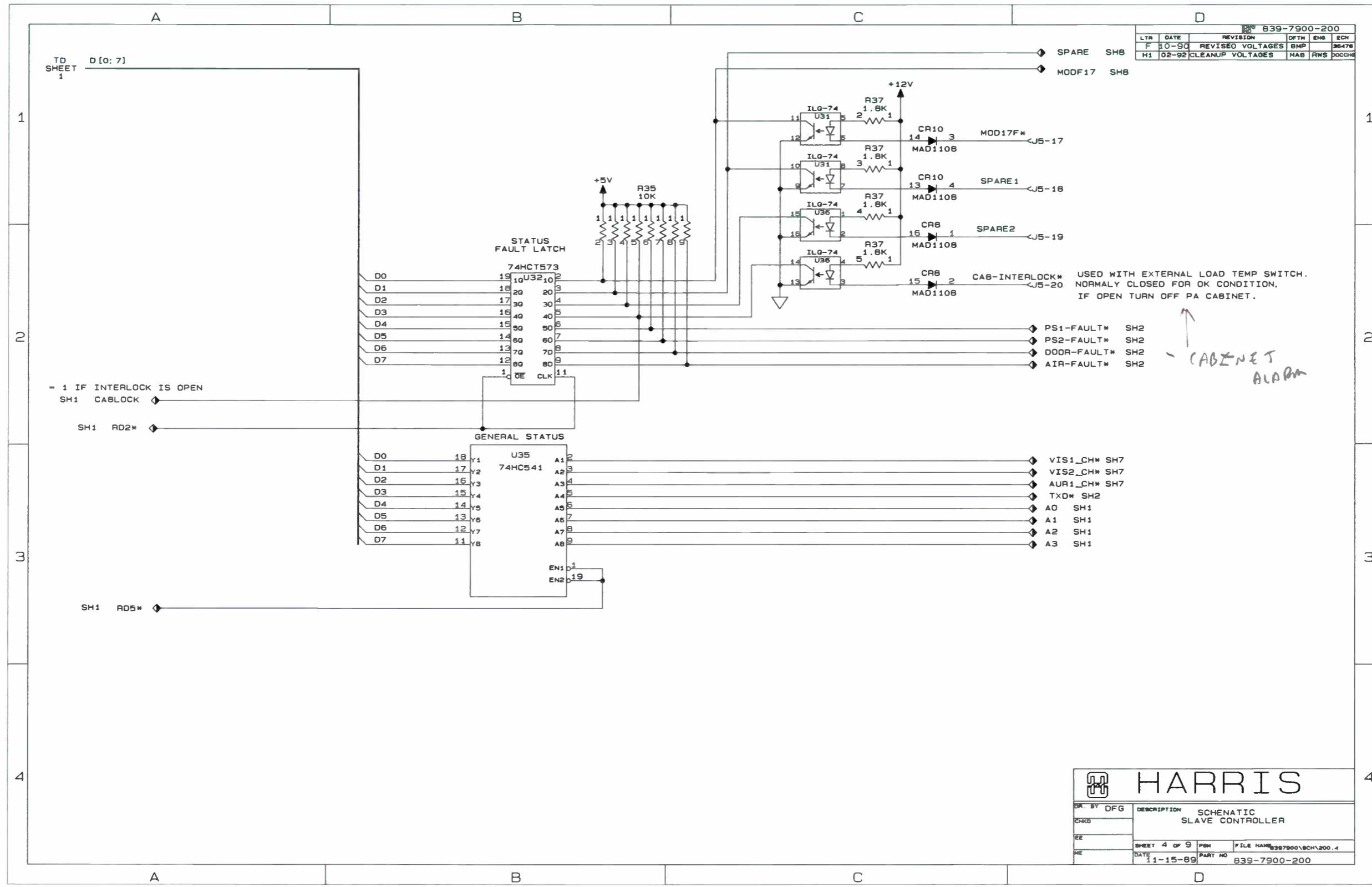
839-7900-200					
LYR	DATE	REVISION	DFTM	ENB	ECN
C	12-89	ADD PARALLEL PATH	RLB		
H1	H1	CLEANUP VOLTAGES	MAB	RWS	DOCHM

*MODULE
FAULTS
Report*

HARRIS

DR. BY DFG DESCRIPTION SCHEMATIC
SLAVE CONTROLLER

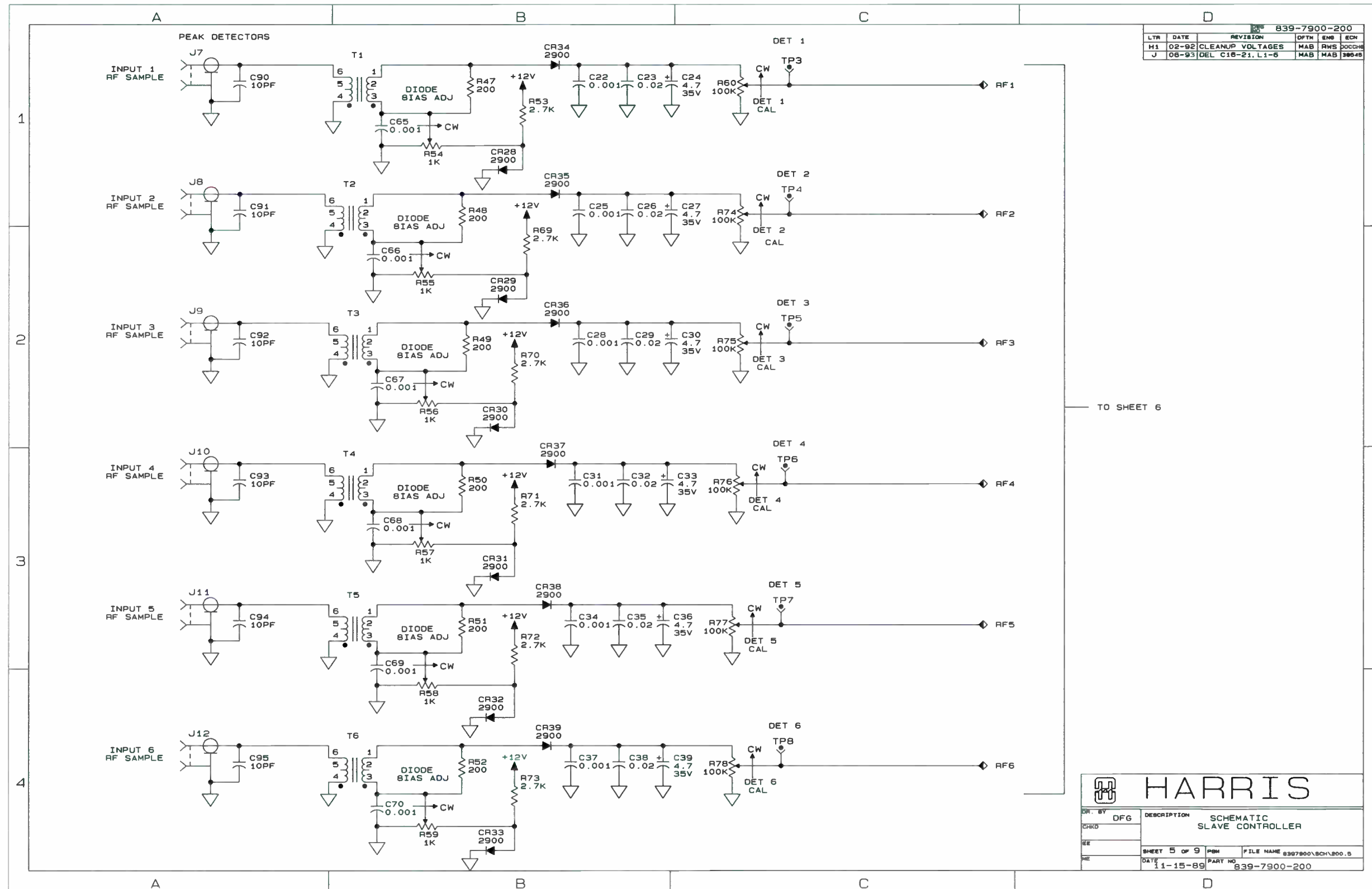
SHEET 3 OF 9 PGM FILE NAME 8397900\SCH\800.3
DATE 11-15-89 PART NO 839-7900-200



839-7900-200						
LTR	DATE	REVISION	DFW	ENR	EDW	
F	10-90	REVISED VOLTAGES	BMP			36478
H1	02-92	CLEANUP VOLTAGES	HAB	RWS	POCCH	

HARRIS

DR BY DFG	DESCRIPTION	SCHEMATIC SLAVE CONTROLLER	
CHKD			
SEE	SHEET 4 OF 9	PRM	FILE NAME 8397900\SCH\200.4
DATE 11-15-89		PART NO	839-7900-200

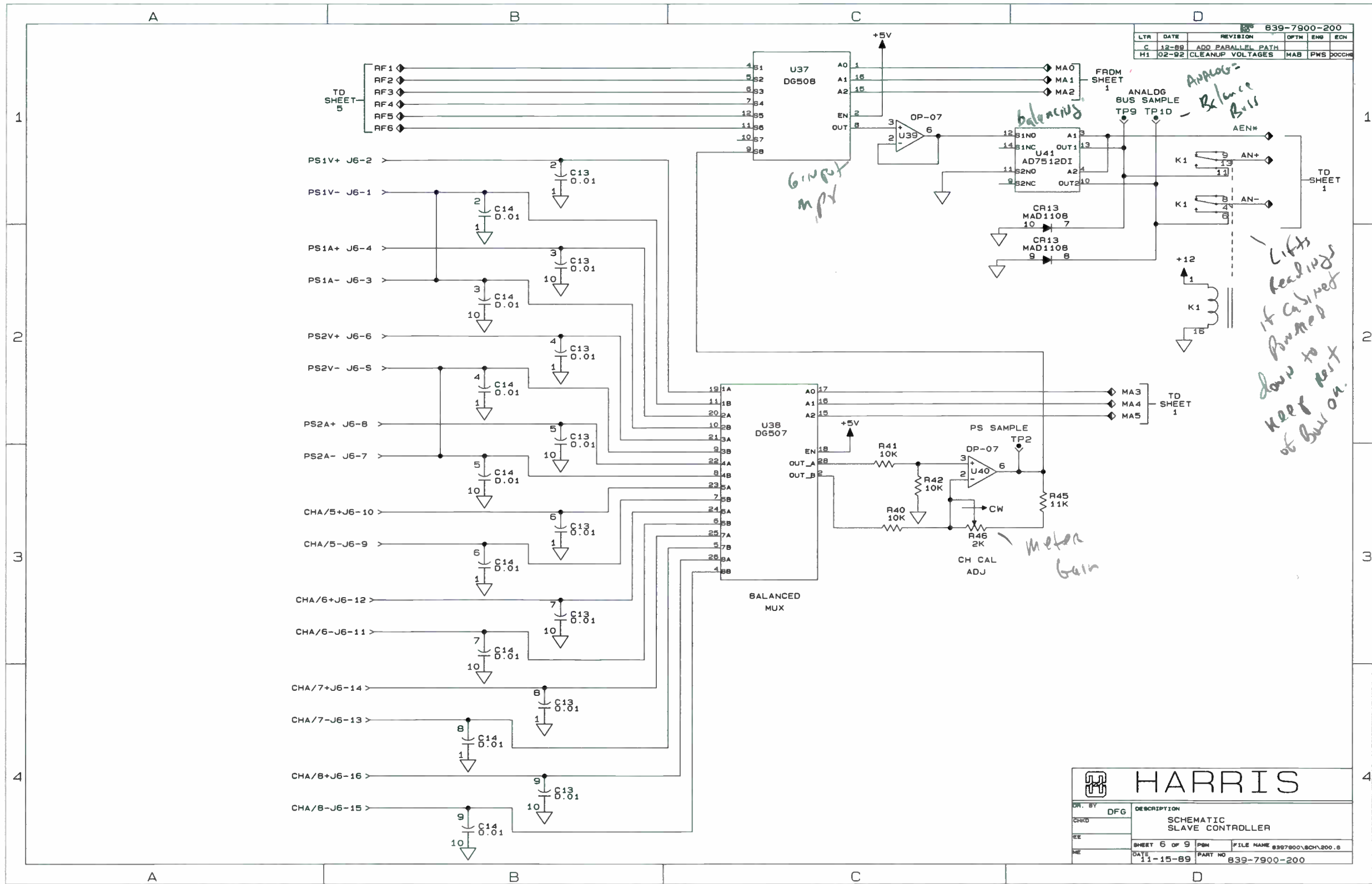


839-7900-200					
LTR	DATE	REVISION	DPTH	ENB	ECN
H1	02-92	CLEANUP VOLTAGES	MAB	RWS	00000
J	06-93	DEL C16-21, L1-6	MAB	MAB	39048

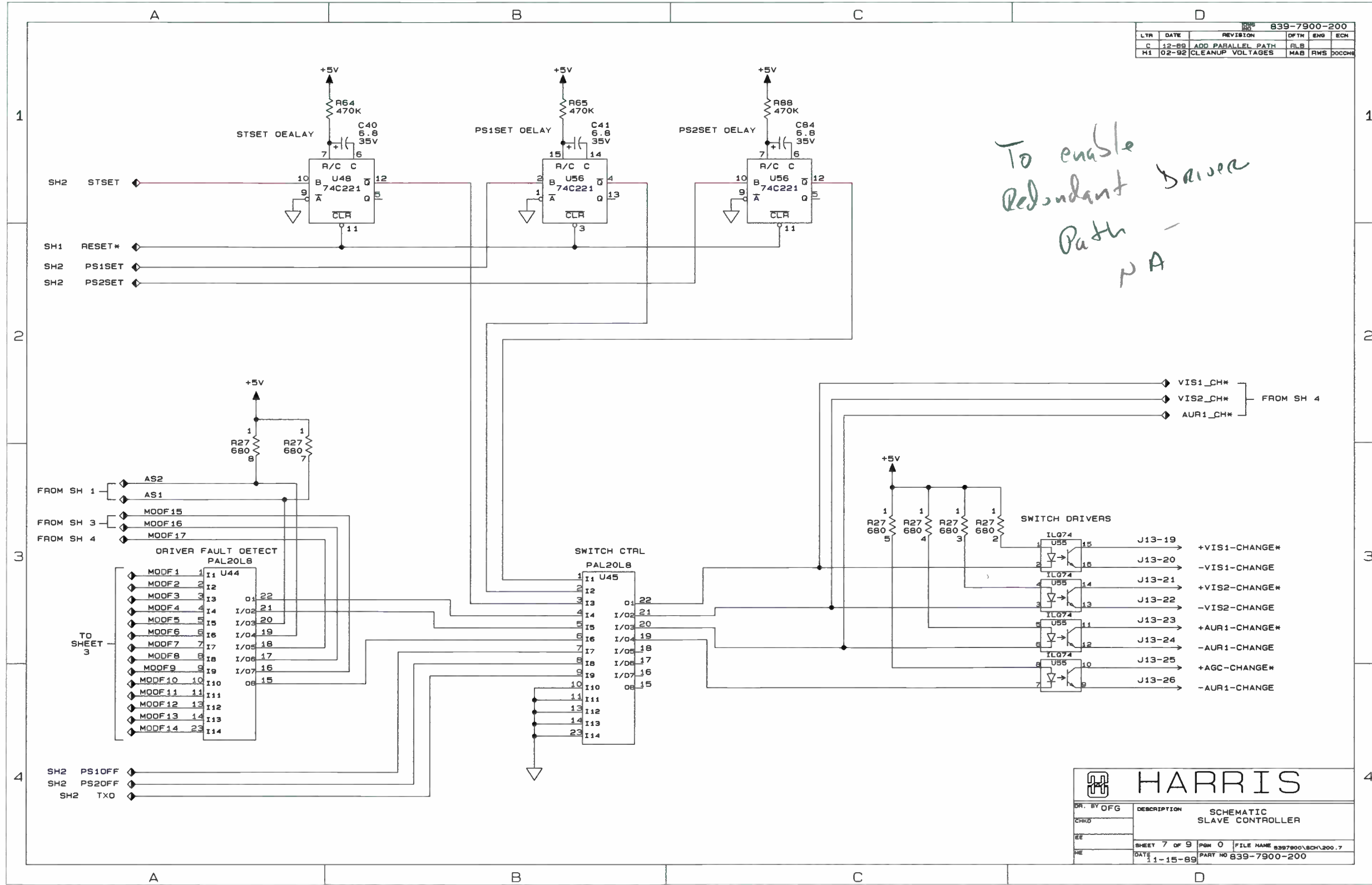
TO SHEET 6

HARRIS

DRN BY	DFG	DESCRIPTION	SCHEMATIC SLAVE CONTROLLER		
CHKD					
SEE					
DATE	11-15-89	PRT NO	839-7900-200	FILE NAME	8397900\SCH\800.5



839-7900-200					
LTR	DATE	REVISION	DFTH	ENG	ECN
C	12-88	ADD PARALLEL PATH	FLB		
H1	02-92	CLEANUP VOLTAGES	MAB	RWS	DOOCHE



To enable
Redundant Driver
Path -
NA

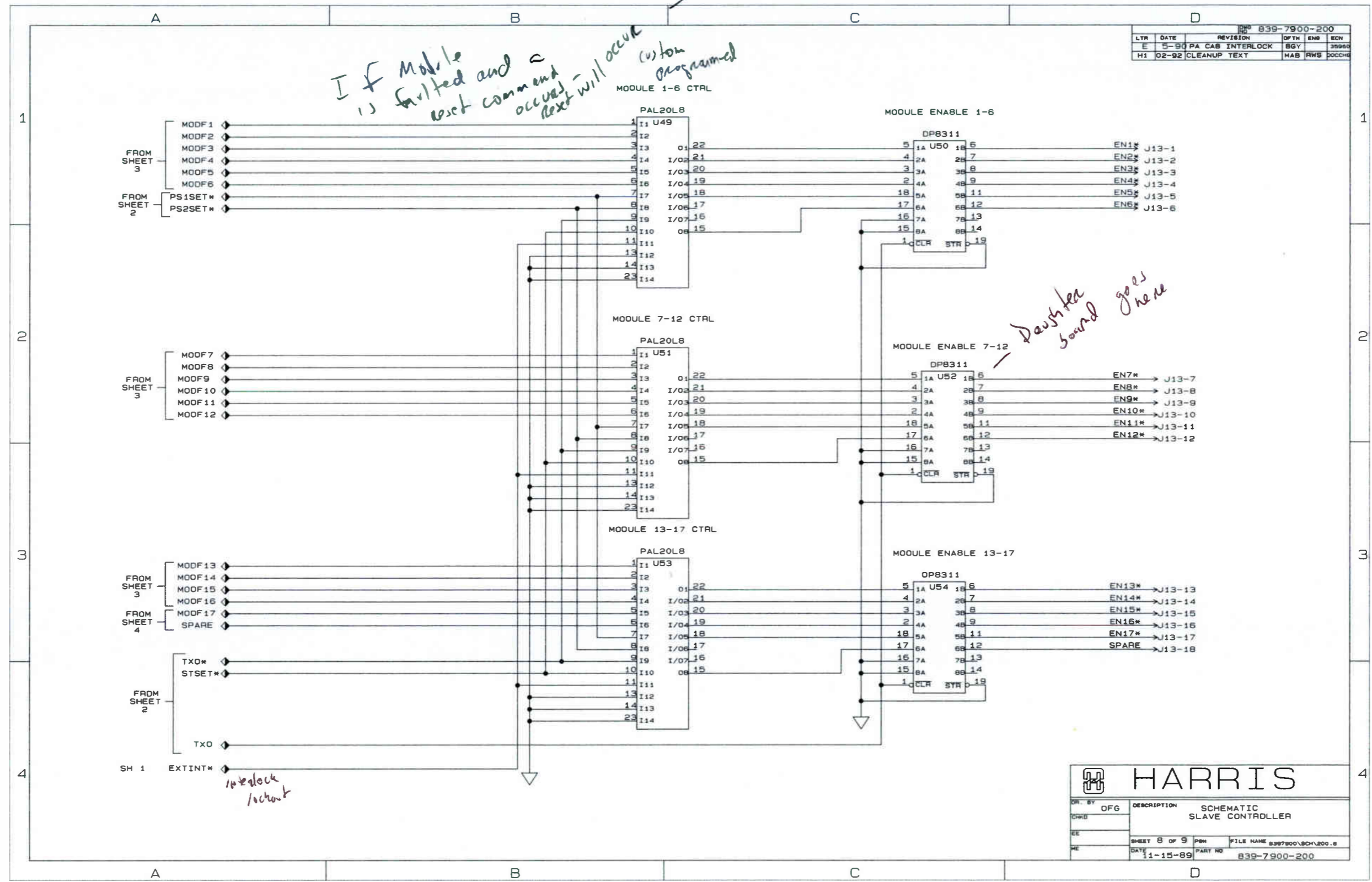
HARRIS

DR. BY OFG	DESCRIPTION	SCHEMATIC SLAVE CONTROLLER	
CHRD			
EE	SHEET 7 OF 9	PGM 0	FILE NAME 8397900\BCK\200.7
ME	DATE 11-15-89	PART NO 839-7900-200	

or if modules off it will set normal on command

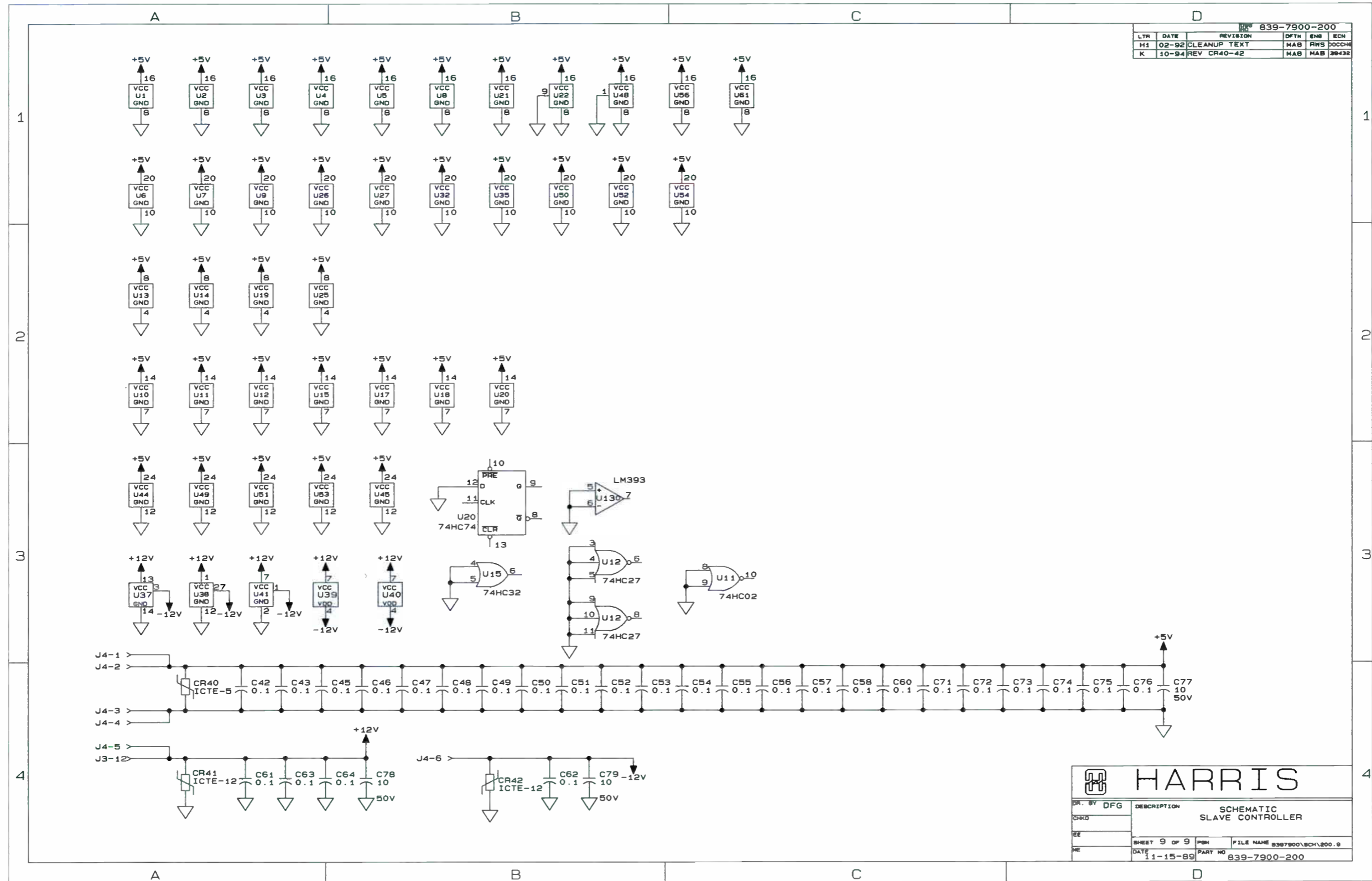
If Module is faulted and a reset command occurs next will occur custom programmed

LTR	DATE	REVISION	OPTR	ENR	ECN
E	5-90	PA CAB INTERLOCK	BGY		35960
H1	02-92	CLEANUP TEXT	MAB	RWS	DOCCHE

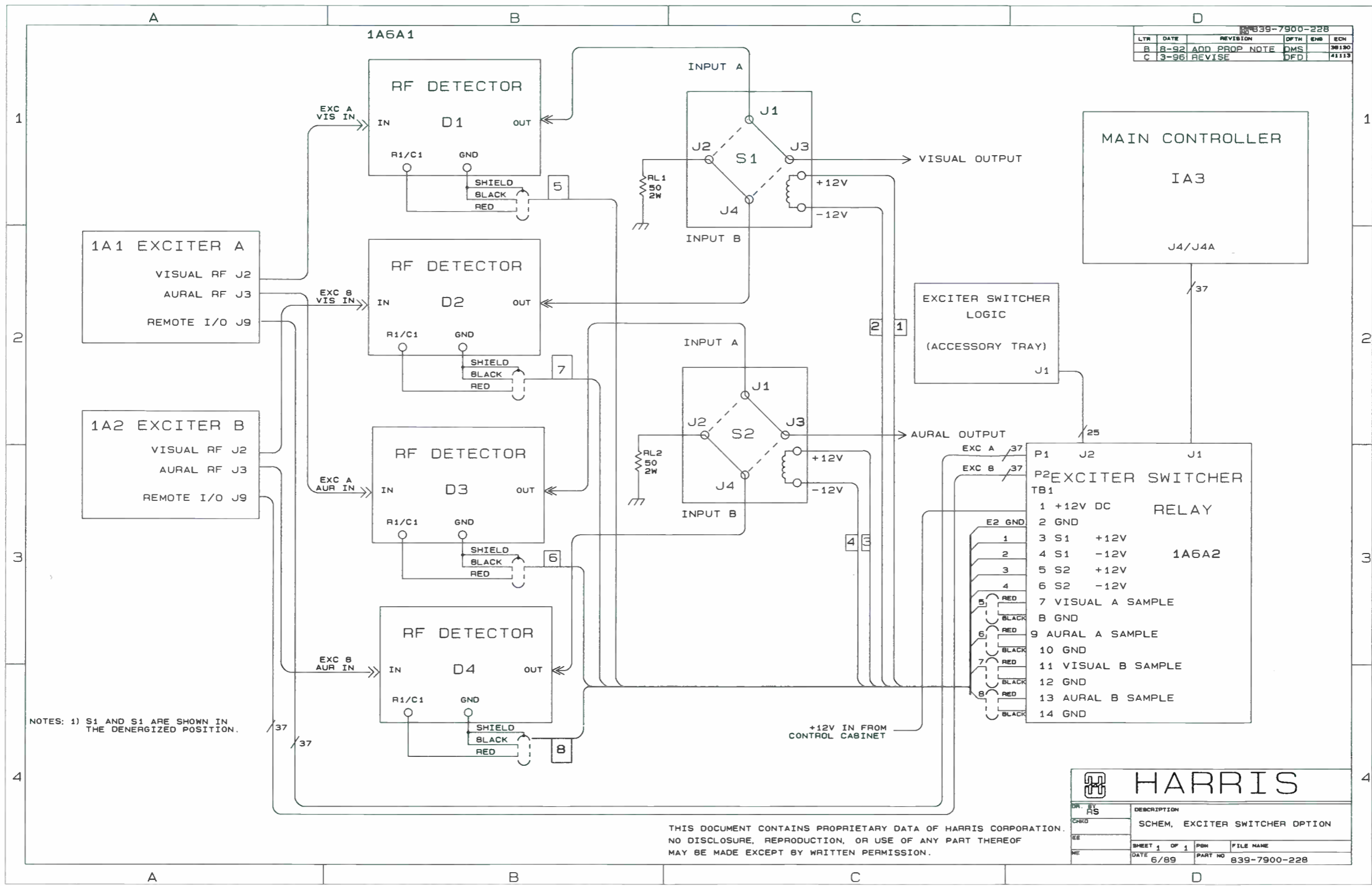


HARRIS

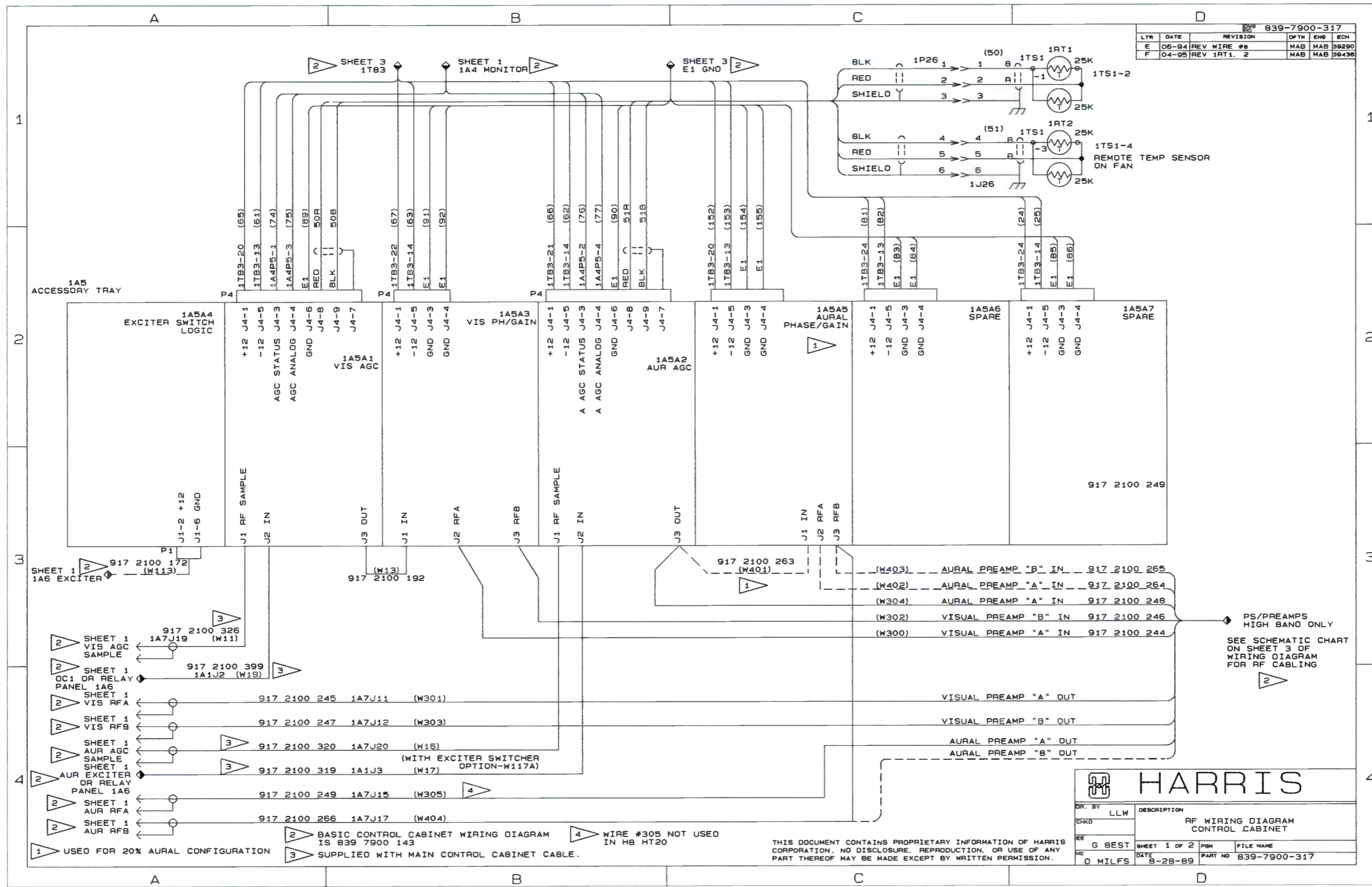
DR. BY	DFG	DESCRIPTION	SCHEMATIC SLAVE CONTROLLER
CHKD			
EE		SHEET 8 OF 9	FILE NAME 8397900\SCH\200.8
ME		DATE 11-15-89	PART NO 839-7900-200



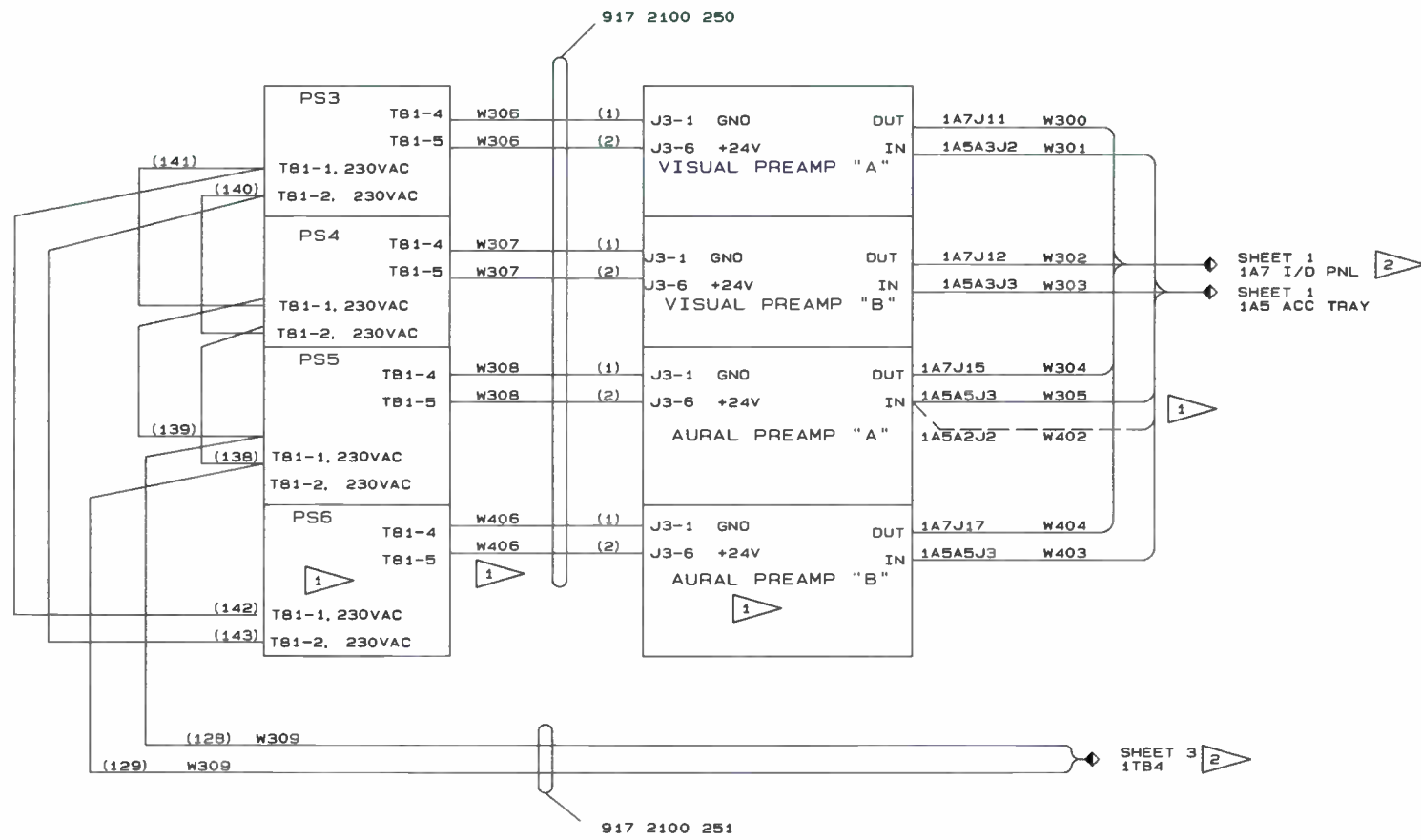
LTR	DATE	REVISION	BY	CHKD	ENH	EDN
B	8-92	ADD PROP NOTE	DMS			30190
C	3-96	REVISE	DFD			41113



HARRIS	
DR. BY RS	DESCRIPTION SCHEM. EXCITER SWITCHER OPTION
CHKD	
DATE 6/89	FILE NAME PART NO 839-7900-228

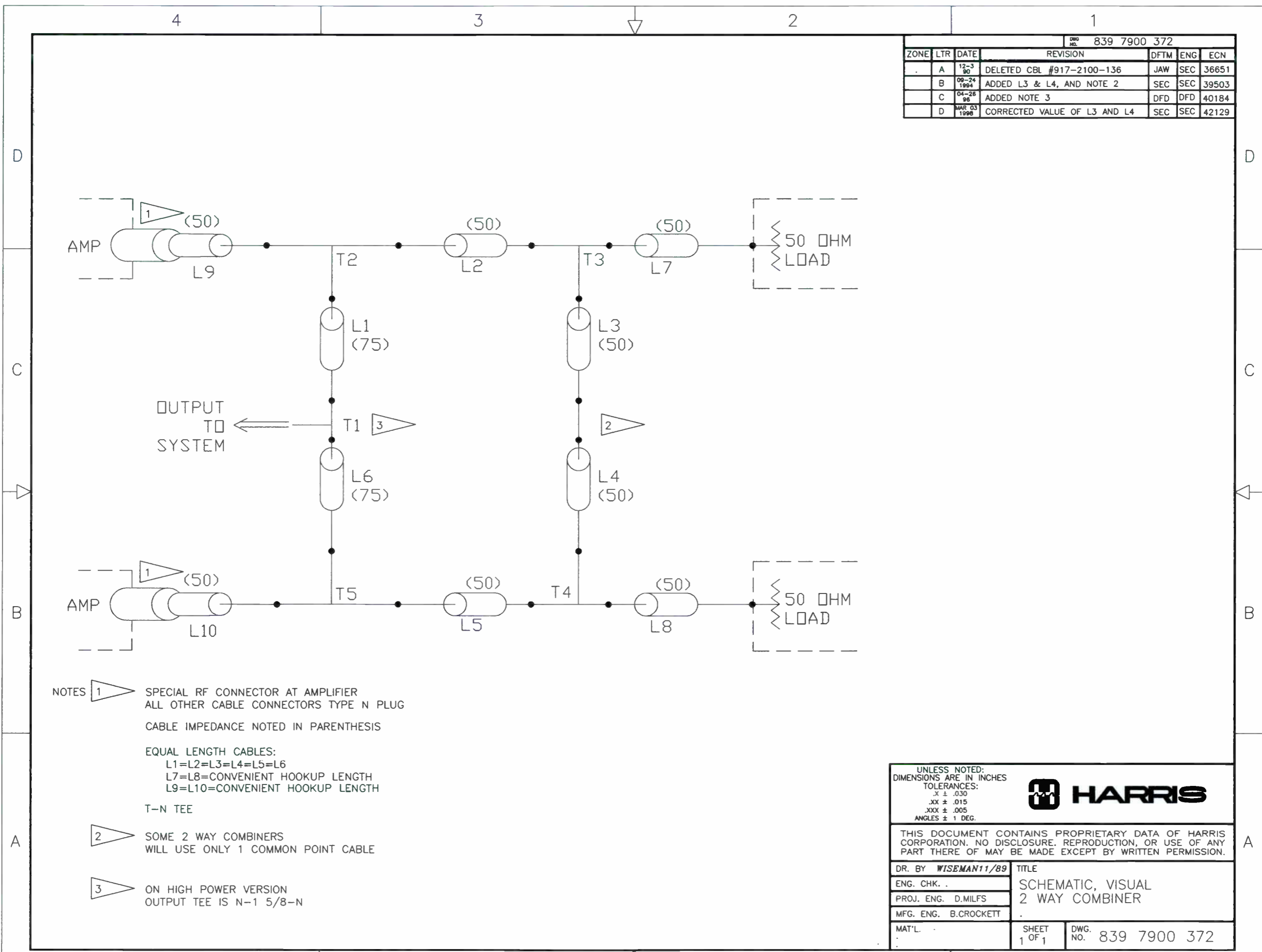


839-7900-317			
LYR	DATE	REVISION	DRN
B	12/89	REVISED	LW 35510
D	3-91	REV DESCRIPTION	RWS 86933



		DESCRIPTION	
		WIRING DIAGRAM CONTRDL CABINET	
DR. BY	LW	SHEET 2 OF	PNM
CHKD		DATE	FILE NAME
EE	G BEST	8-29-89	839-7900-317
DR	D MILFS	PART NO	

		DWG NO. 839 7900 372				
ZONE	LTR	DATE	REVISION	DFTM	ENG	ECN
.	A	12-3 90	DELETED CBL #917-2100-136	JAW	SEC	36651
.	B	09-24 1994	ADDED L3 & L4, AND NOTE 2	SEC	SEC	39503
.	C	04-26 96	ADDED NOTE 3	DFD	DFD	40184
.	D	MAR 03 1998	CORRECTED VALUE OF L3 AND L4	SEC	SEC	42129



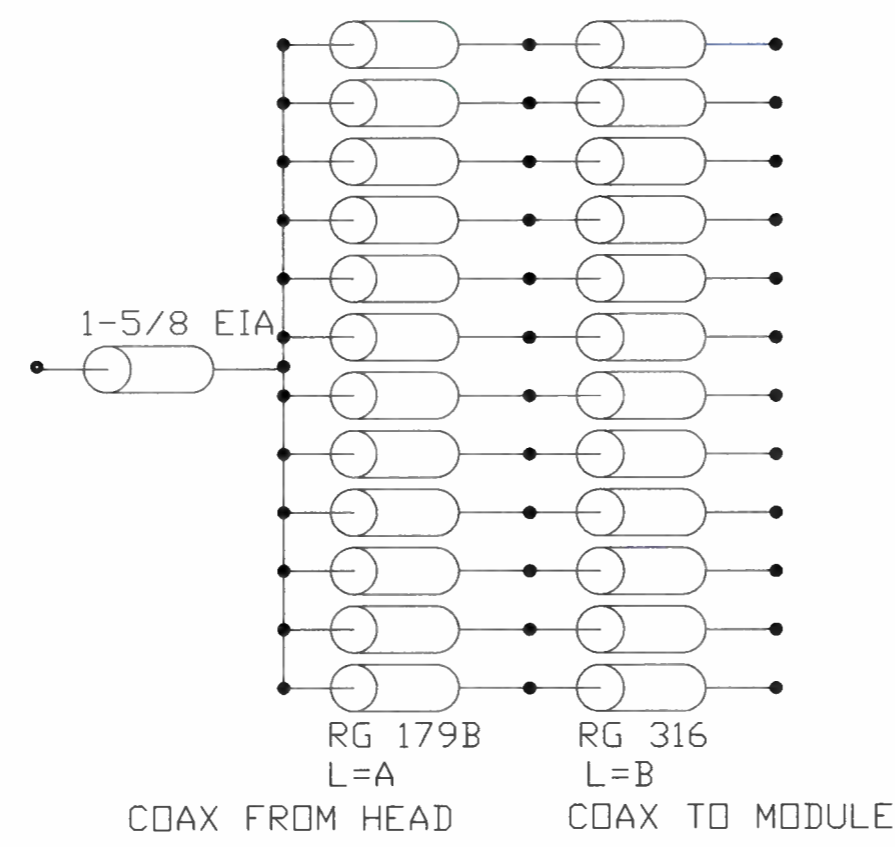
- NOTES
- 1 SPECIAL RF CONNECTOR AT AMPLIFIER
ALL OTHER CABLE CONNECTORS TYPE N PLUG
CABLE IMPEDANCE NOTED IN PARENTHESIS
 - EQUAL LENGTH CABLES:
L1=L2=L3=L4=L5=L6
L7=L8=CONVENIENT HOOKUP LENGTH
L9=L10=CONVENIENT HOOKUP LENGTH
 - T-N TEE
 - 2 SOME 2 WAY COMBINERS
WILL USE ONLY 1 COMMON POINT CABLE
 - 3 ON HIGH POWER VERSION
OUTPUT TEE IS N-1 5/8-N

UNLESS NOTED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
.X ± .030
.XX ± .015
.XXX ± .005
ANGLES ± 1 DEG.

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DR. BY WISEMAN11/89	TITLE
ENG. CHK. .	SCHEMATIC, VISUAL
PROJ. ENG. D.MILFS	2 WAY COMBINER
MFG. ENG. B.CROCKETT	.
MAT'L .	SHEET 1 OF 1
.	DWG. NO. 839 7900 372



NOTES

REV	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
A	.		6-23-90	---	DVS	36281
ADDED CABLE INFORMATION						
B	.		07-19-1994	SEC	SEC	39373
DELETED NOTES						

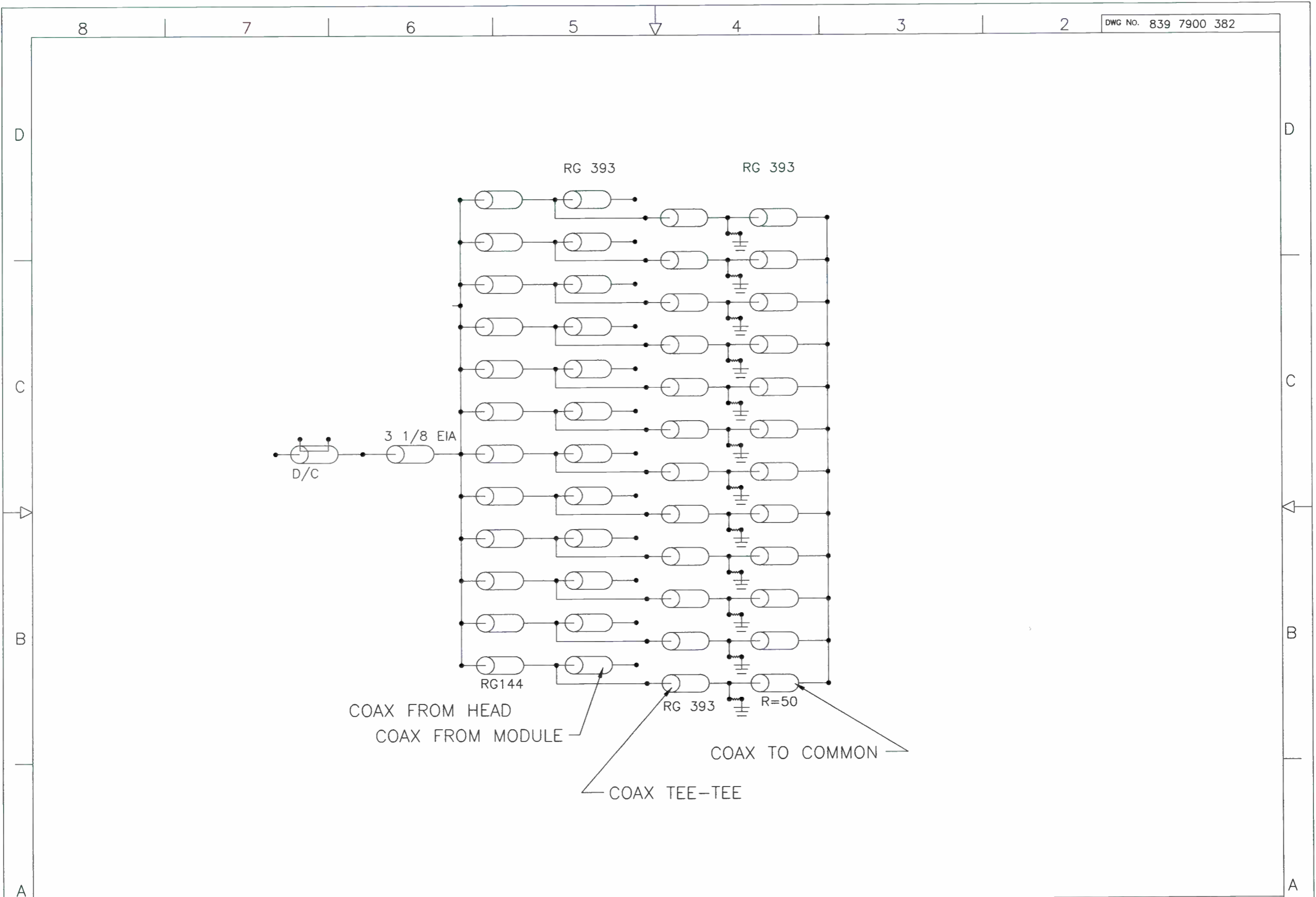


HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	MILFS
DATE	-
ENG CHK	-
PROJ ENG	MILFS
MFG ENG	CROCKETT
C	SHEET 1 OF 1

TITLE
 SCHEM, 12WAY DIVIDER
 VISUAL
 -
 DWG NO. 839-7900-381

REV B



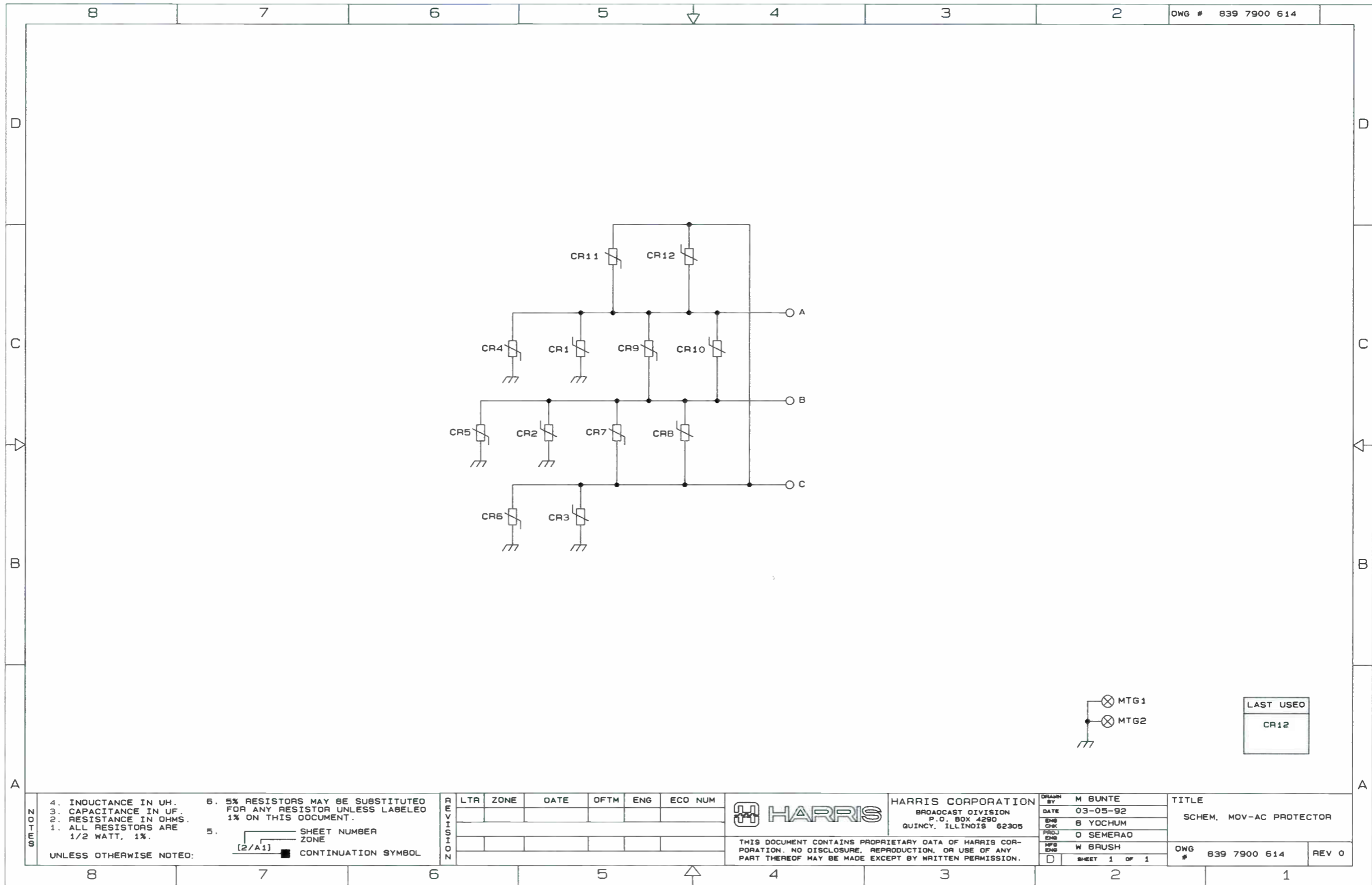
NOTES

REV	DATE	BY	CHK	DESCRIPTION
F	09-24-1994	SEC	SEC	38502
DELETED LENGTH DATA				
G	10-12-99	VRM	JF	ECN 45317
RECREATED AUTOCAD DWG. NO CHANGE				

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 QUINCY, ILLINOIS 62305

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DRAWN BY	MILFS	TITLE
DATE	-	SCHEMATIC, 12 WAY COMBINER VISUAL
ENG CHK	-	-
PROJ ENG	MILFS	-
MFG ENG	CROCKETT	DWG NO. 839 7900 382
C	SHEET 1 OF 1	REV G



4. INDUCTANCE IN UH.
 3. CAPACITANCE IN UF.
 2. RESISTANCE IN OHMS.
 1. ALL RESISTORS ARE
 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED
 FOR ANY RESISTOR UNLESS LABELED
 1% ON THIS DOCUMENT.

5. SHEET NUMBER
 ZONE
 [2/A1] CONTINUATION SYMBOL

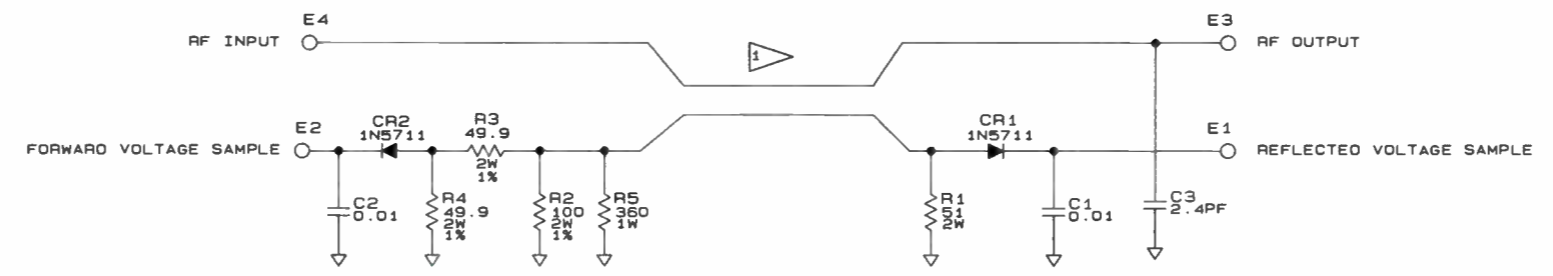
REVISION	DATE	ENG	ECO NUM

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 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DATE	03-05-92
ENG	B YOCHUM
CHK	O SEMERAO
DRG	W BRUSH
REV	D

TITLE	SCHEM. MOV-AC PROTECTOR
DWG #	839 7900 614
REV	0

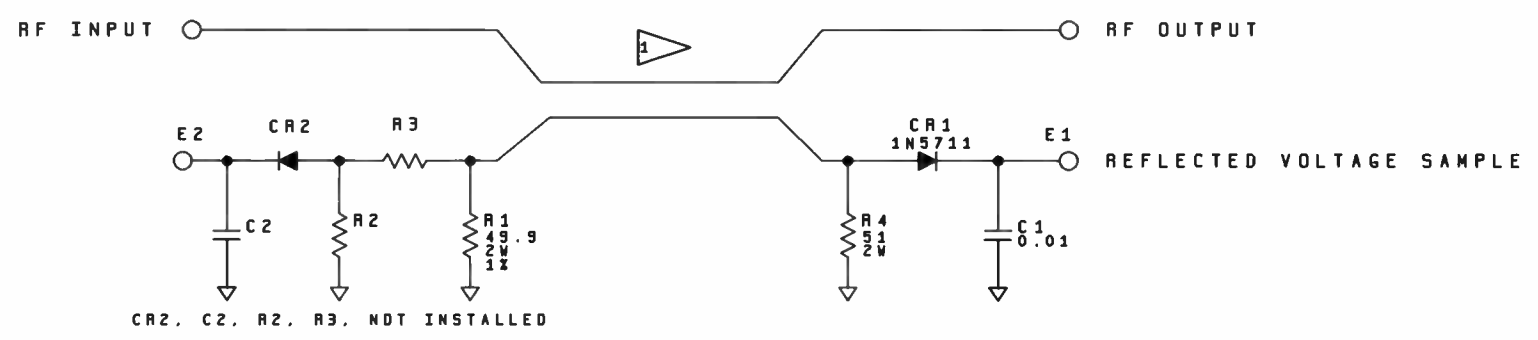
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1 COUPLER IS PART OF PWB

REVISION	LTR	ZONE	DATE	OFTM	ENG	ECO NUM		HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRWN BY	M BUNTE	TITLE	SCHEM. LB COUPLER OC 80 OWG # 839 7900 641 REV A	
	A		9-21-92	OFO	TWO	PLT2-050			DATE	05-03-92	ENR		T OITTMER
	ADD C3, R5								PROJ ENR	R MORTIMORE			
UNLESS OTHERWISE NOTED:							THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.		DESIGNED BY	R CROCKETT	SHEET 1 OF 1		

- 4. INDUCTANCE IN UH.
- 3. CAPACITANCE IN UF.
- 2. RESISTANCE IN OHMS.
- 1. ALL RESISTORS ARE 1/2 WATT, 1%.
- 6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.
- 5. SHEET NUMBER ZONE [2/A1] CONTINUATION SYMBOL



COUPLER IS PART OF PWB

4. INDUCTANCE IN UH.
 3. CAPACITANCE IN UF.
 2. RESISTANCE IN OHMS.
 1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

5. SHEET NUMBER ZONE (2/A1) CONTINUATION SYMBOL

UNLESS OTHERWISE NOTED,

REV	LTR	ZONE	DATE	DFTM	ENG	ECD NUM
A			05-10-93	MAB	MAB	38557
REV R1-4						
B			9-29-99	JPK		45125
DEL CR1, C2, R2, R3, E2 LABEL; CHG R1 TO 49.9						

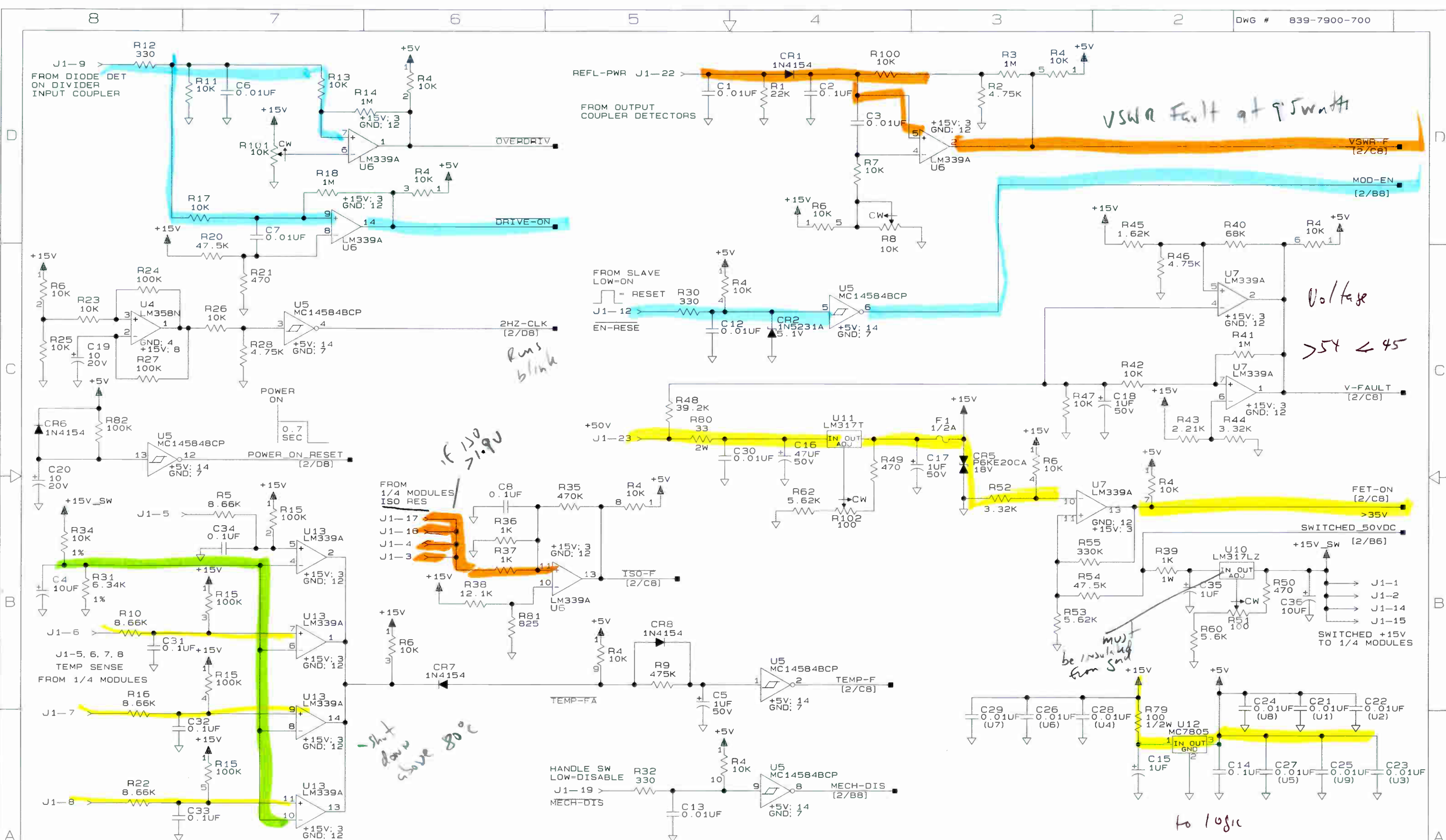
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 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DATE	BY	TITLE
05-03-92	M BUNTE	SCHEM. HB COUPLER DC BD
	T DITTMER	
	R MDRTINDRE	
	R CRDCKETT	

DWG #	839 7900 642	REV B
SHEET	1 of 1	



4. INDUCTANCE IN UH.
 3. CAPACITANCE IN UF.
 2. RESISTANCE IN OHMS.
 1. ALL RESISTORS ARE 1/2 WATT. 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

5. SHEET NUMBER ZONE
 [2/A1] CONTINUATION SYMBOL

UNLESS OTHERWISE NOTED:

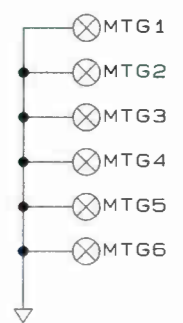
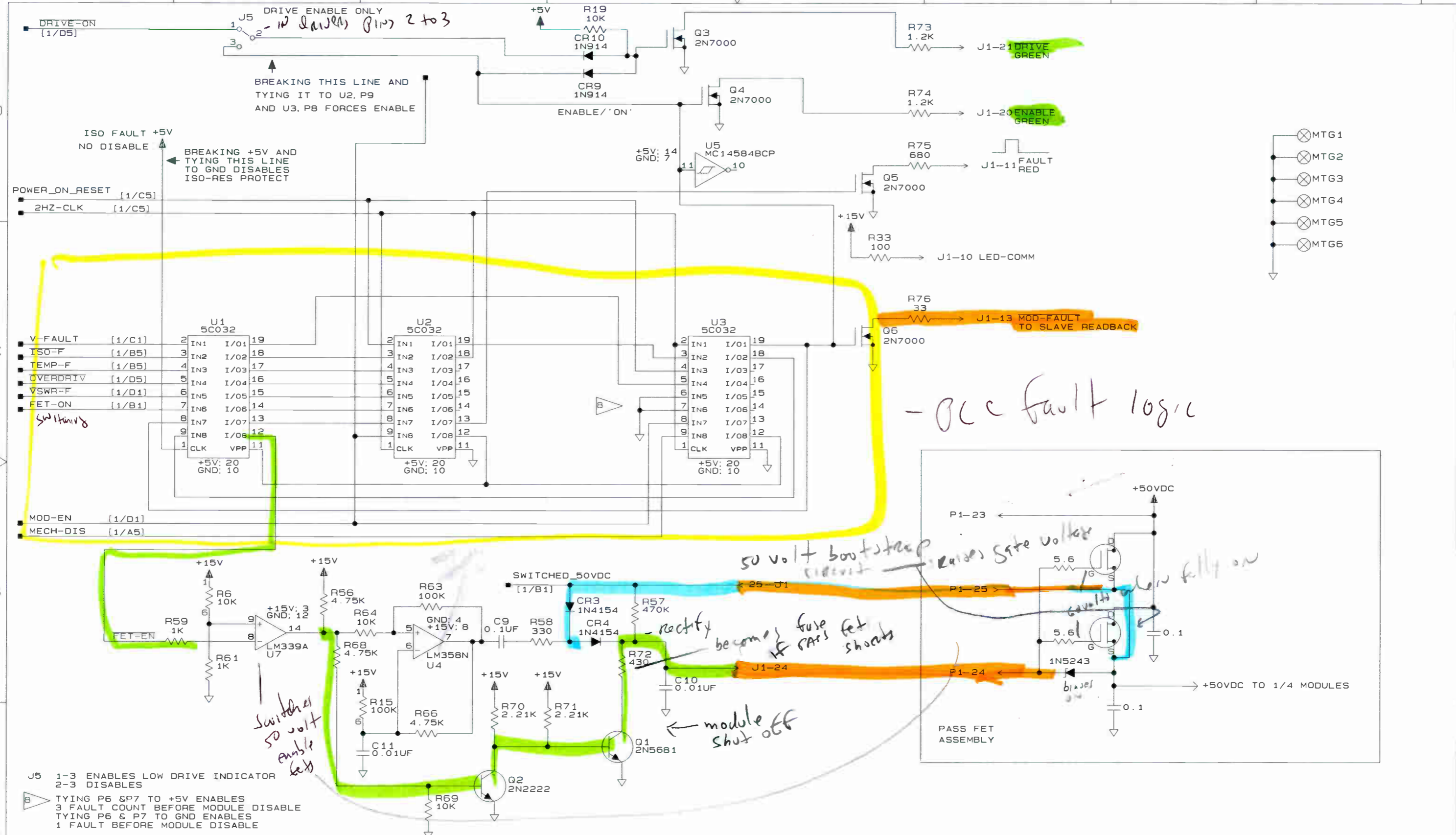
LTR	ZONE	DATE	DFTM	ENG	ECO NUM
E		05-04-96	MAB	MAB	41187
ADD CR8, REV R9					
F		7-17-98	DFD	DFD	42263
REVISE SHEET 2					

HARRIS CORPORATION
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 QUINCY, ILLINOIS 62305

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DRAWN BY	J SECCIA	TITLE	SCHEM. MODULE CONTROL BD
DATE	11-24-93	DWG #	839-7900-700
ENG CHK	D NICKELL	REV	F
PROJ. ENG	D DANIELSONS	SHEET	1 OF 2
MFG ENG	R CROCKETT		



- o/c fault logic

J5 1-3 ENABLES LOW DRIVE INDICATOR
2-3 DISABLES

TYING P6 & P7 TO +5V ENABLES
3 FAULT COUNT BEFORE MODULE DISABLE
TYING P6 & P7 TO GND ENABLES
1 FAULT BEFORE MODULE DISABLE

4. INDUCTANCE IN UH.
3. CAPACITANCE IN UF.
2. RESISTANCE IN OHMS.
1. ALL RESISTORS ARE 1/2 WATT, 1%.

5. SHEET NUMBER ZONE
CONTINUATION SYMBOL

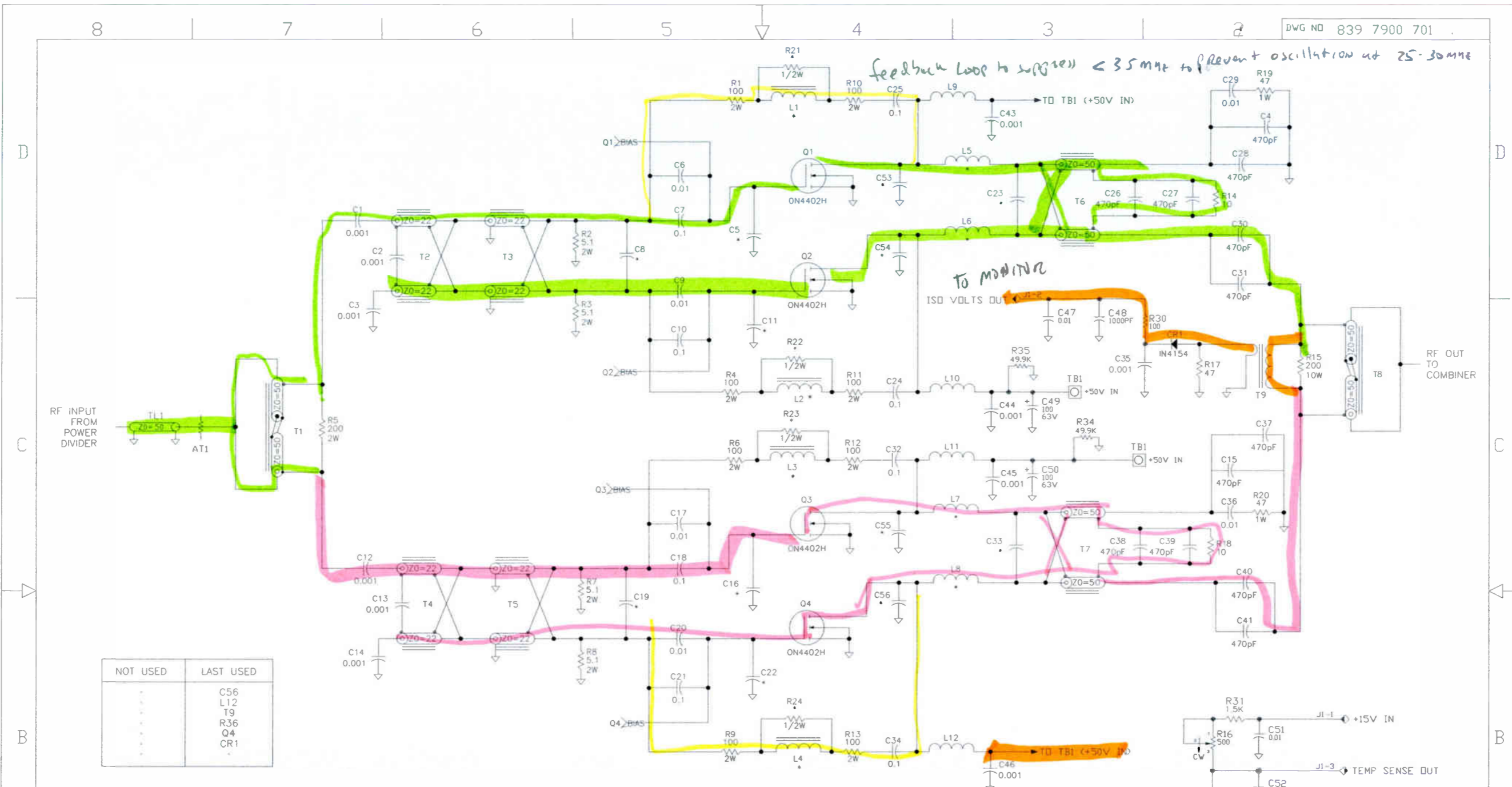
REV	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
A			1-10-94	DFD	JLS	VMI-09
REVISE CIRCUIT						
F			7-17-98	DFD	DFD	42263
CHG UB.U9 TO Q3, Q4, Q5, Q6						



HARRIS CORPORATION
BROADCAST DIVISION
P.O. BOX 4290
QUINCY, ILLINOIS 62305

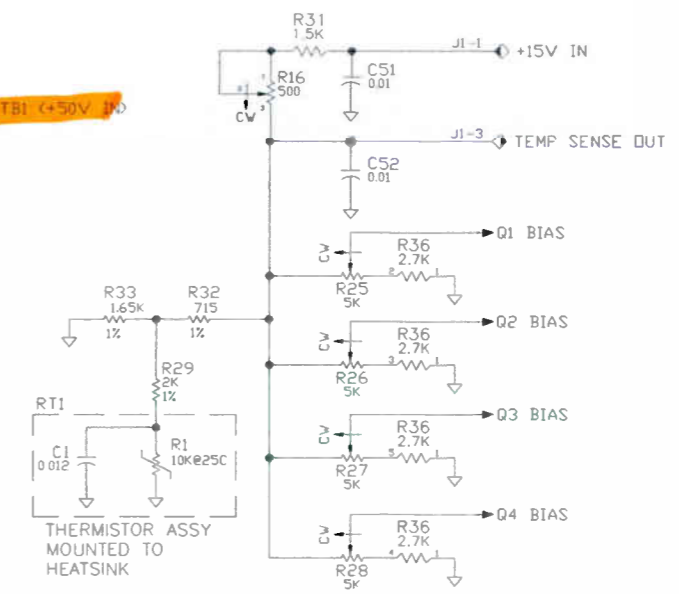
DRAWN BY	J SECCIA
DATE	11-24-93
ENG CHK	D NICKELL
PROJ ENG	D DANIELSONS
HFG ENG	R CROCKETT
D	SHEET 2 OF 2

TITLE	SCHEM. MODULE CONTROL 8D
DWG #	839-7900-700
REV	F



NOT USED	LAST USED
	C56
	L12
	T9
	R36
	Q4
	CR1

RF PWA - FD PARTS	CHANNEL #E2	Channel #2	Channel #E3	Channel #3	Channel #E4	Channel #4	Channel #5	Channel #6
L1,L2,L3,L4	917 2100 710 20T	917 2100 710 20T	917 2100 710 20T	917 2100 711 13T	917 2100 711 13T	917 2100 711 13T	917 2100 711 13T	917 2100 711 13T
C8,C19	519 0060 000 270 PF	519 0060 000 270 PF	519 0060 000 270 PF	519 0052 000 120 PF	519 0052 000 120 PF	519 0052 000 120 PF	519 0052 000 120 PF	519 0052 000 120 PF
C23, C33	519 0041 000 43 PF	519-0036-000 27 PF	519 0034 000 22 PF	519 0038 000 33 PF	519 0038 000 33 PF	519 0041 000 43 PF	519 0041 000 43 PF	519 0041 000 43 PF
AT1 (SELECT IN TEST)	917 2100 612 ATTENUATOR	917 2100 612 ATTENUATOR	917 2100 612 ATTENUATOR	917 2100 612 ATTENUATOR	917 2100 612 ATTENUATOR	917 2100 612 ATTENUATOR	917 2100 612 ATTENUATOR	917 2100 612 ATTENUATOR
C5a, C11a, C16a, C22a	519 0067 000 CAP 510 PF	519 0060 000 CAP 270 PF	519 0060 000 CAP 270 PF	519 0060 000 CAP 270 PF	519 0060 000 CAP 270 PF	519 0066 000 CAP 470 PF	519 0066 000 CAP 270 PF	519 0060 000 CAP 270 PF
C5b, C11b, C16b, C22b	N/A	519 0060 000 CAP 270 PF	519 0060 000 CAP 270 PF	519 0060 000 CAP 270 PF	519 0060 000 CAP 270 PF	N/A	519 0060 000 CAP 270 PF	519 0060 000 CAP 270 PF
L5, L6, L7, L8	917 2100 643 LOOP 2.0 IN	917 2100 644 LOOP 1.85 IN	917 2100 645 LOOP 1.85 IN	917 2100 646 LOOP 1.8 IN	917 2100 647 LOOP 1.8 IN	917 2100 648 LOOP 1.7 IN	917 2100 649 LOOP 1.25 IN	917 2100 650 LOOP 1.2 IN
TL1 (SELECT IN TEST)	917 2442 001 PH SHIFT COAX	917 2442 001 PH SHIFT COAX	917 2442 001 PH SHIFT COAX	917 2442 001 PH SHIFT COAX	917 2442 001 PH SHIFT COAX	917 2442 001 PH SHIFT COAX	917 2442 001 PH SHIFT COAX	917 2442 001 PH SHIFT COAX
R21, R22, R23, R24	548 2400 330 2K OHM, 1/2W	548 2400 330 2K OHM, 1/2W	548 2400 330 2K OHM, 1/2W	548 2400 277 619 OHM 1/2W	548 2400 277 619 OHM 1/2W	548 2400 277 619 OHM 1/2W	548 2400 277 619 OHM 1/2W	548 2400 277 619 OHM 1/2W
C53, C54, C55, C56	519 0048 000 82 PF	N/A	N/A	N/A	N/A	N/A	N/A	N/A



N * DENOTES COMPONENT WHOSE VALUE IS FREQUENCY DEPENDENT (NOT ALL PARTS ARE USED AT ALL FREQUENCIES)
 L INDUCTANCE IN uH
 C CAPACITANCE IN pF
 R RESISTANCE IN OHMS
 ALL RESISTORS ARE 1/4 WATT, 5% TOL UNLESS OTHERWISE NOTED:

REV	DATE	ENG	ECO NBR
L	12-3-98	JPK	42510
M	5-8-01	JPK	47237

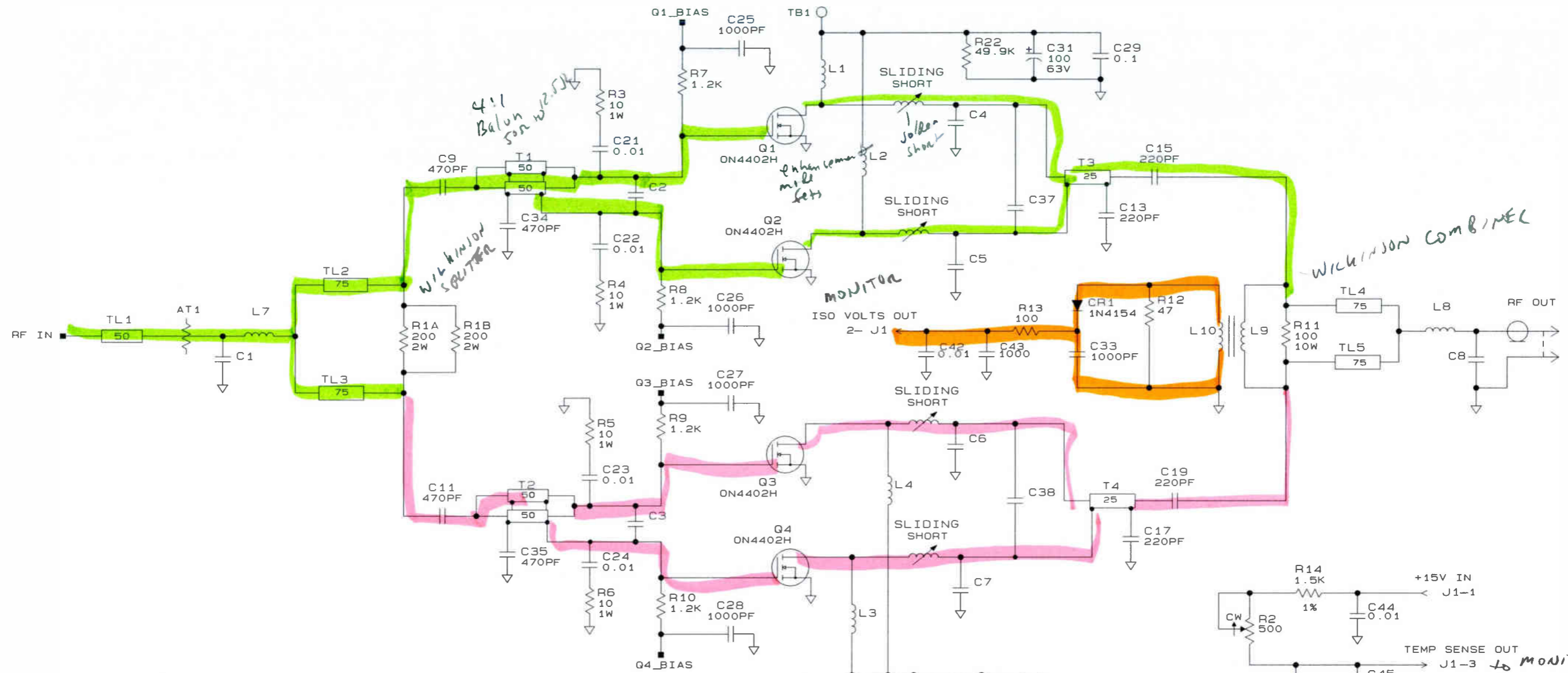
CHG TBL: C23,C33 (CH2,3,E4); NEW LOGO
 TABLE: ADD R21,R22,R23,R24 TO CHANNELS E4/4/5

HARRIS CORPORATION
 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRAWN BY J SECCIA
 DATE 12-08-93
 ENG CHK D NICKELL
 PRD J SECCIA
 HFG R SANDIDGE
 C SHEET 1 OF 1

TITLE SCHEM, LB 1/4 MODULE
W/ PASSIVE BIAS
 PLATINUM 3
 DWG NO 839 7900 701
 REV M



REFDES	CHANNEL									
	7, E5	8, E6	9, E7	10	11, E8	12, E9	13, E10	E11	E12	
TL1	TRIM IN TEST TO SET PHASE									
AT1	SELECTED IN TEST TO SET GAIN									
T1, 2	11.00" 2-50 OHM COAXES					9.97" 1-50 OHM COAX				
T3, 4	11.00" 1-25 OHM COAX					9.97" 1-25 OHM COAX				
C1	N/A	N/A	N/A	N/A	10pF	10pF	5.1pF	6.2pF	10pF	
L7	RIBBON	RIBBON	RIBBON	RIBBON	LOOP	LOOP	LOOP	LOOP	LOOP	
C2, 3	91pF	91pF	91pF	91pF	75pF	75pF	68pF	62pF METALCLAD	52pF METALCLAD	
C37, 38	6.2pF	18pF	18pF	27pF	12pF	12pF	12pF	12pF	12pF	
L8	2T COIL	2T COIL	2T COIL	2T COIL	LOOP	LOOP	LOOP	RIBBON	RIBBON	
C8	12pF	12pF	12pF	12pF	N/A	N/A	N/A	N/A	N/A	
C4, 5, 7, B	47pF	100pF	100pF	100pF	100pF	100pF	100pF	100pF	100pF	

NOTES
 4. INDUCTANCE IN UH.
 3. CAPACITANCE IN UF.
 2. RESISTANCE IN OHMS.
 1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

5. SHEET NUMBER ZONE
 (2/A1) CONTINUATION SYMBOL

UNLESS OTHERWISE NOTED:

REV	DATE	ENG	ECO	NUM
E	11-21-95	MAB	MAB	40254
F	12-3-98	JPK	JPK	42510

REV FD CHART C1 (CH12, E9) C2, 3 (CH 13-E10)

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 BROADCAST SYSTEMS
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 QUINCY, ILLINOIS 62305

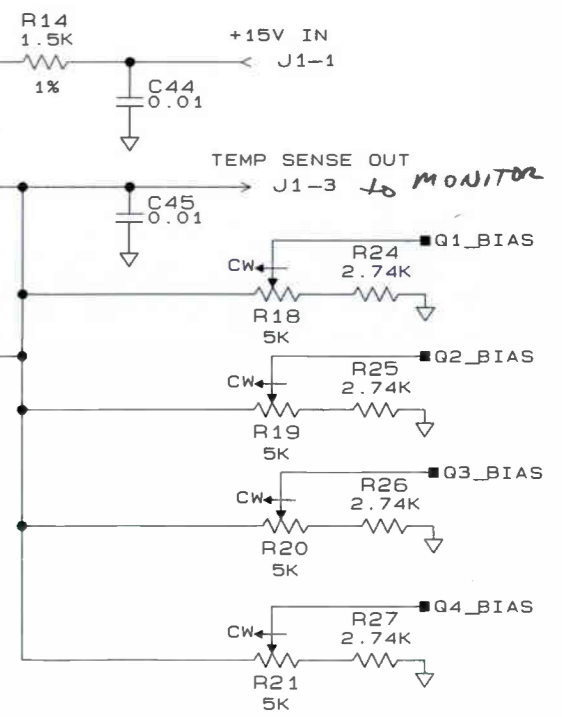
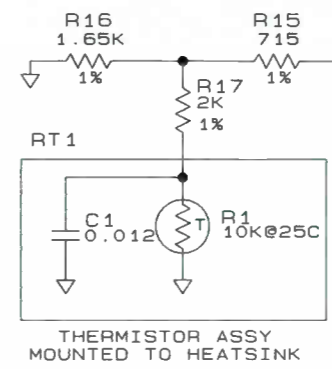
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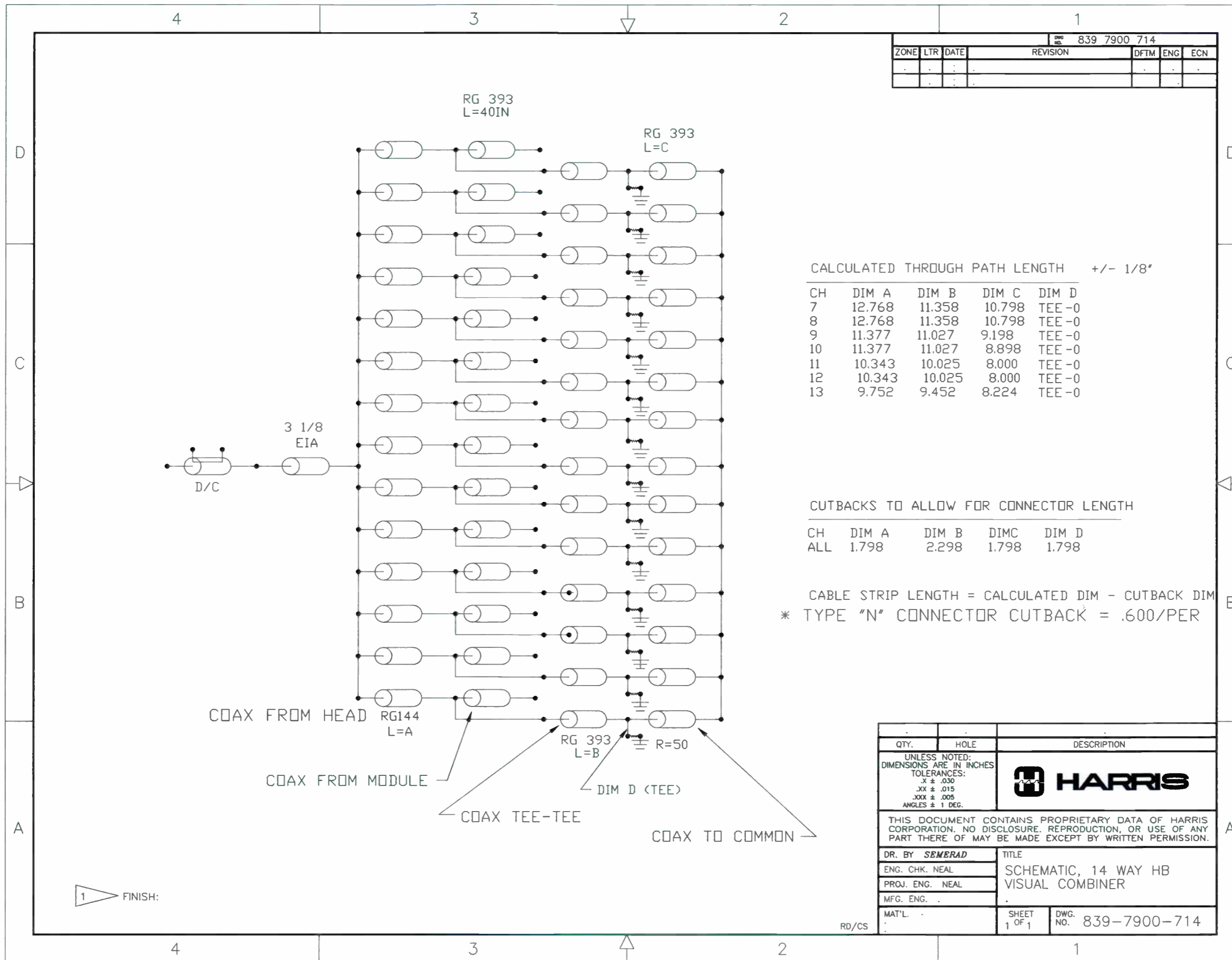
DRAWN BY: J SECCIA
 DATE: 12-06-93
 ENG CHK: D NICKELL
 PRD: J SECCIA
 MFG ENG: R CROCKETT

TITLE: SCHEM. HB 1/4 MODULE W/ PASSIVE BIAS

DWG # B39 7900 702
 REV F

*helps to monitor
 thermal
 coupled to heat
 sink between
 amplifiers
 keeps
 operating point
 constant.*





839 7900 714						
ZONE	LTR	DATE	REVISION	DFTM	ENG	ECN

CALCULATED THROUGH PATH LENGTH +/- 1/8"

CH	DIM A	DIM B	DIM C	DIM D
7	12.768	11.358	10.798	TEE-0
8	12.768	11.358	10.798	TEE-0
9	11.377	11.027	9.198	TEE-0
10	11.377	11.027	8.898	TEE-0
11	10.343	10.025	8.000	TEE-0
12	10.343	10.025	8.000	TEE-0
13	9.752	9.452	8.224	TEE-0

CUTBACKS TO ALLOW FOR CONNECTOR LENGTH

CH	DIM A	DIM B	DIM C	DIM D
ALL	1.798	2.298	1.798	1.798

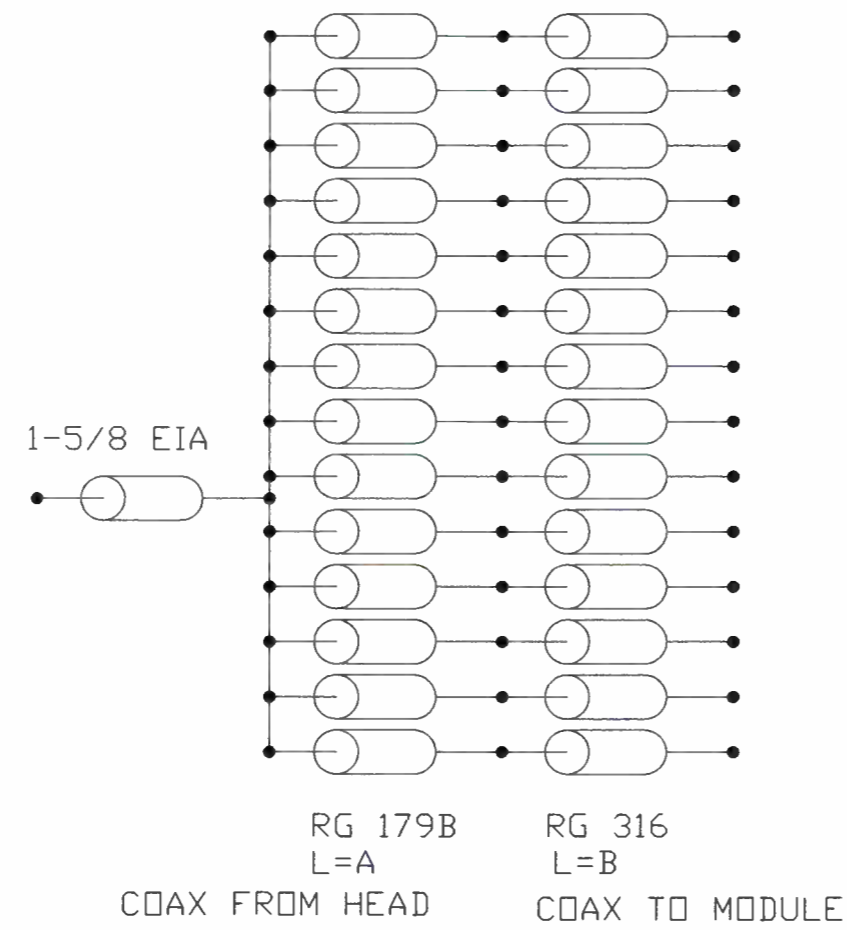
CABLE STRIP LENGTH = CALCULATED DIM - CUTBACK DIM
 * TYPE "N" CONNECTOR CUTBACK = .600/PER

QTY.	HOLE	DESCRIPTION
UNLESS NOTED: DIMENSIONS ARE IN INCHES TOLERANCES: .X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG.		
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DR. BY SEMERAD	TITLE	
ENG. CHK. NEAL	SCHEMATIC, 14 WAY HB	
PROJ. ENG. NEAL	VISUAL COMBINER	
MFG. ENG. .	.	
MAT'L. .	SHEET 1 OF 1	DWG. NO. 839-7900-714

1 FINISH:

RD/CS

DWG. NO. 839 7900 715			REVISION	DFTM	ENG	ECN
ZONE	LTR	DATE				
.	.	.				
.	.	.				
.	.	.				



CALCULATED THROUGH PATH LENGTH

CH	DIM A	DIM B
HB	10.237	34.769

+/- 1/8"

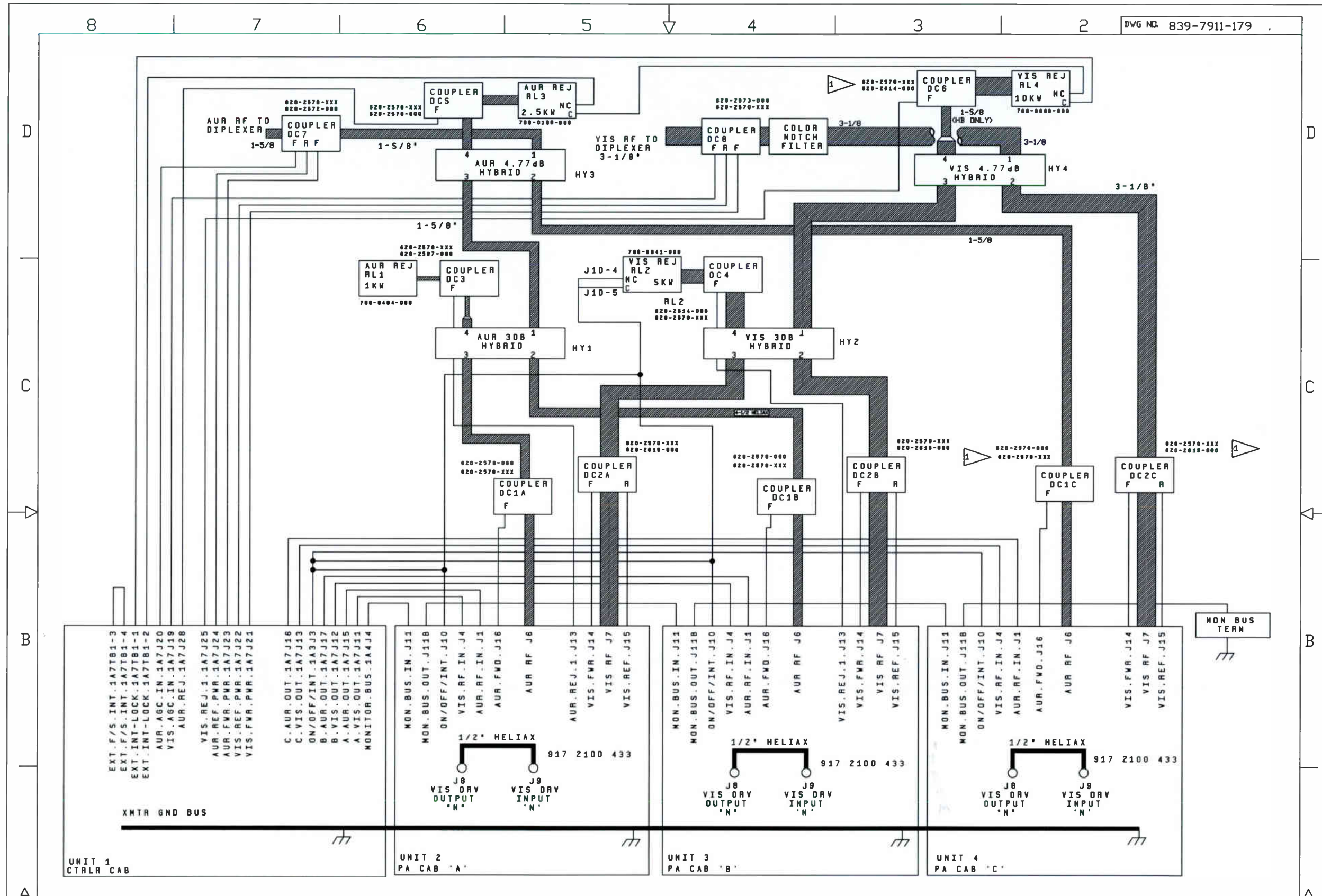
CUTBACKS TO ALLOW FOR CONNECTOR LENGTH

CH	DIM A	DIM B
ALL	.500	.499

CABLE STRIP LENGTH = CALCULATED DIM - CUTBACK DIM

1 FINISH:

QTY.	HOLE	DESCRIPTION
UNLESS NOTED: DIMENSIONS ARE IN INCHES TOLERANCES: .X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG.		HARRIS
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DR. BY SEMERAD	TITLE	
ENG. CHK. NEAL	SCHEMATIC 14 WAY HB	
PROJ. ENG. NEAL	VISUAL DIVIDER	
MFG. ENG.		
MAT'L.	SHEET 1 OF 1	DWG. NO. 839-7900-715



NOTES
 1 XXX INDICATES CHANNEL DEPENDENT COMP

LTR	ZONE	DATE	DFTM	ENG	ECO NBR
B		12/16/96	PJF		41315
ADDED LABEL TO COAX					
C		AUG 15, 1998	SEC		42297
MOVED CONNECTION POINT OF COUPLERS					

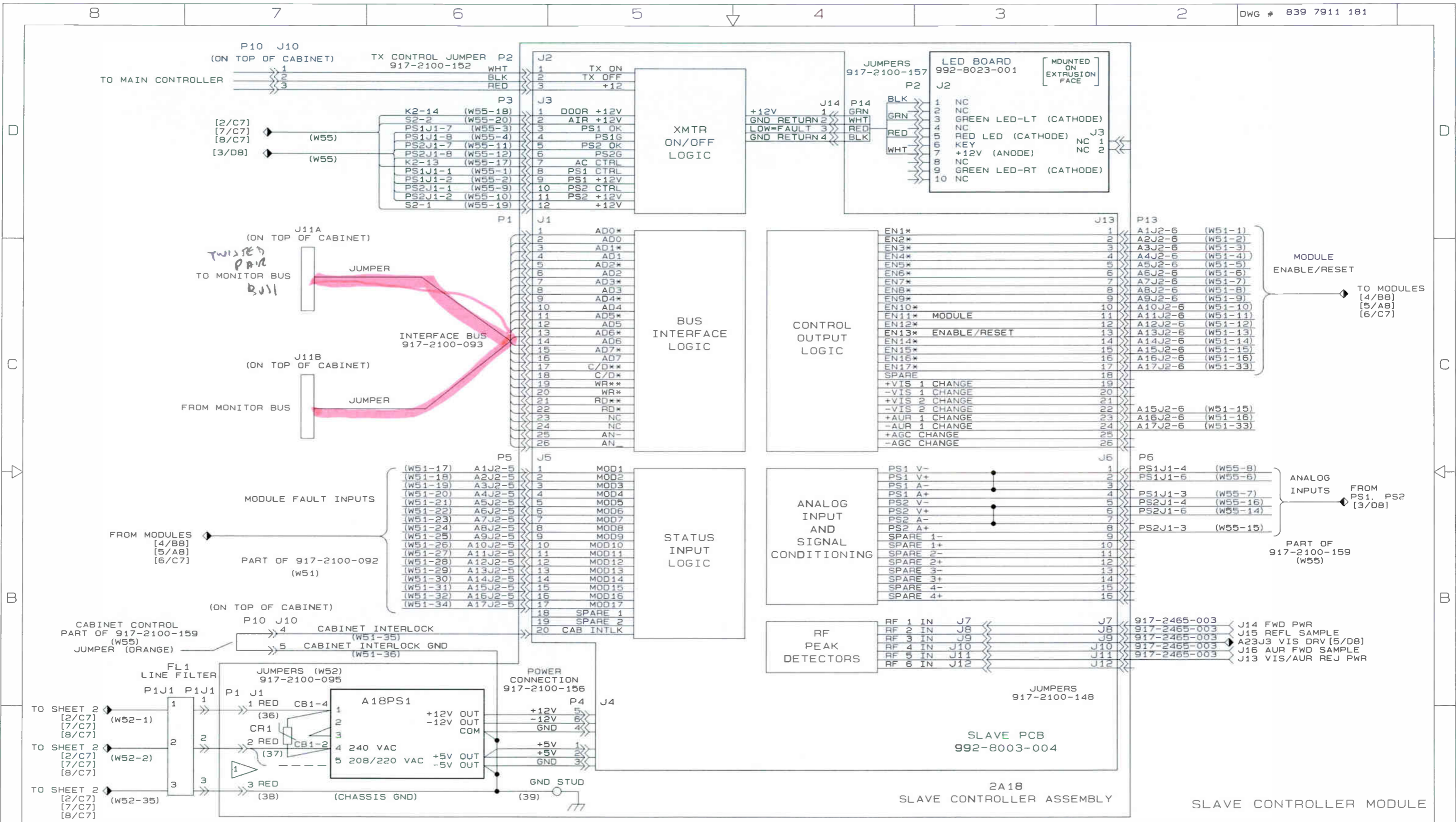


HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	K BUNTE
DATE	29 FEB 1996
ENG CHK	R MORTIMORE
PROJ ENG	R MORTIMORE
SEC ENG	-
CHK	-
C	SHEET 1 OF 1

TITLE
 DIAG, INTER-CONNECTION
 HT33LSP/HT30HSP

DWG NO. 839-7911-179
 REV C



WIRE NUMBERS SHOWN IN PARANTHESIS (WIRE #)
 ALL CONTACTS SHOWN WITH TRANSMITTER OFF CONDITION.

1 FOR 208VAC. CONNECT CB1-2 AND CR1 TO PIN 5.

— SHEET NUMBER
 [2/A1] CONTINUATION SYMBOL

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
C			11/5/98	JPK		42446
CHG SHEET 5; NEW LOGO						
B			4/98	CAN	CAN	42206
CONVERT TO WV, ADD 480V AND NEW PWR SUPPLY INFO						

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 QUINCY, ILLINOIS 62305

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DRAWN BY	DATE	ENG CHK	PRDJ ENG	MFG ENG	TITLE
C NEAL	29 FEB 96	MORTIMORE	C NEAL	D MYERS	WIRING DIAG, VIS AUR PA
SHEET 1 OF 8					DWG # 839 7911 181
					REV C

CUSTOMER SUPPLIED
INPUT LINES
3 PHASE AC

C - PHASE 1
B - PHASE 2
A - PHASE 3

MOV ASSEMBLY
992-8553-001
A B C

K1
AC CONTACTOR

TO A18FL1 SHEET 1 [1/A8] (W52-35) GND STUD NEAR K2

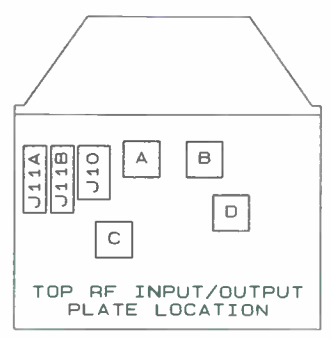
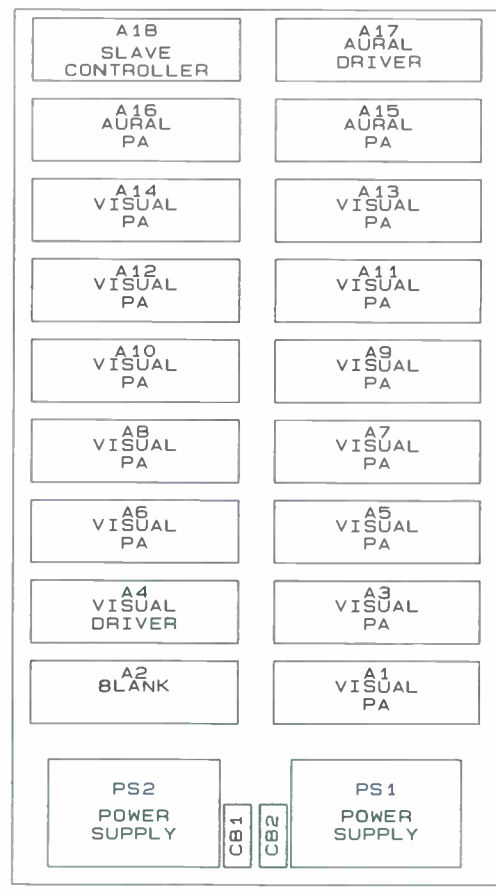
TO A18FL1 SHEET 1 [1/AB] (W52-1)

TO A18FL1 SHEET 1 [1/AB] (W52-2)

TO A18J3 SHEET 1 [1/D7] (W55-17-20)

VOLT	FREQ	PART NUMBER
208V	60HZ	570-0314-000
220V	50HZ	570-0314-002
240V	60HZ	570-0314-002
240V	50HZ	570-0314-003
220V	60HZ	570-0314-008

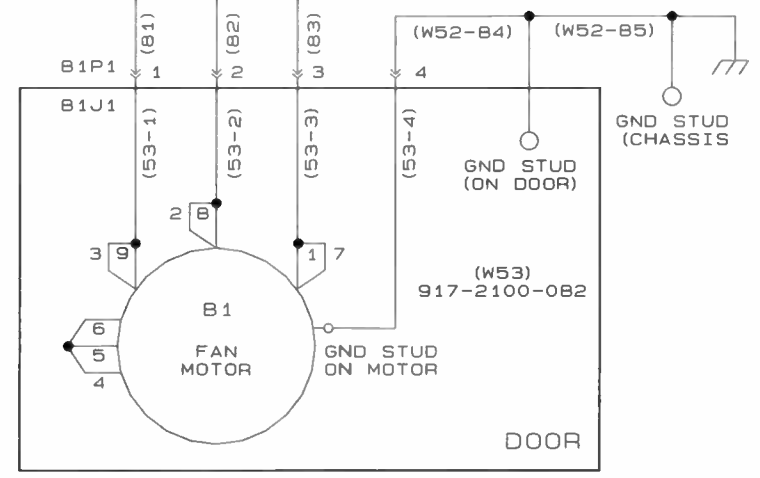
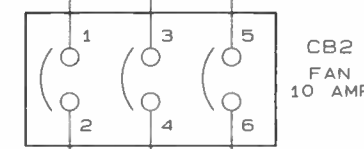
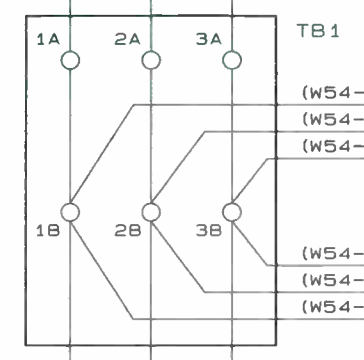
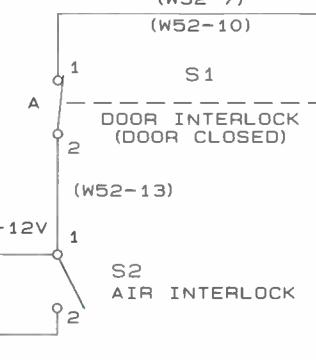
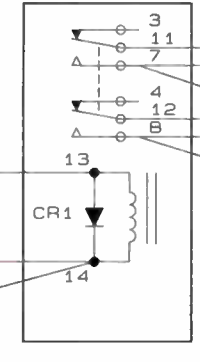
AURAL & VISUAL PA CABINET
10KW 10% AURAL



TOP VIEW

A = 3 1/8" OUTPUT
B = 1 5/8" AURAL OUTPUT
C = 939-7911-181
D = 1 5/8" SPLITTER INPUT

Power
K2
AUX RELAY



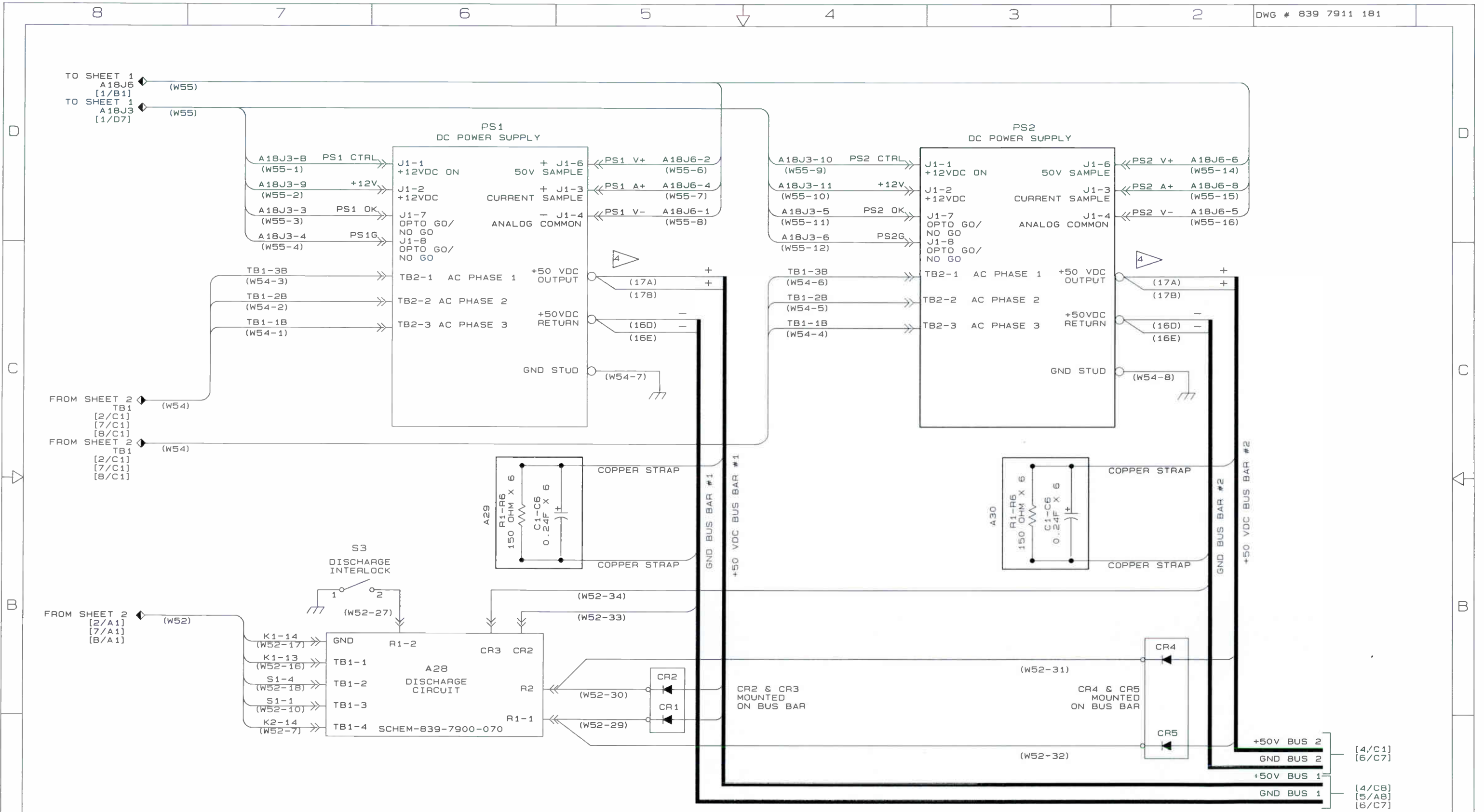
AC WIRING - 208/240V
3 WIRE DELTA

REV	DESCRIPTION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
C				11/5/98	JPK	JPK	42446
CHG SHEET 5: NEW LOGO							
B				4/98	CAN	CAN	42206
CONVERT TO WV							

HARRIS
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

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BY	DATE	CHK	PRD	MFG	ENG	TITLE
C NEAL	29 FEB 96	MORTIMORE	C NEAL	D MYERS	D	WIRING DIAG. VIS AUR PA
SHEET 2 OF 8						DWG # 839 7911 181
						REV C



AC WIRING POWER SUPPLIES

WIRES 16 AND 17 1/0 AWG STRANDED SUPPLIED WITH POWER SUPPLY

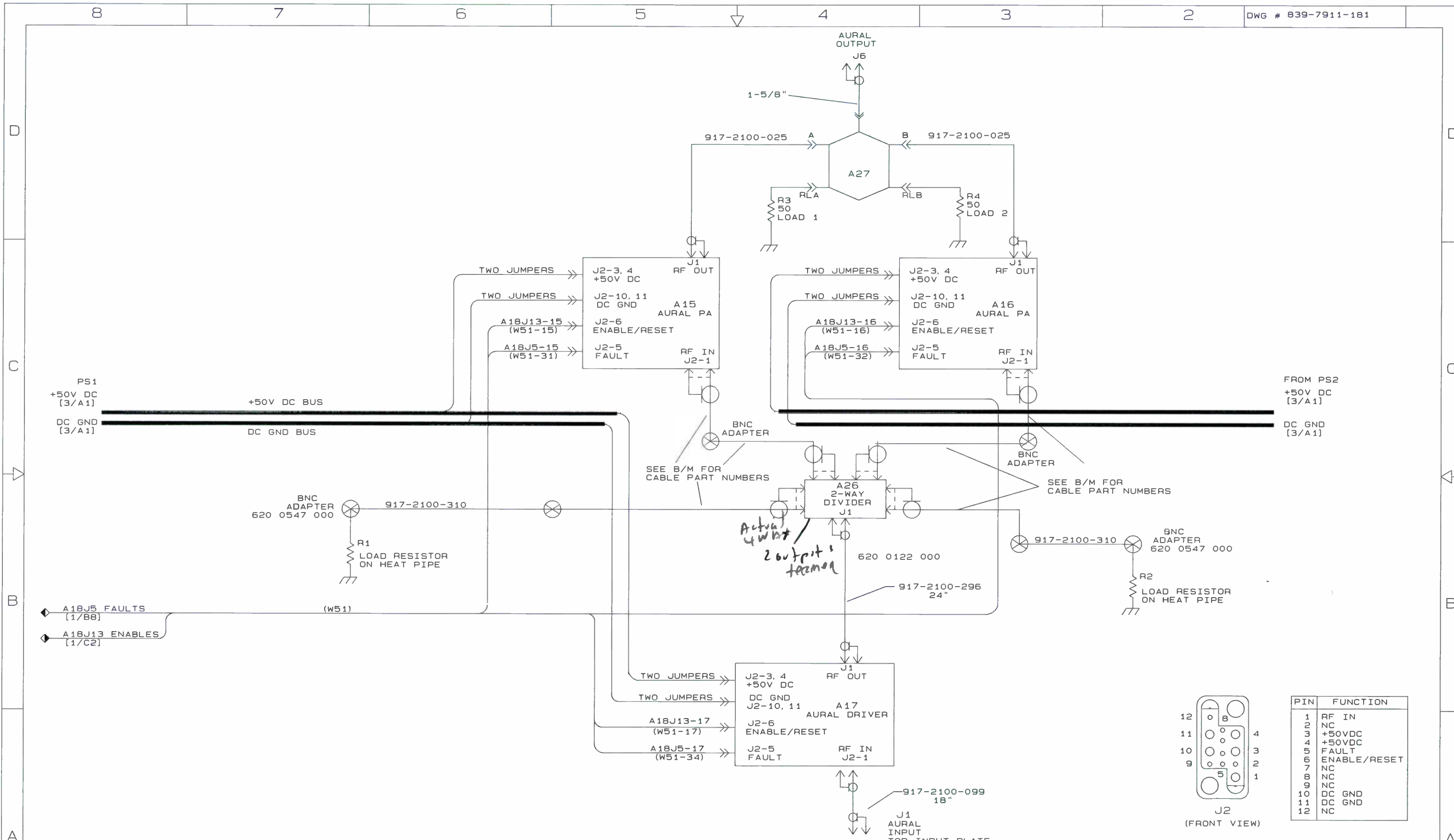
REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
C			11/5/98	JPK	JPK	42446
CHG SHEET 5: NEW LOGO						
B			4/98	CAN	CAN	42206
CONVERT TO WV. UPDATE PWR SUPPLY INFO						

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DRAWN BY	C NEAL
DATE	29 FEB 96
ENG CHK	MORTIMORE
PRJ ENG	C NEAL
MFG ENG	D MYERS
SHEET	3 OF B

TITLE	WIRING DIAG. VIS AUR PA	
DWG #	839 7911 181	REV C

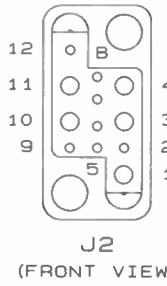
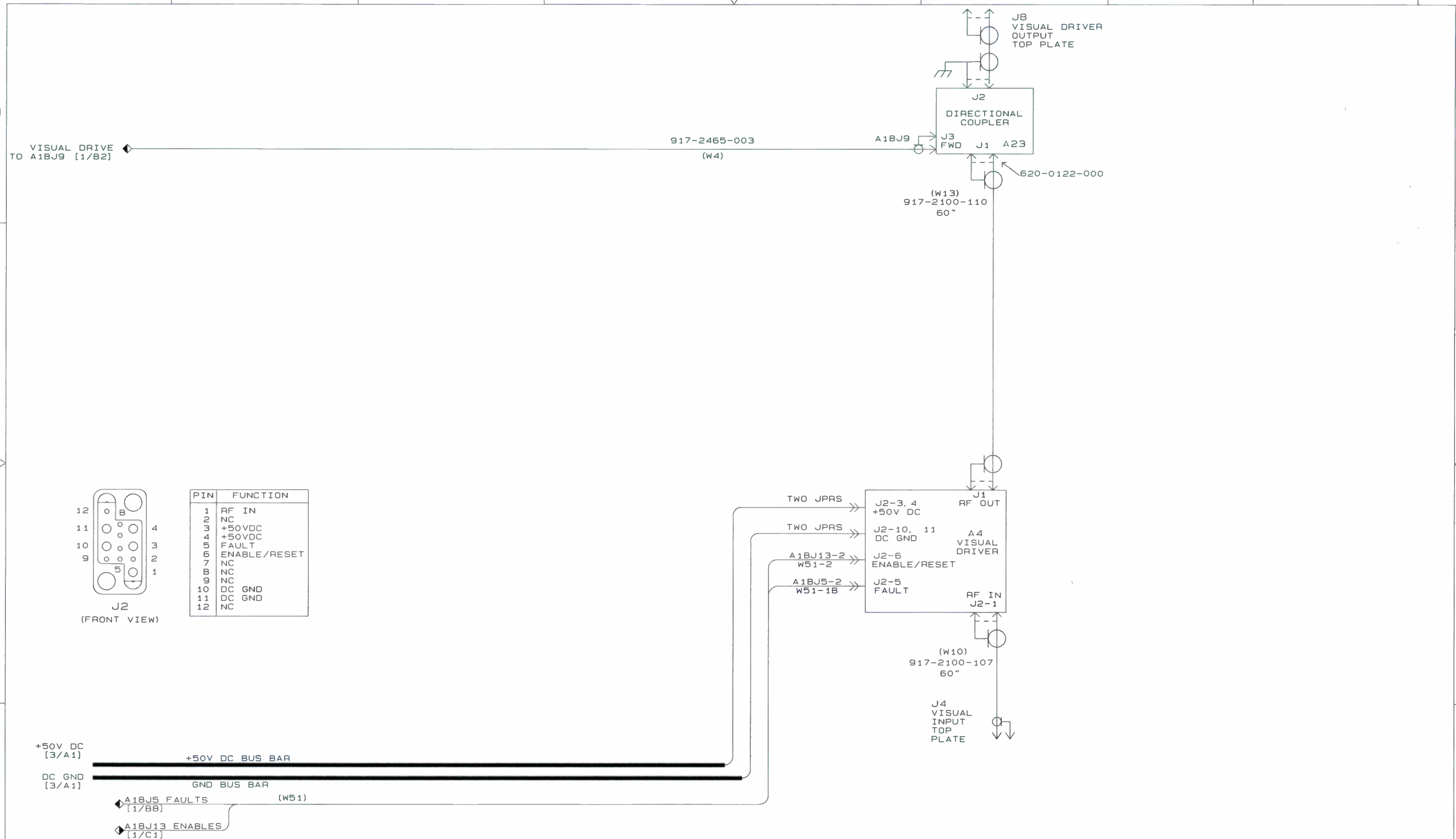


REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
C			11/5/98	JPK	JPK	42446
CHG SHEET 5; NEW LOGO						
B			4/98	CAN	CAN	42206
CONVERT TO WV						

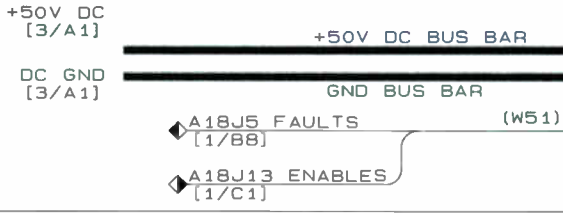
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DRAWN BY	C NEAL	TITLE	WIRING DIAG. VIS AUR PA
DATE	29 FEB 96	DWG #	839-7911-181
ENG CHK	MORTIMORE	REV	C
PRDJ	C NEAL		
MFG ENG	C NEAL		
SHEET	4 OF 8		



PIN	FUNCTION
1	RF IN
2	NC
3	+50VDC
4	+50VDC
5	FAULT
6	ENABLE/RESET
7	NC
8	NC
9	NC
10	DC GND
11	DC GND
12	NC



REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
	C		11/5/9B		JPK	42446
	A4 WAS A2; NEW LOGO					
	B		4/9B	CAN	CAN	42206

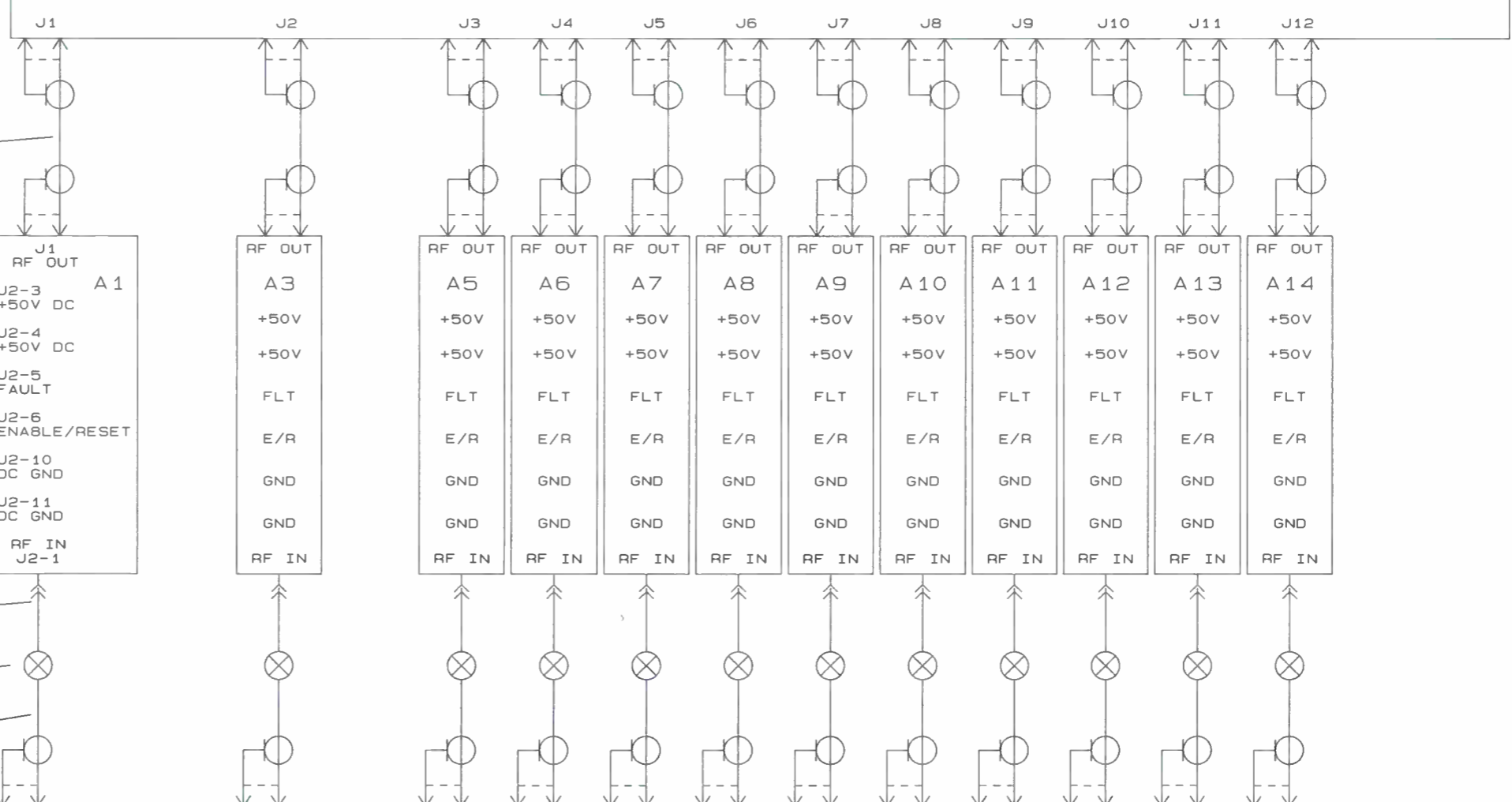
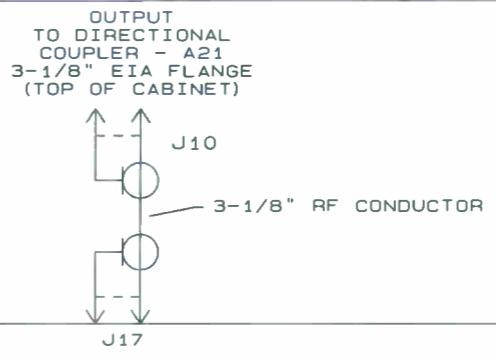
CONVERT TO WV

HARRIS
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BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

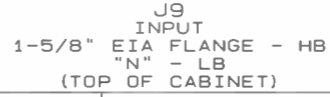
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DRAWN BY	DATE	ENG CHK	PRDJ ENG	MFG ENG	TITLE	DWG #	REV
C NEAL	29 FEB 96	MORTIMORE	C NEAL	D MYERS	WIRING DIAG, VIS AUR PA	839-7911-1B1	C
SHEET 5 OF 8							

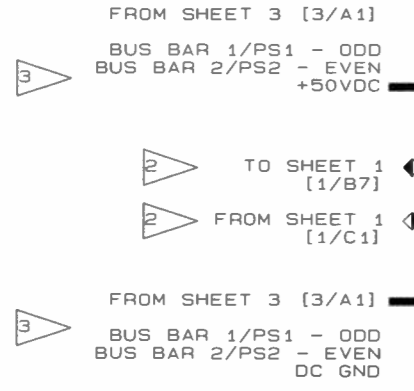
SCHEMATIC - 839-7900-382 A20
12 WAY COMBINER



SCHEMATIC - 839-7900-381 A19
12 WAY DIVIDER



RF INTERCONNECT



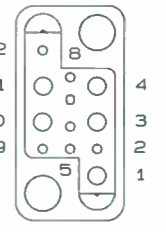
917-2100-025
(TYPICAL 12 PLACES)

POWER AMPLIFIER MODULE
(TYPICAL 12 PLACES)

917-2100-010
(TYPICAL 12 PLACES)

BNC ADAPTERS
(TYPICAL 12 PLACES)

FREQUENCY DETERMINED
SEE BILL OF MATERIAL
FOR PART NUMBER
(TYPICAL 12 PLACES)



PIN	FUNCTION
1	RF IN
2	NC
3	+50VDC
4	+50VDC
5	FAULT
6	ENABLE/RESET
7	NC
8	NC
9	NC
10	DC GND
11	DC GND
12	NC

PS1 SUPPLIES +50VDC TO ODD NUMBERED MODULES
PS2 SUPPLIES +50VDC TO EVEN NUMBERED MODULES

ON MODULES A1 THRU A16, THE ENABLE/RESET LINES
AND FAULT LINES CONNECT TO SLAVE CONTROLLER (SHEET 1)
A18J13-1 THRU -16 AND A18J5-1 THRU -16 RESPECTIVELY.

EXAMPLE: A3J2-6 CONNECTS TO A18J13-3
A10J2-5 CONNECTS TO A18J5-10

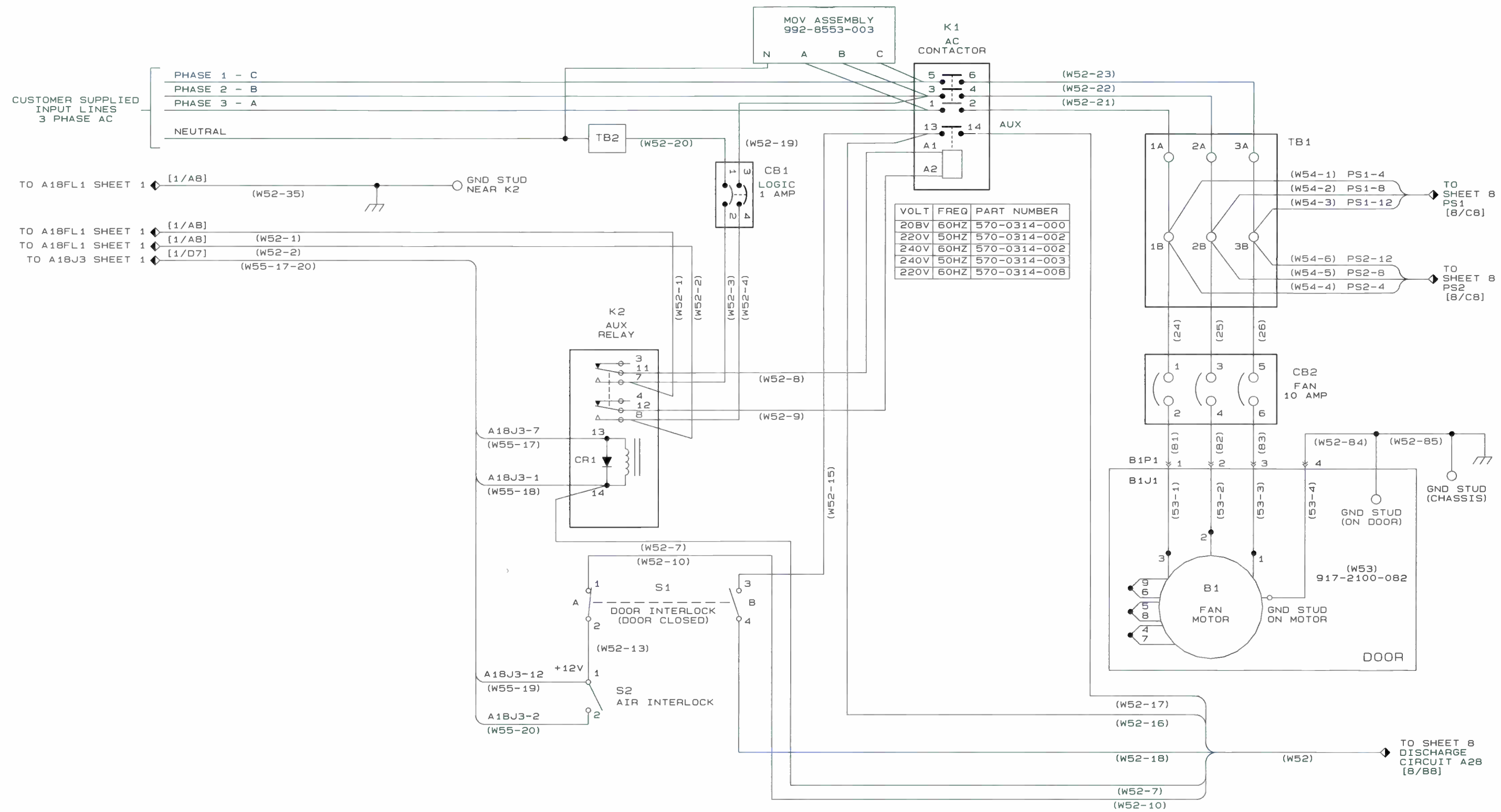
REV	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
1	C		11/5/98	JPK	JPK	42446
CHG SHEET 5; NEW LOGO						
2	B		4/98	CAN	CAN	42206
CONVERT TO WV						

HARRIS

HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

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DATE	BY	CHK	ENG	ENG	TITLE
29 FEB 96	C NEAL	MORTIMORE	C NEAL	D MYERS	WIRING DIAG. VIS AUR PA
DWG # 839 7911 181					REV C



VOLT	FREQ	PART NUMBER
20BV	60HZ	570-0314-000
220V	50HZ	570-0314-002
240V	60HZ	570-0314-002
240V	50HZ	570-0314-003
220V	60HZ	570-0314-008

AC WIRING - 380/415V
4 WIRE WYE

NOTES	REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM	HARRIS	HARRIS CORPORATION BROADCAST SYSTEMS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY	C NEAL	TITLE WIRING DIAG. VIS AUR PA	
		C		11/5/98	JKP	JKP	42446			DATE	29 FEB 98		
		CHG SHEET 5: NEW LOGO								ENG CHK	MORTIMORE		
		B		4/98	CAN	CAN	42206			PROJ ENG	C NEAL		
		CONVERT TO WV								MFG ENG	D MYERS		
										D	SHEET 7 OF 8	DWG # 839 7911 181	REV C

CUSTOMER SUPPLIED
INPUT LINES
3 PHASE AC

C - PHASE 1
B - PHASE 2
A - PHASE 3

MOV ASSEMBLY
992-8553-005
A B C

K1
AC
CONTACTOR

VOLT	FREQ	PART NUMBER
208V	60HZ	570-0314-000
220V	50HZ	570-0314-002
240V	60HZ	570-0314-002
240V	50HZ	570-0314-003
220V	60HZ	570-0314-008

TO A18FL1 SHEET 1 [1/A8] (W52-35) GND STUD NEAR K2

TO A18FL1 SHEET 1 [1/A8] (W52-1)

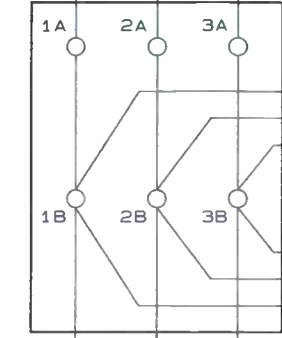
TO A18FL1 SHEET 1 [1/A8] (W52-2)

TO A18J3 SHEET 1 [1/D7] (W55-17-20)

K2
AUX
RELAY

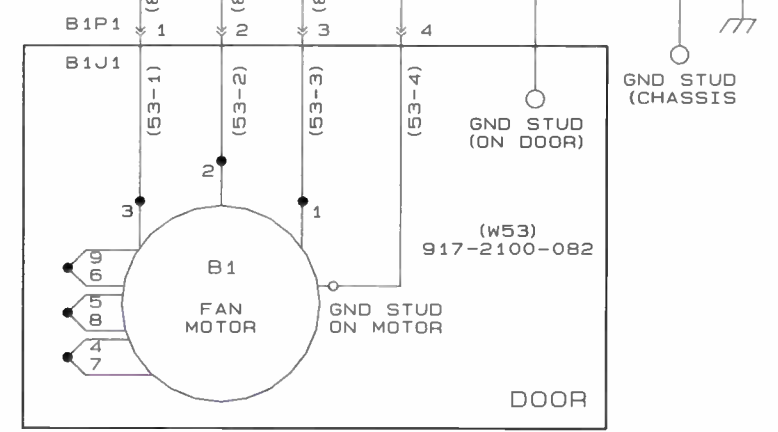
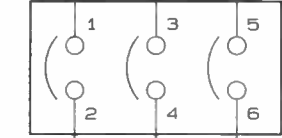
CB1
LOGIC
1 AMP

H1 T H2 480V
X1 X2 240V



TO SHEET 3
PS1
[3/CB]

TO SHEET 3
PS2
[3/CB]



AC WIRING - 480V
3 WIRE DELTA

TO SHEET 3
DISCHARGE
CIRCUIT A28
[3/B8]

SUM-TOZ

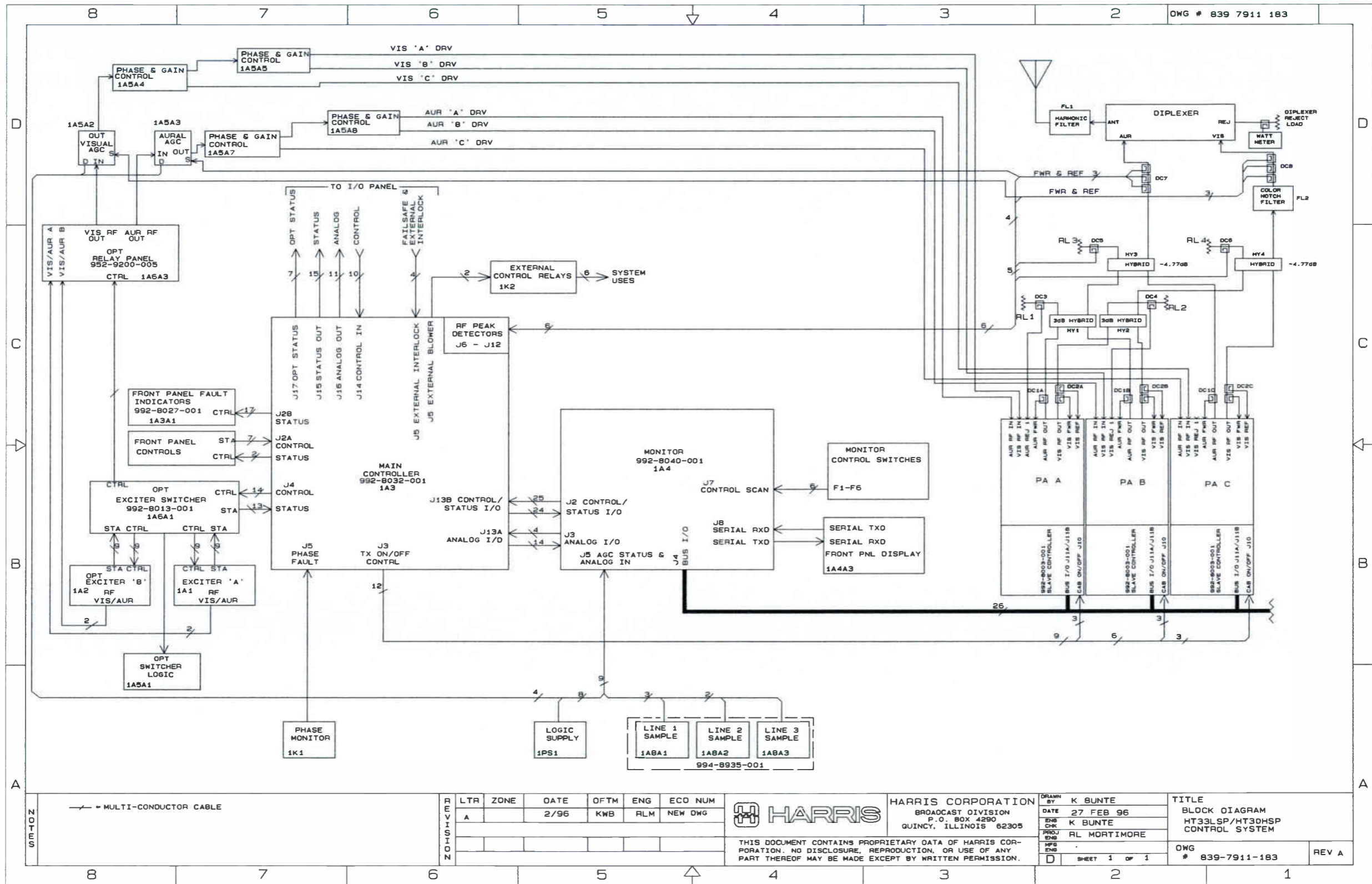
REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
	C		11/5/98	JPK	JPK	42446
CHG SHEET 5; NEW LOGO						
	B		4/98	CAN	CAN	42206
ADD 480V OPTION						



HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY	C NEAL
DATE	21 APR 98
ENG CHK	C NEAL
PRJ ENG	C NEAL
MFG ENG	D MYERS
D	SHEET 8 OF 8

TITLE	
WIRING DIAG. VIS AUR PA	
DWG #	839 7911 181
REV	C



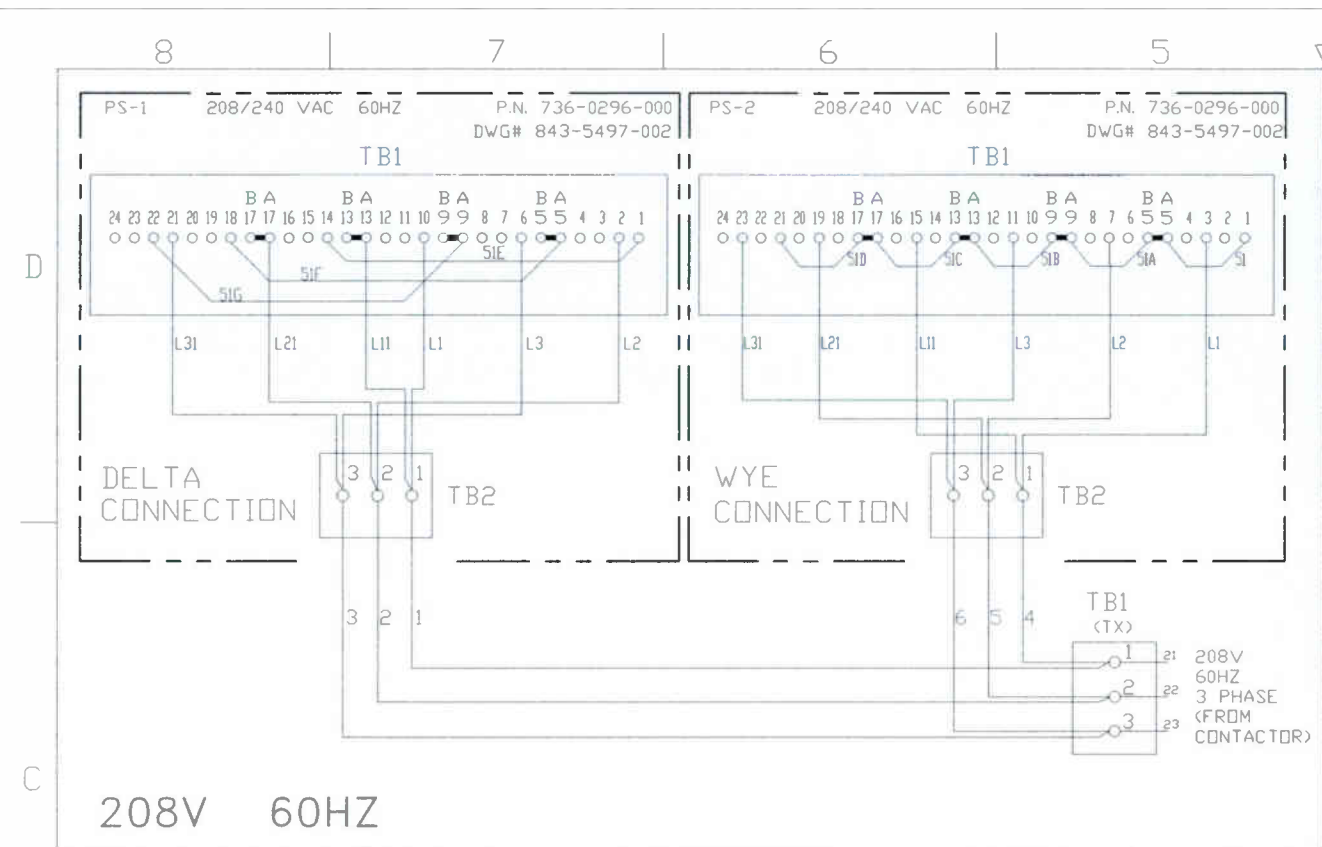
— = MULTI-CONDUCTOR CABLE

REV	LTR	ZONE	DATE	OFTM	ENG	ECO NUM
A			2/96	KWB	RLM	NEW DWG

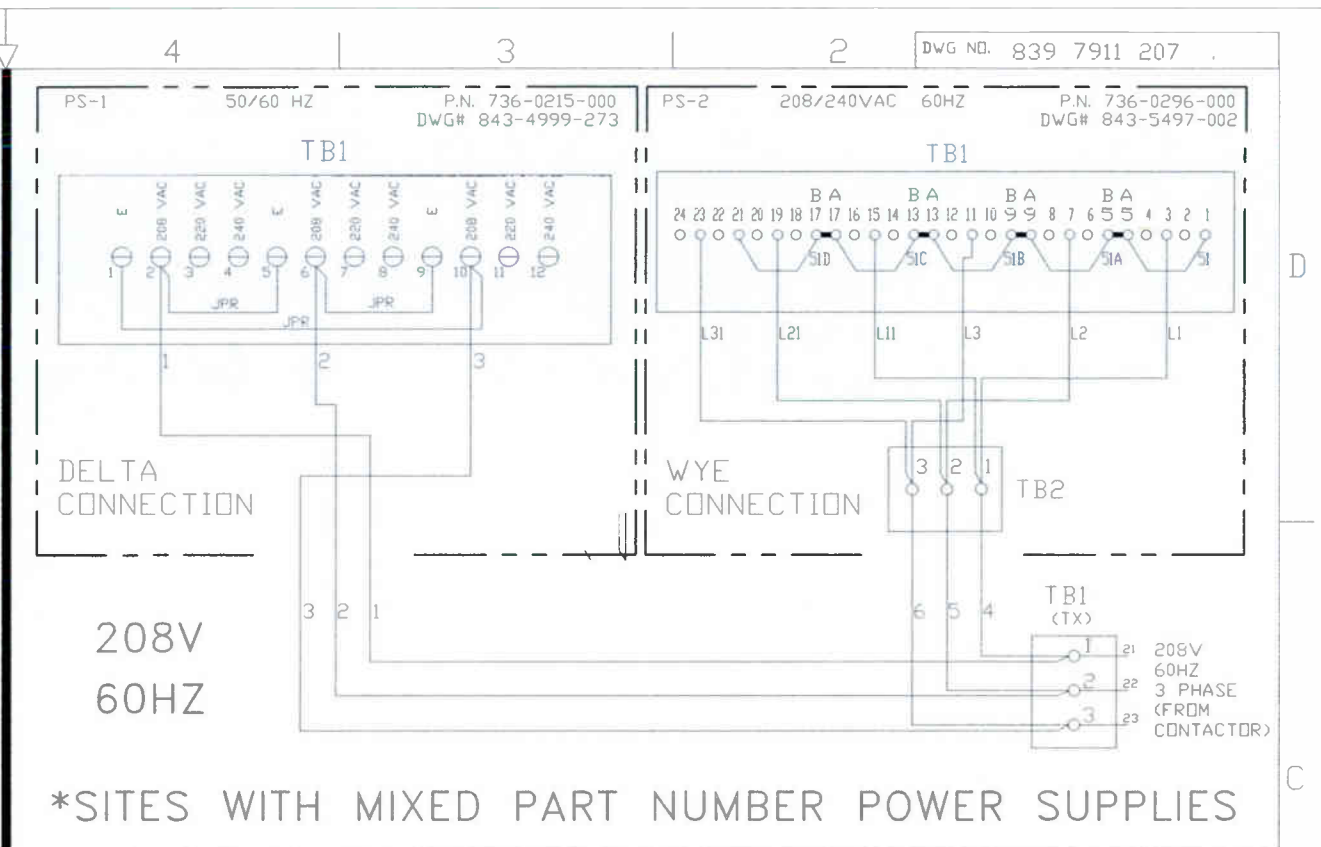
HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY: K BUNTE
 DATE: 27 FEB 96
 CHK: K BUNTE
 PROJ: RL MORTIMORE

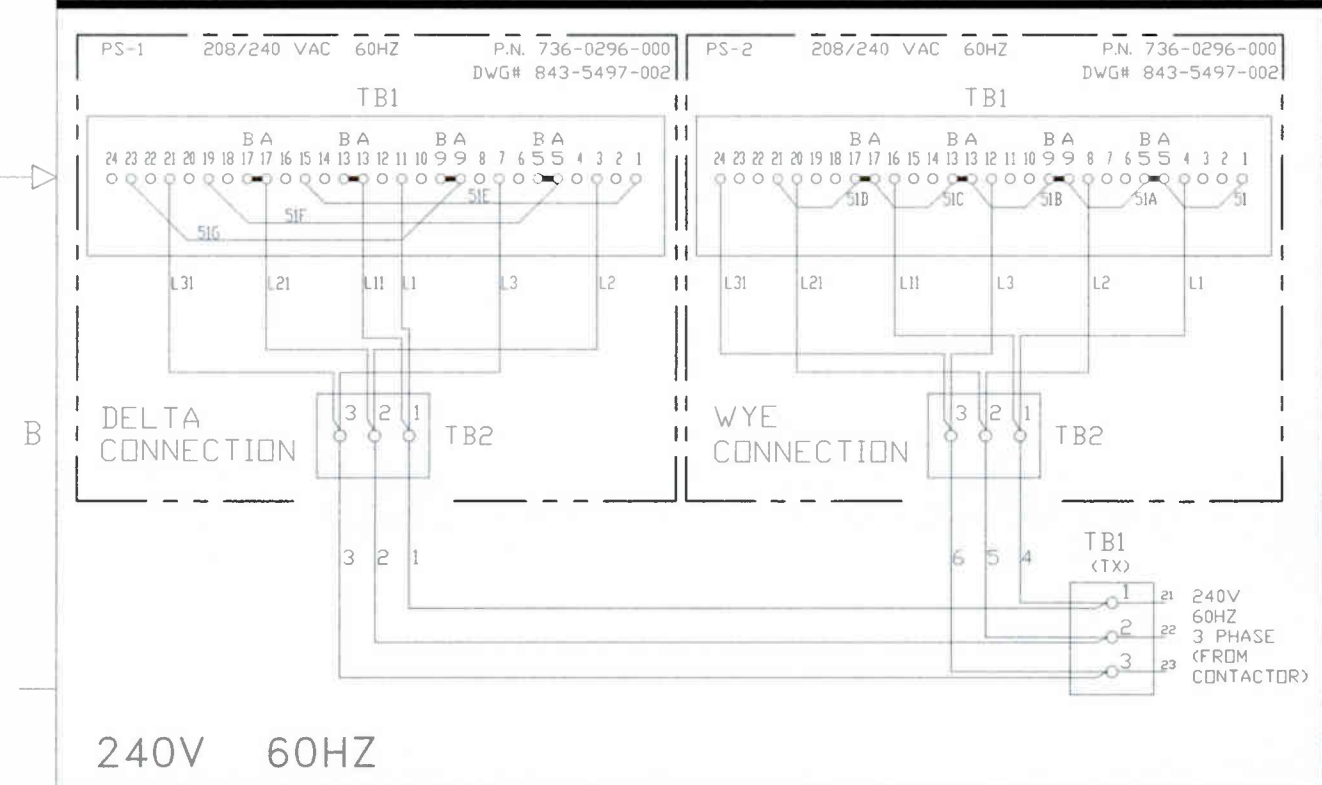
TITLE: BLOCK DIAGRAM
 HT33LSP/HT30HSP
 CONTROL SYSTEM
 DWG # 839-7911-183
 REV A



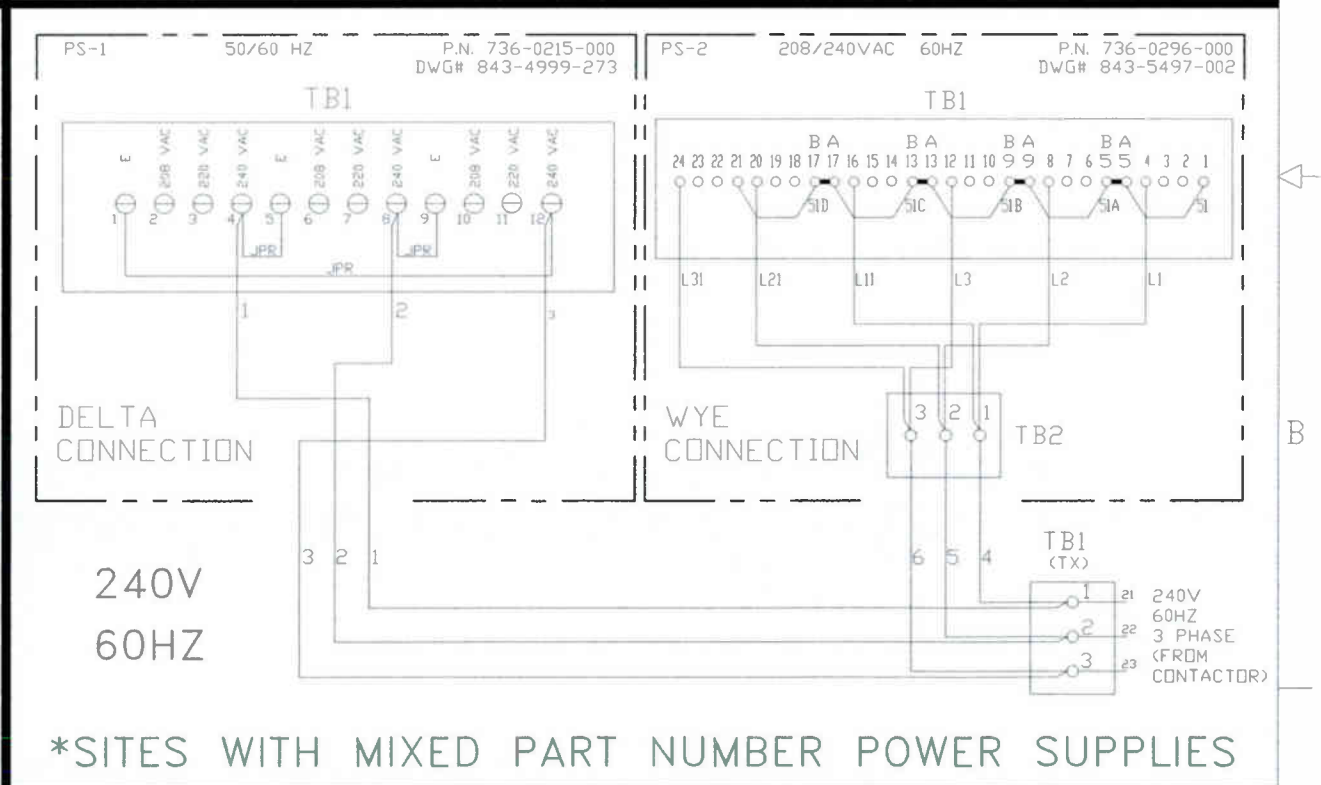
208V 60HZ



*SITES WITH MIXED PART NUMBER POWER SUPPLIES



240V 60HZ



*SITES WITH MIXED PART NUMBER POWER SUPPLIES

THE PURPOSE OF THESE DRAWINGS IS TO UPDATE A/C WIRING CONNECTION INFORMATION. CONNECTIONS MAY DIFFER FROM THAT SHOWN ON THE PA CABINET WIRING DIAGRAMS. THESE DRAWINGS REFLECT THE USE OF THE RECENTLY DESIGNED DELTA-WYE POWER SUPPLIES, BOTH IN PAIRS, AND IN COMBINATION WITH THE PREVIOUS DESIGN.

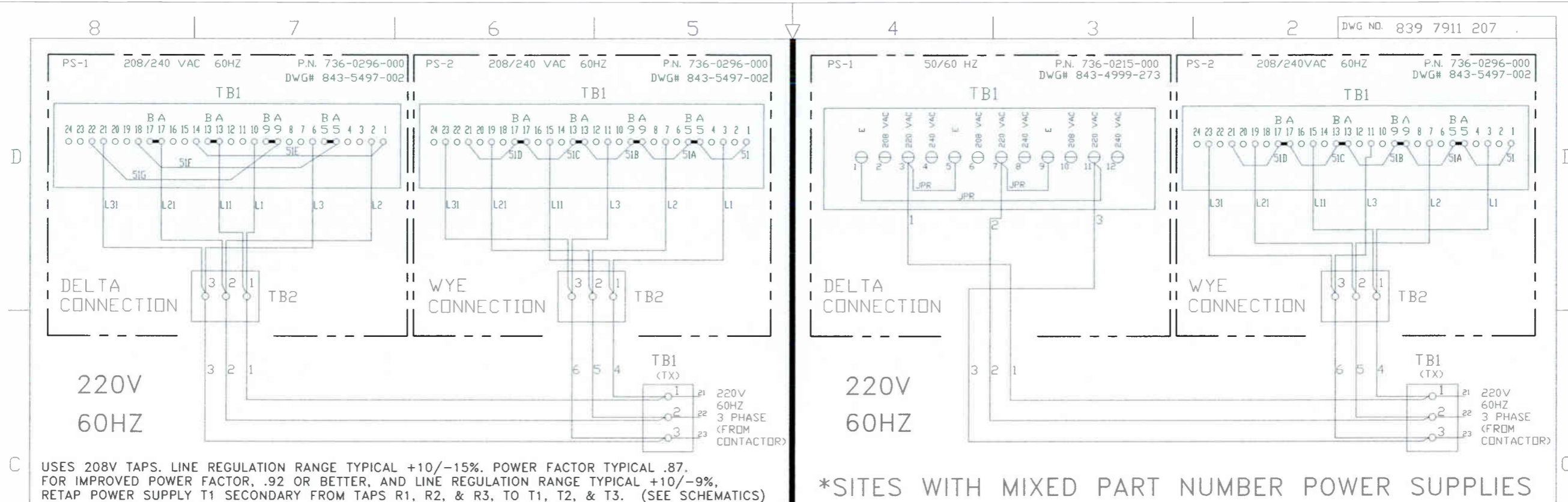
N D T E S
 () = TERMINAL BOARD PLUG-IN JUMPER ON TB1
 * SERVICE REPLACEMENT OR MIXED UNITS BASED ON AVAILABILITY

REV	DATE	BY	CHK	DESCRIPTION
B	2-8-99	JPK	JPK	---
MODIFIED APPLICATION NOTE				

HARRIS
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 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

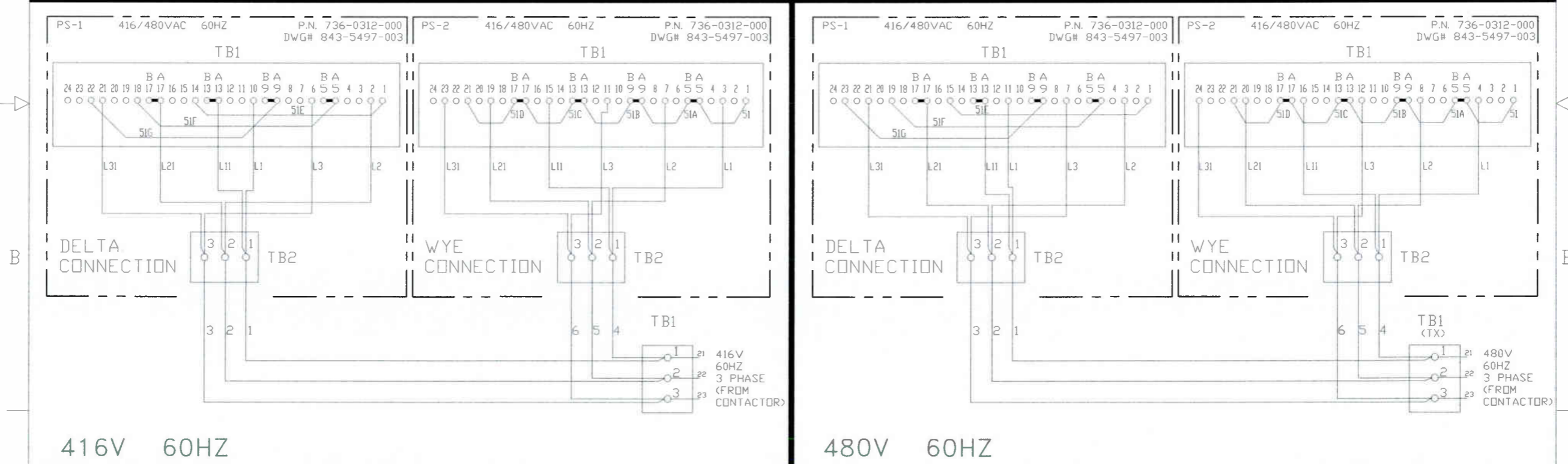
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HOLE	QTY	DESCRIPTION
		TOLERANCES UNLESS NOTED X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG ALL ✓ INDICATES 125 MICRO INCH
		ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001
DRWN BY	B. ROBERTSON	TITLE
DATE	SEPT. 17, 1997	WIRING DIAGRAM
ENG CHK	BOB PLONKA	DELTA/WYE CONFIGURATION
PRJ	J. KELLER	-
ENG	J. KELLER	-
MFG ENG	DANA MYERS	-
C	SHEET 1 OF 4	DWG NO 839 7911 207
		REV B



USES 208V TAPS. LINE REGULATION RANGE TYPICAL +10/-15%. POWER FACTOR TYPICAL .87. FOR IMPROVED POWER FACTOR, .92 OR BETTER, AND LINE REGULATION RANGE TYPICAL +10/-9%, RETAP POWER SUPPLY T1 SECONDARY FROM TAPS R1, R2, & R3, TO T1, T2, & T3. (SEE SCHEMATICS)

*SITES WITH MIXED PART NUMBER POWER SUPPLIES



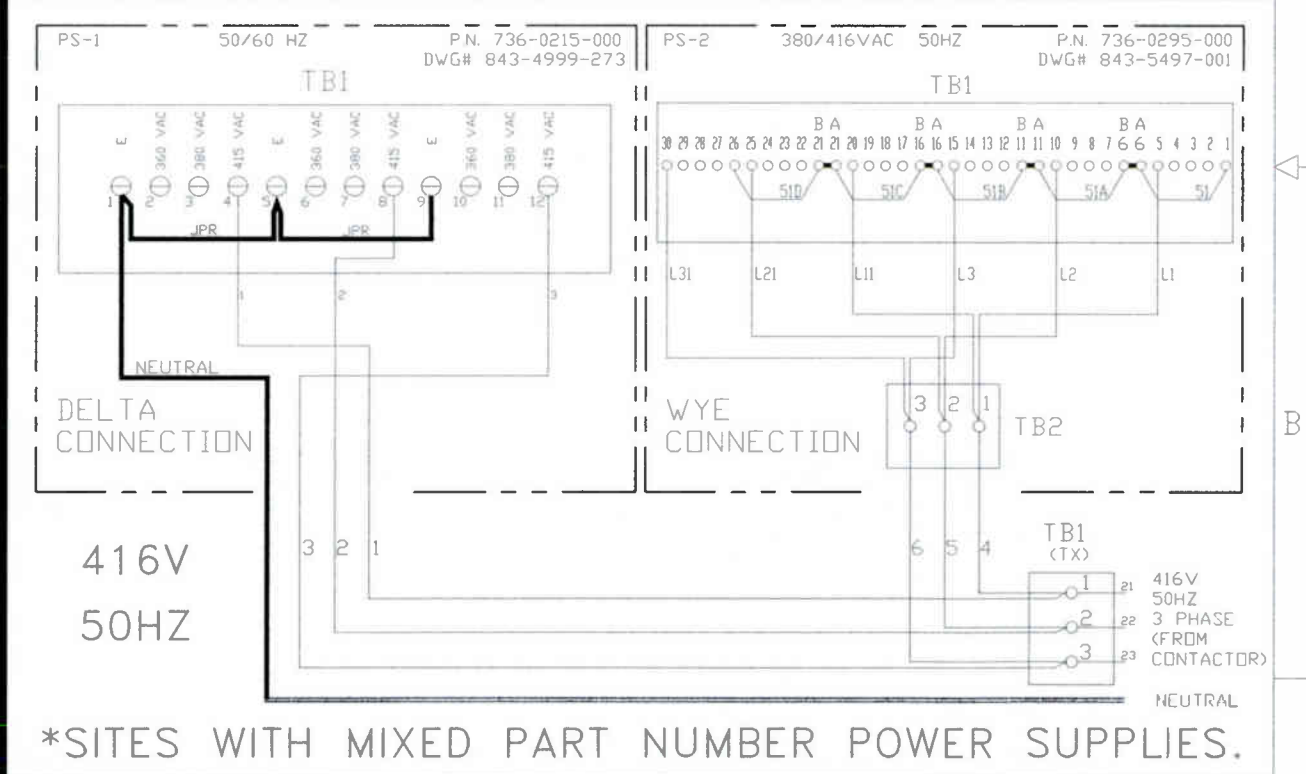
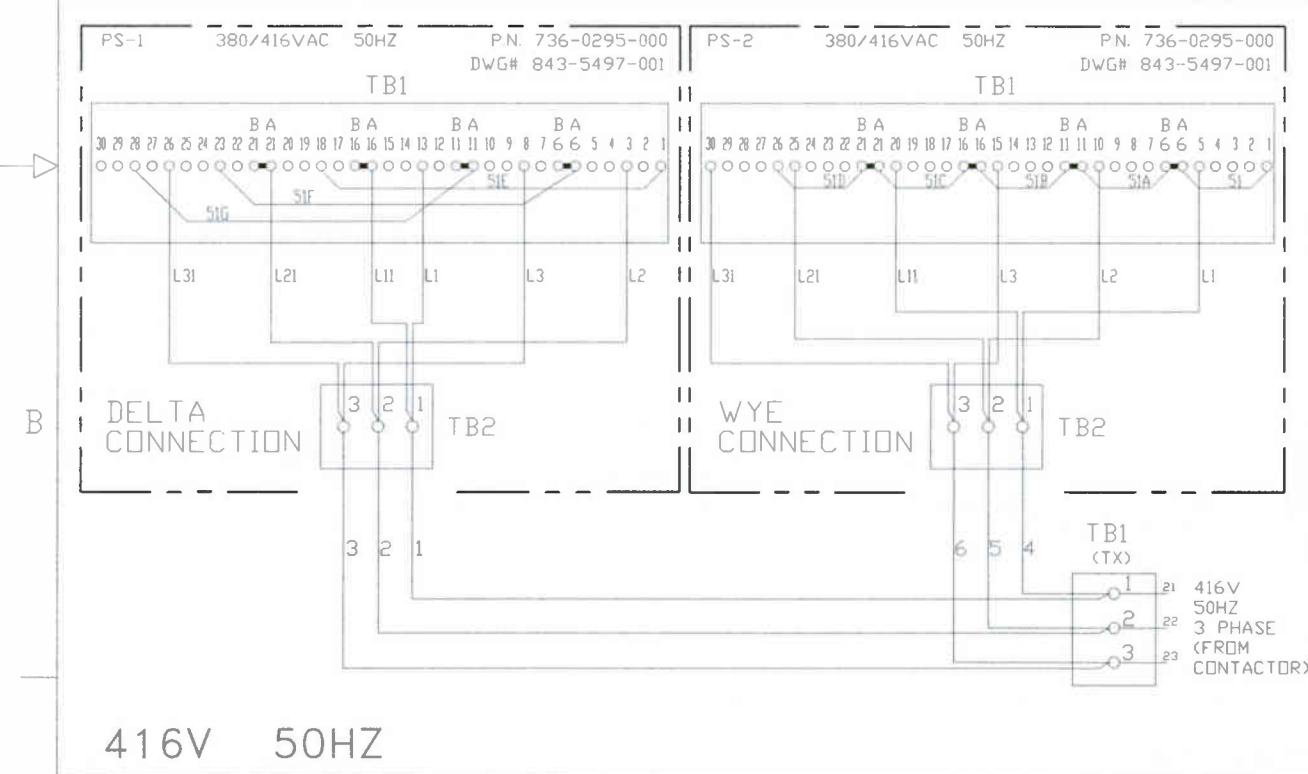
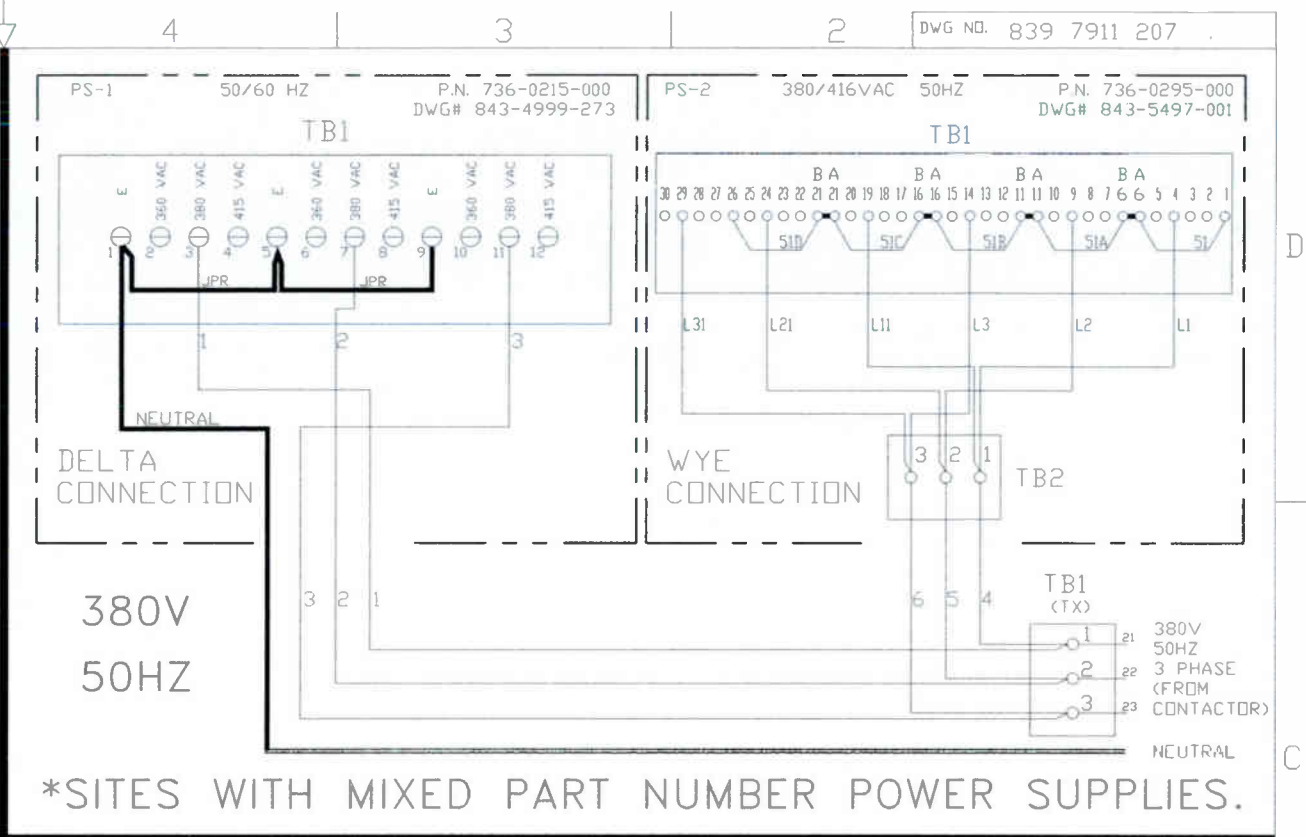
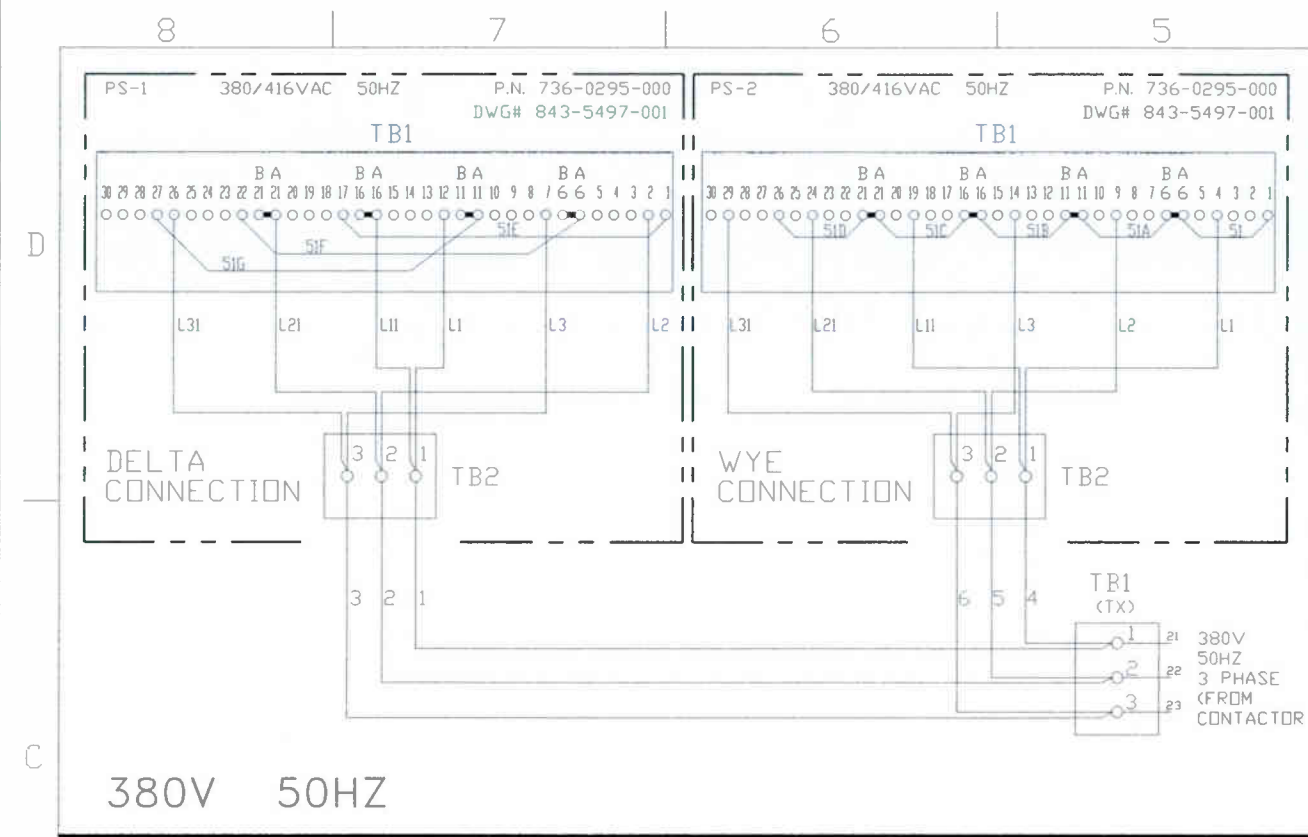
THE PURPOSE OF THESE DRAWINGS IS TO UPDATE A/C WIRING CONNECTION INFORMATION. CONNECTIONS MAY DIFFER FROM THAT SHOWN ON THE PA CABINET WIRING DIAGRAMS. THESE DRAWINGS REFLECT THE USE OF THE RECENTLY DESIGNED DELTA-WYE POWER SUPPLIES, BOTH IN PAIRS, AND IN COMBINATION WITH THE PREVIOUS DESIGN.

NOTES:
 1. = TERMINAL BOARD PLUG-IN JUMPER ON TB1
 2. LINE REGULATION AND POWER FACTOR PERCENTAGES ARE TYPICAL
 3. * SERVICE REPLACEMENT OR MIXED UNITS BASED ON AVAILABILITY.

REV	DATE	ENG	ECD NBR
B	2-8-99	JPK	---
CHG APPLICATION NOTE			

HARRIS
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 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

HOLE	QTY	DESCRIPTION
TOLERANCES UNLESS NOTED		ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED
X ± .030 .XX ± .015		MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001
.XXX ± .005 ANGLES ± 1 DEG		
ALL √ INDICATES 125 MICRO INCH		
DRAWN BY	B. ROBERTSON	TITLE
DATE	SEPT. 17, 1997	WIRING DIAGRAM
ENG CHK	BOB PLONKA	DELTA/WYE CONFIGURATION
PROJ ENG	J. KELLER	
MFG ENG	DANA MYERS	DWG NO 839 7911 207
C	SHEET 2 OF 4	REV B



THE PURPOSE OF THESE DRAWINGS IS TO UPDATE A/C WIRING CONNECTION INFORMATION. CONNECTIONS MAY DIFFER FROM THAT SHOWN ON THE PA CABINET WIRING DIAGRAMS. THESE DRAWINGS REFLECT THE USE OF THE RECENTLY DESIGNED DELTA-WYE POWER SUPPLIES, BOTH IN PAIRS, AND IN COMBINATION WITH THE PREVIOUS DESIGN.

- = TERMINAL BOARD PLUG-IN JUMPER ON TB1
- * SERVICE REPLACEMENT OR MIXED UNITS BASED ON AVAILABILITY.

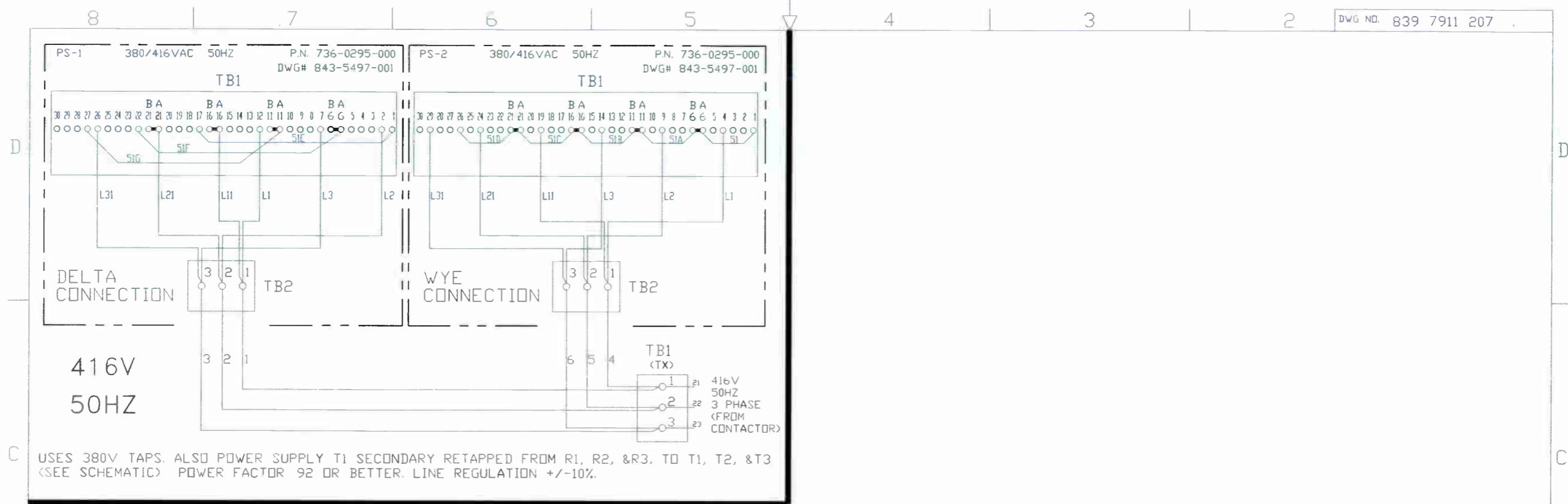
REV	DATE	BY	CHK	DESCRIPTION
B	2-8-99	JFK	JPK	---
CHG APPLICATION NOTE				

HARRIS

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 QUINCY, ILLINOIS 62305

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HOLE	QTY	DESCRIPTION
TOLERANCES UNLESS NOTED X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG ALL √ INDICATES 125 MICRO INCH		
ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001		
DRWN BY	B ROBERTSON	
DATE	SEPT. 27, 1997	
ENG CHK	BOB PLONKA	
PROJ	J KELLER	
MFG ENG	DANA MYERS	
C	SHEET 3 OF 4	REV B



THE PURPOSE OF THESE DRAWINGS IS TO UPDATE A/C WIRING CONNECTION INFORMATION. CONNECTIONS MAY DIFFER FROM THAT SHOWN ON THE PA CABINET WIRING DIAGRAMS. THESE DRAWINGS REFLECT THE USE OF THE RECENTLY DESIGNED DELTA-WYE POWER SUPPLIES, BOTH IN PAIRS, AND IN COMBINATION WITH THE PREVIOUS DESIGN.

NOTES
 ○ = TERMINAL BOARD PLUG-IN JUMPER ON TB1
 LINE REGULATION AND POWER FACTOR PERCENTAGES ARE TYPICAL

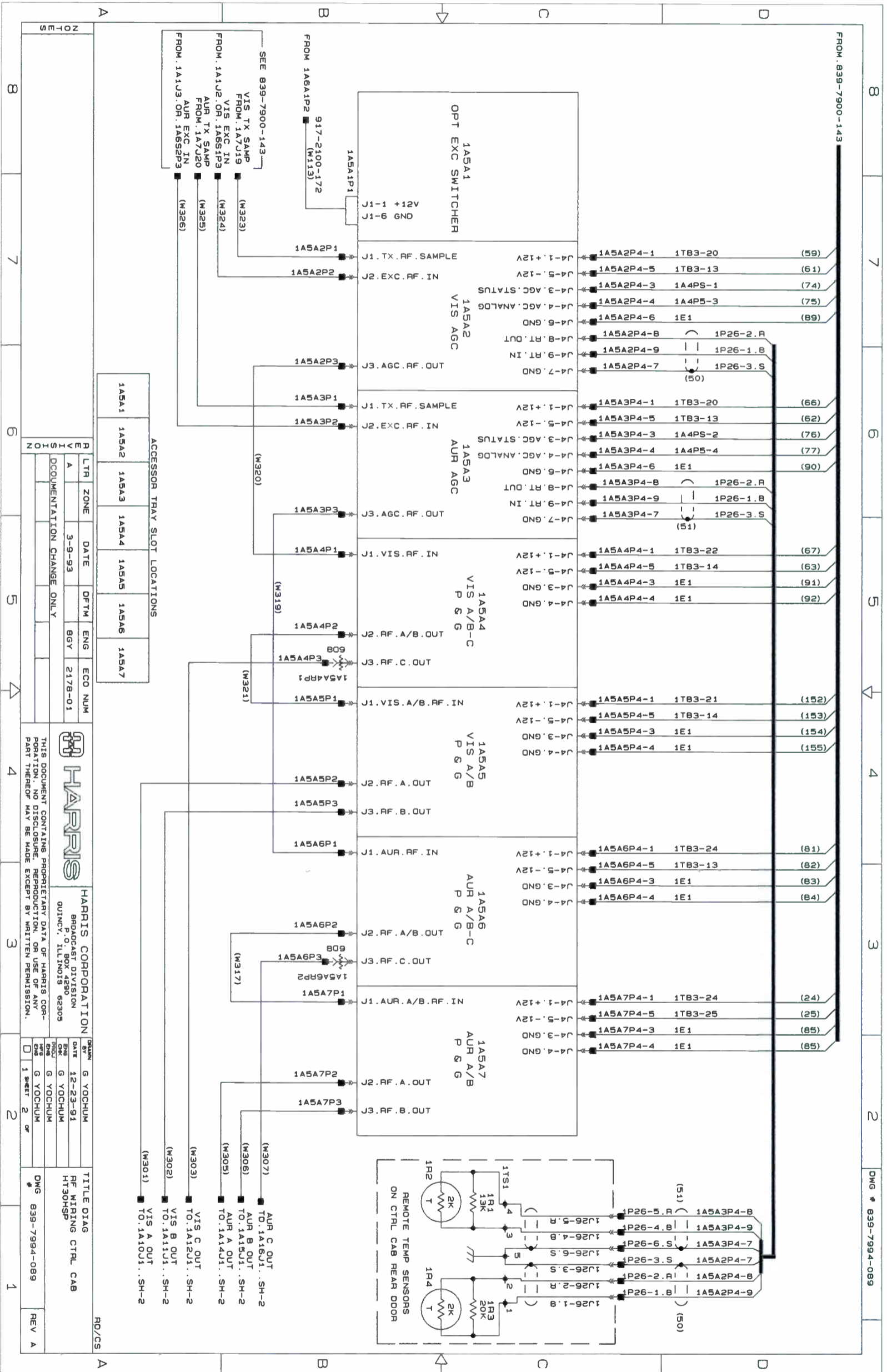
REV	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
B			2-8-99	JPK	JPK	---
CHG APPLICATION NOTE						

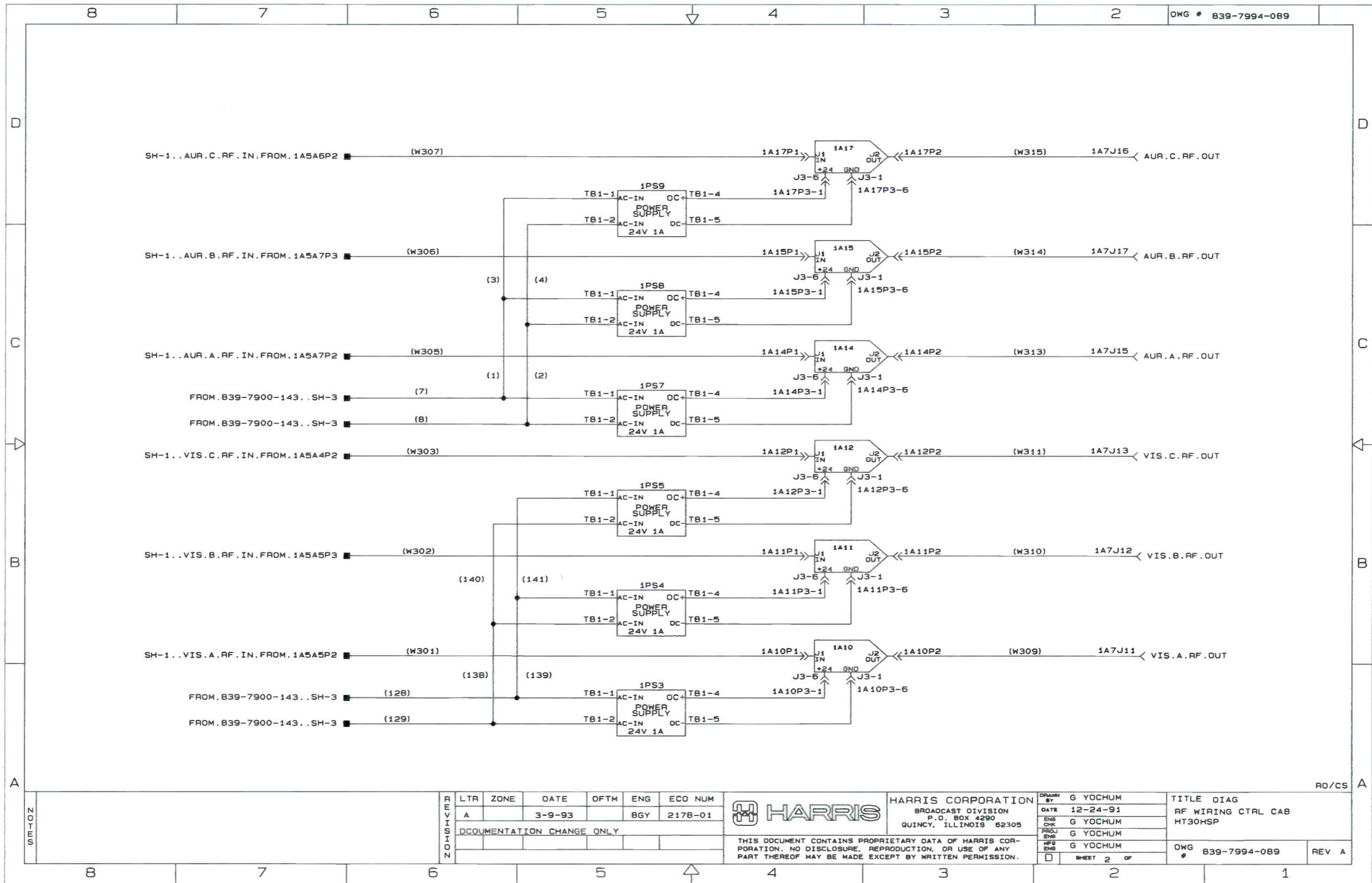


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HOLE	QTY	DESCRIPTION
		TOLERANCES UNLESS NOTED X ± .030 XX ± .015 .XXX ± .005 ANGLES ± 1 DEG ALL ✓ INDICATES 125 MICRO INCH
		ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001
DRAWN BY	B. ROBERTSON	TITLE
DATE	SEPT. 27, 1997	WIRING DIAGRAM
ENG CHK	BOB PLONKA	DELTA/WYE CONFIGURATION
PRD J	J. KELLER	
MFG ENG	DANA MYERS	DWG NO. 839 7911 207
C	SHEET 4 OF 4	REV B





NOTES

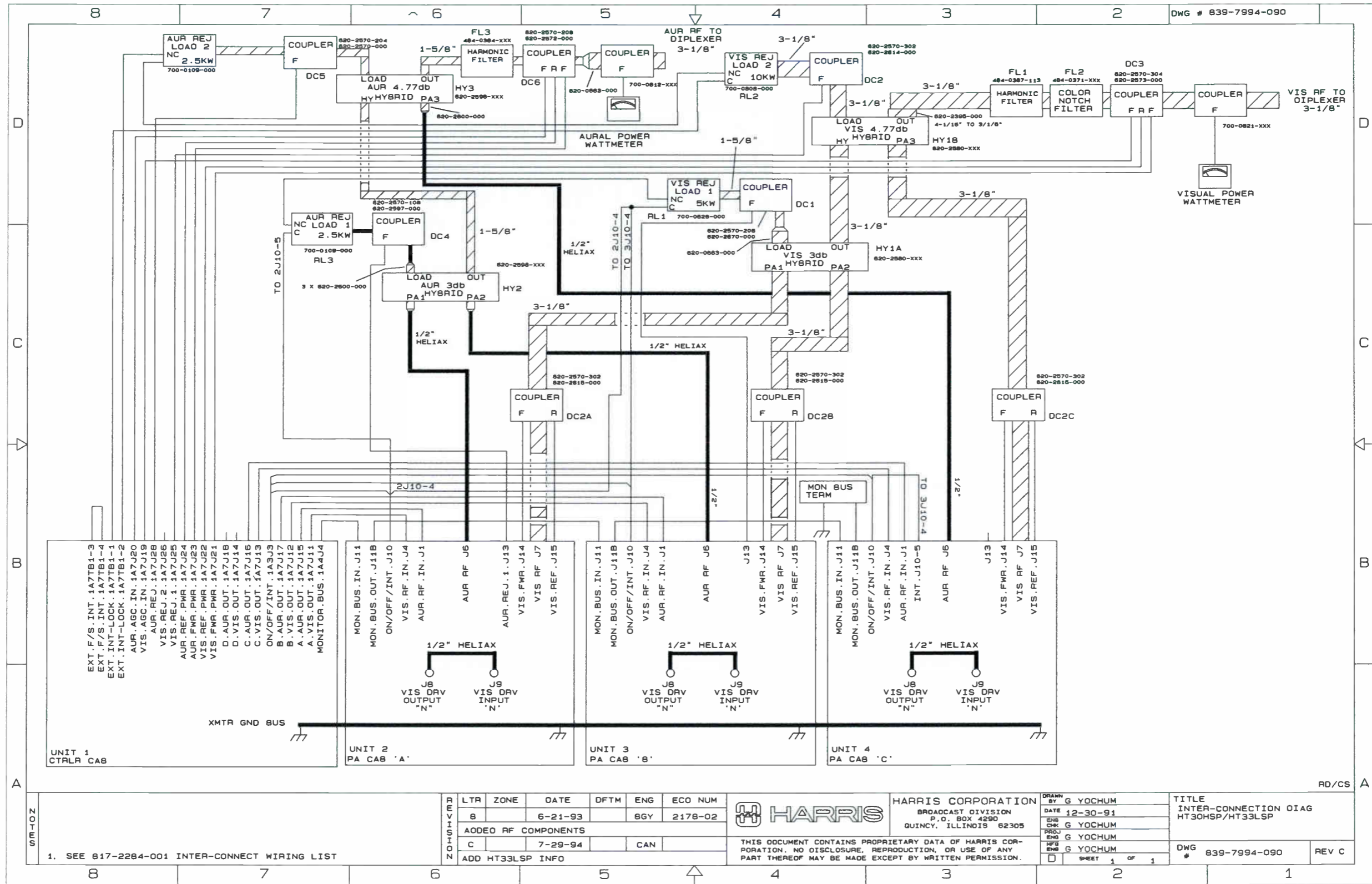
LTR	ZONE	DATE	OFTM	ENG	ECO NUM
A		3-9-93		BGY	2178-01
DOCUMENTATION CHANGE ONLY					

HARRIS
 HARRIS CORPORATION
 BROADCAST DIVISION
 P. O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	G YOCHUM
DATE	12-24-91
ENG	G YOCHUM
CHK	G YOCHUM
APP'D	G YOCHUM
DATE	

TITLE	OIAG
	RF WIRING CTRL CAB
	HT30HSP
DWG #	839-7994-089
REV	A

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1. SEE 817-2284-001 INTER-CONNECT WIRING LIST

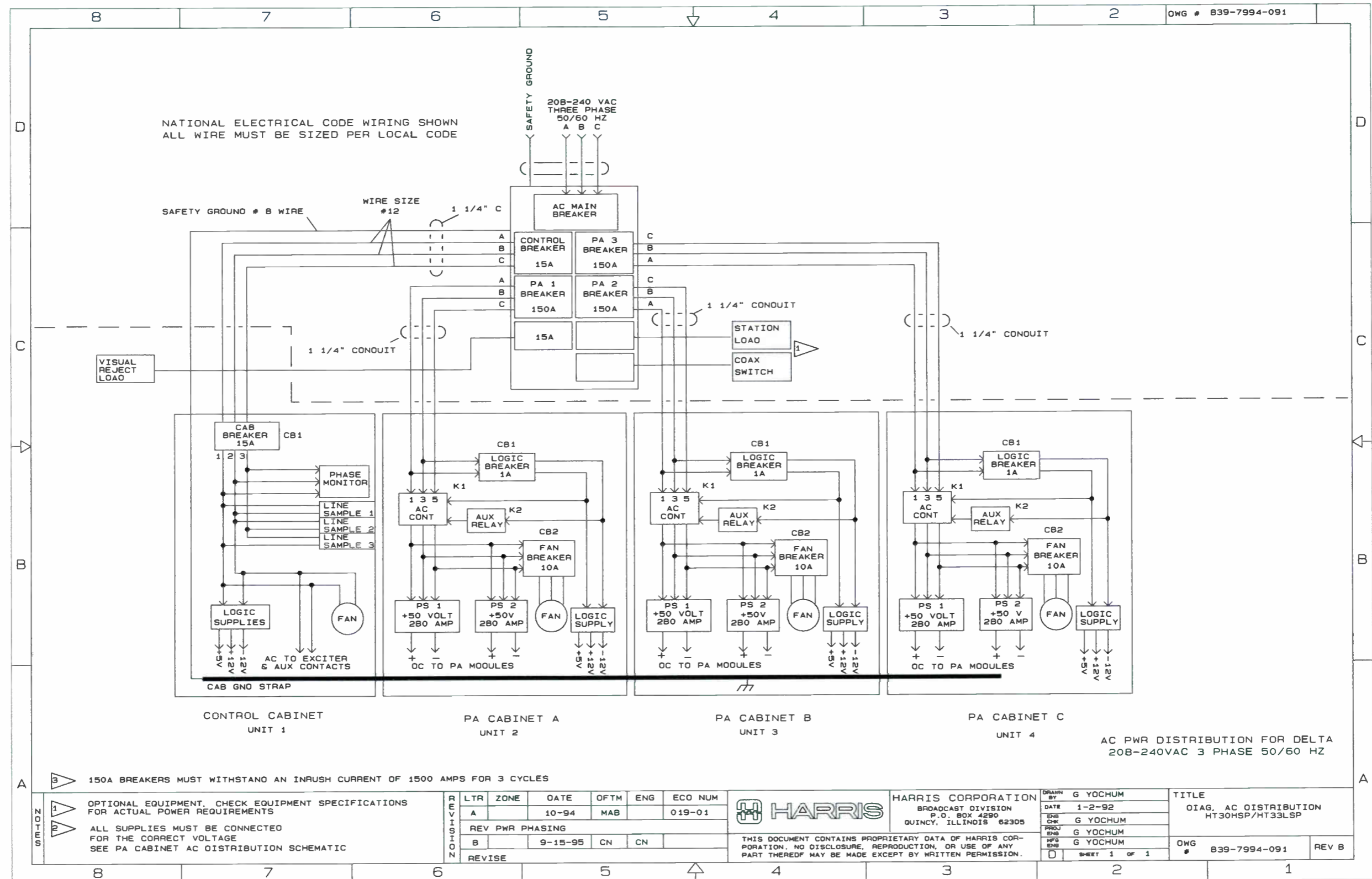
REV	LTR	ZONE	DATE	OFTM	ENG	ECO NUM
8			6-21-93		8GY	2178-02
ADDED RF COMPONENTS						
C			7-29-94		CAN	
ADD HT33LSP INFO						

HARRIS
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 QUINCY, ILLINOIS 62305

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DRAWN BY	G YOCHUM
DATE	12-30-91
ENG	G YOCHUM
CHK	G YOCHUM
PRJ	G YOCHUM
RFG	G YOCHUM
REV	G YOCHUM
SHEET 1 OF 1	

TITLE	INTER-CONNECTION DIAG HT30HSP/HT33LSP
DWG #	839-7994-090
REV	C



AC PWR DISTRIBUTION FOR DELTA
208-240VAC 3 PHASE 50/60 HZ

150A BREAKERS MUST WITHSTAND AN INRUSH CURRENT OF 1500 AMPS FOR 3 CYCLES

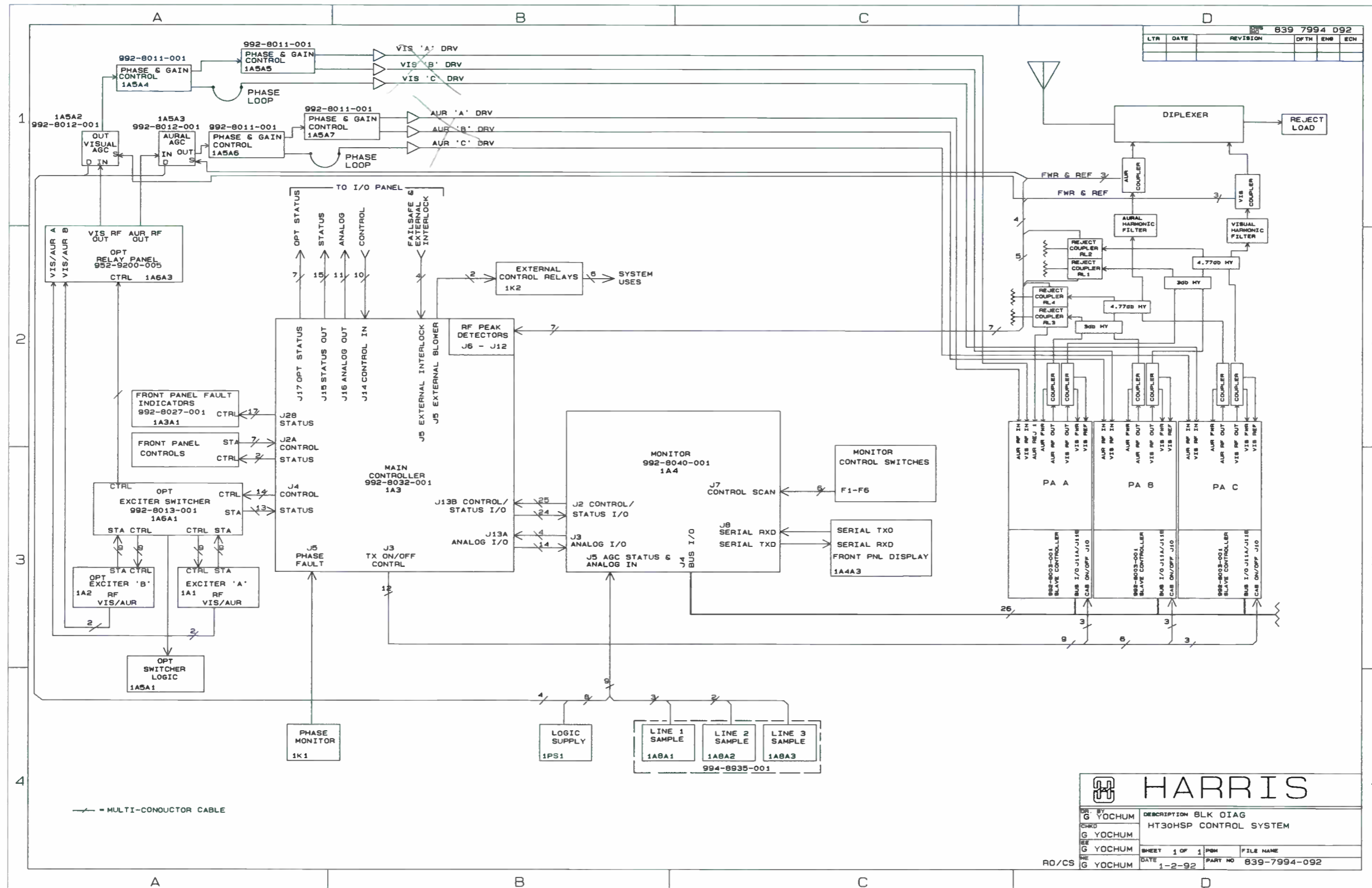
OPTIONAL EQUIPMENT, CHECK EQUIPMENT SPECIFICATIONS FOR ACTUAL POWER REQUIREMENTS
ALL SUPPLIES MUST BE CONNECTED FOR THE CORRECT VOLTAGE
SEE PA CABINET AC DISTRIBUTION SCHEMATIC

REV	DATE	BY	CHK	ENG	ECO NUM
A	10-94	MAB			019-01
REV PWR PHASING					
B	9-15-95	CN	CN		
REVISE					

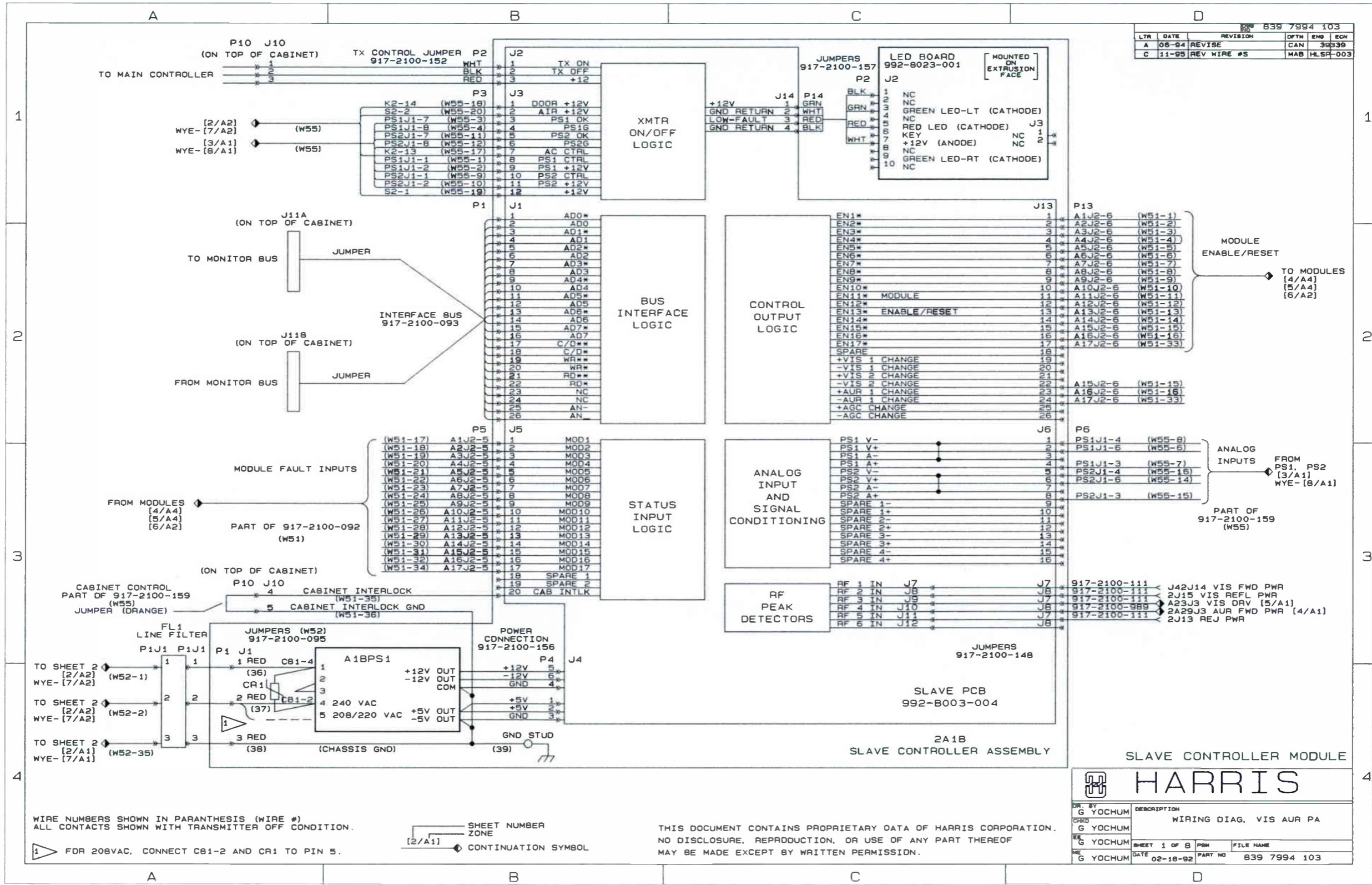
HARRIS CORPORATION
BROADCAST DIVISION
P.O. BOX 4290
QUINCY, ILLINOIS 62305

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DATE	BY	CHK	ENG	ECO NUM	TITLE
1-2-92	G YOCHUM				OIAG, AC DISTRIBUTION HT30HSP/HT33LSP
	G YOCHUM				
	G YOCHUM				
	G YOCHUM				
OWG # 839-7994-091					REV B
SHEET 1 OF 1					



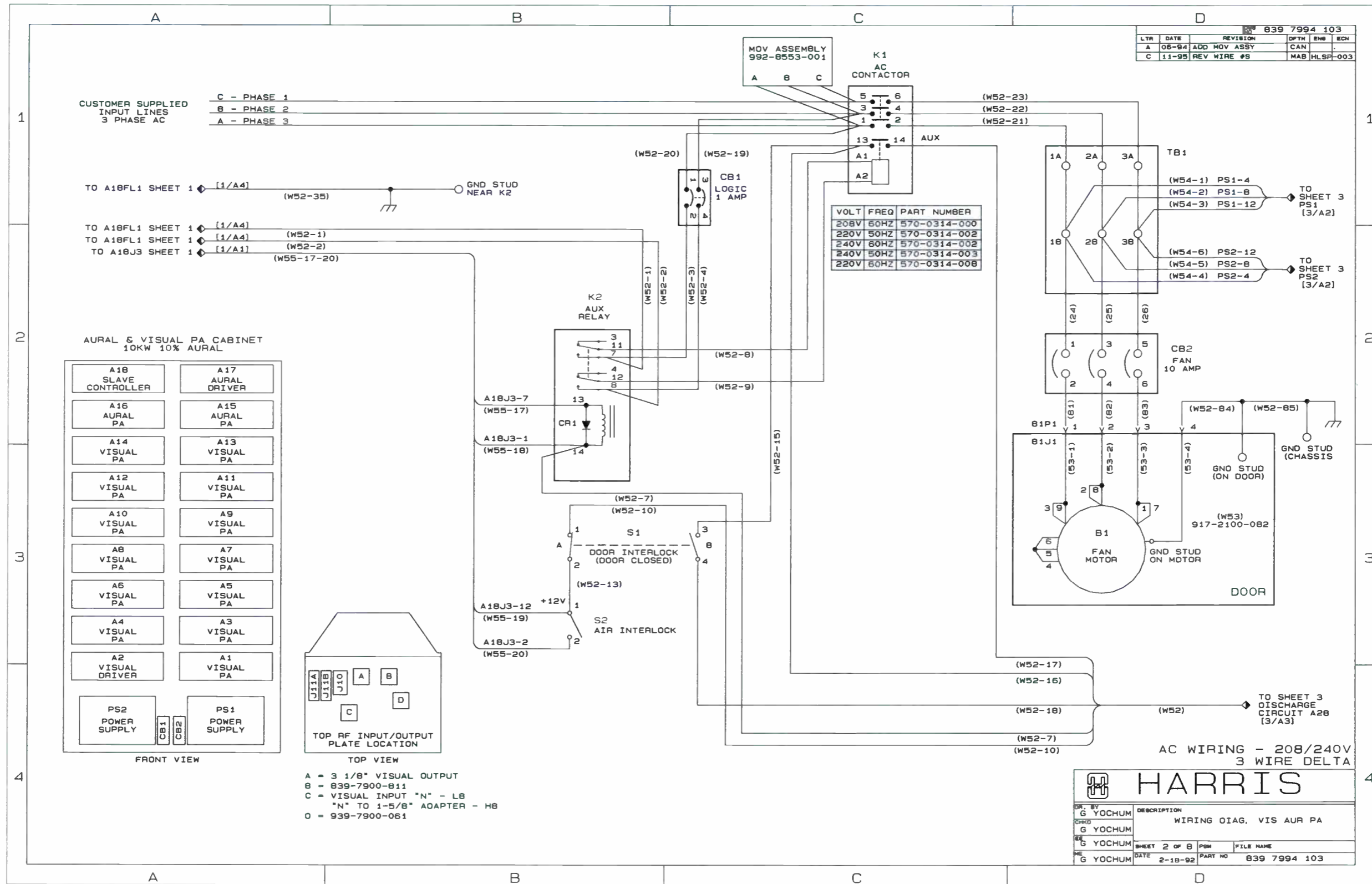
HARRIS	
DR. BY G YOCHUM	DESCRIPTION BLK DIAG
CHKD G YOCHUM	HT30HSP CONTROL SYSTEM
DES G YOCHUM	SHEET 1 OF 1
REV G YOCHUM	DATE 1-2-92
RO/CS	FILE NAME
	PART NO 839-7994-092



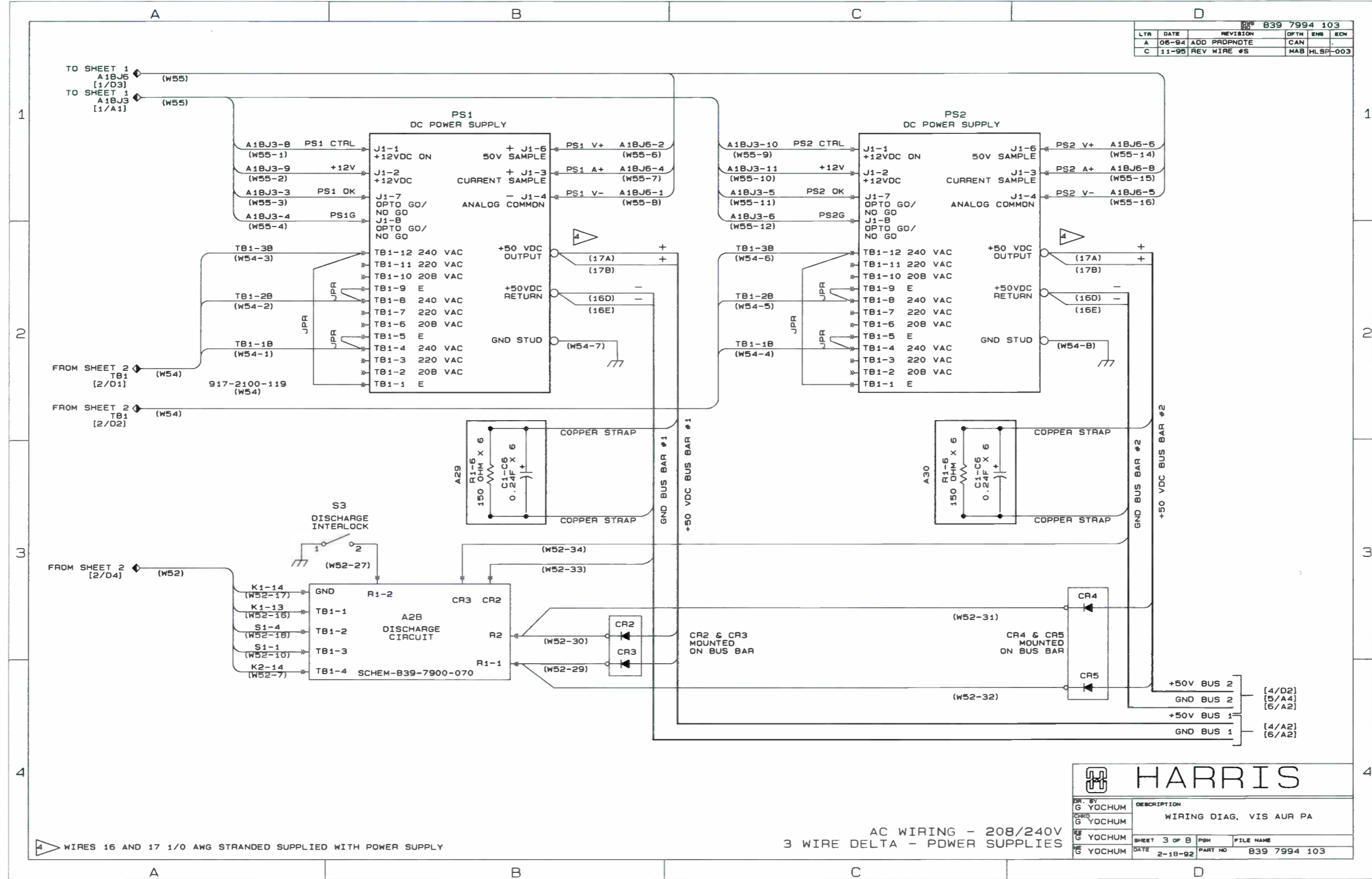
839 7994 103	
LTR	DATE
A	06-94
C	11-95
REVISION	REV WIRE #S
REVISE	
DPTH	ENR
CAN	39339
MAB	HLSF-003

HARRIS

DR. BY	G YOCHUM	DESCRIPTION	WIRING DIAG. VIS AUR PA
CRD	G YOCHUM		
CHK	G YOCHUM		
DATE	02-18-92	SHEET 1 OF 8	FILE NAME
		PART NO	839 7994 103



839 7994 103					
LYR	DATE	REVISION	OPTR	ENR	ECN
A	06-94	ADD PROPNOTE	CAN	.	.
C	11-95	REV WIRE #S	MAB	HLSP	003



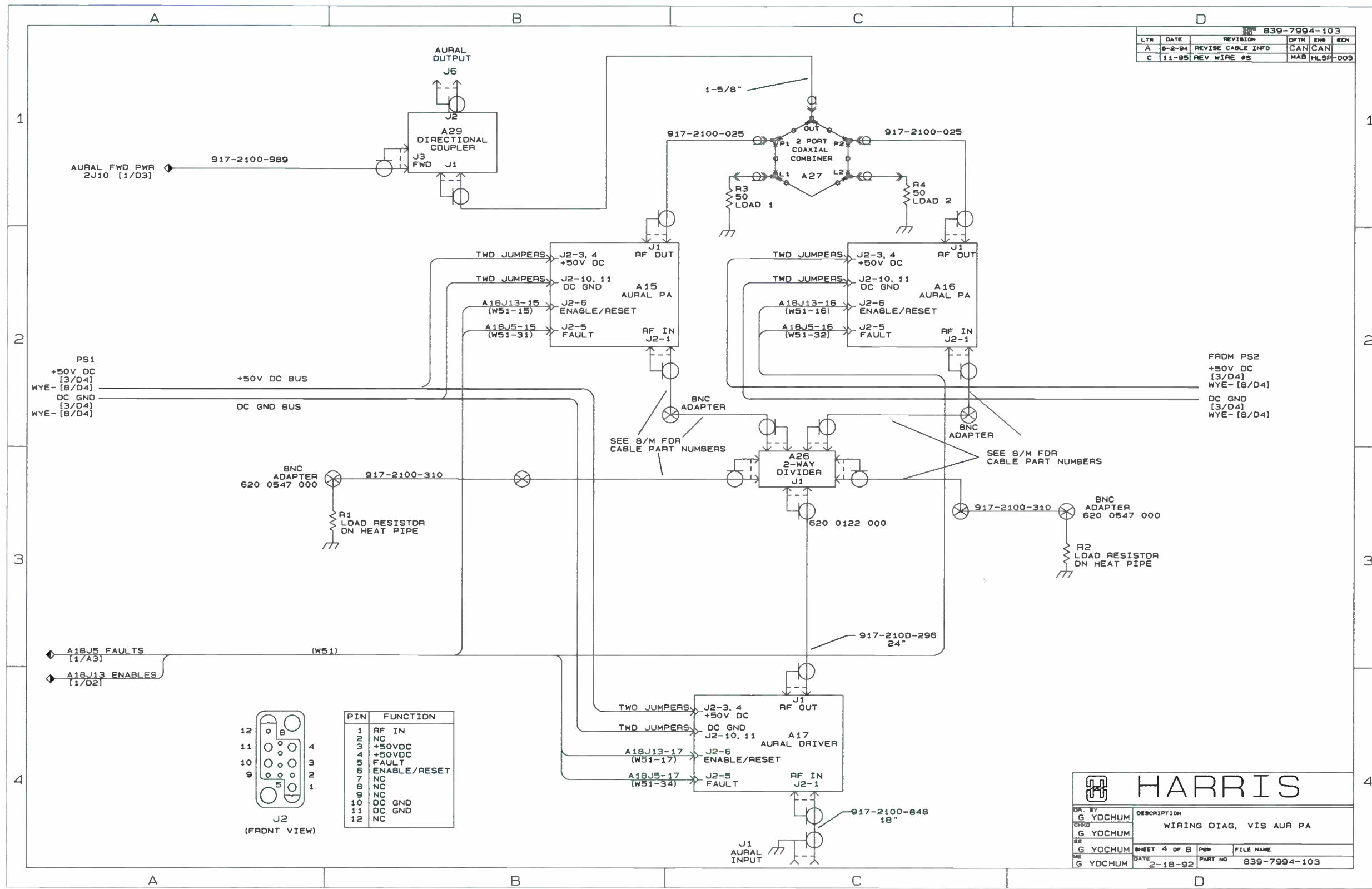
WIRES 16 AND 17 1/0 AWG STRANDED SUPPLIED WITH POWER SUPPLY

AC WIRING - 208/240V
3 WIRE DELTA - POWER SUPPLIES

HARRIS

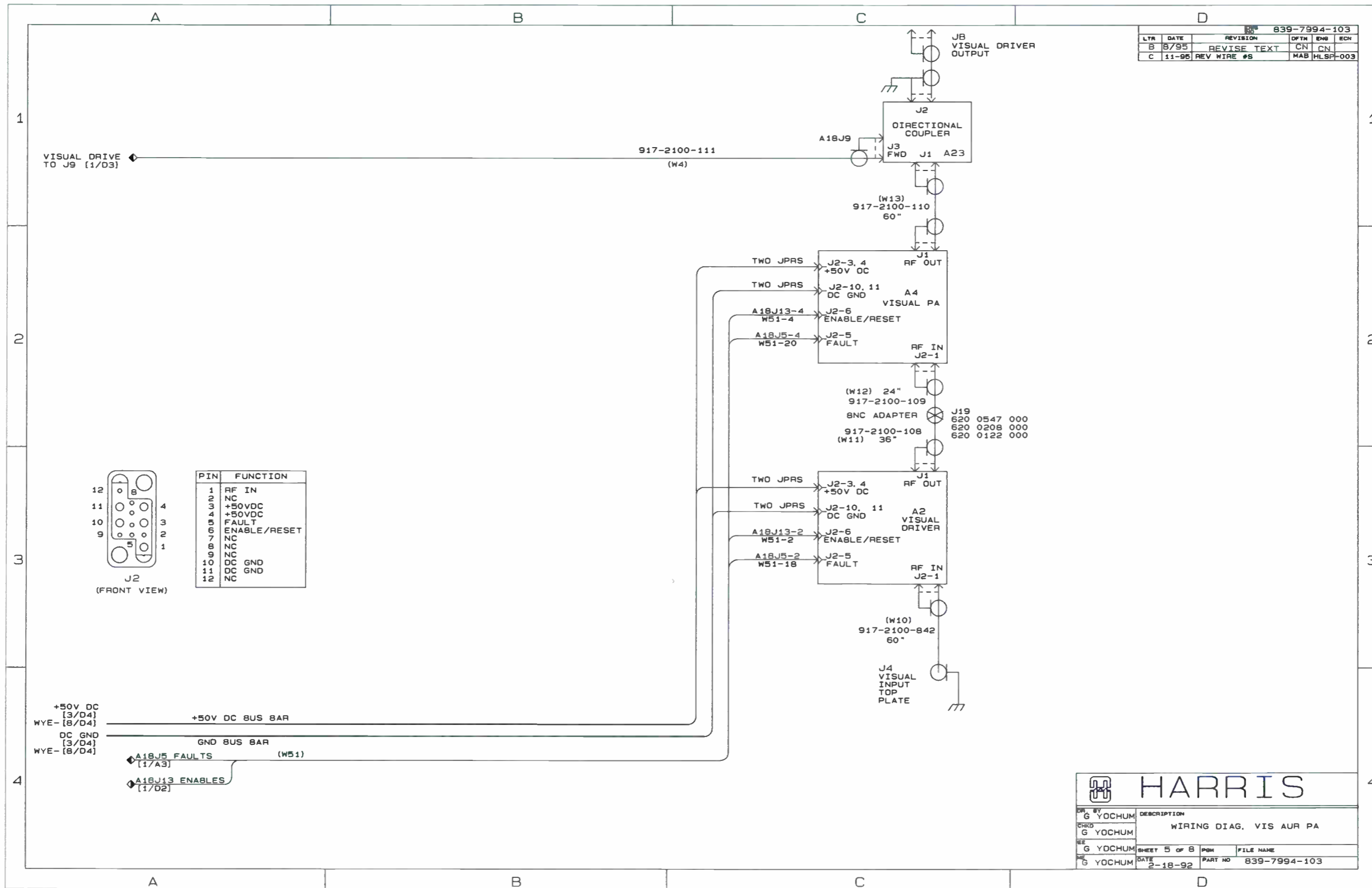
DR. BY G YOCHUM	DESCRIPTION WIRING DIAG. VIS AUR PA
CHKD BY G YOCHUM	
DATE 2-18-92	FILE NAME 839 7994 103

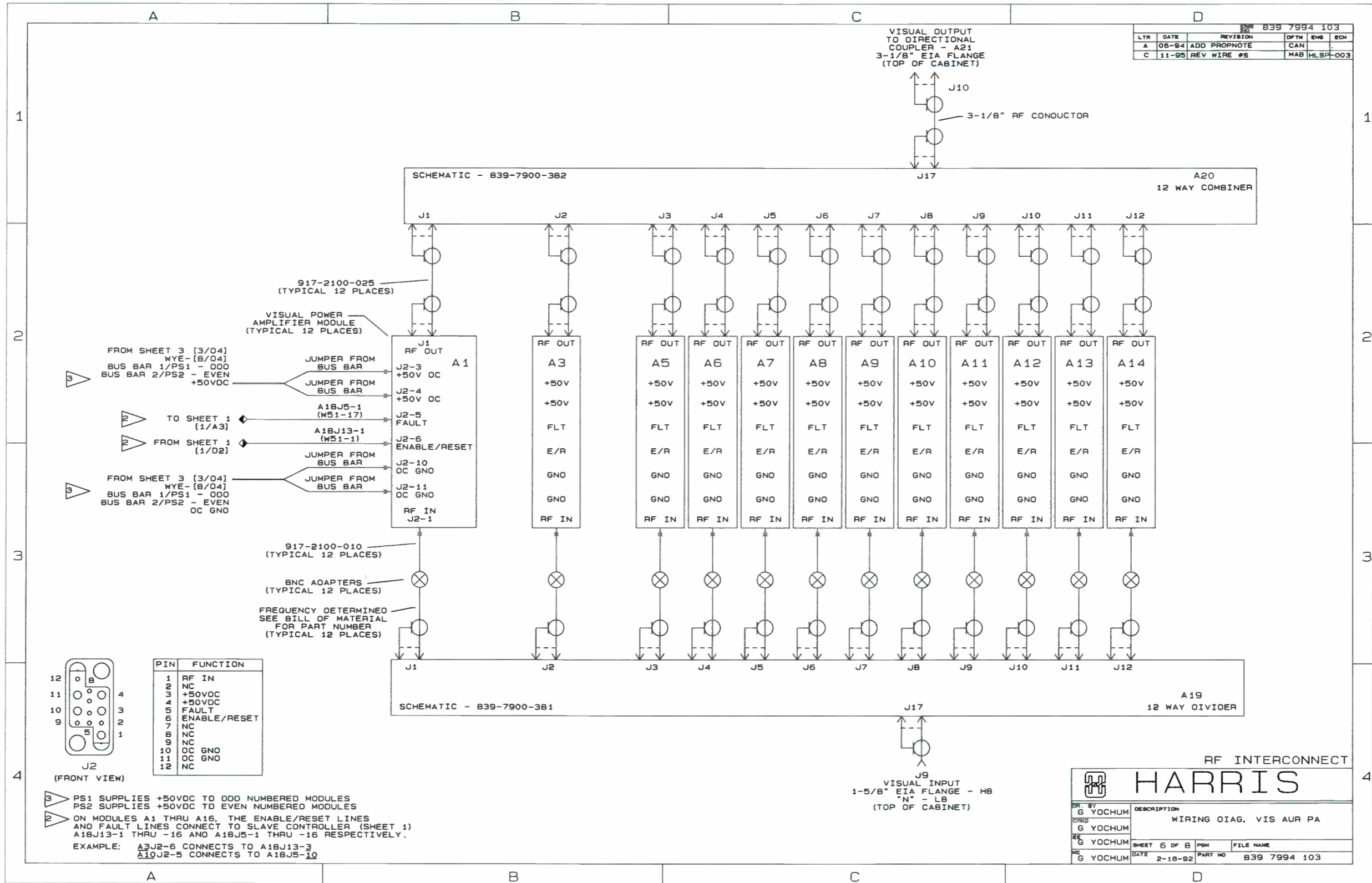
		839-7994-103			
LTR	DATE	REVISION	DPTH	ENB	ECN
A	8-2-94	REVISE CABLE INFO	CAN	CAN	
C	11-95	REV WIRE #5	MAB	HLSP	003

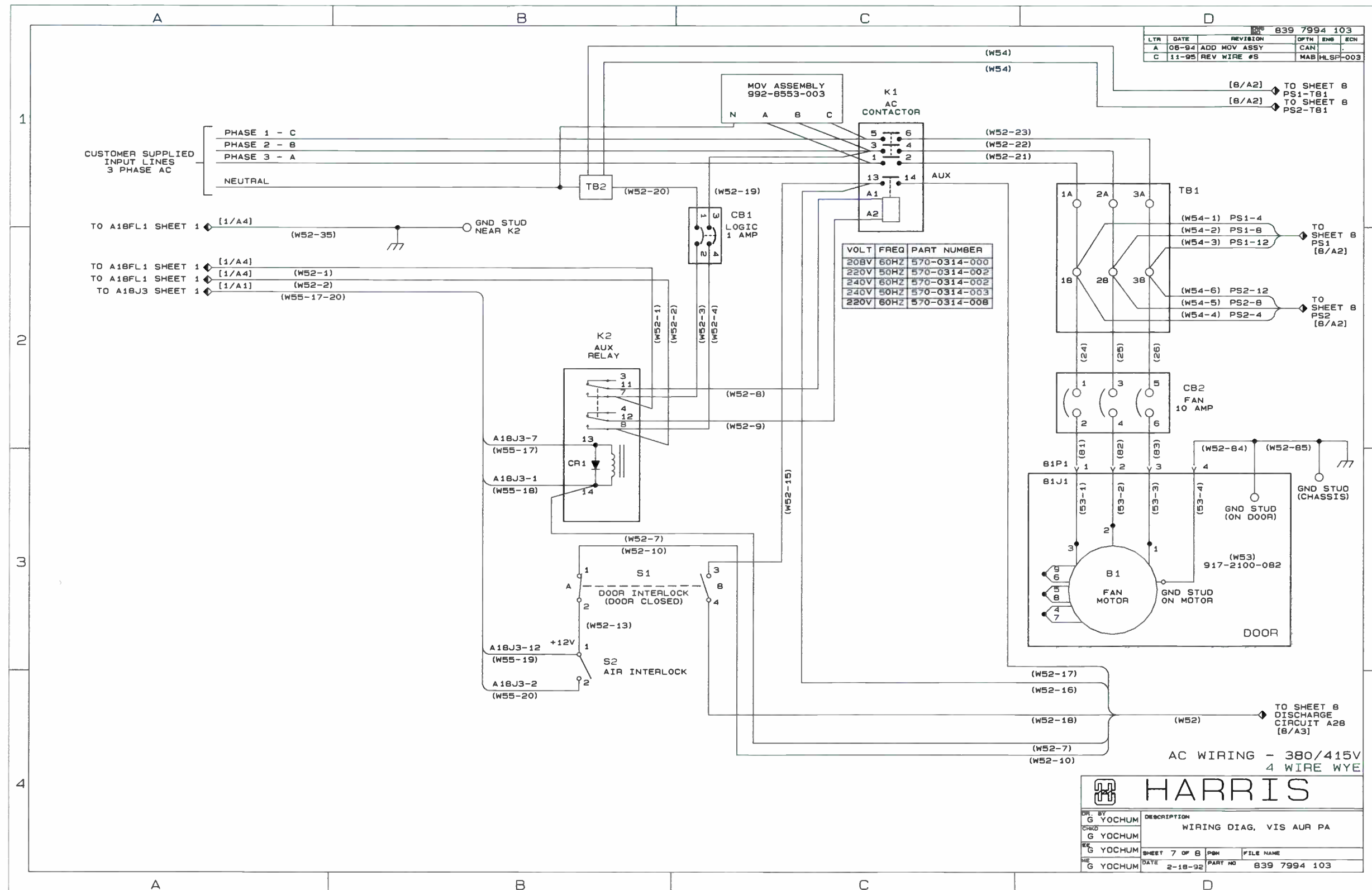


HARRIS

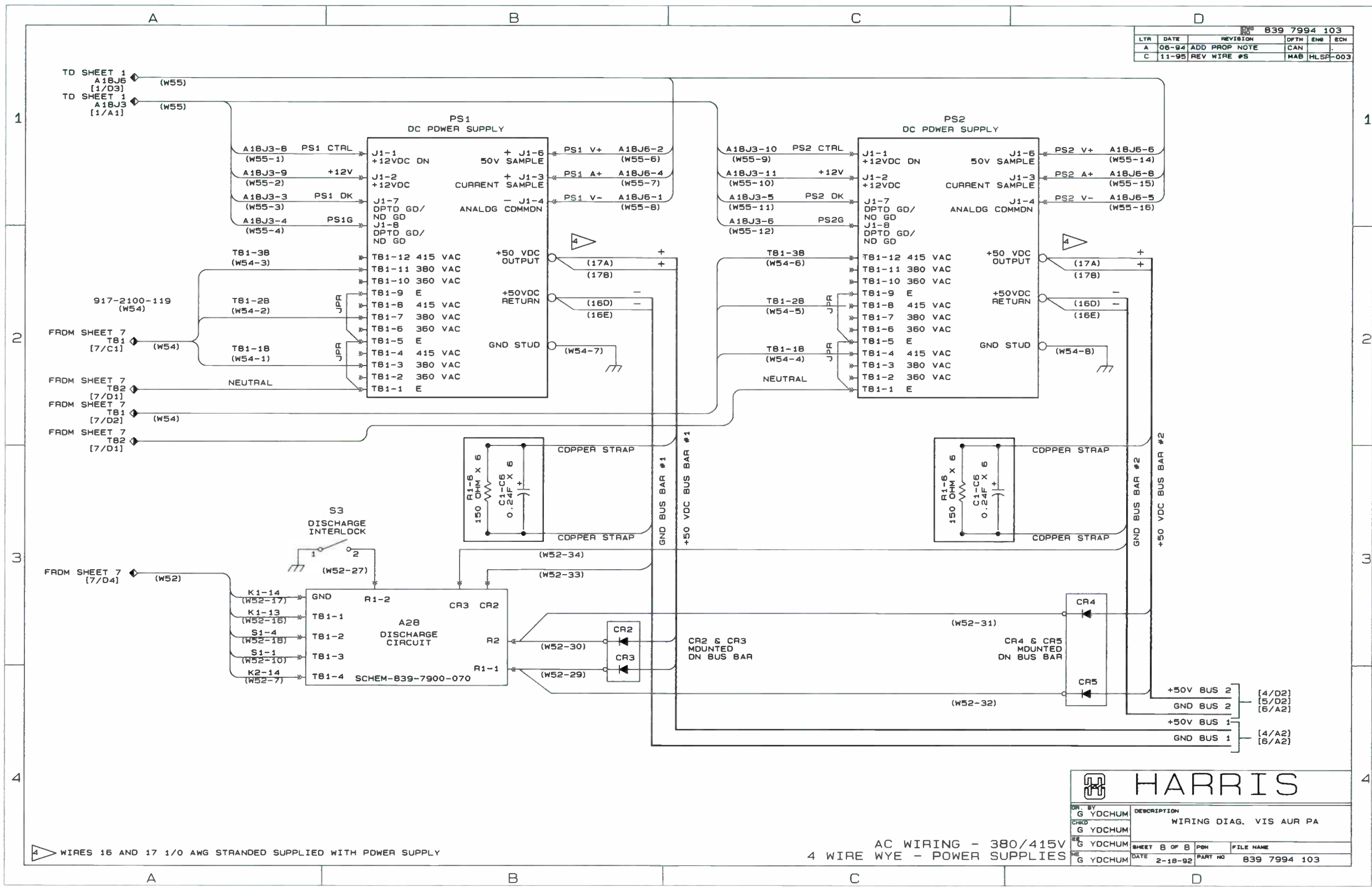
DR. BY G YOCHUM	DESCRIPTION WIRING DIAG. VIS AUR PA
CHKD G YOCHUM	
DATE 2-18-92	SHEET 4 OF 8
FILE NO 839-7994-103	PART NO







839 7994 103					
LTR	DATE	REVISION	DPTH	ENR	ECN
A	06-94	ADD PROP NOTE	CAN		
C	11-95	REV WIRE #S	MAB	HLSP	003

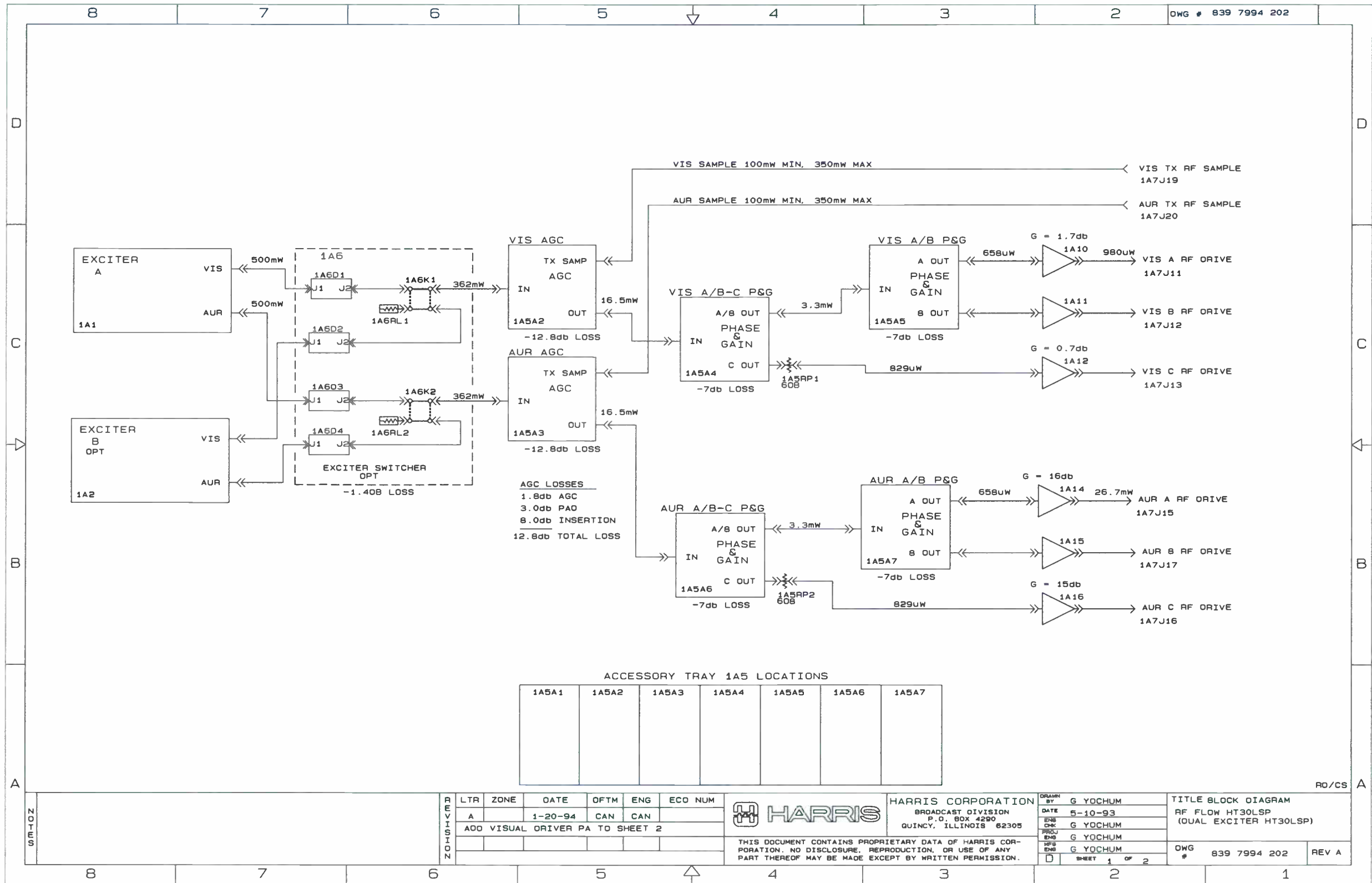


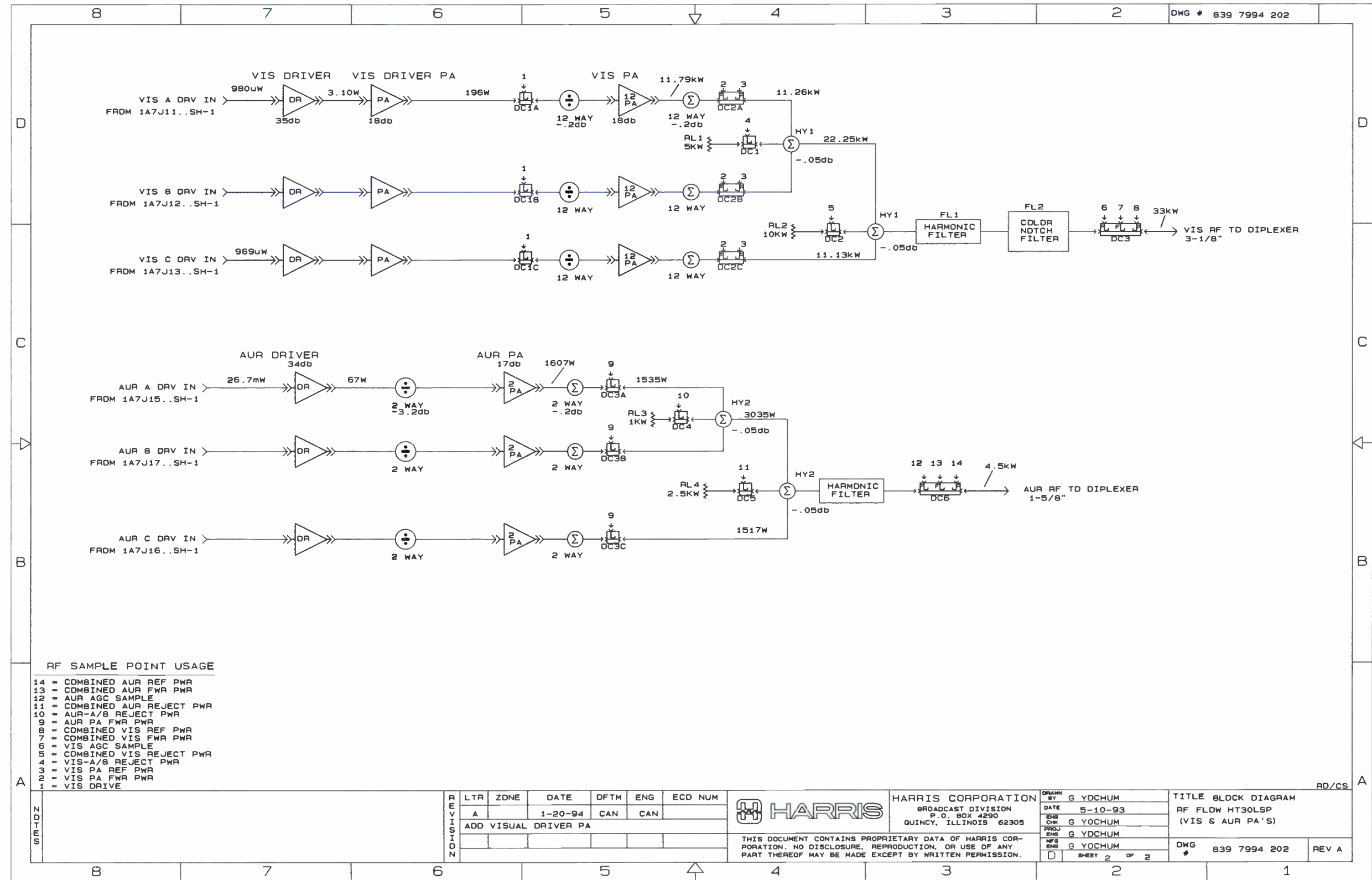
WIRES 16 AND 17 1/0 AWG STRANDED SUPPLIED WITH POWER SUPPLY

AC WIRING - 380/415V
4 WIRE WYE - POWER SUPPLIES

HARRIS

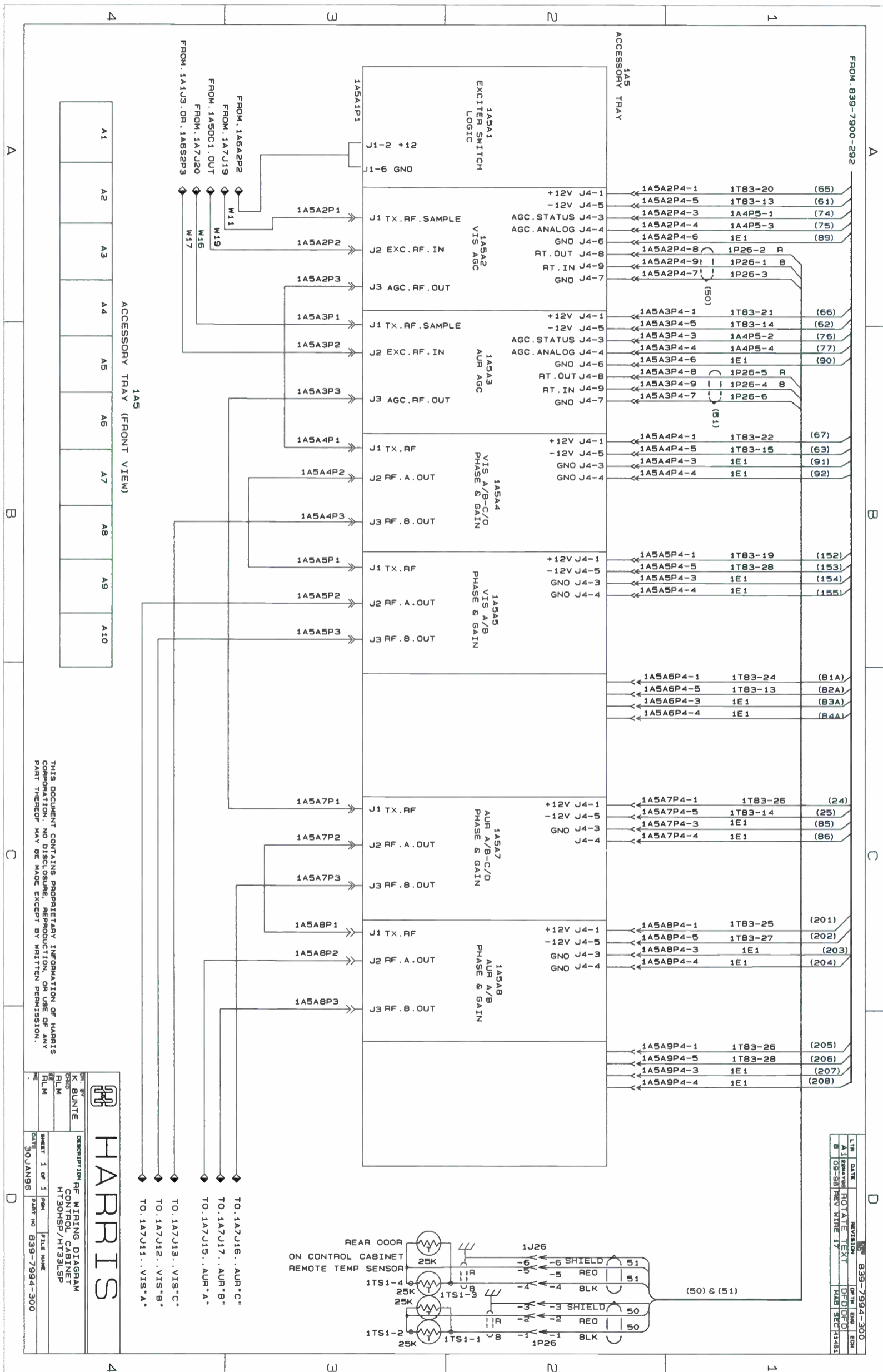
DR. BY G YDCHUM	DESCRIPTION WIRING DIAG. VIS AUR PA
CHKD G YDCHUM	
DATE 2-18-92	SHEET 8 OF 8 PART NO 839 7994 103





- RF SAMPLE POINT USAGE
- 14 = COMBINED AUR REF PWR
 - 13 = COMBINED AUR FWR PWR
 - 12 = AUR AGC SAMPLE
 - 11 = COMBINED AUR REJECT PWR
 - 10 = AUR-A/B REJECT PWR
 - 9 = AUR PA FWR PWR
 - 8 = COMBINED VIS REF PWR
 - 7 = COMBINED VIS FWR PWR
 - 6 = VIS AGC SAMPLE
 - 5 = COMBINED VIS REJECT PWR
 - 4 = VIS-A/B REJECT PWR
 - 3 = VIS PA REF PWR
 - 2 = VIS PA FWR PWR
 - 1 = VIS DRIVE

REVISIONS	LTR	ZONE	DATE	DFTM	ENG	ECD NUM		HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY G YOCHUM DATE 5-10-93 ENG G YOCHUM PROJ G YOCHUM HFE G YOCHUM	TITLE BLOCK DIAGRAM RF FLOW HT30LSP (VIS & AUR PA'S)	RD/CS
	A		1-20-94	CAN	CAN				THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.	SHEET 2 OF 2	DWG # 839 7994 202 REV A

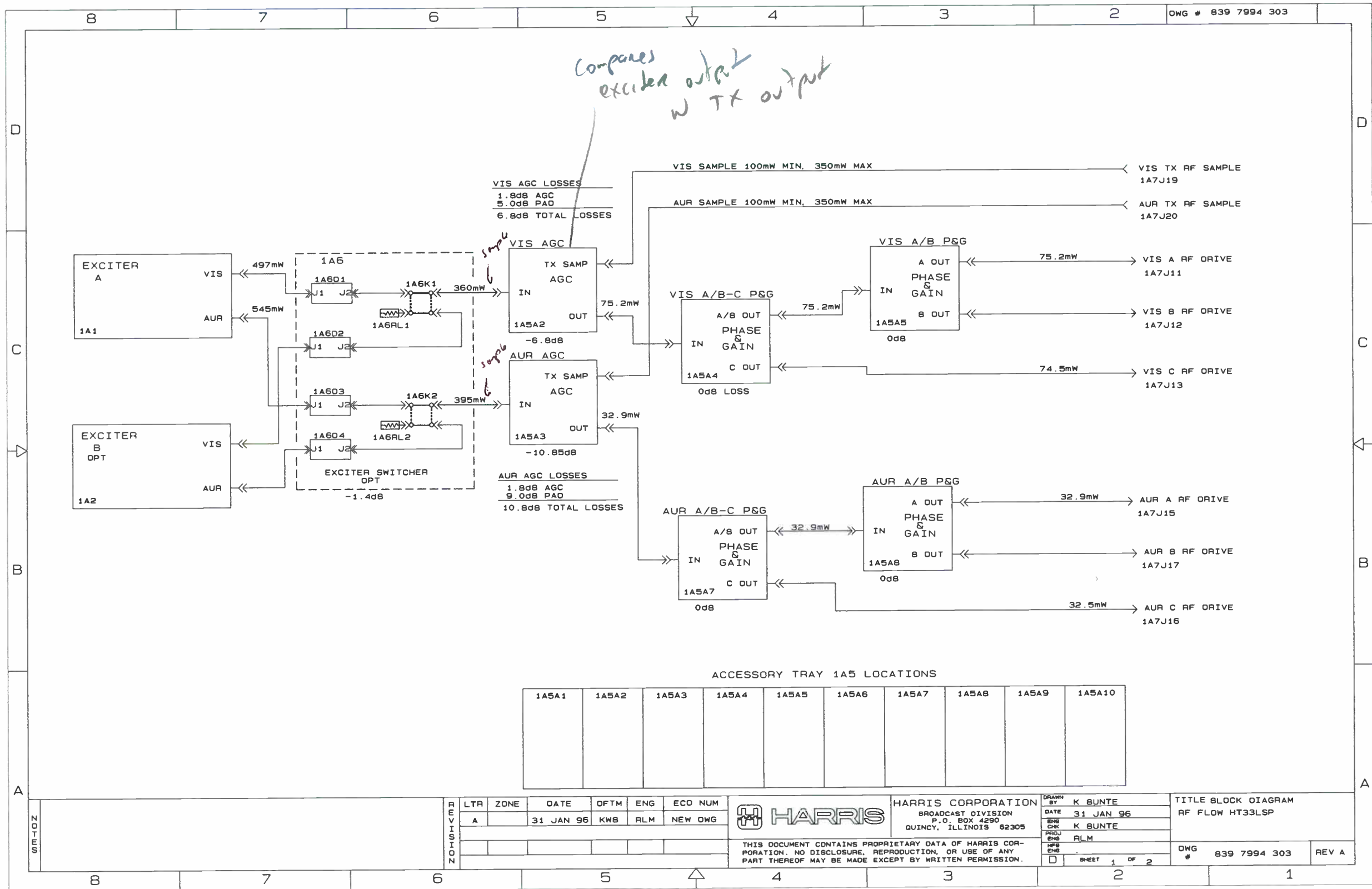


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HARRIS

DESCRIPTION: RE WIRING DIAGRAM
 REVISION: HT30HSP/HT33LSP
 FILE NAME: 30JAN96
 SHEET 1 OF 1
 DATE: 30JAN96

L/R	DATE	REVISION	BY	CHK
A	12/28/96	REV. TEXT	HT30HSP	HT33LSP
B	09-28-96	REV. WIRE 17	HT30HSP	HT33LSP



NOTES

REVISION

LTR	ZONE	DATE	OFTM	ENG	ECO NUM
A		31 JAN 96	KWB	RLM	NEW DWG



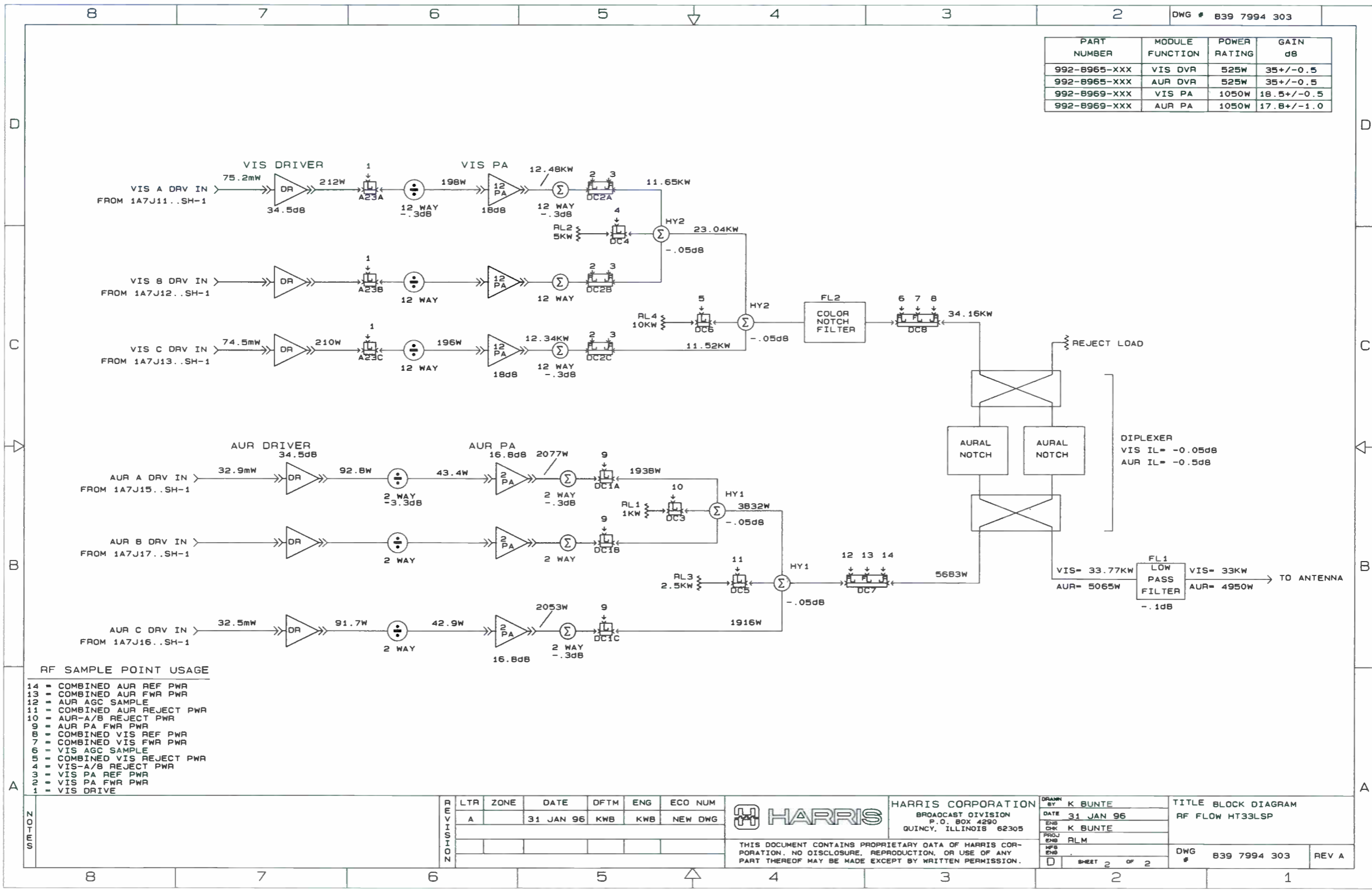
HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	K BUNTE
DATE	31 JAN 96
ENG	
CHK	K BUNTE
PRJ	
ENG	RLM
DATE	
ENG	

TITLE BLOCK DIAGRAM
 RF FLOW HT33LSP

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OWG #	839 7994 303	REV A
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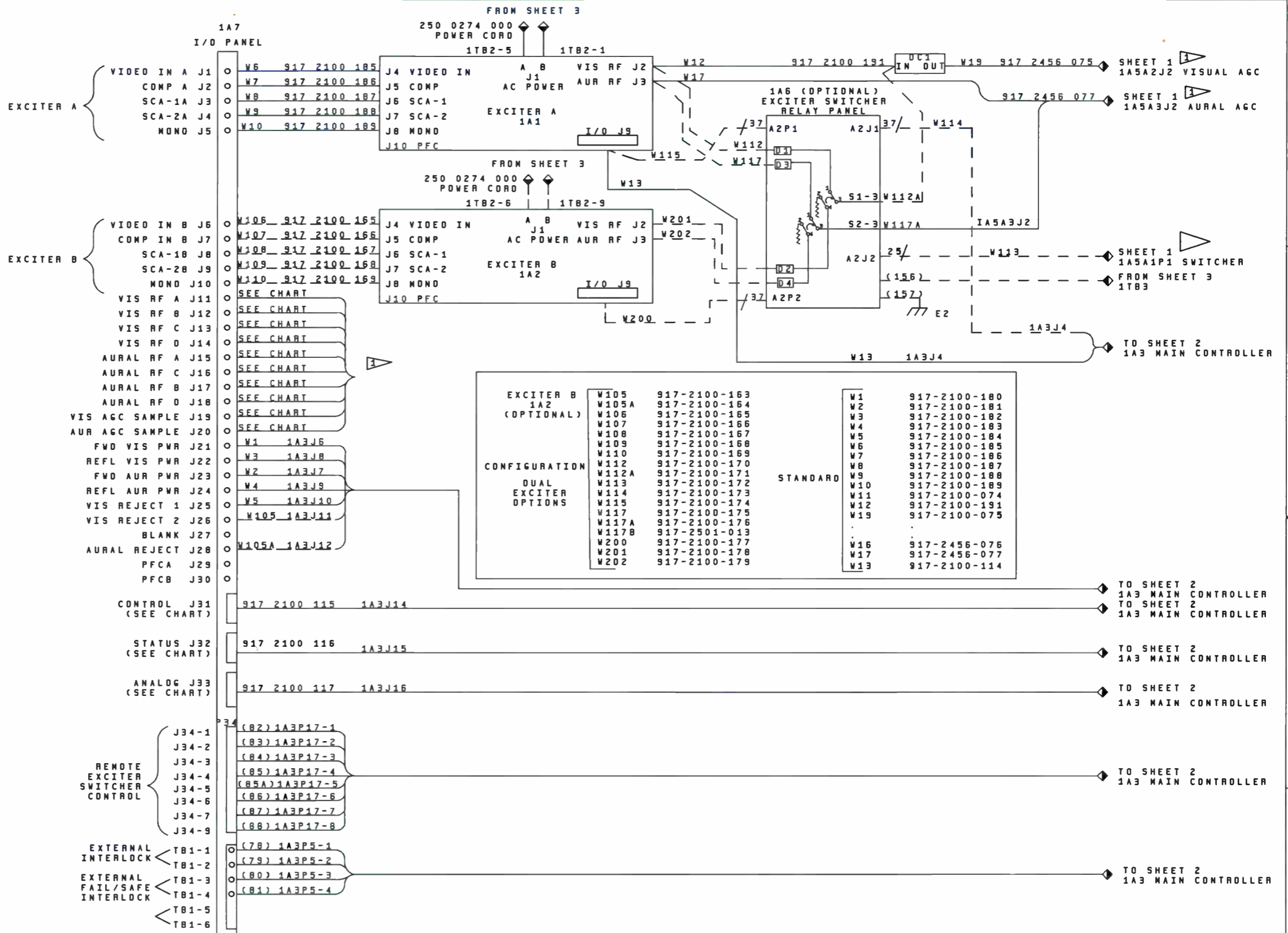
- J31 COMMAND INPUTS**
- 1 TRANSMITTER ON
 - 2 TRANSMITTER OFF
 - 3 VISUAL POWER RAISE
 - 4 VISUAL POWER LOWER
 - 5 AURAL POWER RAISE
 - 6 AURAL POWER LOWER
 - 7 SELECT EXCITER A (DPT)
 - 8 SELECT EXCITER B (DPT)
 - 9 SELECT MANUAL (DPT)
 - 10 SELECT AUTO (DPT)
 - 11-18 NO CONNECTION
 - 19-36 GROUNDS
 - 19.37 (DPT +12V J20 A-C OR USE EXTERNAL SUPPLY (J20 B-C) THE (DPT) FUNCTIONS ARE SUPPLIED WHEN THE OPTIONAL EXCITER SWITCHER IS INSTALLED

- J32 STATUS OUTPUTS**
- 20 TRANSMITTER ON
 - 21 LOCAL
 - 22 VSWR FOLDBACK ACTIVE
 - 23 VSWR FAULT
 - 24 MONITOR FAULT
 - 25 CONTROL FAULT
 - 26 EXTERNAL INTERLOCK
 - 27 PHASE LOSS
 - 28 EXCITER MUTE
 - 29 EXCITER FAULT
 - 30 SUPPLY FAULT
 - 31 MODULE FAULT
 - 32 AIR LOSS
 - 33 ODDR INTERLOCK
 - 34 SPARE FAULT
 - 35 NOT USED
 - 36 GROUND
 - 19-37 OPTIONAL VOLTAGE +12V
 - J21 A-C OR EXTERNAL SUPPLY
 - J21 B-C
 - 1-16 OPTIONAL VOLTAGE J21 A-C OR B-C DR NONE

- J33 CALIBRATED OUTPUTS RANGE**
- 1 VISUAL FORWARD POWER 0-3.0 VOLTS - 0-100%
 - 2 VISUAL VSWR 0-2.0 VOLTS - 1.0-2.0 VSWR
 - 3 AURAL FORWARD POWER 0-3.0 VOLTS - 0-100%
 - 4 AURAL VSWR 0-2.0 VOLTS - 1.0-2.0 VSWR
 - RAW UN-CALIBRATED OUTPUTS ALL OUTPUTS ARE:
 - 5 REJECT LOAD POWER-7.5KW PEAK CALIBRATED FOR 2.5 VOLTS NOT USED
 - 6 REJECT LOAD 2 POWER CALIBRATED FOR 2.5 VOLTS- 3KW
 - 7 AURAL REJECT LOAD POWER
 - 8 VISUAL FORWARD POWER
 - 9 AURAL FORWARD POWER
 - 10 VISUAL REFLECTED POWER
 - 11 AURAL REFLECTED POWER
 - 12-19 NC
 - 37 NC
 - 20-36 ANALOG GROUND SIDE OF 1-11

- J34 OPTIONAL STATUS (FROM J17 MAIN CONTROLLER)**
- 1 EXCITER A SELECTED
 - 2 EXCITER B SELECTED
 - 3 MANUAL SELECTED
 - 4 AURAL DRIVER FAULT
 - 5 VISUAL DRIVER FAULT
 - 6 GROUND
 - 7 GROUND
 - 8 GROUND
 - 9 OPTIONAL VOLTAGE (J21 A-C +12 VOLTS OR B-C OR NONE)

DASHED LINES INDICATE OPTIONAL EQUIPMENT



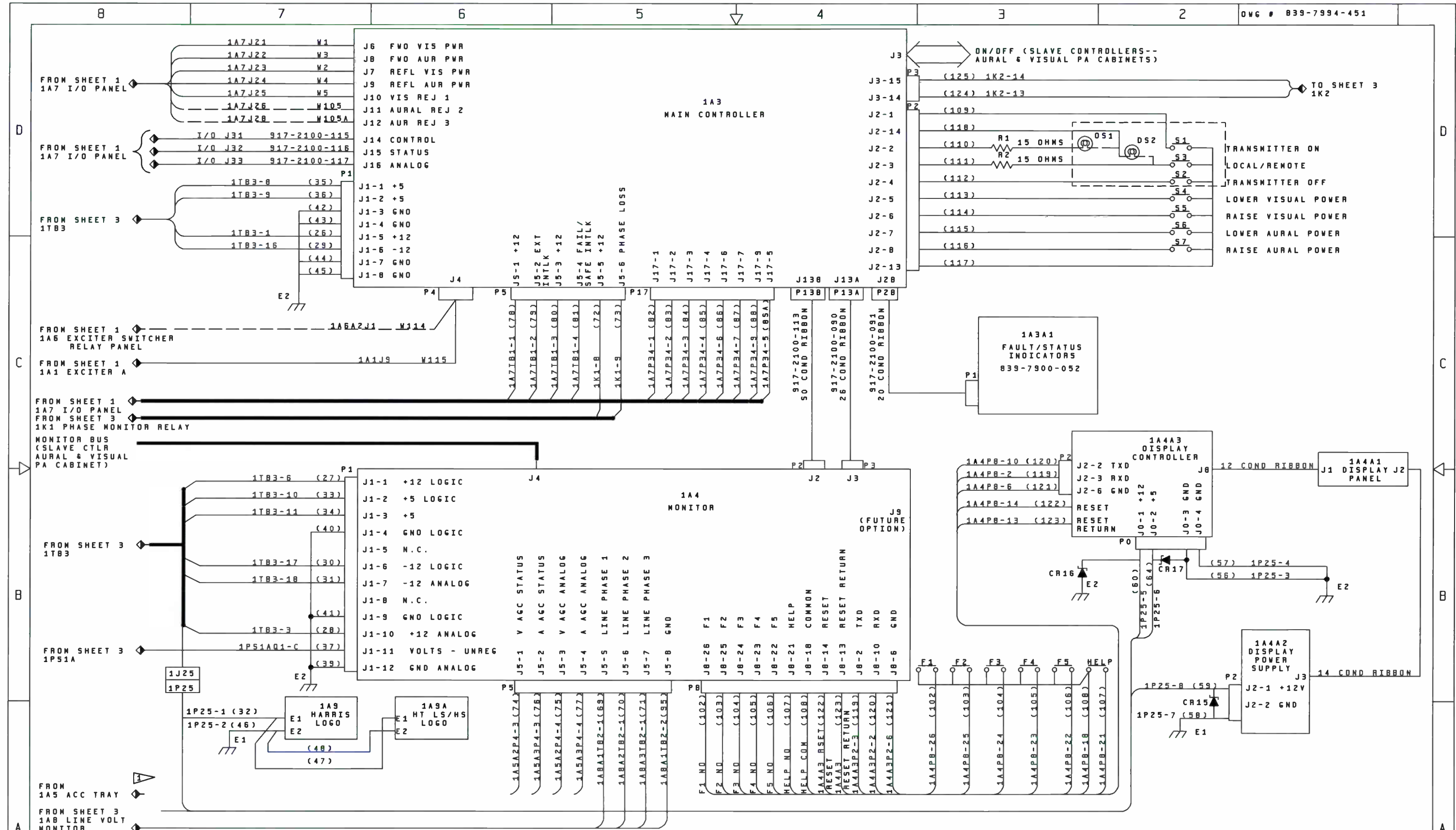
CONFIGURATION DUAL EXCITER OPTIONS

W105	917-2100-163
W105A	917-2100-164
W106	917-2100-165
W107	917-2100-166
W108	917-2100-167
W109	917-2100-168
W110	917-2100-169
W112	917-2100-170
W112A	917-2100-171
W113	917-2100-172
W114	917-2100-173
W115	917-2100-174
W117	917-2100-175
W117A	917-2100-176
W117B	917-2501-013
W200	917-2100-177
W201	917-2100-178
W202	917-2100-179

STANDARD

W1	917-2100-180
W2	917-2100-181
W3	917-2100-182
W4	917-2100-183
W5	917-2100-184
W6	917-2100-185
W7	917-2100-186
W8	917-2100-187
W9	917-2100-188
W10	917-2100-189
W11	917-2100-074
W12	917-2100-191
W19	917-2100-075
W16	917-2456-076
W17	917-2456-077
W13	917-2100-114

NOTES 1 SEE SCHEMATIC CHART ON SHEET 3 FOR CORRECT MODEL SCHEMATIC FOR RF CABLING. 2 RF SAMPLE MAY BE RECONFIGURED IN AURAL PATH TO SAMPLE AURAL RF.	REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NUM	<p>HARRIS CORPORATION BROADCAST SYSTEMS P.O. BOX 4290 QUINCY, ILLINOIS 62305</p>	DRAWN BY	C NEAL	TITLE BASIC WIRING DIAGRAM CONTROL CABINET DWG # 839-7994-451 REV B
		A		5/00			NEW		DATE	9 MAY 00	
		B		6/00	CN	CN	P13527		ENG CHK	C NEAL	
		REVISE PAGE 3							PROJ ENG	C NEAL	
								RFC ENG	T D'NEAL	SHEET 1 of 3	



NOTES

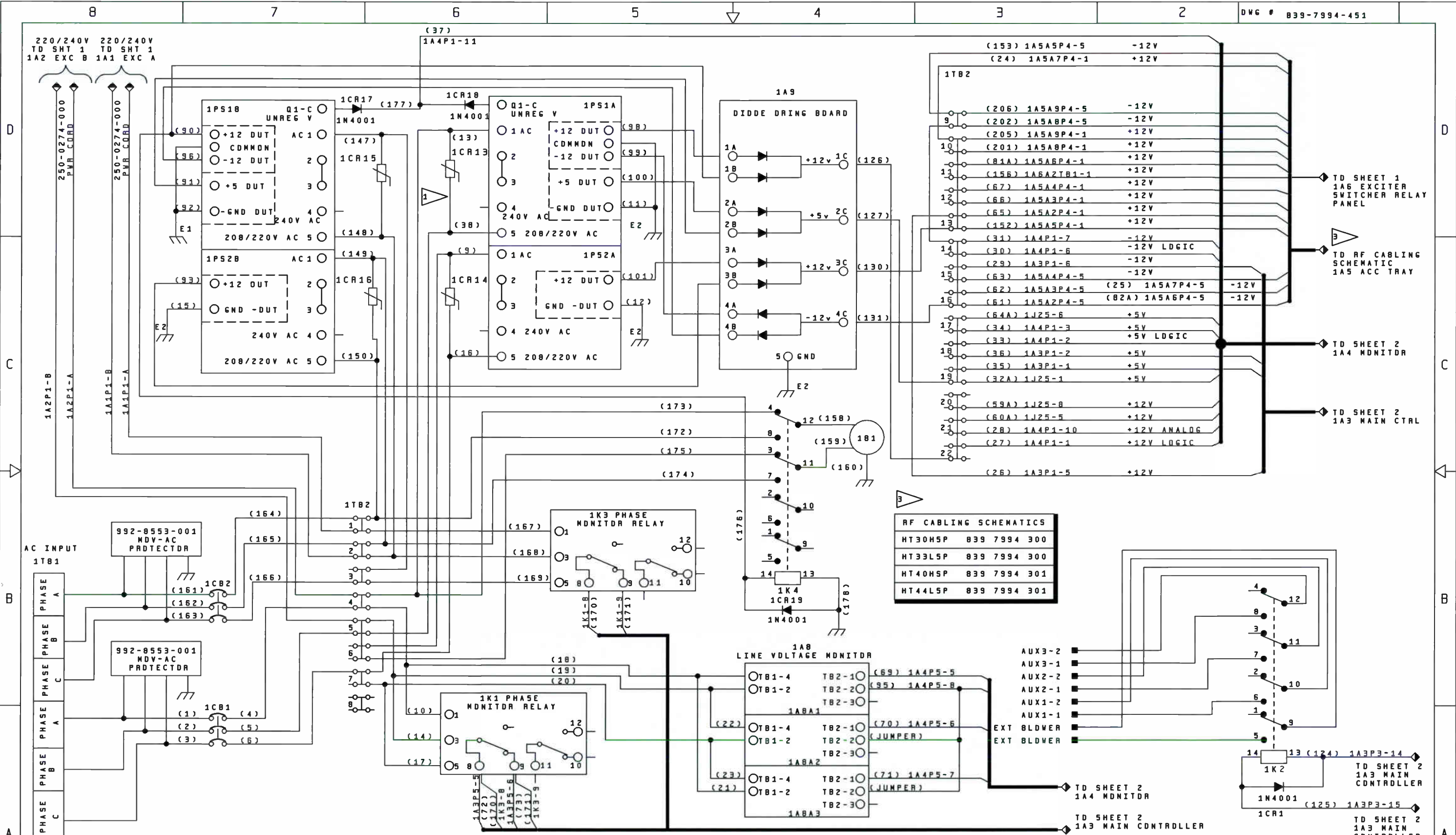
REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
A			6/99			NEW
B			6/00	CN	CN	P13527
REVISE SHT 3						

HARRIS CORPORATION
 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRWN BY	C NEAL
DATE	9 MAY 00
ENG	C NEAL
CHK	C NEAL
PRJ	C NEAL
APP	T O'NEAL
ENG	T O'NEAL
D	SHEET 2 OF 3

TITLE	BASIC WIRING DIAGRAM CONTROL CABINET HT SERIES LS/HS
DWG #	839-7994-451
REV	B



NOTES:

1 1PS1 AND 1PS2 SHDWN WIRED FOR 208V/220V. PHASE MONITOR IS A HARRIS PART #740 0837 000 ADJUST TO CORRECT VOLTAGE SETTING

2 GND5 E1 - 46,89,90,91,92
E2 - 11,12,39,40,41,42,43,44,45,56,57,58,157

REV	DATE	BY	CHK	APP	DESCRIPTION
A	5/00				NEW
B	6/00	CN	CN		P13527

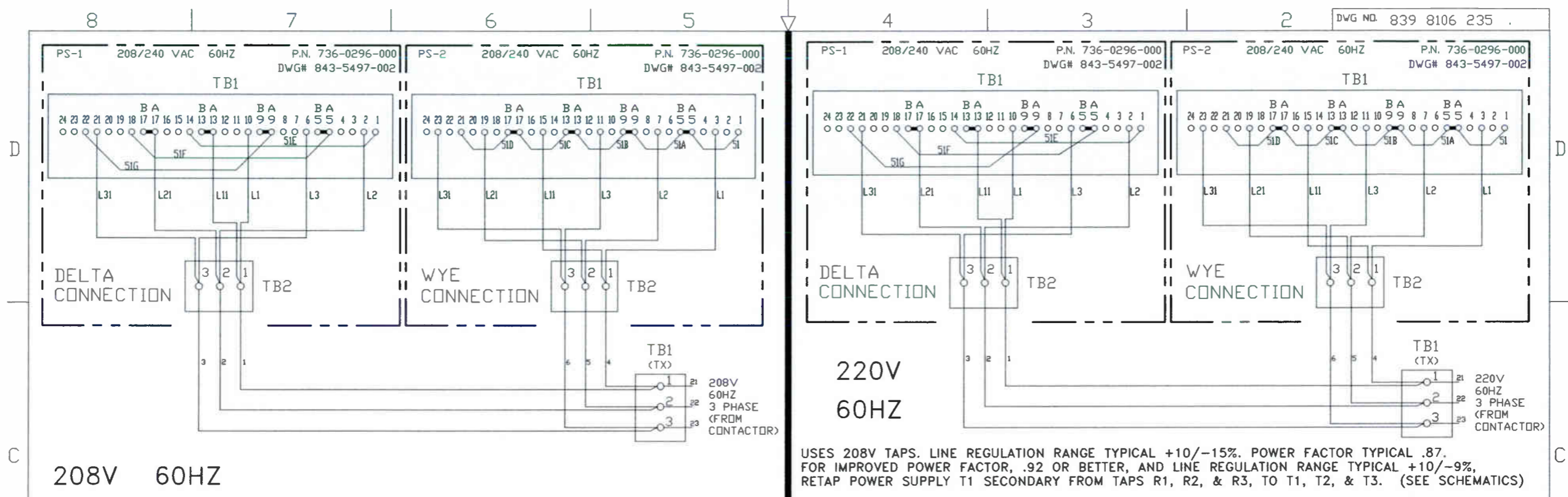
MDVE WIRES 172 THRU 175. REVERSE 1CR19

HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4250
QUINCY, ILLINOIS 62305

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DATE	9 MAY 00
ENG	C NEAL
CHK	C NEAL
PROJ	C NEAL
ENG	T D NEAL
APP	
DWG	SHEET 3 OF 3

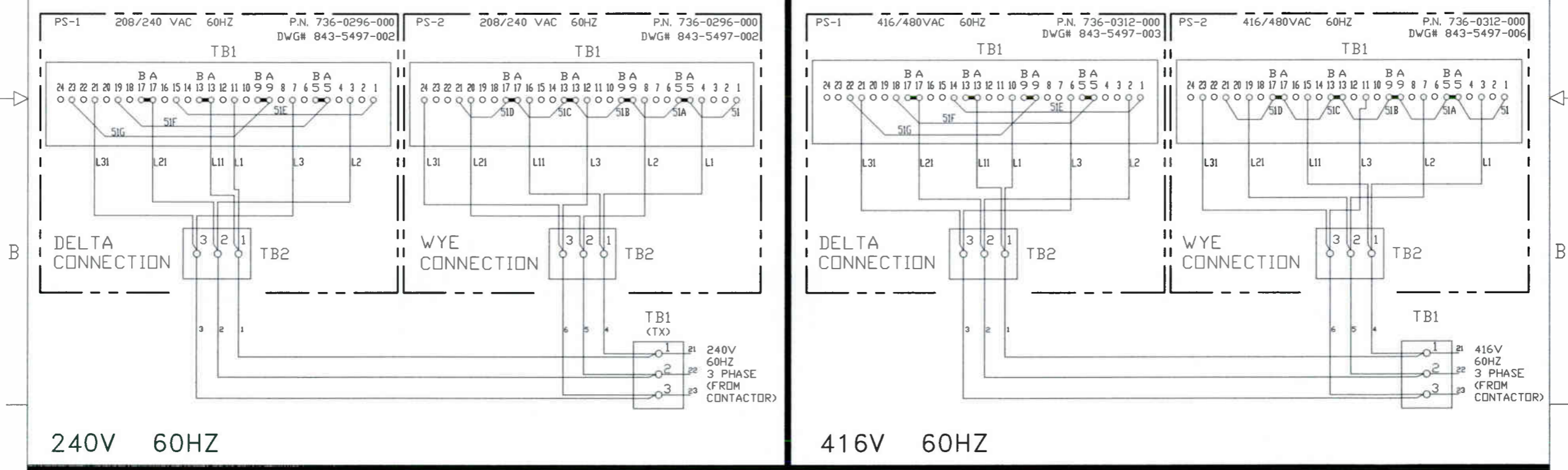
TITLE	BASIC WIRING DIAGRAM CONTROL CABINET WITH DUAL POWER SUPPLYS
DWG #	839-7994-451
REV	B



208V 60HZ

220V
60HZ

USES 208V TAPS. LINE REGULATION RANGE TYPICAL +10/-15%. POWER FACTOR TYPICAL .87. FOR IMPROVED POWER FACTOR, .92 OR BETTER, AND LINE REGULATION RANGE TYPICAL +10/-9%, RETAP POWER SUPPLY T1 SECONDARY FROM TAPS R1, R2, & R3, TO T1, T2, & T3. (SEE SCHEMATICS)



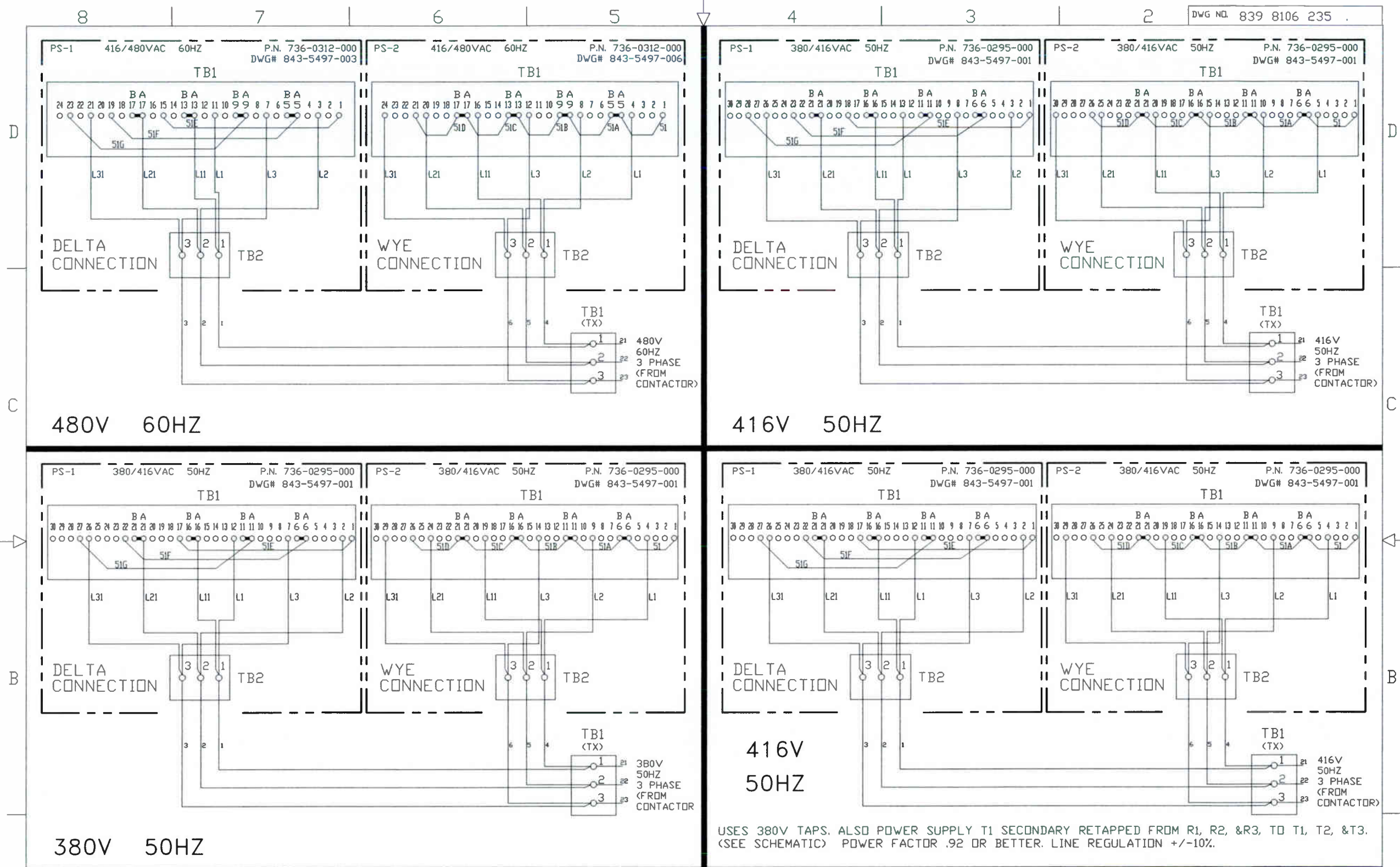
240V 60HZ

416V 60HZ

HOLE	QTY	DESCRIPTION
TOLERANCES UNLESS NOTED		ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED
.X ± .030	.XX ± .015	MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001
.XXX ± .005	ANGLES ± 1 DEG	
ALL √ INDICATES 125 MICRO INCH		

NOTES: ○ = TERMINAL BOARD PLUG-IN JUMPER ON TB1 * SERVICE REPLACEMENT OR MIXED UNITS BASED ON AVAILABILITY.	REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NBR	
	1	A					NEWDWG	
	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305							
	THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.							
	DRAWN BY: K BUNTE DATE: 16 FEB 98 ENG CHK: C NEAL PROJ ENG: K ROSEVOLD MFG ENG: D MYERS C SHEET 1 OF 2							

TITLE	WIRING DIAGRAM DELTA/WYE CONFIGURATION
DWG NO.	839 8106 235
REV	A



480V 60HZ

416V 50HZ

380V 50HZ

416V
50HZ

USES 380V TAPS. ALSO POWER SUPPLY T1 SECONDARY RETAPPED FROM R1, R2, & R3, TO T1, T2, & T3. (SEE SCHEMATIC) POWER FACTOR .92 OR BETTER. LINE REGULATION +/-10%.

NOTES:
 ○ = TERMINAL BOARD PLUG-IN JUMPER ON TB1
 LINE REGULATION AND POWER FACTOR PERCENTAGES ARE TYPICAL.
 * SERVICE REPLACEMENT OR MIXED UNITS BASED ON AVAILABILITY.

REV	DATE	DESCRIPTION
A		NEW DWG

HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

HOLE	QTY	DESCRIPTION
TOLERANCES UNLESS NOTED .X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG ALL √ INDICATES 125 MICRO INCH		
ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001		
DRAWN BY	K BUNTE	TITLE
DATE	16 FEB 98	WIRING DIAGRAM
ENG CHK	C NEAL	DELTA/WYE CONFIGURATION
PRD	K ROSEVOLD	-
ENG	D MYERS	DWG NO. 839 8106 235
REV	C	REV A

8

7

6

5

4

3

2

1

DWG NO. 839 8106 371

PTCD20P2

839-8106-371 DOCUMENTATION TREE DWG.

CONTROL CABINET

839-7900-043	EXCITER SWITCER LOGIC	SCHEMATIC
839-7900-052	FAULT LAMPS	SCHEMATIC
839-7900-065	MONITOR BOARD	SCHEMATIC
839-7900-072	DISCRETE CONTROLLER	SCHEMATIC
839-7900-080	EXCITER SWITCHER RELAY PANEL	SCHEMATIC
839-7900-614	MOV AC PROTECTOR	SCHEMATIC
839-9297-001	LINE VOLTAGE SAMPLE	SCHEMATIC
843-5275-210	BASIC CONTROL CAB WIRING	DIAGRAM
843-5275-211	EXCITER SWITCHER OPTION	SCHEMATIC
843-5275-212	RF WIRING CONTROL CAB	SCHEMATIC
843-5285-391	VHF PHASE & GAIN	SCHEMATIC
843-5400-401	ON PULSE STRETCHER	SCHEMATIC
843-5400-411	ON DELAY	SCHEMATIC
843-5460-171	AGC	SCHEMATIC

POWER AMP CABINET

839-7900-070	SCR BLEEDER ASSY	SCHEMATIC
839-7900-111	BUSS TERMINATION ASSY	SCHEMATIC
839-7900-123	4 WAY DIVIDER	SCHEMATIC
839-7900-159	CAPACITOR BOARD	SCHEMATIC
839-7900-200	SLAVE CONTROLLER	SCHEMATIC
839-7900-372	2 WAY COMBINER	SCHEMATIC
839-7900-614	MOV AC PROTECTOR	SCHEMATIC
839-7900-714	14 WAY COMBINER	SCHEMATIC
839-7900-715	14 WAY DIVIDER	SCHEMATIC
843-5275-209	PA CABINET WIRING	DIAGRAM
843-5497-001	380V 50HZ BASLER P/S	SCHEMATIC
843-5497-002	208/240 60HZ BASLER P/S	SCHEMATIC
843-5497-005	BASLER CONTROLLER	SCHEMATIC
843-5497-006	480V 60HZ BASLER P/S	SCHEMATIC

SYSTEM DOCUMENTATION

839-8106-235	DELTA/WYE CONFIGURATION	DIAGRAM
839-8106-233	AC POWER FLOW	SCHEMATIC
843-5275-213	RF FLOW	DIAGRAM
843-5275-214	INTERCONNECT	DIAGRAM
843-5275-215	CONTROL BLOCK DIAGRAM	DIAGRAM
843-5275-157	OUTLINE DRAWING	DIAGRAM
843-5505-200	RF LAYOUT	DIAGRAM

DRIVER & AMP MODULES

839-7900-047	LED BOARD	SCHEMATIC
839-7900-642	OUTPUT COUPLER HIGHBAND	SCHEMATIC
839-7900-700	MODULE CONTROL BOARD	SCHEMATIC
839-7900-702	HIGHBAND QUARTER MODULE	SCHEMATIC
843-4999-637	PA MODULE	SCHEMATIC
843-4999-639	HIGHBAND DRIVER MODULE	SCHEMATIC

NOTE: DRAWINGS ARE IN NUMERICAL ORDER IN I.B. EXCEPT FOR FIRST DRAWING

NOTES

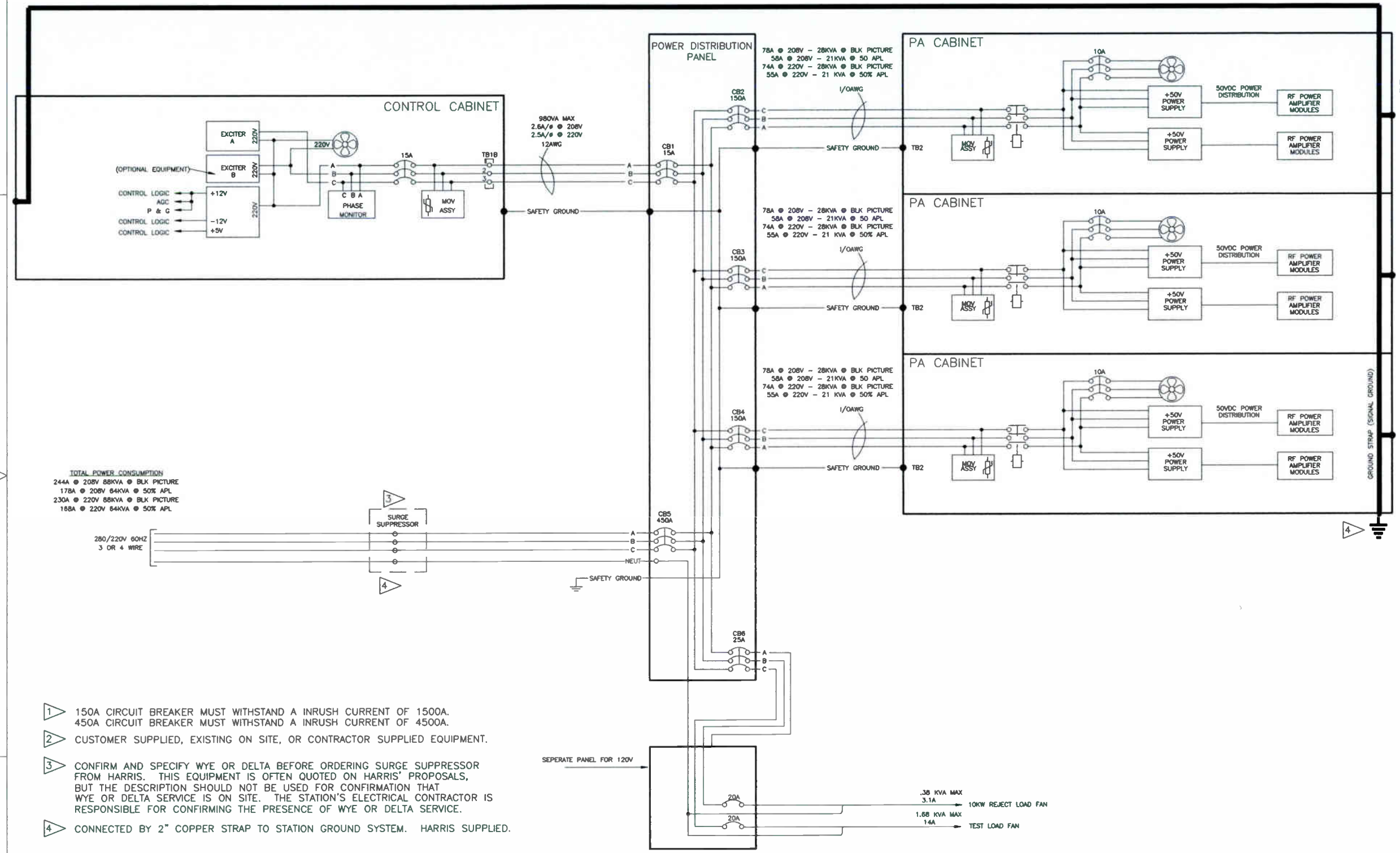
REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
	C	.	5/00	CN	CN	NEW DWG
ADD ON PULSE STRECHER/ON DELAY SCHEMATICS						
	B	.	2/00	CN	CN	P12468
ADD 4 WAY DIVIDER						



HARRIS CORPORATION
BROADCAST COMMUNICATIONS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY	C NEAL
DATE	5-26-99
ENG CHK	C NEAL
PROJ ENG	C NEAL
MFG ENG	CORNWELL
C	SHEET 1 OF 1

TITLE	COVER SHEET
	PTCD20P2
	HIGH BAND
DWG NO.	839 8106 371
REV	C



- 1 150A CIRCUIT BREAKER MUST WITHSTAND A INRUSH CURRENT OF 1500A.
450A CIRCUIT BREAKER MUST WITHSTAND A INRUSH CURRENT OF 4500A.
- 2 CUSTOMER SUPPLIED, EXISTING ON SITE, OR CONTRACTOR SUPPLIED EQUIPMENT.
- 3 CONFIRM AND SPECIFY WYE OR DELTA BEFORE ORDERING SURGE SUPPRESSOR FROM HARRIS. THIS EQUIPMENT IS OFTEN QUOTED ON HARRIS' PROPOSALS, BUT THE DESCRIPTION SHOULD NOT BE USED FOR CONFIRMATION THAT WYE OR DELTA SERVICE IS ON SITE. THE STATION'S ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE PRESENCE OF WYE OR DELTA SERVICE.
- 4 CONNECTED BY 2" COPPER STRAP TO STATION GROUND SYSTEM. HARRIS SUPPLIED.

NOTES

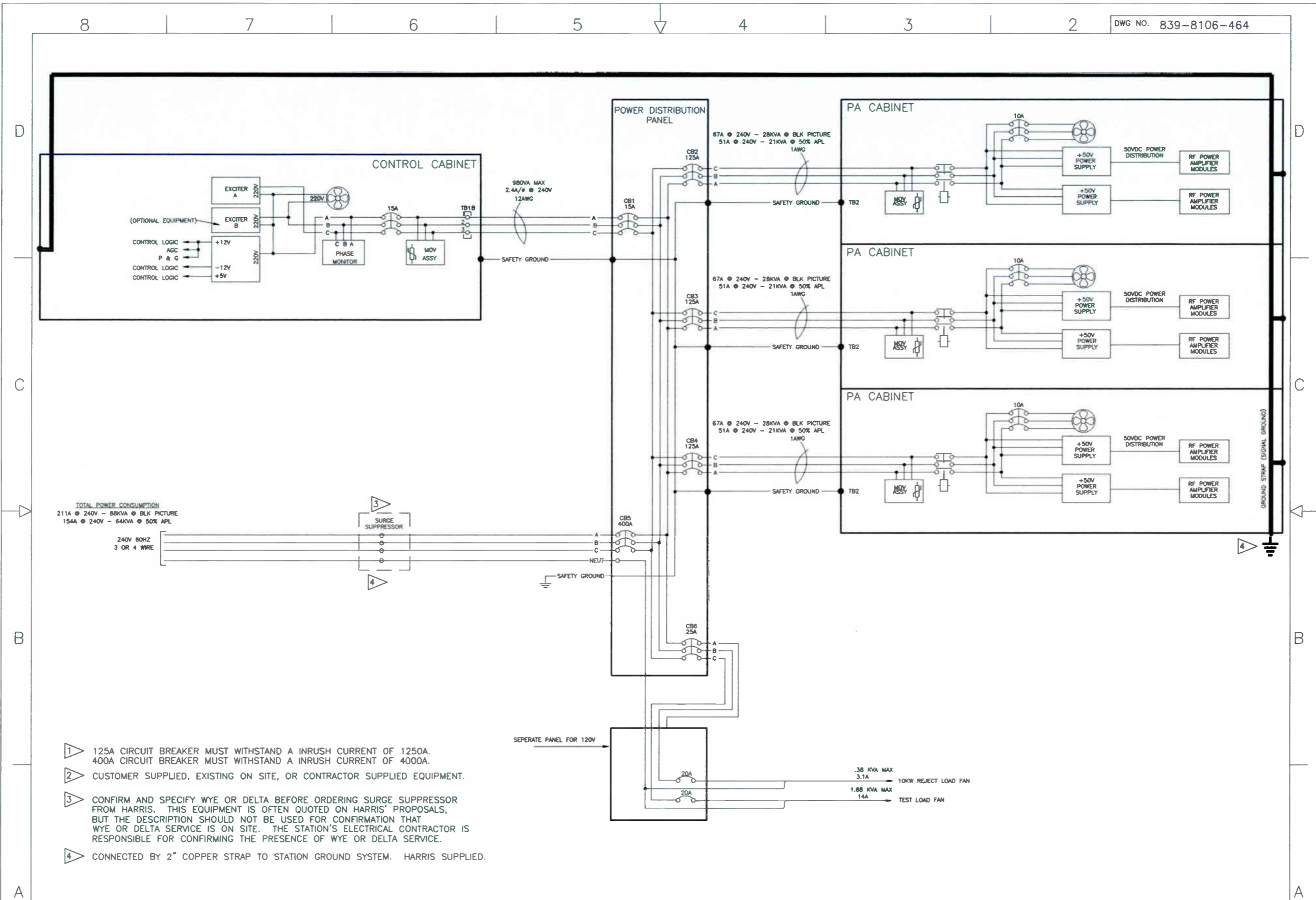
REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
C			12-08-00	DWP	DWP	P15168
ADD SURGE SUPPRESSOR & NOTES						
B			06-14-00	DWP	CN	P13660
EDIT TEXT						



HARRIS CORPORATION
BROADCAST COMMUNICATIONS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY	J WELSH
DATE	30 NOV 99
ENG CHK	C NEAL
PROJ ENG	C NEAL
MFG ENG	CROCKETT
SHEET	1 OF 4

TITLE	AC POWER FLOW HT33LSP/HT30HSP 208/220VAC 3 OR 4 WIRE
DWG NO.	839-8106-464
REV	C



TOTAL POWER CONSUMPTION
 211A @ 240V - 68KVA @ BLK PICTURE
 154A @ 240V - 64KVA @ 50% APL

- 1 125A CIRCUIT BREAKER MUST WITHSTAND A INRUSH CURRENT OF 1250A.
400A CIRCUIT BREAKER MUST WITHSTAND A INRUSH CURRENT OF 4000A.
- 2 CUSTOMER SUPPLIED, EXISTING ON SITE, OR CONTRACTOR SUPPLIED EQUIPMENT.
- 3 CONFIRM AND SPECIFY WYE OR DELTA BEFORE ORDERING SURGE SUPPRESSOR FROM HARRIS. THIS EQUIPMENT IS OFTEN QUOTED ON HARRIS' PROPOSALS, BUT THE DESCRIPTION SHOULD NOT BE USED FOR CONFIRMATION THAT WYE OR DELTA SERVICE IS ON SITE. THE STATION'S ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE PRESENCE OF WYE OR DELTA SERVICE.
- 4 CONNECTED BY 2" COPPER STRAP TO STATION GROUND SYSTEM. HARRIS SUPPLIED.

NOTES

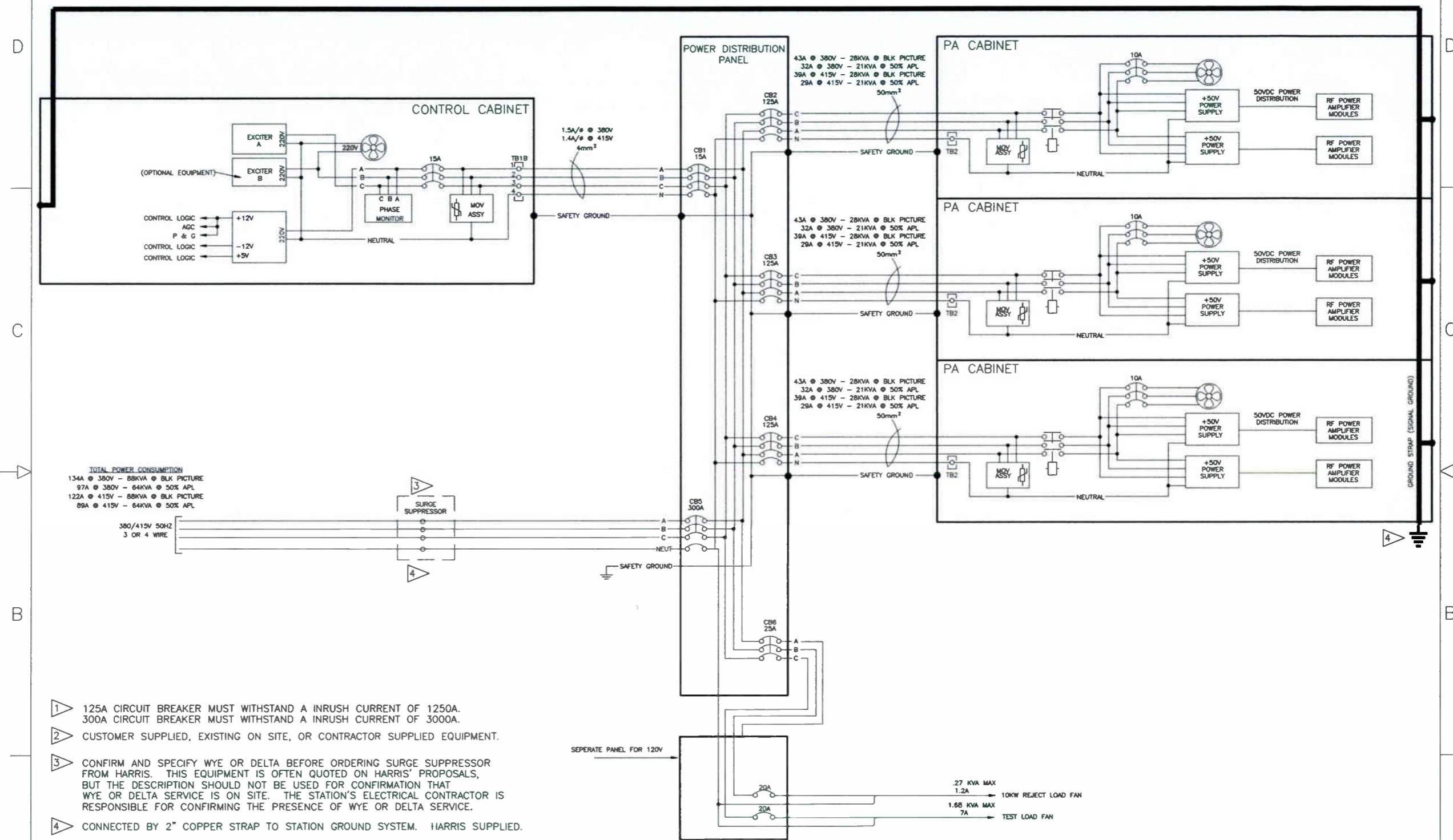
REV	DATE	BY	CHK	DESCRIPTION
C	12-08-00	DWP	DWP	P15168
ADD SURGE SUPPRESSOR & NOTES				
B	06-14-00	DWP	CN	P13660
EDIT TEXT				



HARRIS CORPORATION
 BROADCAST COMMUNICATIONS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	J WELSH
DATE	30 NOV 99
ENG CHK	C NEAL
PROJ ENG	C NEAL
MFG ENG	CROCKETT
SHEET	2 OF 4

TITLE	AC POWER FLOW
	HT33LSP/HT30HSP
	240VAC 60HZ 3 OR 4 WIRE
DWG NO.	839-8106-464
REV	C



- 1 125A CIRCUIT BREAKER MUST WITHSTAND A INRUSH CURRENT OF 1250A. 300A CIRCUIT BREAKER MUST WITHSTAND A INRUSH CURRENT OF 3000A.
- 2 CUSTOMER SUPPLIED, EXISTING ON SITE, OR CONTRACTOR SUPPLIED EQUIPMENT.
- 3 CONFIRM AND SPECIFY WYE OR DELTA BEFORE ORDERING SURGE SUPPRESSOR FROM HARRIS. THIS EQUIPMENT IS OFTEN QUOTED ON HARRIS' PROPOSALS, BUT THE DESCRIPTION SHOULD NOT BE USED FOR CONFIRMATION THAT WYE OR DELTA SERVICE IS ON SITE. THE STATION'S ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE PRESENCE OF WYE OR DELTA SERVICE.
- 4 CONNECTED BY 2" COPPER STRAP TO STATION GROUND SYSTEM. HARRIS SUPPLIED.

NOTES

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
C			12-08-00	DWP	DWP	P15168
ADD SURGE SUPPRESSOR & NOTES						
B			06-14-00	DWP	CN	P13660
EDIT TEXT						

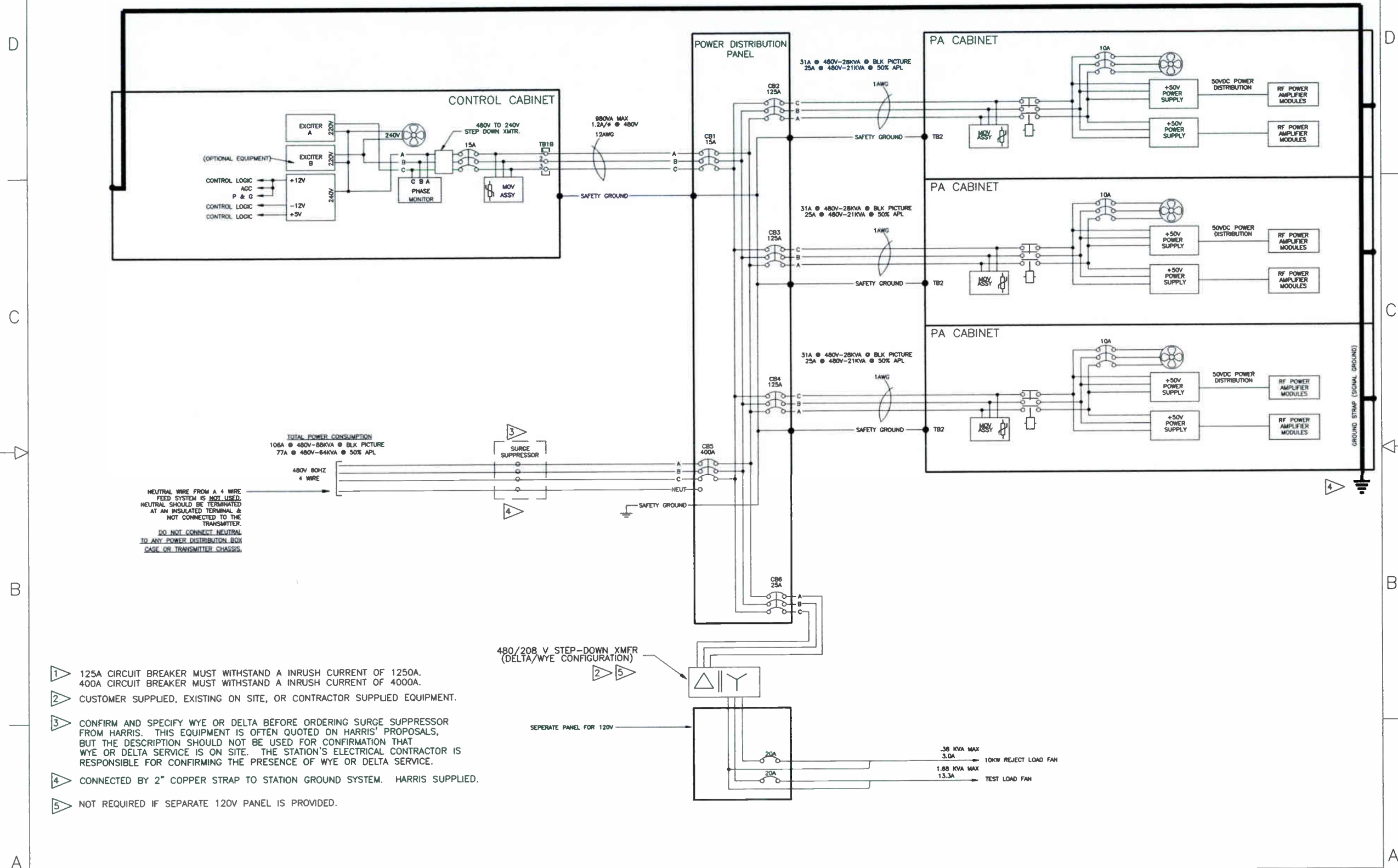
HARRIS

HARRIS CORPORATION
BROADCAST COMMUNICATIONS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

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DRAWN BY	J WELSH
DATE	30 NOV 99
ENG CHK	C NEAL
PROJ ENG	C NEAL
MFG ENG	CROCKETT
C	SHEET 3 OF 4

TITLE	AC POWER FLOW
	HT33LSP/HT30HSP
	380/415VAC 50HZ 4 WIRE
DWG NO.	839-8106-464
REV	C



TOTAL POWER CONSUMPTION
 106A @ 480V-88KVA @ BLK PICTURE
 77A @ 480V-64KVA @ 50% APL

NEUTRAL WIRE FROM A 4 WIRE
 FEED SYSTEM IS NOT USED.
 NEUTRAL SHOULD BE TERMINATED
 AT AN INSULATED TERMINAL &
 NOT CONNECTED TO THE
 TRANSMITTER.
 DO NOT CONNECT NEUTRAL
 TO ANY POWER DISTRIBUTION BOX
 CASE OR TRANSMITTER CHASSIS.

- 1 125A CIRCUIT BREAKER MUST WITHSTAND A INRUSH CURRENT OF 1250A. 400A CIRCUIT BREAKER MUST WITHSTAND A INRUSH CURRENT OF 4000A.
- 2 CUSTOMER SUPPLIED, EXISTING ON SITE, OR CONTRACTOR SUPPLIED EQUIPMENT.
- 3 CONFIRM AND SPECIFY WYE OR DELTA BEFORE ORDERING SURGE SUPPRESSOR FROM HARRIS. THIS EQUIPMENT IS OFTEN QUOTED ON HARRIS' PROPOSALS, BUT THE DESCRIPTION SHOULD NOT BE USED FOR CONFIRMATION THAT WYE OR DELTA SERVICE IS ON SITE. THE STATION'S ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE PRESENCE OF WYE OR DELTA SERVICE.
- 4 CONNECTED BY 2" COPPER STRAP TO STATION GROUND SYSTEM. HARRIS SUPPLIED.
- 5 NOT REQUIRED IF SEPARATE 120V PANEL IS PROVIDED.

NOTES

REV	LTR	ZONE	DATE	DFTM	ENG	ECO	NBR
	C		12-08-00	DWP	DWP		P15168
ADD SURGE SUPPRESSOR, X-FORMER, & NOTES							
	B		06-14-00	DWP	CN		P13660
EDIT TEXT							

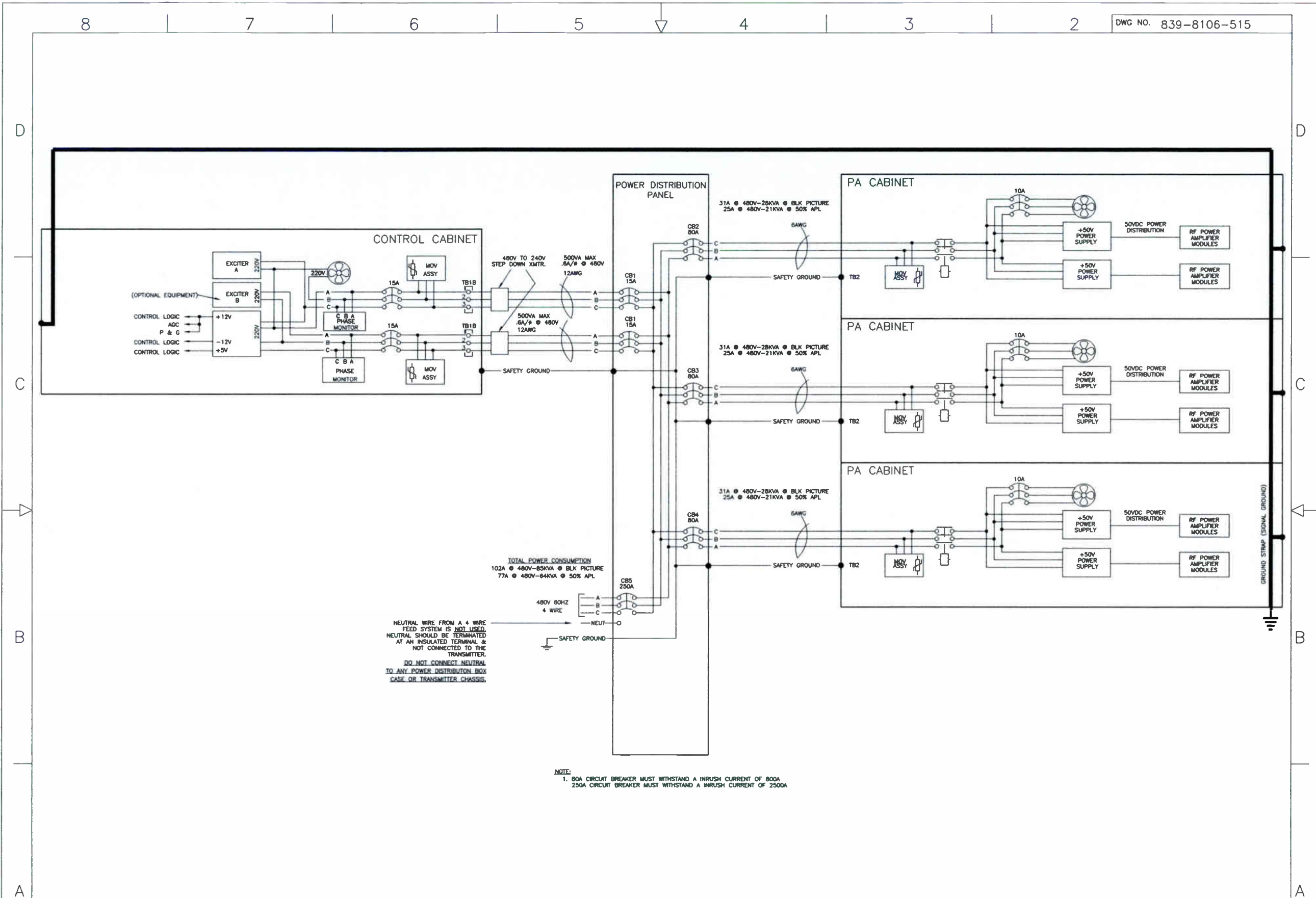
HARRIS

HARRIS CORPORATION
 BROADCAST COMMUNICATIONS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRAWN BY	J WELSH
DATE	30 NOV 99
ENG CHK	C NEAL
PRJW	C NEAL
MFG	CROCKETT
ENG	C
SHEET 4 OF 4	

TITLE	AC POWER FLOW
	HT33LSP/HT30HSP
	480VAC 60HZ 3 OR 4 WIRE
DWG NO.	839-8106-464
REV	C

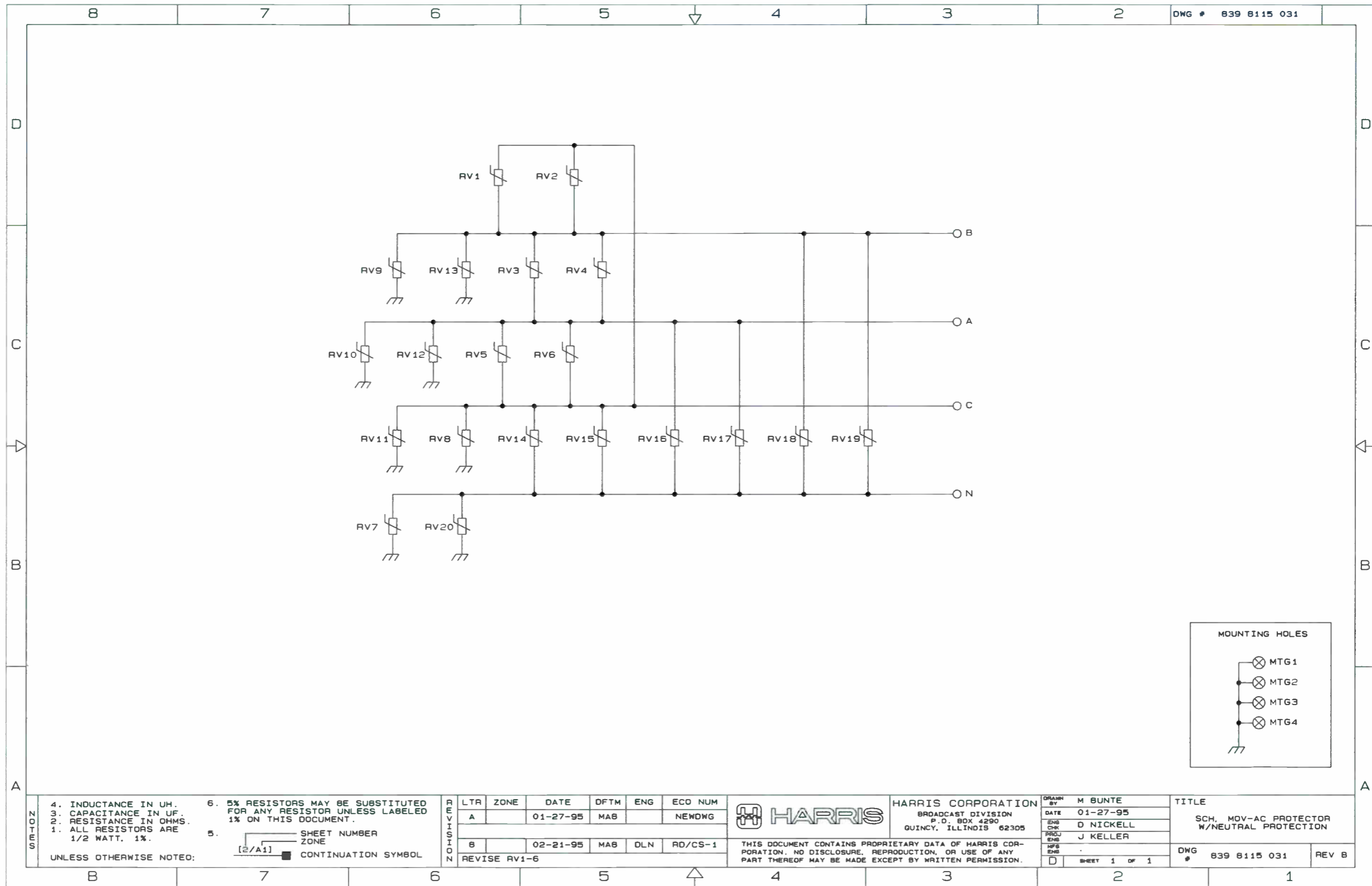


TOTAL POWER CONSUMPTION
 102A @ 480V-85KVA @ BLK PICTURE
 77A @ 480V-64KVA @ 50% APL

NEUTRAL WIRE FROM A 4 WIRE
 FEED SYSTEM IS NOT USED.
 NEUTRAL SHOULD BE TERMINATED
 AT AN INSULATED TERMINAL &
 NOT CONNECTED TO THE
 TRANSMITTER.
 DO NOT CONNECT NEUTRAL
 TO ANY POWER DISTRIBUTION BOX
 CASE OR TRANSMITTER CHASSIS.

NOTE:
 1. 80A CIRCUIT BREAKER MUST WITHSTAND A INRUSH CURRENT OF 800A
 250A CIRCUIT BREAKER MUST WITHSTAND A INRUSH CURRENT OF 2500A

NOTES	REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NBR		HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY C NEAL	TITLE AC POWER FLOW HT33LSP 480VAC 60HZ 3 OR 4 WIRE WITH DUAL AC TO CNTRL CAB
		A					NEWDWG			DATE 9 MAY 00		DWG NO. 839-8106-515
										ENG CHK C NEAL	REV A
										PROJ ENG C NEAL	
										MFG ENG T O'NEAL	
										SHEET 1 OF 1	



4. INDUCTANCE IN UH.
 3. CAPACITANCE IN UF.
 2. RESISTANCE IN OHMS.
 1. ALL RESISTORS ARE
 1/2 WATT, 1%.

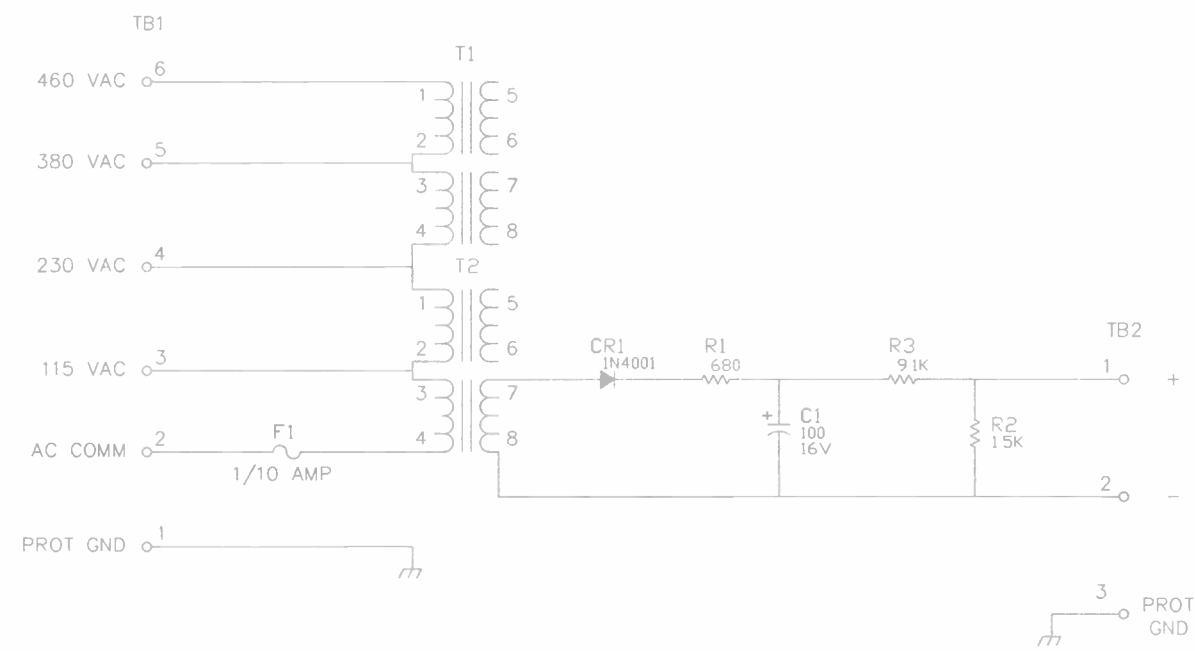
6. 5% RESISTORS MAY BE SUBSTITUTED
 FOR ANY RESISTOR UNLESS LABELED
 1% ON THIS DOCUMENT.
 5. SHEET NUMBER
 ZONE
 [2/A1] CONTINUATION SYMBOL

REV	DATE	ENG	ECO NUM
A	01-27-95	MAB	NEWDWG
B	02-21-95	MAB	DLN RD/CS-1
REVISE RV1-6			

HARRIS
 HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	M BUNTE
DATE	01-27-95
ENG CHK	D NICKELL
PRJCT ENG	J KELLER
SHEET	1 OF 1

TITLE
 SCH. MOV-AC PROTECTOR
 W/NEUTRAL PROTECTION
 DWG # 839 8115 031
 REV B



NOTES
 2 RESISTOR VALUES GIVEN IN OHMS, 5% TOLERANCE
 1. CAPACITOR VALUES GIVEN IN MICROFARADS

REV	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
C			6-17-00	JPK		46164
B			01-20-93	MAB	MAB	38411
REV TITLE, REDRAWN IN AUTOCAD						



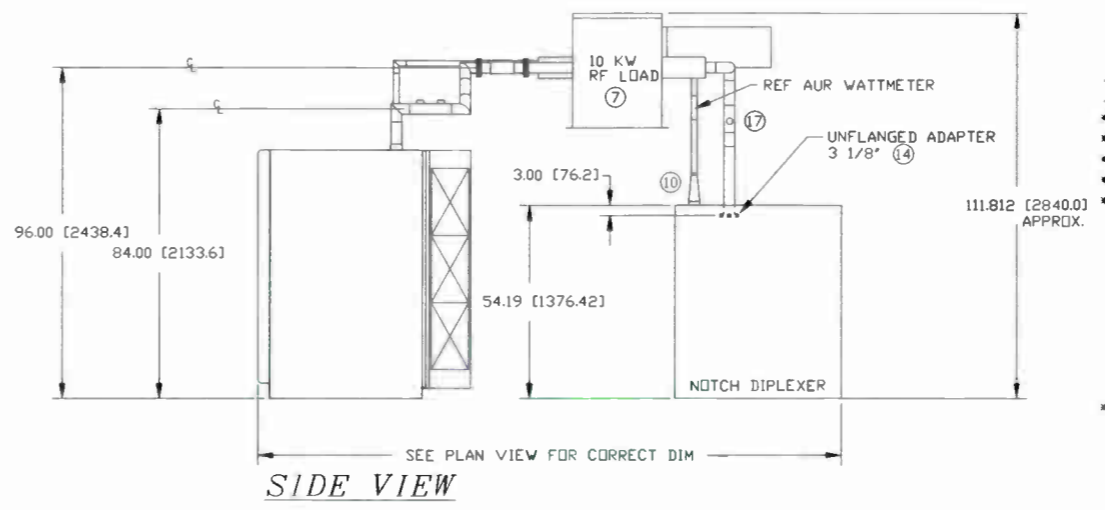
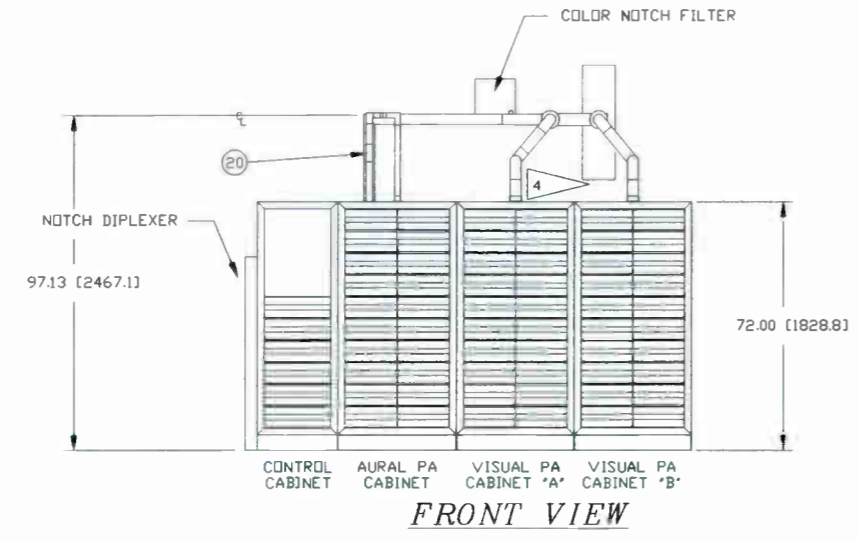
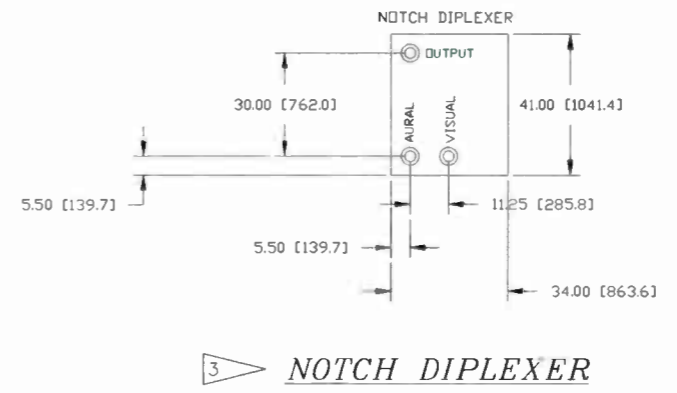
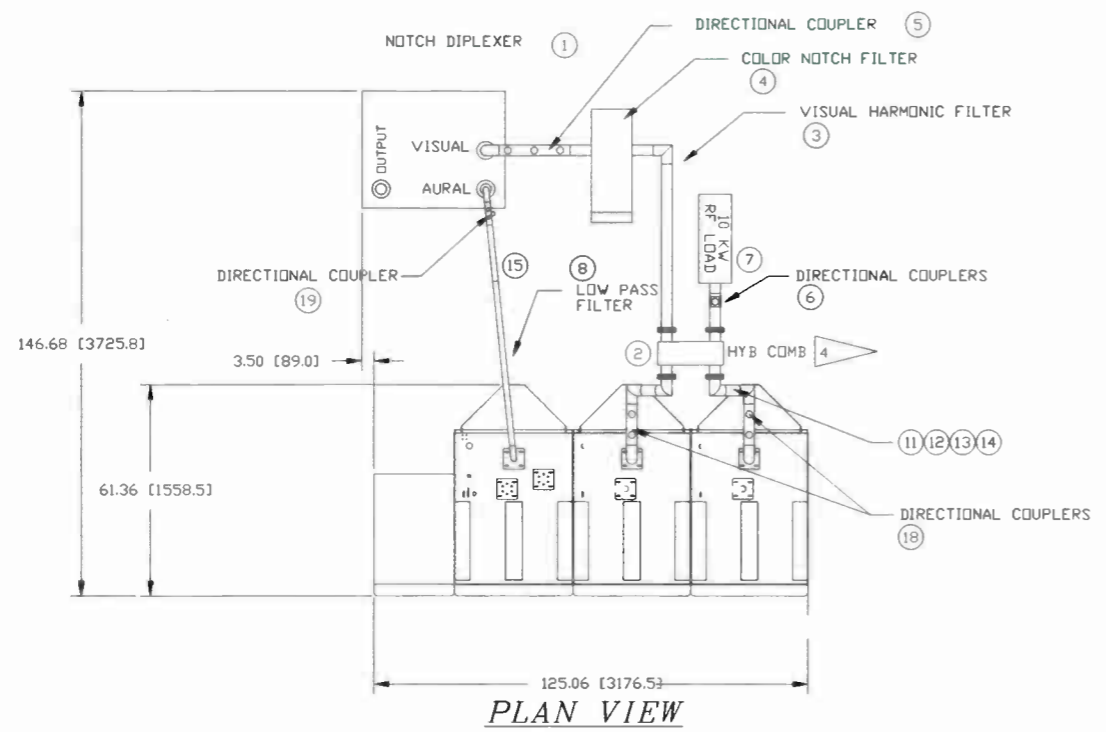
HARRIS CORPORATION
 BROADCAST DIVISION
 P. O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	R ROIDL
DATE	11-13-85
ENG CHK	GJ KELLER
PROJ ENG	BG YUCHUM
MFG ENG	
C	SHEET 1 of 1

TITLE
 SCHEM, LINE VOLT SAMPLE

DWG NO 839 9297 001 . REV C

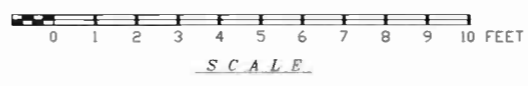
DW 843 4999 133			REVISION	DFTM	ENG	ECN
J	5-18-80		CHG NOTCH DP/ADD WATTMETERS		DVS	35868
K	5-13-81		CORRECTED VIS LOW PASS FILTER		DVS	37118
L	3-3-82		CHG AUR WATTMETER		DVS	37773



• ASTERISKED ITEMS ARE NOT SUPPLIED WITH TRANSMITTER.

QTY.	ITEM	DESCRIPTION
1	20	AURAL WATTMETER
1	19	DIRECTIONAL COUPLER, 1 5/8\"/>
2	18	DIRECTIONAL COUPLER, 3 1/8\"/>
1	17	VISUAL WATTMETER
1	15	LINE ASSY, 1 5/8\"/>
6	14	ADAPTER, UNFLANGED 3 1/8\"/>
10	13	ELBOW, 90° 3 1/8\"/>
13	12	COUPLING ADPT, 3 1/8\"/>
1	11	LINE ASSY, 3 1/8\"/>
1	10	REDUCER, 3 1/8\"/>
1	8	LOW PASS FILTER, AURAL
1	7	RF LOAD, 10KW
1	6	DIRECTIONAL COUPLER, 3 1/8\"/>
1	5	DIRECTIONAL COUPLER, 3 1/8\"/>
1	4	COLOR NOTCH FILTER
1	3	HARMONIC FILTER, VISUAL
1	2	HYBRID COMBINER
1	1	NOTCH DIPLEXER

- 4 ▷ LINE LENGTHS BETWEEN VISUAL "PA" OUTPUTS MUST BE EQUAL.
- 3 ▷ THIS IS A TYPICAL LAYOUT BASED UPON HARRIS SELECTED AND ASSUMED VENDORS. THESE ITEMS ARE CHANNELIZED PER OPERATING FREQUENCY. PHYSICAL OUTLINES AND FLANGE LOCATIONS WILL VARY DEPENDING ON VENDOR PARTS ORDERED AND SHIPPED.
- 2 ▷ LINE LENGTHS ARE TO BE MEASURED AND CUT ON SITE AS REQ'D.
- 1 ▷ DIMENSIONS IN [] ARE IN MILLIMETERS.



UNLESS NOTED, DIMENSIONS ARE IN INCHES. TOLERANCES: X ± .030, XX ± .015, XXX ± .005, ANGLES ± 1 DEG.

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DR. BY WISEMAN 11/84 TITLE LAYOUT, RF PLUMBING HT 30HS 10% AURAL HIGH BAND, (CHAN. 7 SHOWN)

ENG. DVS
PRG. ENG. D. MILFS
MFG. ENG. B. PROCKETT

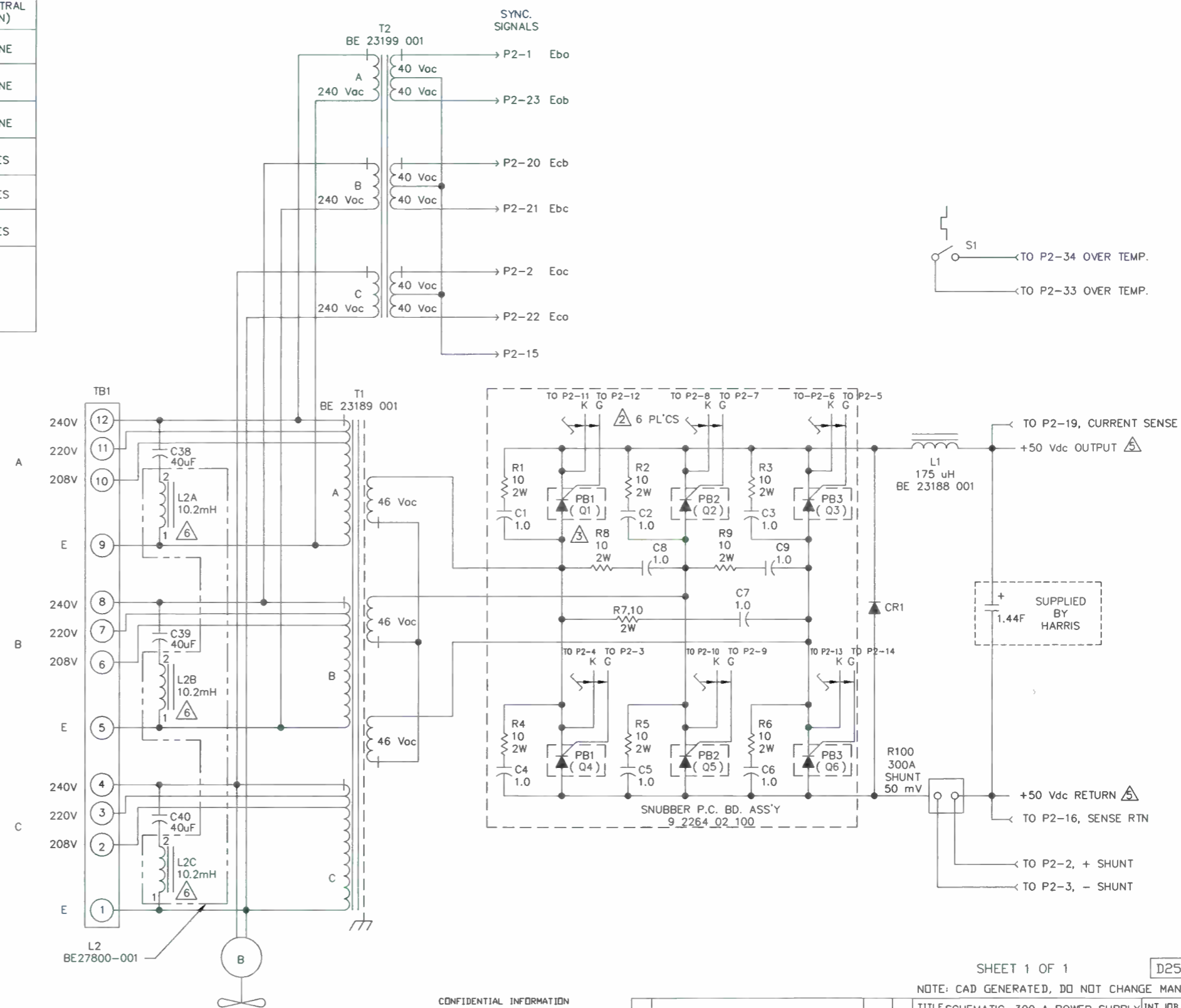
WATL SHEET 1 OF 1 DWG. NO. 843 4999 133

TB1 CONNECTION	12	11	10	9	8	7	6	5	4	3	2	1	NEUTRAL (N)	
208 DELTA			AX	X				XB	X			XC	X	NONE
220 DELTA			AX		X					X		XC	X	NONE
240 DELTA			AX			X					X	XC	X	NONE
360 WYE				A	X			B	X			C	X	YES
381 WYE				A		X		B		X		C	X	YES
416 WYE				A			X	B			X	C	X	YES

X	JUMPER	X
A	3 PHASE INPUT	
B		
C		
N	NEUTRAL	

(3 LINE DELTA)
(4 LINE WYE)

- NOTES:
- ALL CAPACITORS ARE IN μF UNLESS OTHERWISE SPECIFIED.
 - TWISTED PAIR GATE SIGNAL LEADS ARE FROM CONTROL PC BD. ASS'Y 9 2264 01 100.
 - SMALL DASHED-IN COMPONENTS, EXTERNAL TO PC BD. ASS'Y.
 - PB'S ARE 2 SCR POWER PACKS LOCATED ON FORCED AIR COOLED HEATSINK.
 - SELF LEAD FOR CUSTOMER CONNECTION.
 - L2 CONNECTED FOR 60Hz OPERATION (SHOWN) TERMINALS #3 ARE 14.7mH FOR 50Hz OPERATION AS CUSTOMER OPTION.



SHEET 1 OF 1 D256-010

CONFIDENTIAL INFORMATION
 OF BASLER ELECTRIC COMPANY, HIGHLAND, IL.
 IT IS LOANED FOR CONFIDENTIAL USE. SUBJECT
 TO RETURN ON REQUEST, AND WITH THE MUTUAL
 UNDERSTANDING THAT IT WILL NOT BE USED IN
 ANY MANNER DETRIMENTAL TO THE INTERESTS OF
 BASLER ELECTRIC COMPANY.

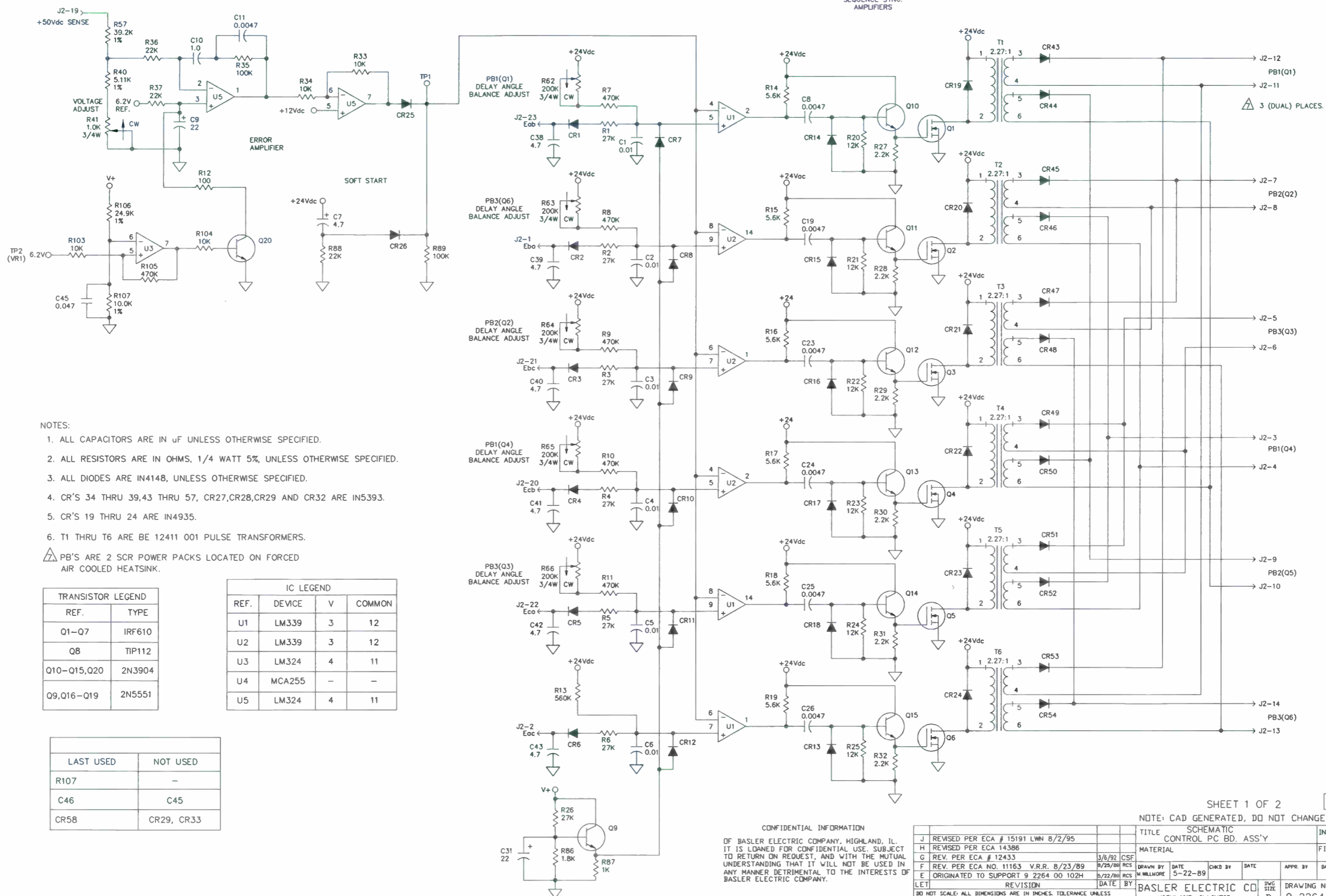
E	REVISED PER ECA # 15297 CSV 10/2/95												
D	REVISED PER ECA # 15191 LWN 8/2/95	8/25/95	CSV										
C	REVISED PER ECA # 15017 CV 3/29/95	4/28/95	LWN										
B	REVISED PER ECA NO. 14759	12/8/94	JOM										
A	CREATED FROM 9 2264 00 910 A												

LET	REVISION	DATE	BY	APP. BY	DATE	CWB BY	DATE	SCALE
				KUCZKA	9/19/94			~

DO NOT SCALE: ALL DIMENSIONS ARE IN INCHES. TOLERANCE UNLESS OTHERWISE SPECIFIED: DECIMALS: FRACTIONS: ANGLES:		BASLER ELECTRIC CO	DRAWING NO.	REV
		HIGHLAND, ILLINOIS	9 2264 00 911	E

NOTE: CAD GENERATED, DO NOT CHANGE MANUALLY.

TITLESCHMATIC, 300 A POWER SUPPLY INT.JOB NO. 9-6003



- NOTES:
1. ALL CAPACITORS ARE IN μ F UNLESS OTHERWISE SPECIFIED.
 2. ALL RESISTORS ARE IN OHMS, 1/4 WATT 5%, UNLESS OTHERWISE SPECIFIED.
 3. ALL DIODES ARE IN4148, UNLESS OTHERWISE SPECIFIED.
 4. CR'S 34 THRU 39, 43 THRU 57, CR27, CR28, CR29 AND CR32 ARE IN5393.
 5. CR'S 19 THRU 24 ARE IN4935.
 6. T1 THRU T6 ARE BE 12411 001 PULSE TRANSFORMERS.
- △ PB'S ARE 2 SCR POWER PACKS LOCATED ON FORCED AIR COOLED HEATSINK.

TRANSISTOR LEGEND	
REF.	TYPE
Q1-Q7	IRF610
Q8	TIP112
Q10-Q15, Q20	2N3904
Q9, Q16-Q19	2N5551

IC LEGEND			
REF.	DEVICE	V	COMMON
U1	LM339	3	12
U2	LM339	3	12
U3	LM324	4	11
U4	MCA255	-	-
U5	LM324	4	11

LAST USED	NOT USED
R107	-
C46	C45
CR58	CR29, CR33

NOTE: CAD GENERATED, DO NOT CHANGE MANUALLY.

CONFIDENTIAL INFORMATION
 OF BASLER ELECTRIC COMPANY, HIGHLAND, IL.
 IT IS LOANED FOR CONFIDENTIAL USE. SUBJECT
 TO RETURN ON REQUEST, AND WITH THE MUTUAL
 UNDERSTANDING THAT IT WILL NOT BE USED IN
 ANY MANNER DETRIMENTAL TO THE INTERESTS OF
 BASLER ELECTRIC COMPANY.

REVISION		DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY
J	REVISED PER ECA # 15191 LWN	8/2/95									
H	REVISED PER ECA 14386										
G	REV. PER ECA # 12433			3/6/92	CSF						
F	REV. PER ECA NO. 11163 V.R.R.	8/23/89		8/25/89	RES						
E	ORIGINATED TO SUPPORT 9 2264 00 102H			5/22/88	RES						

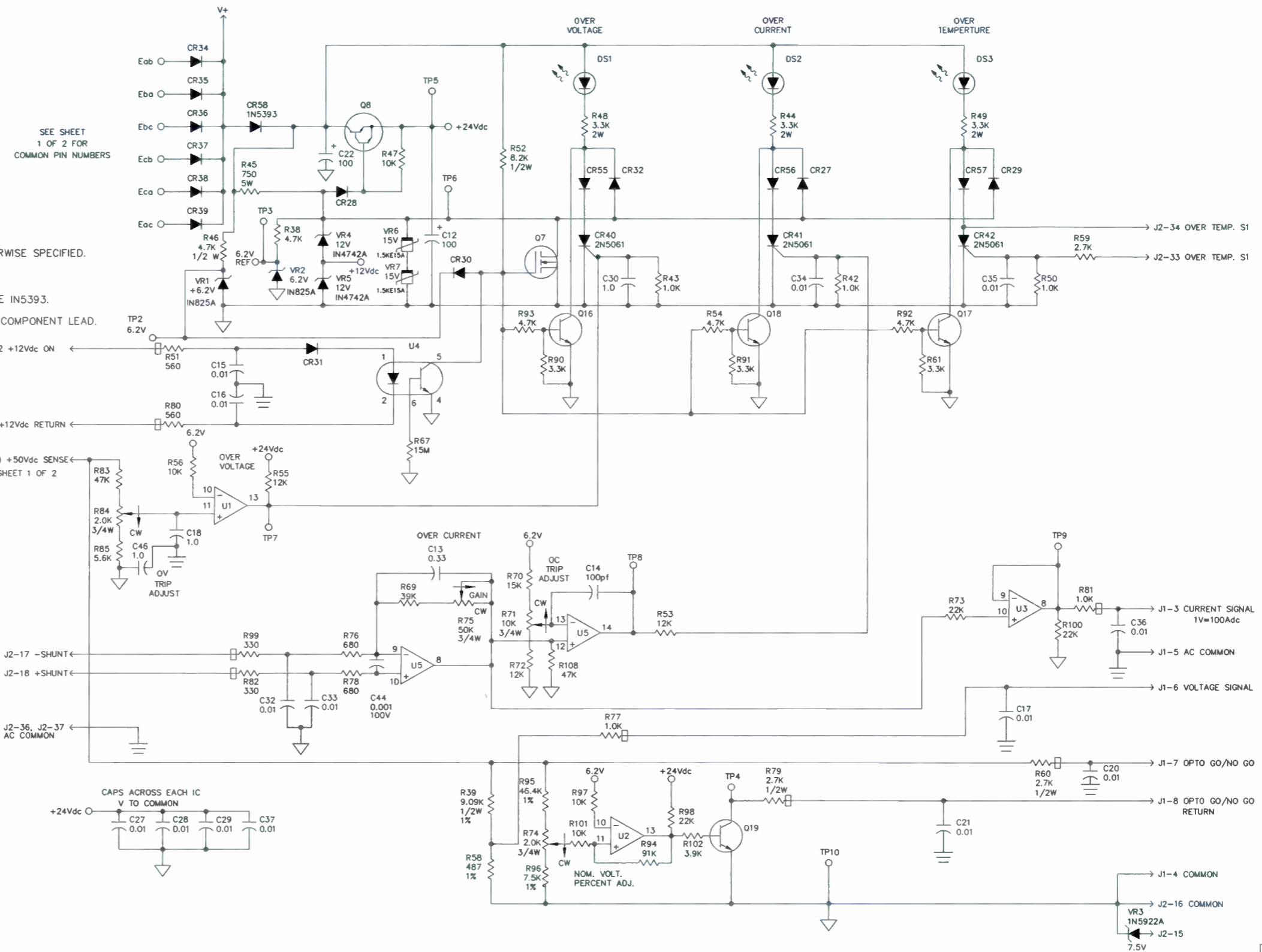
LET REVISION DATE BY

DO NOT SCALE. ALL DIMENSIONS ARE IN INCHES, TOLERANCE UNLESS OTHERWISE SPECIFIED: DECIMALS: FRACTIONS: ANGLES:

BASLER ELECTRIC CO. HIGHLAND, ILLINOIS

DWG NO. 9 2264 01 911

TITLE	INT. JOB NO.	FINISH	SCALE
SCHEMATIC CONTROL PC BD. ASS'Y	12-1733		



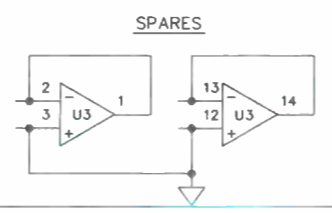
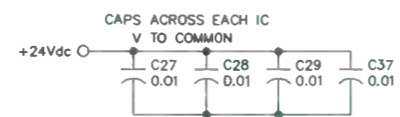
NOTES:

1. ALL CAPACITORS ARE IN μ F UNLESS OTHERWISE SPECIFIED.
2. ALL RESISTORS ARE IN OHMS, 1/4 WATT 5%, UNLESS OTHERWISE SPECIFIED.
3. ALL DIODES ARE IN4148, UNLESS OTHERWISE SPECIFIED.
4. CR'S 34 THRU 39, 43 THRU 58, CR27, CR28, CR29 AND 32 ARE IN5393.
5. --- THIS IS A SYMBOL FOR FERRITE BEAD MOUNTED ON A COMPONENT LEAD.

SEE SHEET 1 OF 2 FOR COMMON PIN NUMBERS

TRANSISTOR LEGEND	
REF.	TYPE
Q1-Q7	IRF610
Q8	TIP112
Q10-Q15, Q20	2N3904
Q9, Q16-Q19	2N5551

IC LEGEND			
REF.	DEVICE	24Vdc	COMMON
U1	LM339	3	12
U2	LM339	3	12
U3	LM324	4	11
U4	MCA255	-	-
U5	LM324	4	11



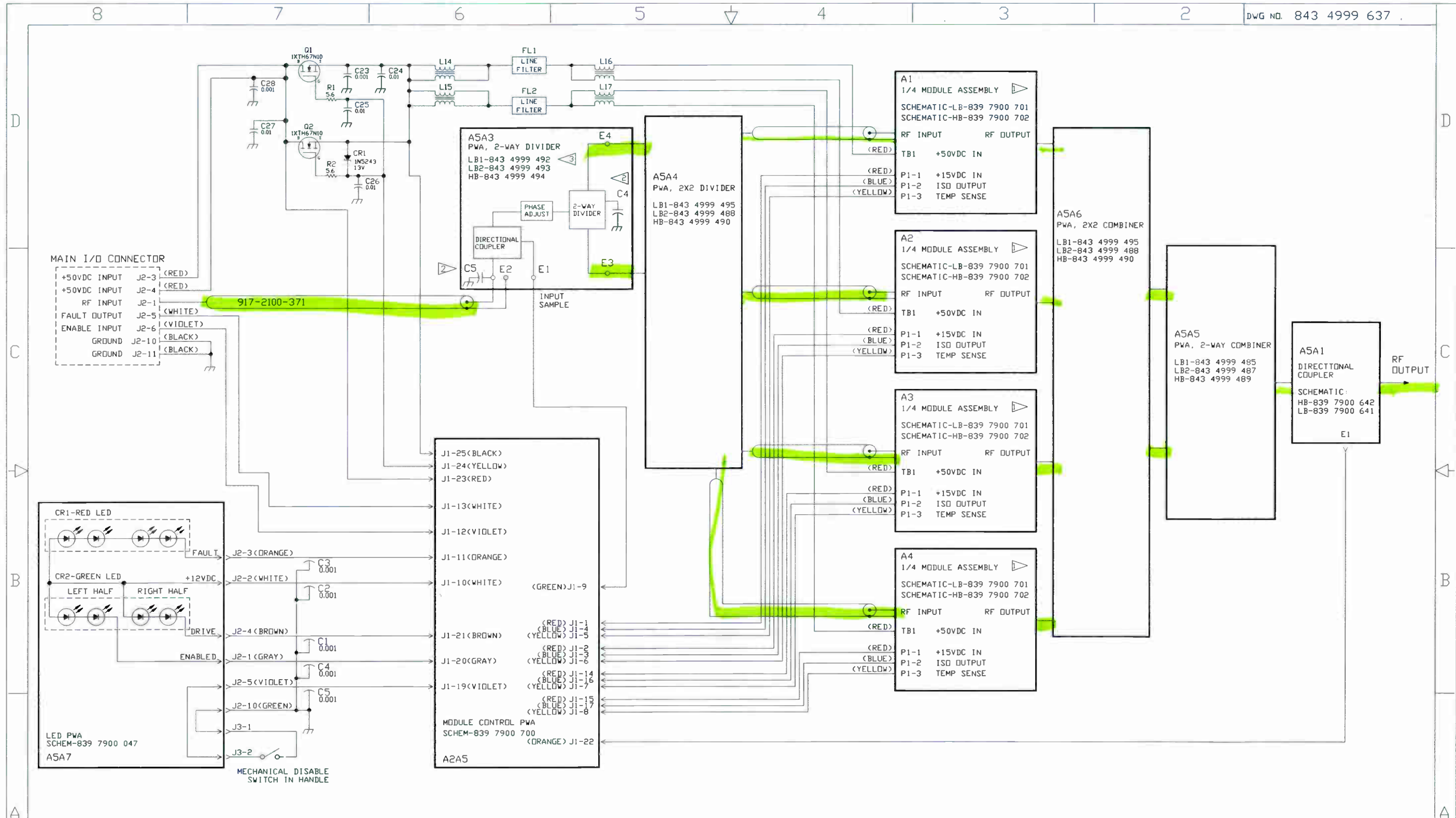
CONFIDENTIAL INFORMATION
OF BASLER ELECTRIC COMPANY, HIGHLAND, ILL. IT IS LOANED FOR CONFIDENTIAL USE. SUBJECT TO RETURN ON REQUEST, AND WITH THE MUTUAL UNDERSTANDING THAT IT WILL NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTERESTS OF BASLER ELECTRIC COMPANY.

REVISION		DATE	BY	SCALE
LET	SEE SHEET 1			
DO NOT SCALE. ALL DIMENSIONS ARE IN INCHES. TOLERANCE UNLESS OTHERWISE SPECIFIED: DECIMALS: FRACTIONS: ANGLES:				

TITLE	SHEMATIC CONTROL PC BD. ASS'Y	INT. JOB NO.	12-1733
MATERIAL		FINISH	
DRAWN BY	DATE	CHKD BY	DATE
APPR. BY	DATE	SCALE	
DRAWING NO.	9 2264 01 911	REV	J

SHEET 2 OF 2
NOTE: CAD GENERATED, DO NOT CHANGE MANUALLY.

D266-064



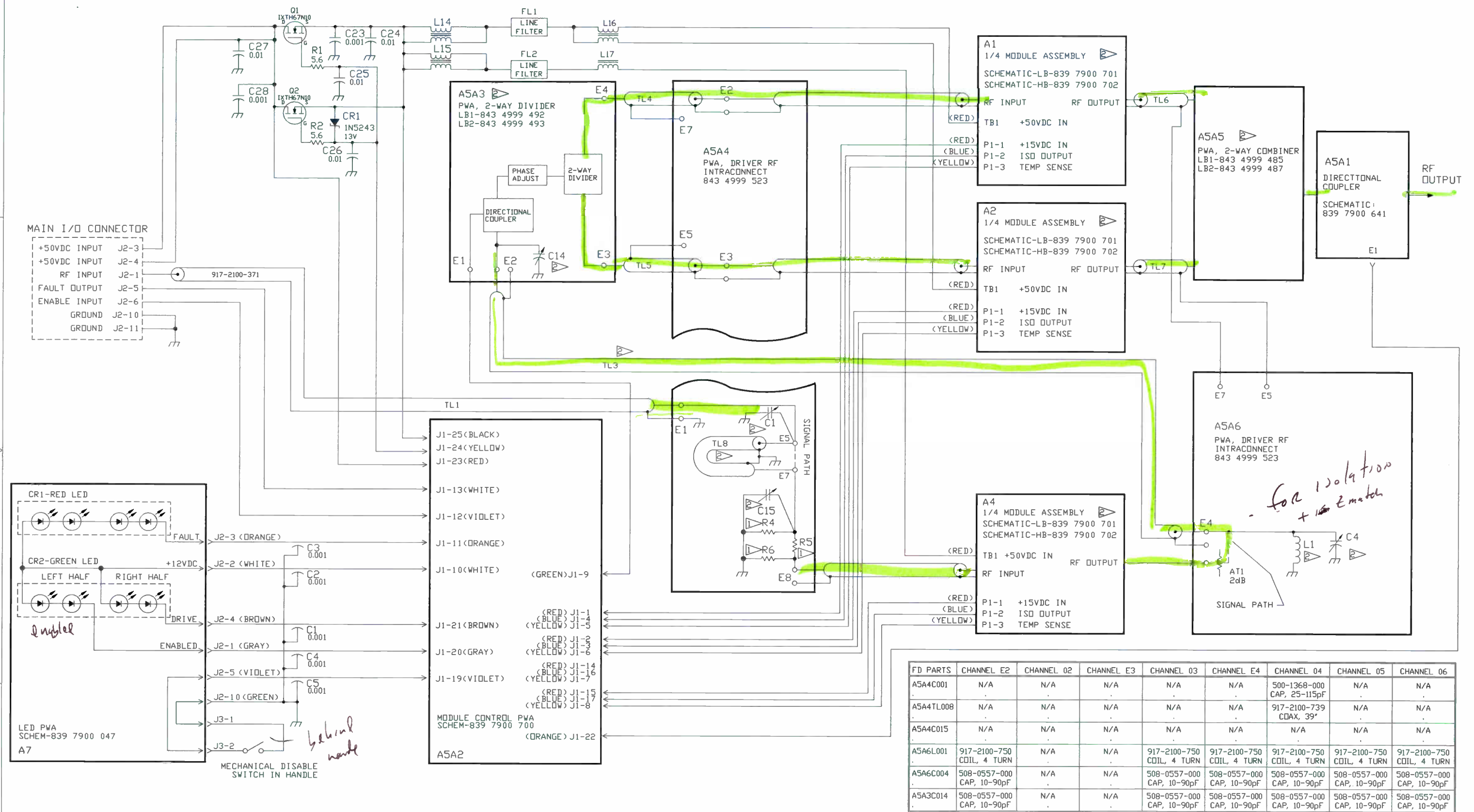
- NOTES
- ▷ COMPONENT VALUE SELECTED IN TEST
 - ▷ FREQUENCY DETERMINED PART.
 - ▷ C4 AND C5 USED ONLY WITH E2 ON LB1-843 4999 492 BOARD

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD	NBR
A			2-4-94	JLS	JLS	VMI-026	
DELETE L1-L13, CHG WIRE COLORS, ETC.							

HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRAWN BY	J SECCIA	TITLE	SCHEM, PLATINUM TV PA MODULE WITH PASSIVE BIAS
DATE	11-30-93	DWG NO.	843 4999 637
ENG CHK	D NICKELL	REV	A
PROJ ENG	J SECCIA		
MFG ENG	R SANDIDGE		
D	SHEET 1 OF 1		



for isolation + 100 dB match

FD PARTS	CHANNEL E2	CHANNEL 02	CHANNEL E3	CHANNEL 03	CHANNEL E4	CHANNEL 04	CHANNEL 05	CHANNEL 06
A5A4C001	N/A	N/A	N/A	N/A	N/A	500-1368-000 CAP, 25-115pF	N/A	N/A
A5A4TL008	N/A	N/A	N/A	N/A	N/A	917-2100-739 CDAX, 39"	N/A	N/A
A5A4C015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A5A6L001	917-2100-750 COIL, 4 TURN	N/A	N/A	917-2100-750 COIL, 4 TURN	917-2100-750 COIL, 4 TURN	917-2100-750 COIL, 4 TURN	917-2100-750 COIL, 4 TURN	917-2100-750 COIL, 4 TURN
A5A6C004	508-0557-000 CAP, 10-90pF	N/A	N/A	508-0557-000 CAP, 10-90pF	508-0557-000 CAP, 10-90pF	508-0557-000 CAP, 10-90pF	508-0557-000 CAP, 10-90pF	508-0557-000 CAP, 10-90pF
A5A3C014	508-0557-000 CAP, 10-90pF	N/A	N/A	508-0557-000 CAP, 10-90pF	508-0557-000 CAP, 10-90pF	508-0557-000 CAP, 10-90pF	508-0557-000 CAP, 10-90pF	508-0557-000 CAP, 10-90pF

COMPONENT VALUE SELECTED IN TEST
 FREQ DETERMINED PARTS
 QUARTER MODULE ASSEMBLY, < A3 > NOT USED

REV	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
B			6-24-94	JLS	JLS	VMI-045
C			04-07-1995	SEC	SEC	39667

UPDATE, CORRECT NOTE FLAGS
 ADDED FD CHART

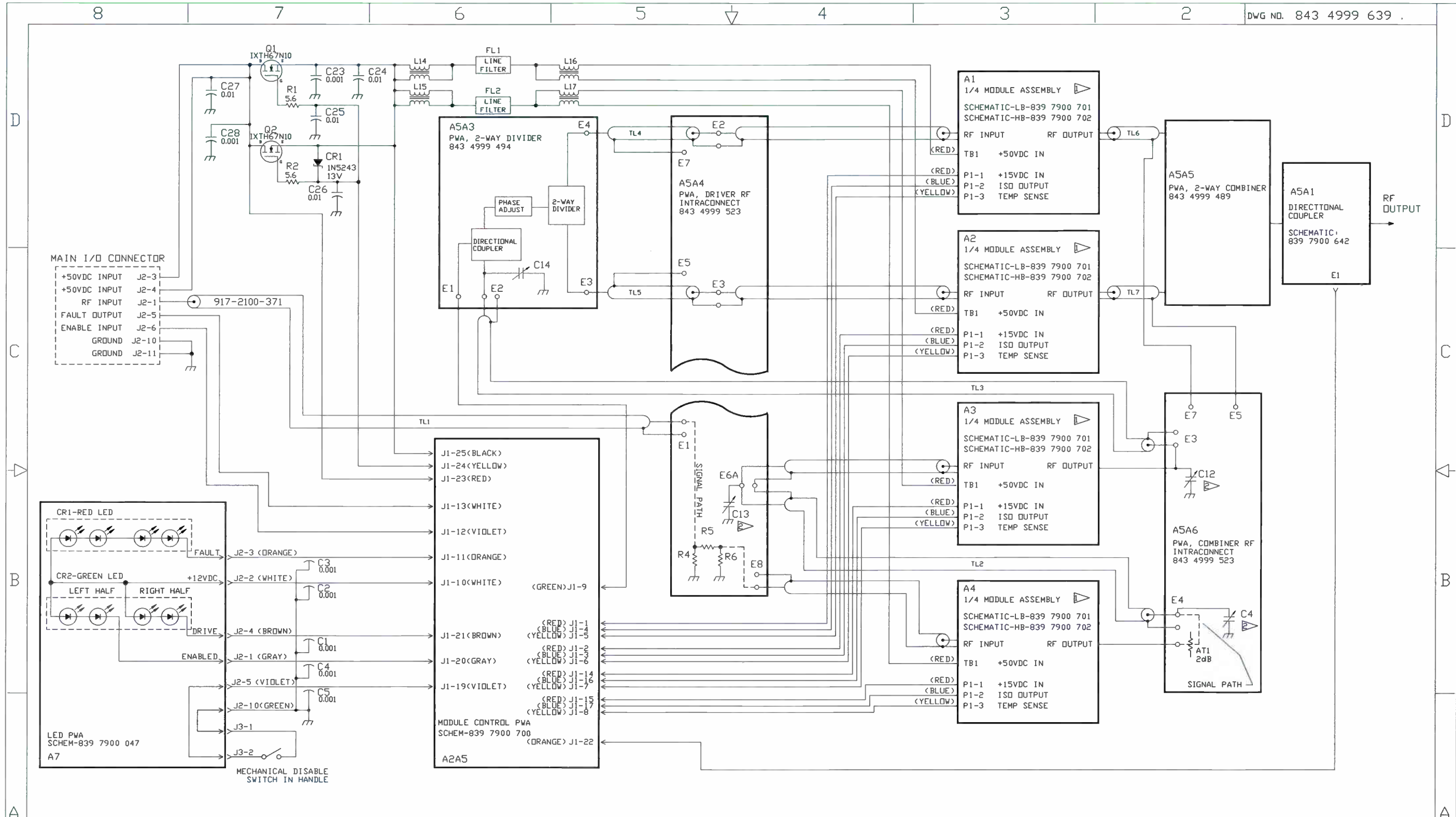


HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY J SECCIA
 DATE 12-4-93
 ENG CHK D NICKELL
 PROJ ENG J SECCIA
 MFG ENG R SANDIDGE

TITLE SCHEM, LB DRIVER MODULE W/BIAS

DWG NO. 843 4999 638
 REV C

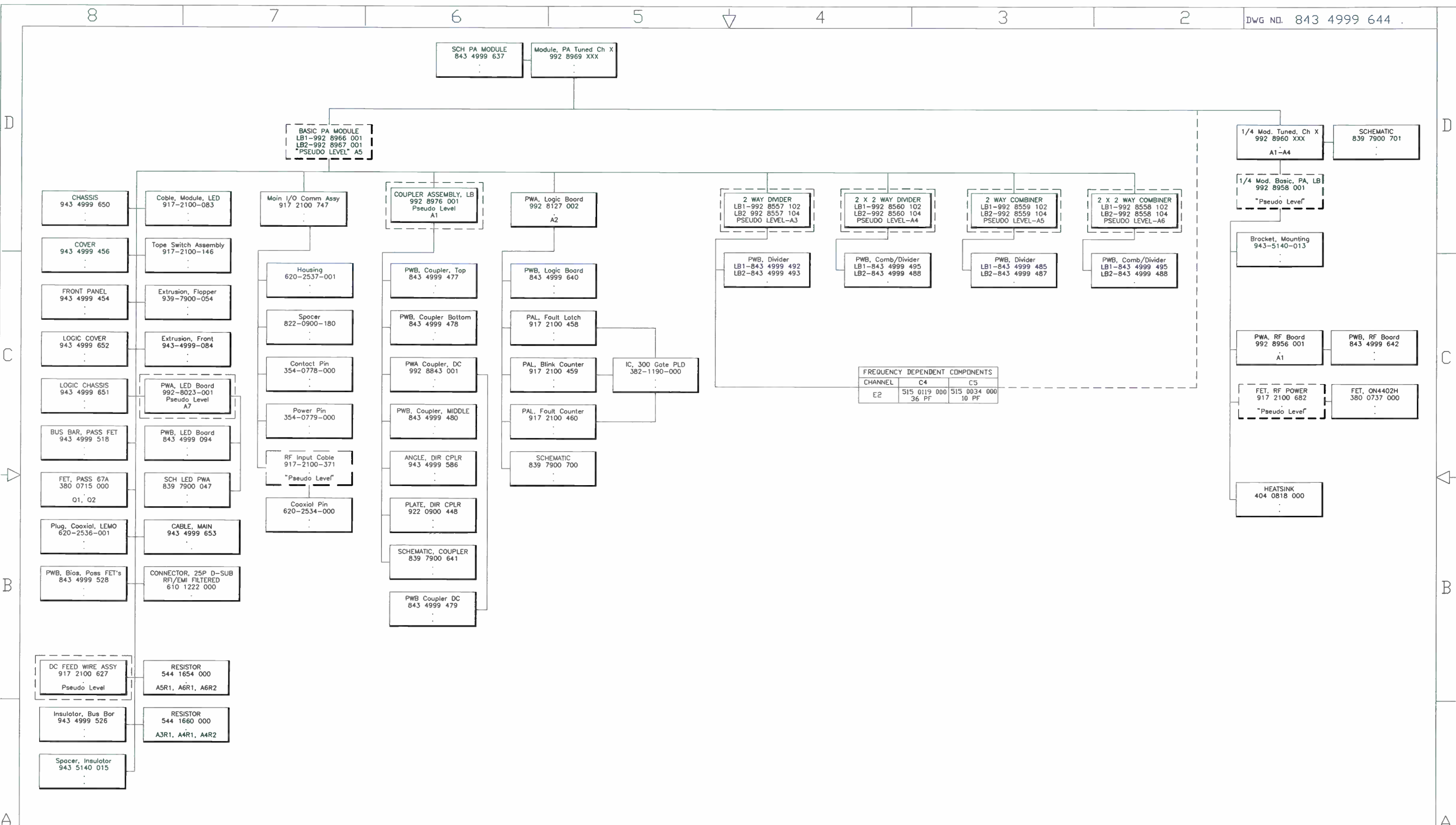


NOTES
 ▷ COMPONENT VALUE SELECTED IN TEST
 ▷ FREQUENCY DETERMINED PARTS

REV	DESCRIPTION
A	DELETE L1-L13, CHG WIRE COLORS, ETC.

HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	J SECCIA	TITLE	SCHEM, PLATINUM TV HIGH BAND DRIVER MODULE WITH PASSIVE BIAS
DATE	12-03-93	DWG NO.	843 4999 639 .
ENG CHK	D NICKELL	SHEET 1	OF 1
PRJ ENG	J SECCIA	REV	A
MFG ENG	R SANDIDGE		



FREQUENCY DEPENDENT COMPONENTS		
CHANNEL	C4	C5
E2	515 0119 000 36 PF	515 0034 000 10 PF

NOTES

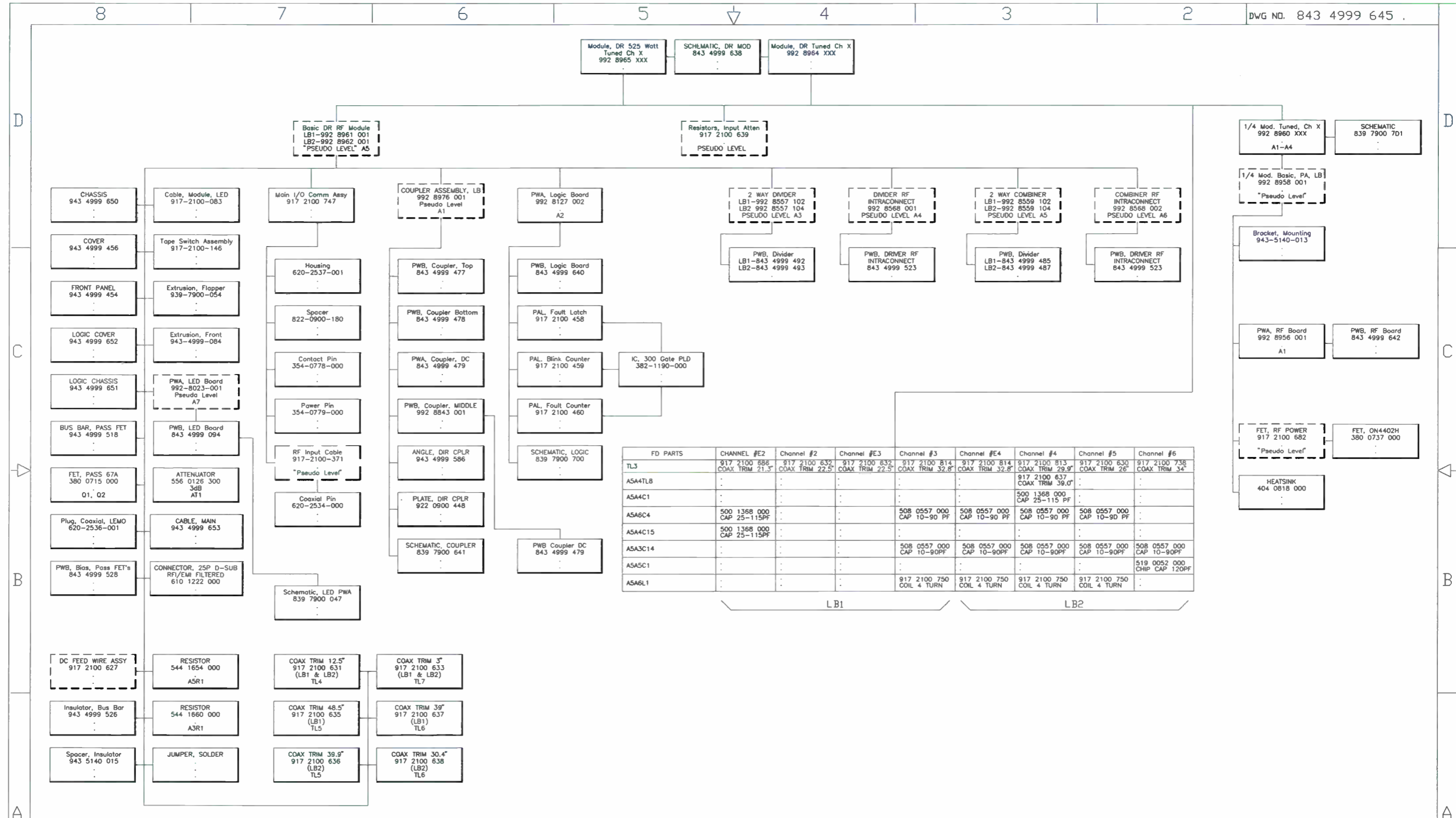
LTR	ZONE	DATE	DFTM	ENG	ECD NBR
A	.	6-1-94	JLS	JLS	VMI-042
DELETE 1/4 MOD FD CHART					
B	.	10-23-1995	SEC	SEC	40198
ADDED PLATINUM 3 TO TITLE BLOCK					



HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	J SECCIA
DATE	1-31-94
ENG CHK	D NICKELL
PRD J	J SECCIA
ENG	R SANDIDGE
MFG ENG	
D	SHEET 1 OF 1

TITLE	PLATINUM 3
FAMILY TREE, LB PA MODULE	
WITH PASSIVE BIAS	
LB1: E2, 2, E3, 3; LB2: E4, 4, 5, 6	
DWG NO.	843 4999 644
REV	B



FD PARTS	CHANNEL #E2	Channel #2	Channel #E3	Channel #3	Channel #E4	Channel #4	Channel #5	Channel #6
TL3	917 2100 886 COAX TRIM 21.5"	917 2100 632 COAX TRIM 22.5"	917 2100 632 COAX TRIM 22.5"	917 2100 814 COAX TRIM 32.8"	917 2100 814 COAX TRIM 32.8"	917 2100 813 COAX TRIM 29.9"	917 2100 630 COAX TRIM 26"	917 2100 738 COAX TRIM 34"
ASA4TLB	.	.	.	.	.	.	.	.
ASA4C1	.	.	.	.	.	500 1368 000 CAP 25-115 PF	.	.
ASA6C4	500 1368 000 CAP 25-115PF	.	.	508 0557 000 CAP 10-90 PF	508 0557 000 CAP 10-90 PF	508 0557 000 CAP 10-90 PF	508 0557 000 CAP 10-90 PF	.
ASA4C15	500 1368 000 CAP 25-115PF	.	.	.	.	.	.	.
ASA3C14	.	.	.	508 0557 000 CAP 10-90PF	508 0557 000 CAP 10-90PF	508 0557 000 CAP 10-90PF	508 0557 000 CAP 10-90PF	508 0557 000 CAP 10-90PF
ASA5C1	.	.	.	.	.	.	.	519 0052 000 CHIP CAP 120PF
ASA6L1	.	.	.	917 2100 750 COIL 4 TURN	917 2100 750 COIL 4 TURN	917 2100 750 COIL 4 TURN	917 2100 750 COIL 4 TURN	.

NOTES

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
A	.	.	6-1-94	JLS	JLS	VMI-042
DELETE 1/4 MOD FD CHART						
B	.	.	6-27-94	JLS	JLS	VMI-045
UPDATE FD CHART, MATCHES ECN 39328						

HARRIS

HARRIS CORPORATION
BROADCAST DIVISION
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY: J SECCIA	TITLE: FAMILY TREE, LB DRIVER MODULE WITH PASSIVE BIAS
DATE: 1-28-94	LB1: E2, 2, E3, 3; LB2: E4, 4, 5, 6
ENG CHK: D NICKELL	DWG NO. 843 4999 645
PRD J ENG: J SECCIA	REV B
MFG ENG: R SANDIDGE	SHEET 1 OF 1

8

7

6

5

4

3

2

1

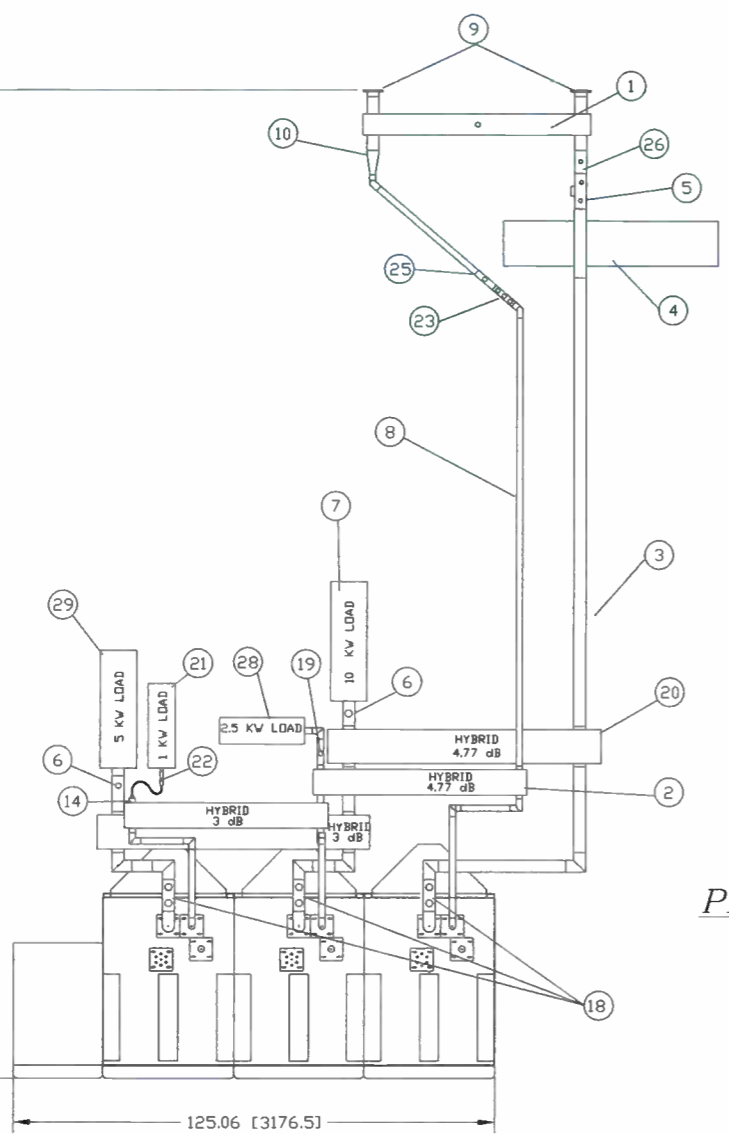
DWG. NO. 843 4999 756

ZONE	LTR	DATE	REVISION	OFTM	ENG	ECN
.	D	1-9 1999	ADD * TO AURAL HARMONIC FILTER	JPK	JPK	42004
.	B	2/22 96	.	KWB	RLM	HLSP018
.	C	4/1 96	.	KWB	RLM	HLSP039

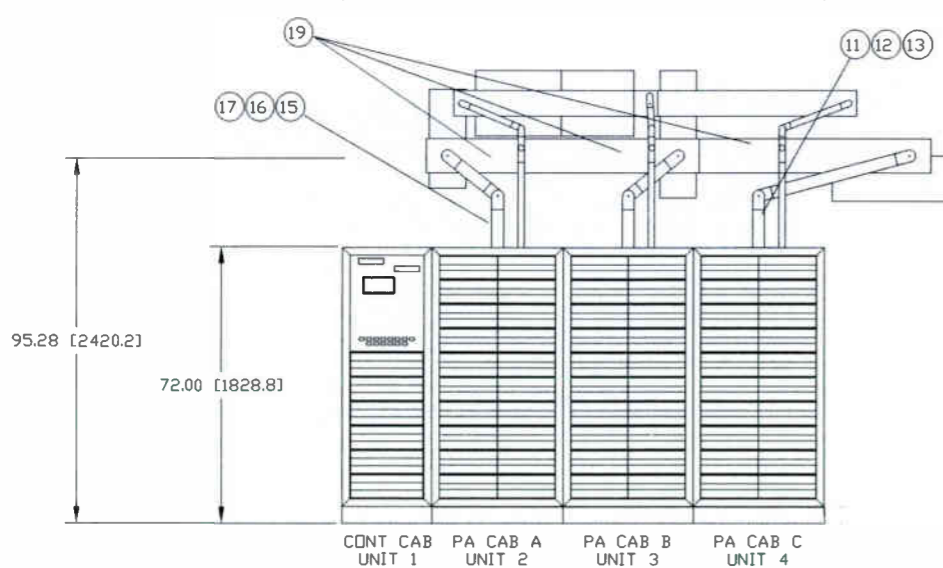
NOTES

- 5 LINE LENGTHS BETWEEN AURAL "PA" OUTPUTS AND HYBRID COMBINER INPUTS MUST BE EQUAL. PA CABINET "C" IS 8.75 INCHES LONGER INTENTIONALLY.
- 4 LINE LENGTHS BETWEEN VISUAL "PA" OUTPUTS AND HYBRID COMBINER INPUTS MUST BE EQUAL. PA CABINET "C" IS 22.50 INCHES LONGER INTENTIONALLY.
- 3 THIS IS A TYPICAL LAYOUT BASED ON HARRIS SELECTED AND ASSUMED VENDORS. THESE ITEMS ARE CHANNELIZED FOR OPERATING FREQUENCY. PHYSICAL OUTLINE / FLANGE LOCATION MAY VARY SLIGHTLY ACCORDING TO CHANNEL. THE LIST OF COMPONENTS IDENTIFIED AT RIGHT SIDE OF DWG WILL ACCOMMODATE ANY CHANNEL DEPENDENT CHANGE IN DIMENSIONS
- 2 LINE LENGTHS ARE TO BE MEASURED AND CUT ON SITE AS REQ'D. RF LINE SUPPLIED IN 10 FOOT OR 20 FOOT SECTIONS
- 1 DIMENSIONS IN [] ARE IN MILLIMETERS.

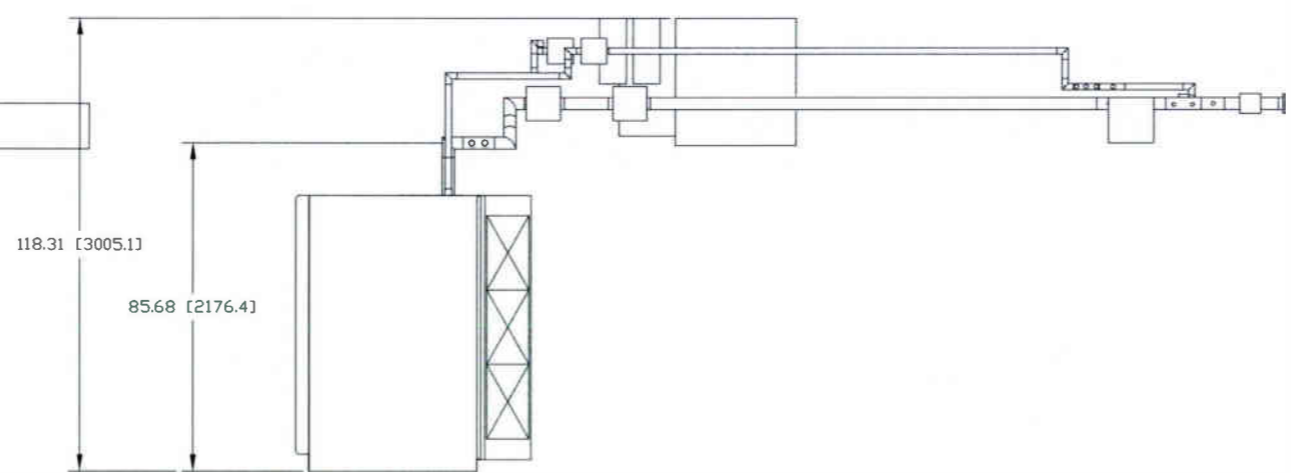
258.44 [6564.3]



PLAN VIEW



FRONT VIEW



SIDE VIEW

* ASTERISKED ITEMS ARE NOT SUPPLIED WITH TRANSMITTER.

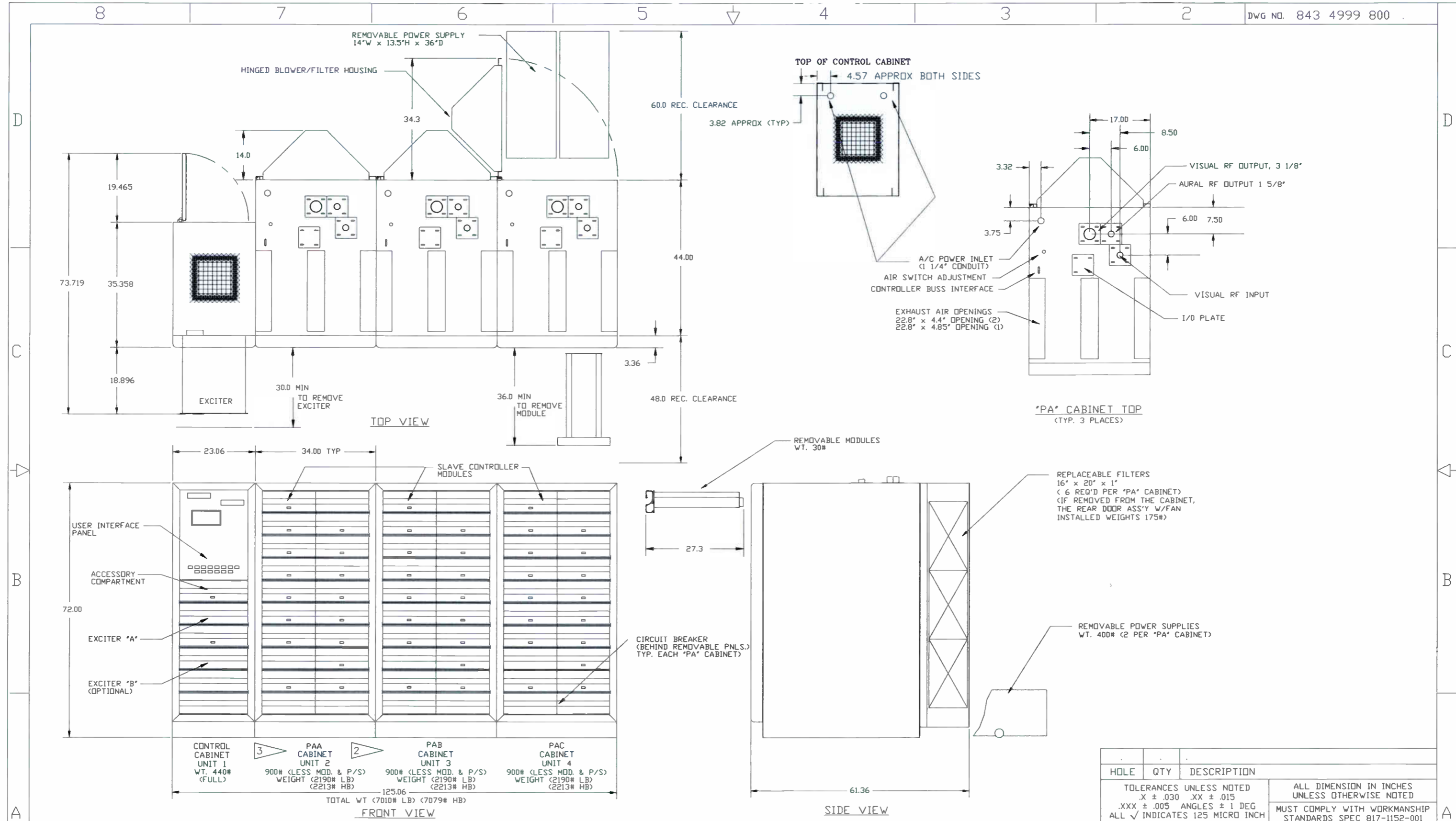
QTY.	ITEM	DESCRIPTION
1	29	RF LOAD 5 KW
1	28	RF LOAD 2.5KW
1	26	VISUAL WATTMETER
1	25	AURAL WATTMETER
.	24	.
1	23	DIRECTIONAL COUPLER 1 5/8", 3 PORT
1	22	DIRECTIONAL COUPLER 7/8" 1 PORT
1	21	RF LOAD 1KW
1	20	VIS HYBRID COMBINER
4	19	DIRECTIONAL COUPLER 1 5/8", 1 PORT
3	18	DIRECTIONAL COUPLER 3 1/8", 2 PORT
* 13	17	ELBOW, 90° 1 5/8"
* 41	16	COUPLING ASS'Y, 1 5/8"
* SEE NOTE 2	15	LINE ASS'Y, 1 5/8"
1	14	RREDUCER 1-5/8 TO N ADAPTOR
* 9	13	ELBOW, 90° 3 1/8"
* 28	12	COUPLING ASS'Y, 3 1/8"
* SEE NOTE 2	11	LINE ASS'Y, 3 1/8"
* 1	10	REDUCER, 3 1/8" TO 1 5/8"
* 2	9	ADAPTER 3 1/8 FLG TO 3 1/8 UNFLG
* 1	8	HARMONIC FILTER, AURAL
1	7	RF LOAD, 10KW
2	6	DIRECTIONAL COUPLER 3 1/8", 1 PORT
1	5	DIRECTIONAL COUPLER 3 1/8", 3 PORT
SEE NOTE 3	4	COLOR NOTCH FILTER
1	3	HARMONIC FILTER, VISUAL
SEE NOTE 3	2	AURAL HYBRID COMBINER
SEE NOTE 3	1	HYBRID DIPLEXER

UNLESS NOTED: DIMENSIONS ARE IN INCHES
TOLERANCES:
.X ± .030
.XX ± .015
.XXX ± .005
ANGLES ± 1 DEG.

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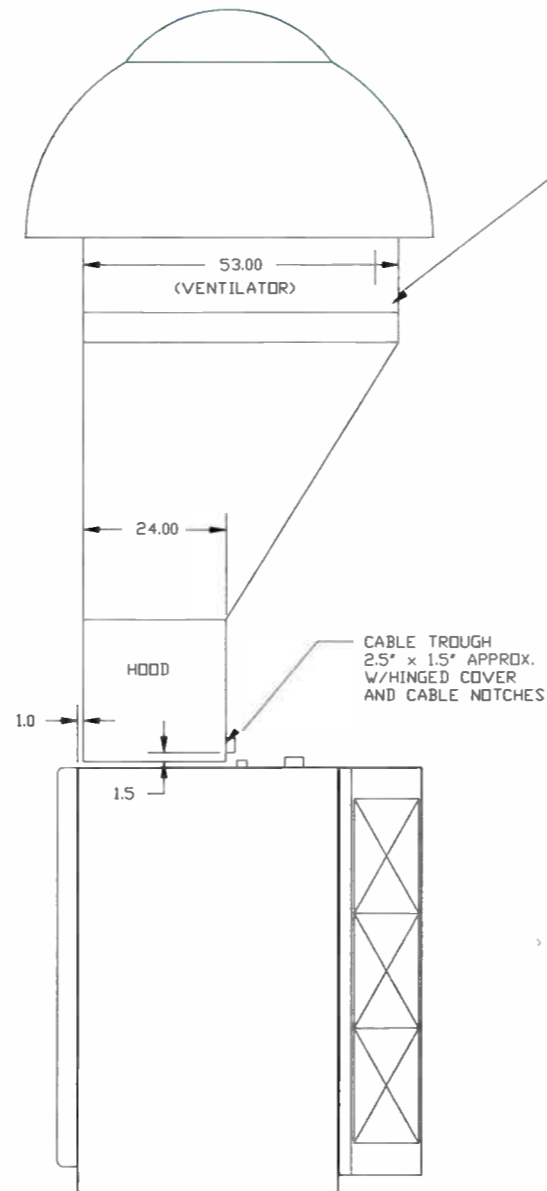
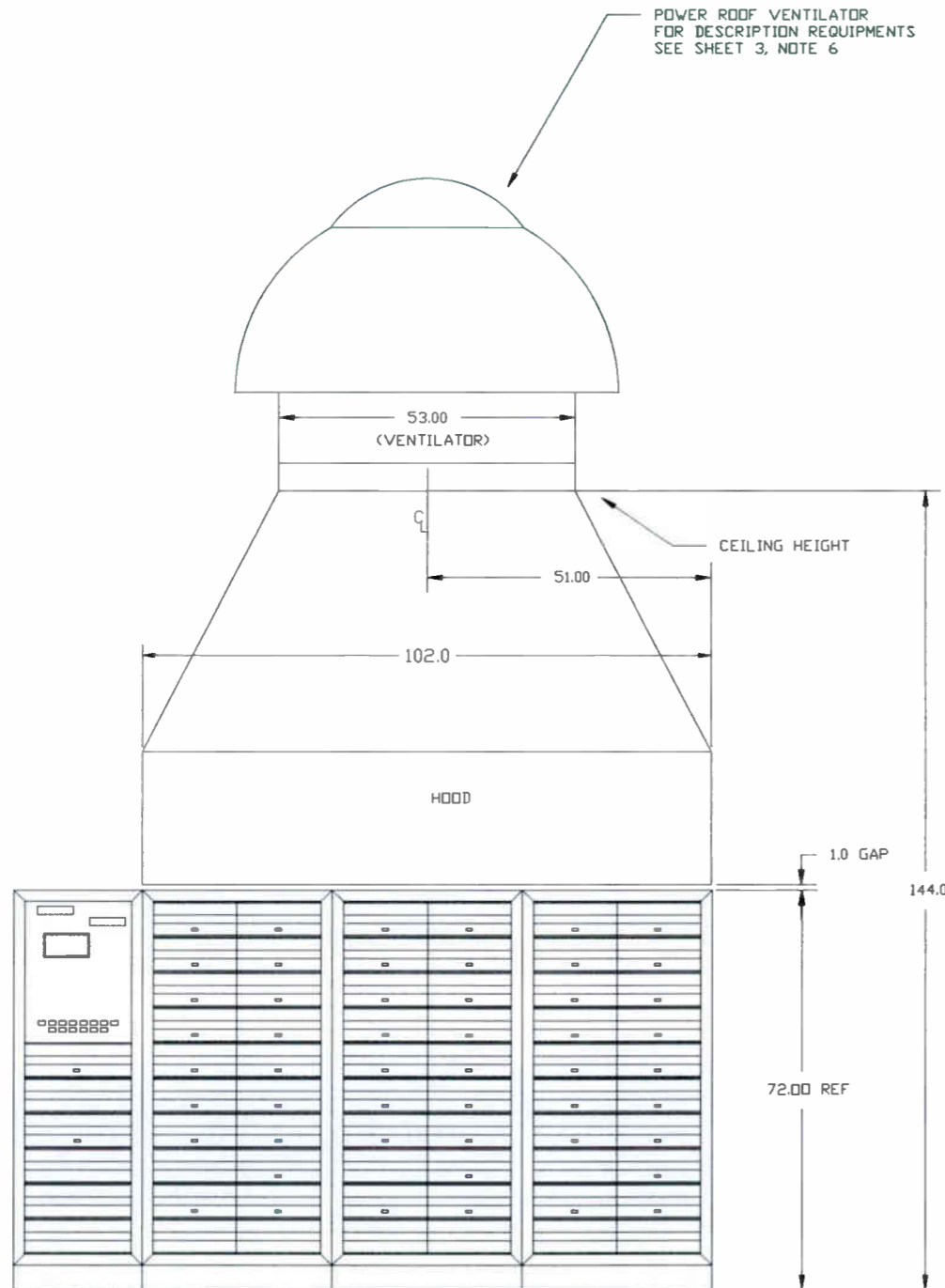
DR. BY	DVS 23 MAR 94	TITLE	LAYOUT, RF PLUMBING
ENG. CHK.	SPARANO		HT 33LSP
PROJ. ENG.	BEST		WITH HYBRID DIPLEXER
MFG. ENG.	MYERS		
MAT'L.		SHEET	DWG. NO. 843 4999 756
		1 OF 1	





HOLE	QTY	DESCRIPTION
TOLERANCES UNLESS NOTED		ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED
.X ± .030 .XX ± .015		MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001
.XXX ± .005 ANGLES ± 1 DEG		
ALL √ INDICATES 125 MICRO INCH		
DRAWN BY L WISEMAN		TITLE
DATE AUG 30, 95		OUTLINE, HT 33LSP/30HSP
ENG CHK C NEAL		SOLID STATE
PROJ ENG C NEAL		PARALLEL PATH TRANSMITTER
MFG ENG D MYERS		DWG NO. 843 4999 800
D SHEET 1 OF 3		REV B

NOTES	LTR	ZONE	DATE	DFTM	ENG	ECD NBR	 HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305	THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.
	A					NEWDWG		
	B		26FEB96	KWB	RLM	HLSP-025		
	REVISE Z							



	AIR VOLUME FT ³ /MIN@72°F	AVERAGE STACK RISE OVER AMBIENT ° C AT BLACK PICTURE	HEAT LOAD WATTS(BTU)	NOMINAL PRESSURE INCHES OF WATER	NOMINAL NOISE LEVEL DBA 60HZ	NOMINAL BLOWER CURRENT @ 230 VAC
CAB 1 EXITER CTRL INTAKE	500(14.2)					
CAB 2 VISUAL/AURAL PA INTAKE	3500(99.1)					
CAB 3 VISUAL/AURAL PA INTAKE	3500(99.1)					
CAB 4 VISUAL/AURAL PA INTAKE	3500(99.1)				2	
CAB 1 EXITER CTRL EXHAUST	500(14.2)	5	1000(3413)	.2	56 FRONT 56 SIDE 65 REAR	.4 AMP
CAB 2 VIS/AUR PA CABINET EXHAUST	3300(93.4)	8	15,000(51,195)	.4	65 FRONT 65 SIDE 71 REAR	3.0 AMP/PHASE
CAB 3 VIS/AUR PA CABINET EXHAUST	3300(93.4)	8	15,000(51,195)	.4	65 FRONT 65 SIDE 71 REAR	3.0 AMP/PHASE
CAB 4 VIS/AUR PA CABINET EXHAUST	3300(93.4)	8	15,000(51,195)	.4	65 FRONT 65 SIDE 71 REAR	3.0 AMP/PHASE
TRANSMITTER RADIATION			715(2440)			
TRANSMITTER CONVECTION			135(461)			
FRONT MODULE LEAKS (PA'S)	600(170)	10	3,409(11,635)			
TRANSMITTER TOTALS	11,000 (3113)		50,259 (171,534)			

4 71 FRONT
71 SIDE
76 REAR

EXHAUST AIR SYSTEM

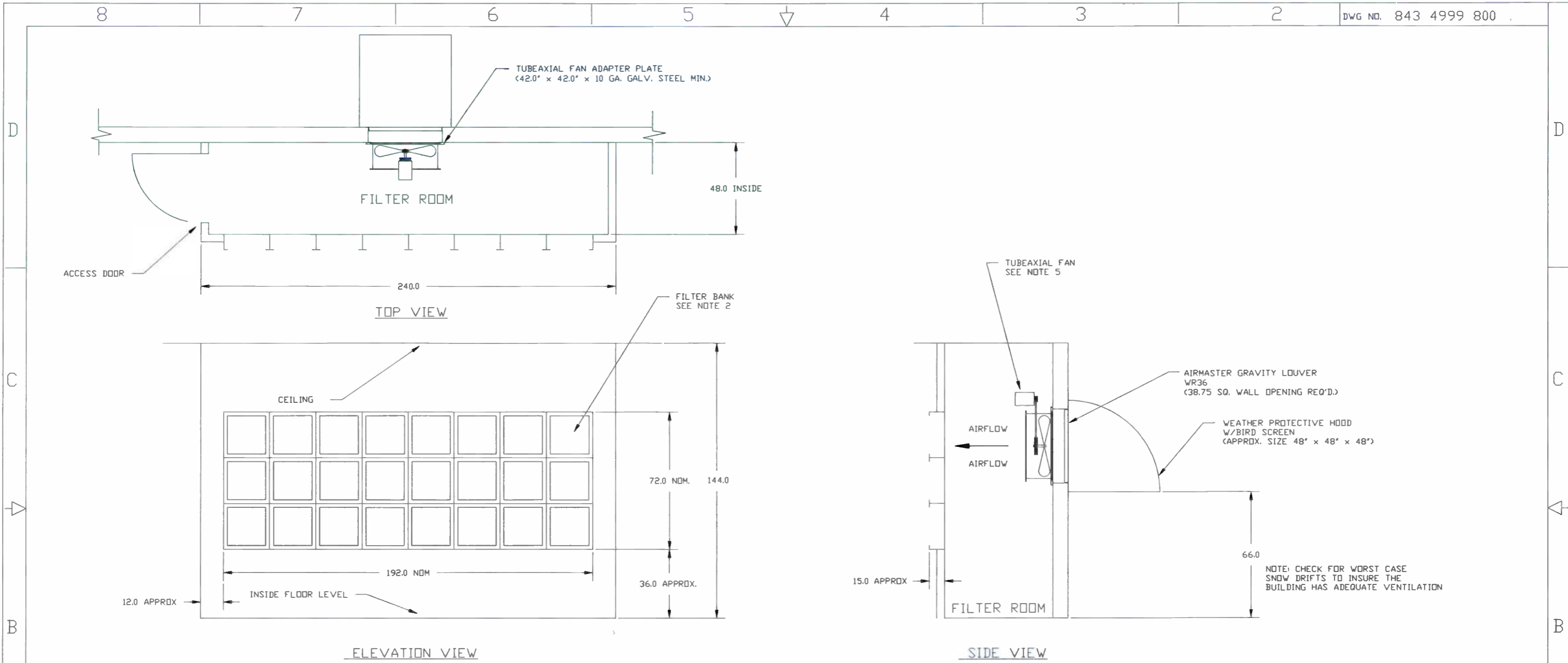
- 4 READING IS FOR COMBINED 30/33KW CABINETS WITH ALL FANS RUNNING.
- 3 DATA SHOWN IS TYPICAL FOR A 60 HZ TRANSMITTER @ 230 VAC INPUT POWER AND AT STANDARD CONDITIONS (20° C AND SEA LEVEL).
- 2 NOISE MEASUREMENTS MADE ON A WEIGHTED SCALE 3 FEET FROM FLOOR AND 3 FEET FROM SURFACE OF TRANSMITTER BEING MEASURED, READINGS ARE FOR INDIVIDUAL CABINETS.
- 1 TYPICAL PRESSURE MEASURE AT THE FAN OUTPUT PLENUM PRESSURE TAP LOCATION

HOLE	QTY	DESCRIPTION
		TOLERANCES UNLESS NOTED .X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG ALL ✓ INDICATES 125 MICRO INCH
		ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001
DRAWN BY		L WISEMAN
DATE		AUG 30, 95
ENG CHK		C NEAL
PRJ ENG		C NEAL
MFG ENG		D MYERS
D		SHEET 2 OF 3
TITLE		OUTLINE, HT 33LSP/30HSP SOLID STATE PARALLEL PATH TRANSMITTER
DWG NO.		843 4999 800
REV		B

LTR	ZONE	DATE	DFTM	ENG	ECD NBR
A					NEWDWG
B		27FEB96	KWB	RLM	HLSP-025

HARRIS CORPORATION
BROADCAST DIVISION
P.O. BOX 4290
QUINCY, ILLINOIS 62305

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7. THIS TYPICAL TRANSMITTER SYSTEM HAS BEEN SIZED TO SLIGHTLY PRESSURIZE THE ROOM. IF ADDITIONAL COOLING IS REQUIRED FOR OTHER EQUIPMENT OR TO ACCOUNT FOR SOLAR BUILDING LOADS, CONSULT HARRIS OR A QUALIFIED AIR CONDITIONING / VENTILATION CONSULTANT FOR ASSISTANCE.
6. THE EXHAUST BLOWER (AIRMASTER ARDB445 HA 3/4 HP @ 215 RPM) HAS BEEN SIZED FOR 10,954 CFM AT 0" WATER. THE ACTUAL EXHAUST FLOW AFTER CONSTRUCTION OF THE EXHAUST SYSTEM SHOULD BE ADJUSTED FOR A FLOW OF 10,500 CFM AND 0 TO -.25" WATER AT THE EXHAUST STACKS OF THE TRANSMITTER.
5. THE INTAKE BLOWER (CINNINATI FAN BAF 34-6-26, 5HP @ 1417 RPM) IS SIZED FOR 12,250 CFM AT 1.25" WATER. THE ACTUAL DESIRED MAKE-UP AIR REQUIREMENT IS 12,000 CFM. AFTER THE SYSTEM IS CONSTRUCTED THE BLOWER CAN BE VARIED IN SPEED TO MEET THE ACTUAL SYSTEM REQUIREMENTS.
4. THE FILTER ROOM CAN BE EQUIPPED WITH A DWYER MODEL 1023-1 (.3"-1.0") TO MONITOR THE FILTER DROP OR THE CLEANLINESS OF THE FILTER. THIS READING CAN BE USED FOR SCHEDULING FILTER CHANGES.
3. INLET FILTER BANK AT 12,000 CFM FLOW RATE HAS A FACE VELOCITY OF APPROXIMATELY 125 FPM. THE TYPICAL PRESSURE DROP FOR CLEAN FILTERS IS APPROXIMATELY .9" WATER. THE TYPICAL PRESSURE DROP FOR A DIRTY FILTER IS APPROXIMATELY 1.3" WATER. THE FILTERS SHOULD BE CHANGED AT THIS POINT OR BEFORE.
2. AIR FILTERS - 24 - MAIN FILTERS: AMERICAN AIR FILTER COMPANY - DRI-PAK 90% EFFICIENT, FILTER P/N 260-106-915. FILTER SIZE IS 24" X 24" X 15" DEEP WITH SIX POCKETS. PRE-FILTER: AMERICAN AIR FILTER COMPANY - AMERSEAL 25-30% EFFICIENT, FILTER P/N 234-863-300. FILTER SIZE 24" X 24". FITS INTO UNIVERSAL HOLDING FRAME. FILTER FRAME (1 REQD FOR EACH FILTER); AMERICAN FILTER COMPANY UNIVERSAL FRAME, 24" X 24" X 2", P/N 321-863-002
1. THE WEATHER HOOD IS GALVANIZED STEEL WITH AUTOMATIC BACKDRAFT DAMPERS (AIRMASTER WR36), AND A BIRDSCREEN OVER THE INLET. NOTE: THE PREVAILING WIND PATTERNS SHOULD BE CONSIDERED BEFORE SELECTING WHICH WALL THE INTAKE SYSTEM IS MOUNTED ON. IF POSSIBLE, DO NOT PLACE THE INTAKE OR EXHAUST PORTS ON THE SIDE AGAINST THE PREVAILING WINDS.

NOTICE *--CHANGES TO FILTER/FAN/MOTOR CALLOUTS WILL EFFECT AIR SYSTEM AND WILL NEED TO BE RE-CALCULATED.

HOLE	QTY	DESCRIPTION
TOLERANCES UNLESS NOTED		ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED
.X ± .030 .XX ± .015		MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001
.XXX ± .005 ANGLES ± 1 DEG		
ALL ✓ INDICATES 125 MICRO INCH		
DRAWN BY L WISEMAN		TITLE
DATE AUG 30, 95		OUTLINE, HT 33LSP/30HSP
ENG CHK C NEAL		SOLID STATE
PROJ ENG C NEAL		PARALLEL PATH TRANSMITTER
MFG ENG D MYERS		DWG NO. 843 4999 800
D SHEET 3 OF 3		REV B

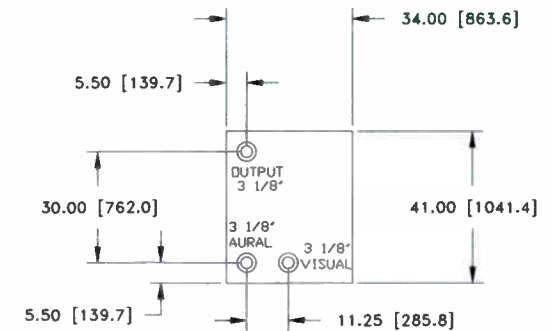
LTR	ZONE	DATE	DFTM	ENG	ECD NBR
A					NEWDWG
HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305					
B		27 FEB 96	KWB	RLM	HLSP-025
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NOTES	1

NOTES

- 5 HARMONIC FILTER MOUNTED IN ANY POSITION AS REQ'D
- 4 LINE LENGTHS BETWEEN VISUAL 'PA' OUTPUTS AND HYBRID COMBINER INPUTS MUST BE EQUAL. PA CABINET 'C' IS 22.50 INCHES LONGER INTENTIONALLY.
- 3 THIS IS A TYPICAL LAYOUT BASED UPON HARRIS SELECTED AND ASSUMED VENDORS. THESE ITEMS ARE CHANNELIZED PER OPERATING FREQUENCY. PHYSICAL OUTLINE AND FLANGE LOCATIONS WILL VARY DEPENDING ON VENDOR PARTS ORDERED AND SHIPPED.
- 2 LINE LENGTHS ARE TO BE MEASURED AND CUT ON SITE AS REQ'D.
- 1 DIMENSIONS IN [] ARE IN MILLIMETERS.

DWC. NO. 843 4999 801			ZONE	LTR	DATE	REVISION	DFTM	ENG	ECN
	A								NEWDWG
	B	7/23/96					KWB	RLM	HLSP022



3 NOTCH DIPLEXER

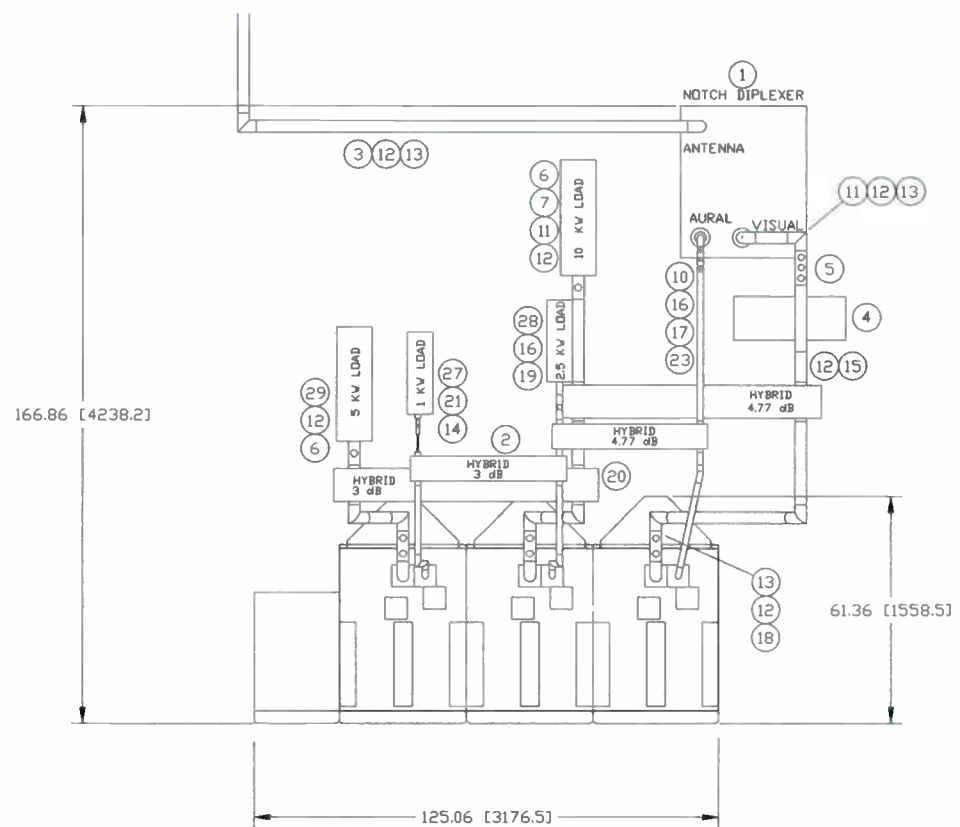
• ASTERISKED ITEMS ARE NOT SUPPLIED WITH TRANSMITTER.

QTY.	ITEM	DESCRIPTION
1	29	RF LOAD 5 KW
1	28	RF LOAD 2.5KW
1	27	RF LOAD 1KW
1	26	VISUAL WATTMETER
1	25	AURAL WATTMETER
	24	
1	23	DIRECTIONAL COUPLER 1 5/8", 3 PORT
1	21	DIRECTIONAL COUPLER 7/8" 1 PORT
1	20	VIS HYBRID COMBINER
4	19	DIRECTIONAL COUPLER 1 5/8", 1 PORT
3	18	DIRECTIONAL COUPLER 3 1/8", 2 PORT
* 10	17	ELBOW, 90° 1 5/8"
* 22	16	COUPLING ASS'Y, 1 5/8"
* SEE NOTE 2	15	LINE ASS'Y, 1 5/8"
1	14	REDUCER 1-5/8 TO N
* 13	13	ELBOW, 90° 3 1/8"
* 33	12	COUPLING ASS'Y, 3 1/8"
* SEE NOTE 2	11	LINE ASS'Y, 3 1/8"
1	10	REDUCER, 3 1/8" TO 1 5/8"
1	7	RF LOAD, 10KW
2	6	DIRECTIONAL COUPLER 3 1/8", 1 PORT
1	5	DIRECTIONAL COUPLER 3 1/8", 3 PORT
SEE NOTE 3	4	COLOR NOTCH FILTER
1	3	HARMONIC LOW PASS FILTER
SEE NOTE 3	2	HYBRID COMBINER, AURAL
SEE NOTE 3	1	NOTCH DIPLEXER

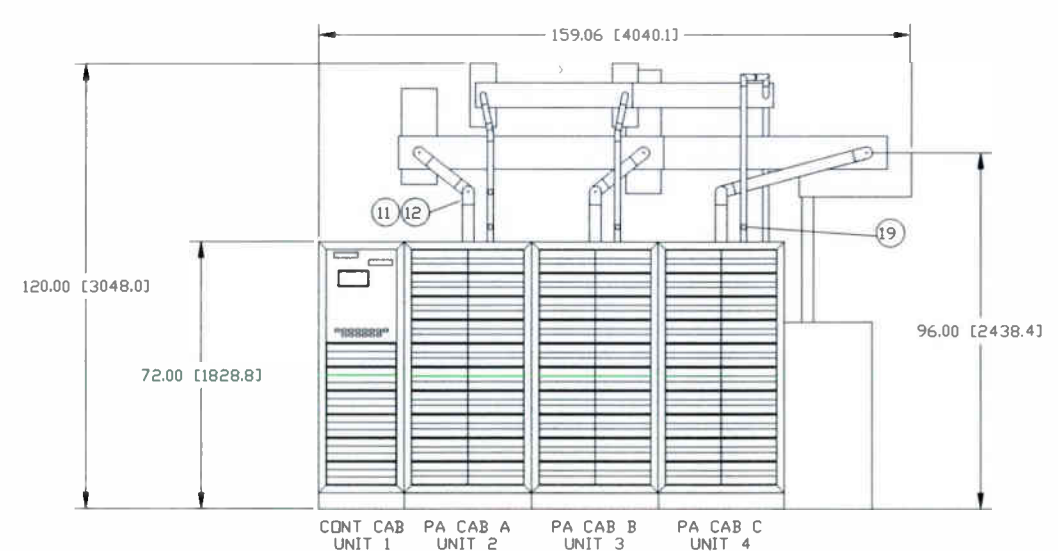
UNLESS NOTED: DIMENSIONS ARE IN INCHES
 TOLERANCES:
 .X ± .030
 .XX ± .015
 .XXX ± .005
 ANGLES ± 1 DEG.

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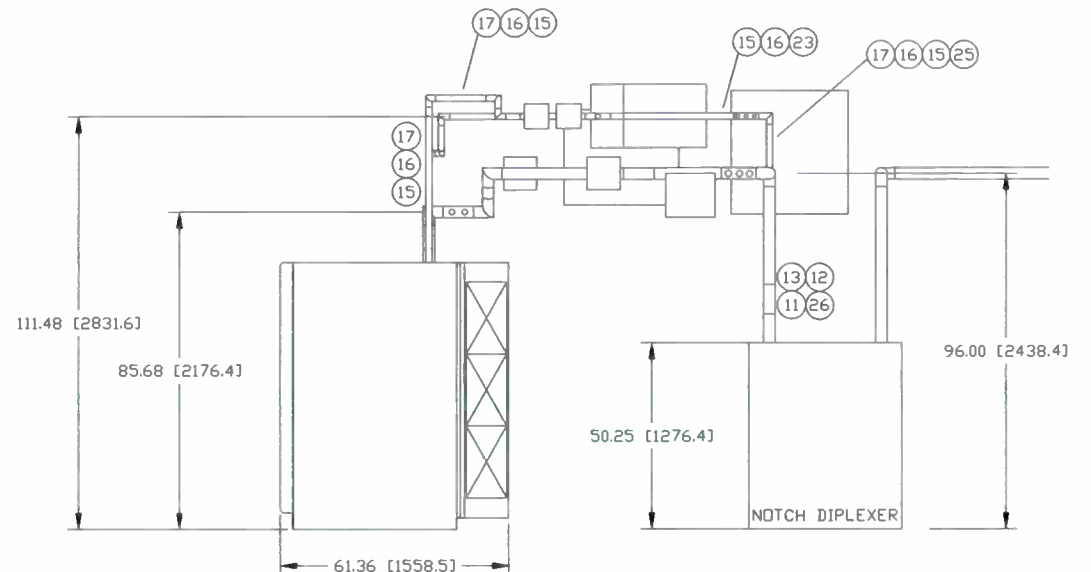
DR. BY WISEMAN 9/95	TITLE
ENG. CHK. C NEAL	LAYOUT, RF PLUMBING
PROJ. ENG. C NEAL	HT 33LSP
MFG. ENG. D MYERS	LOW BAND, (CH 4 SHOWN)
MAT'L	SHEET 1 OF 1
	DWC. NO. 843 4999 801



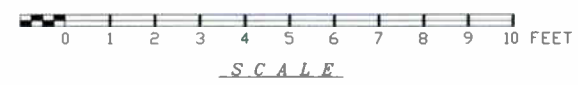
PLAN VIEW



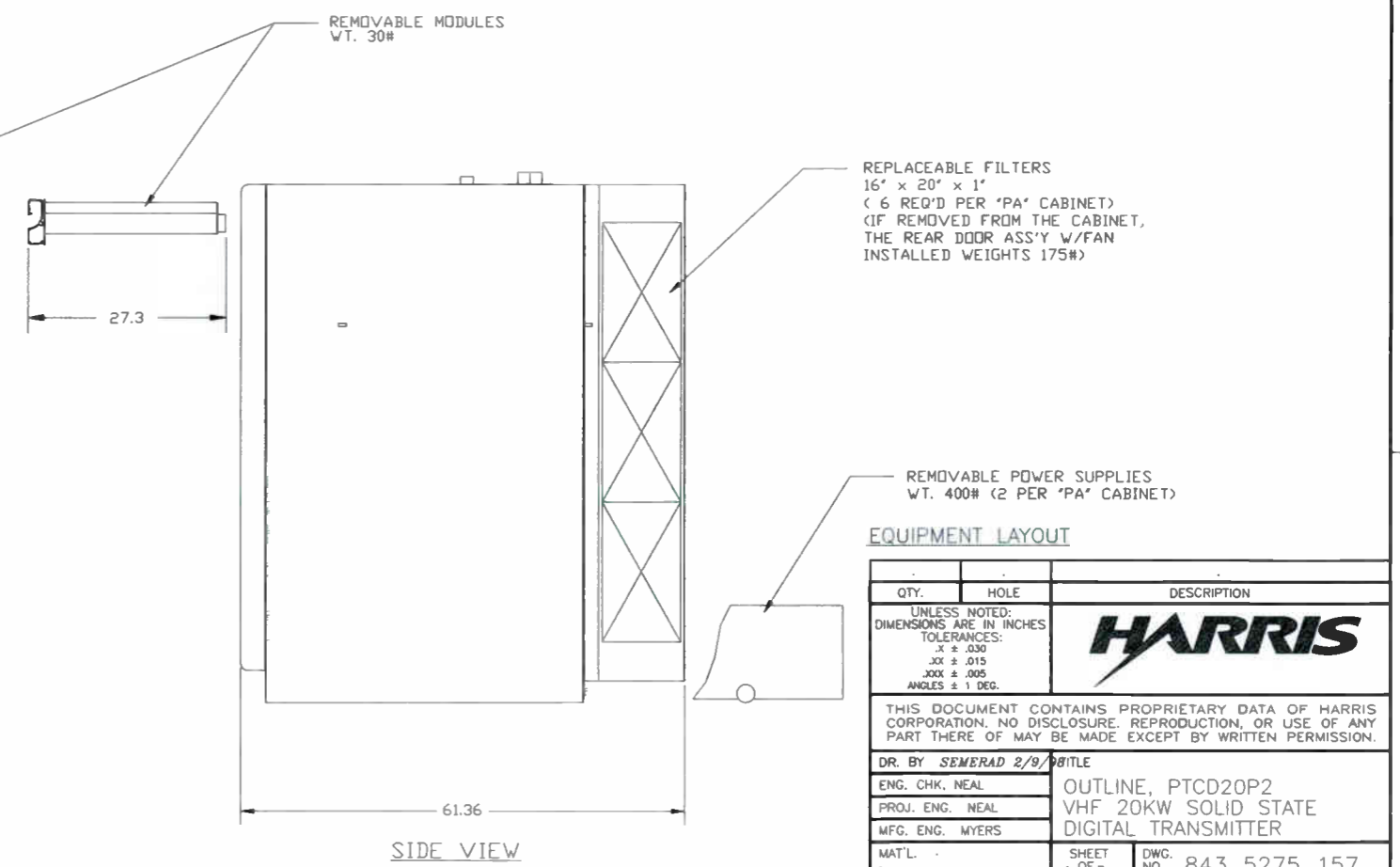
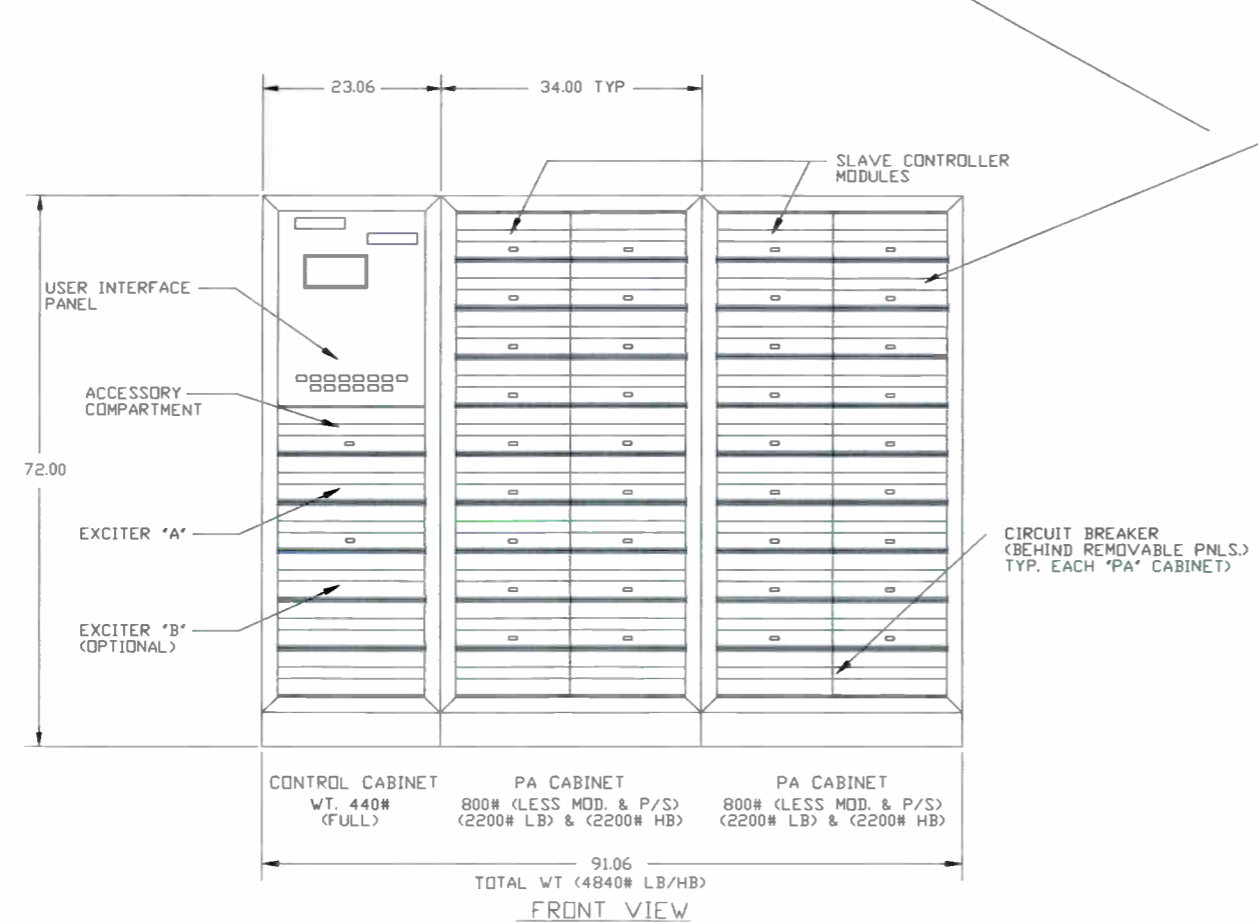
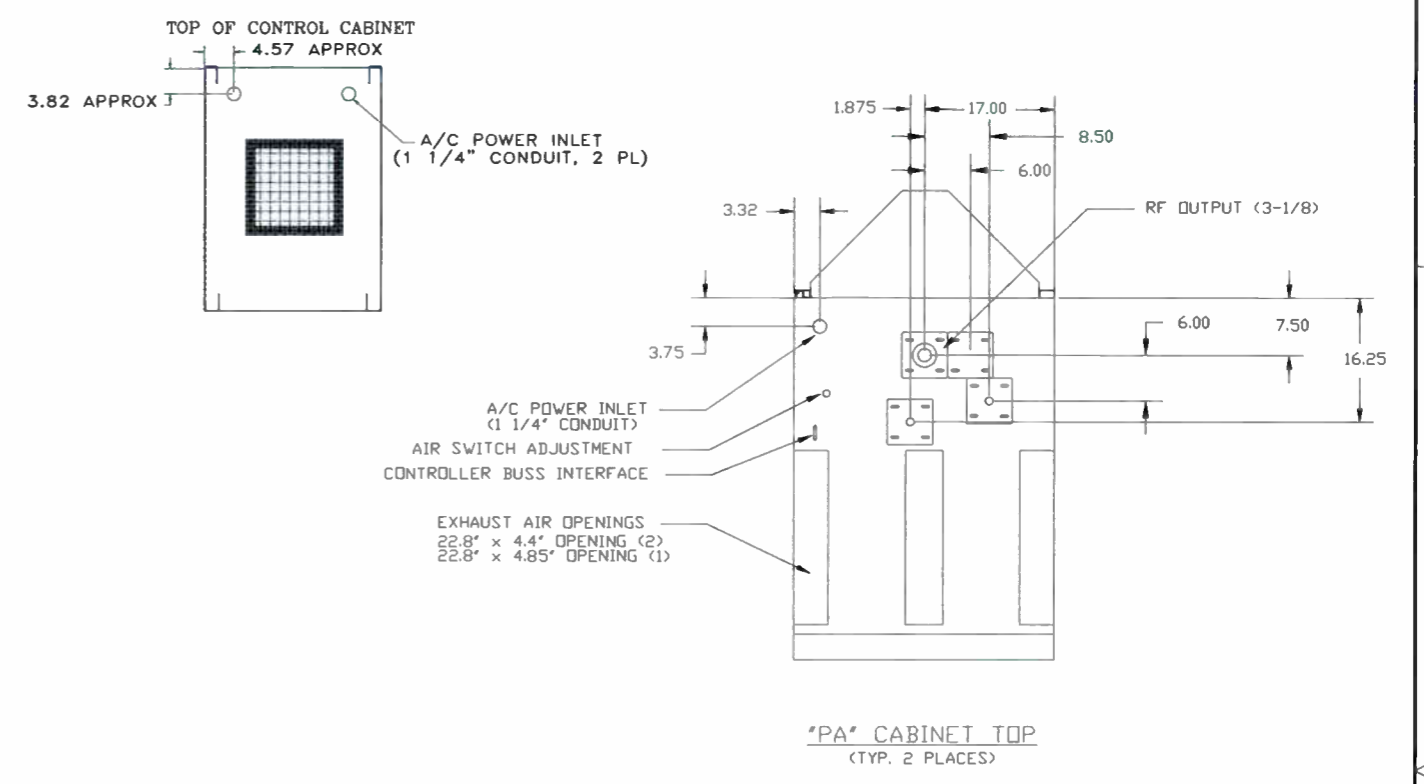
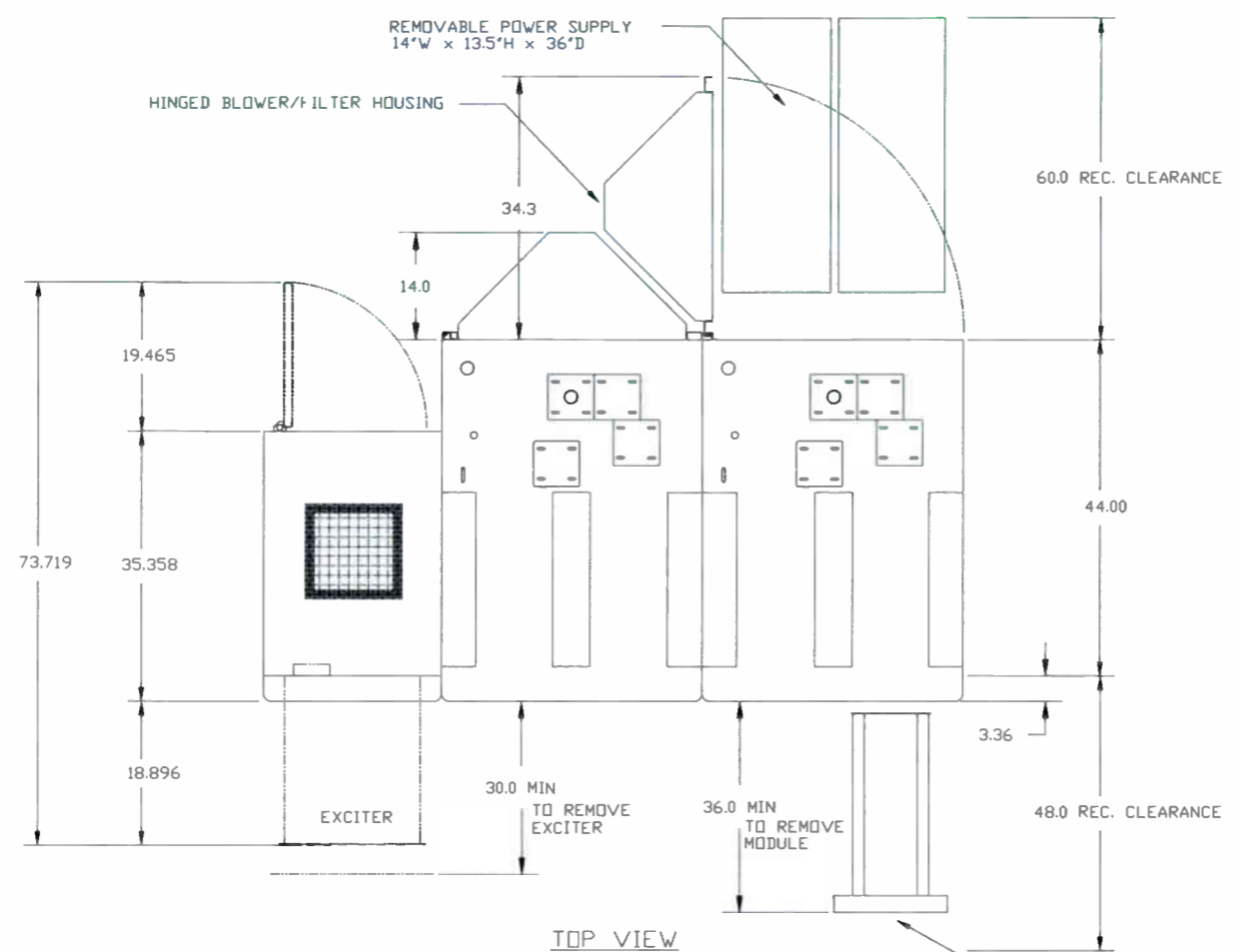
FRONT VIEW



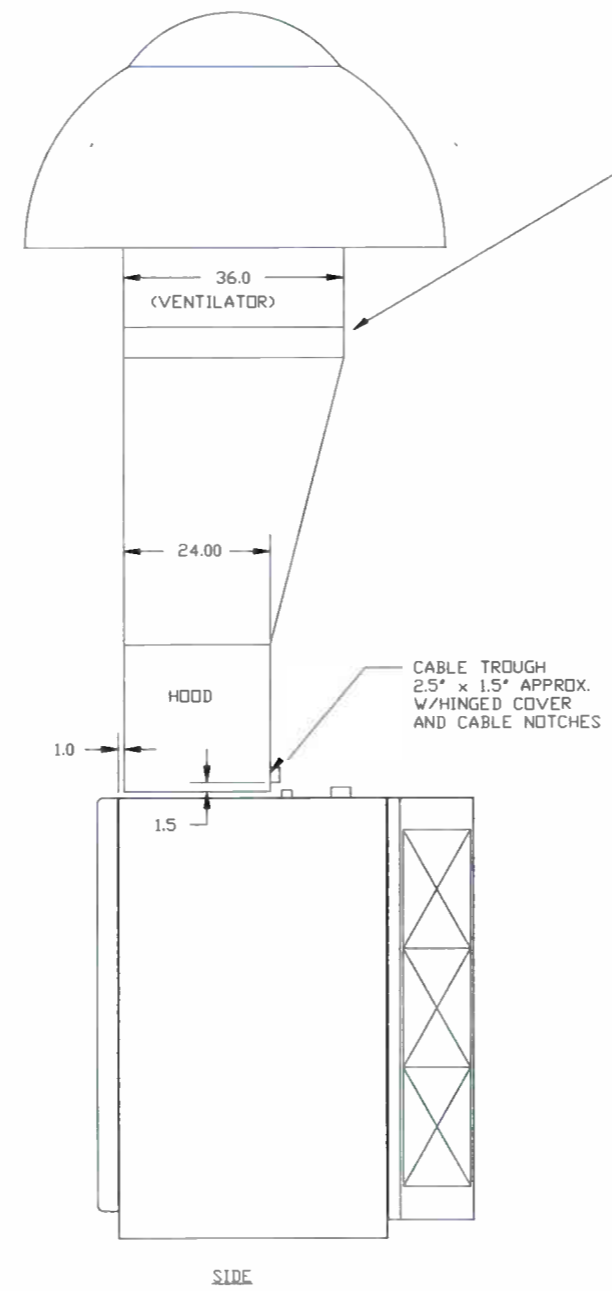
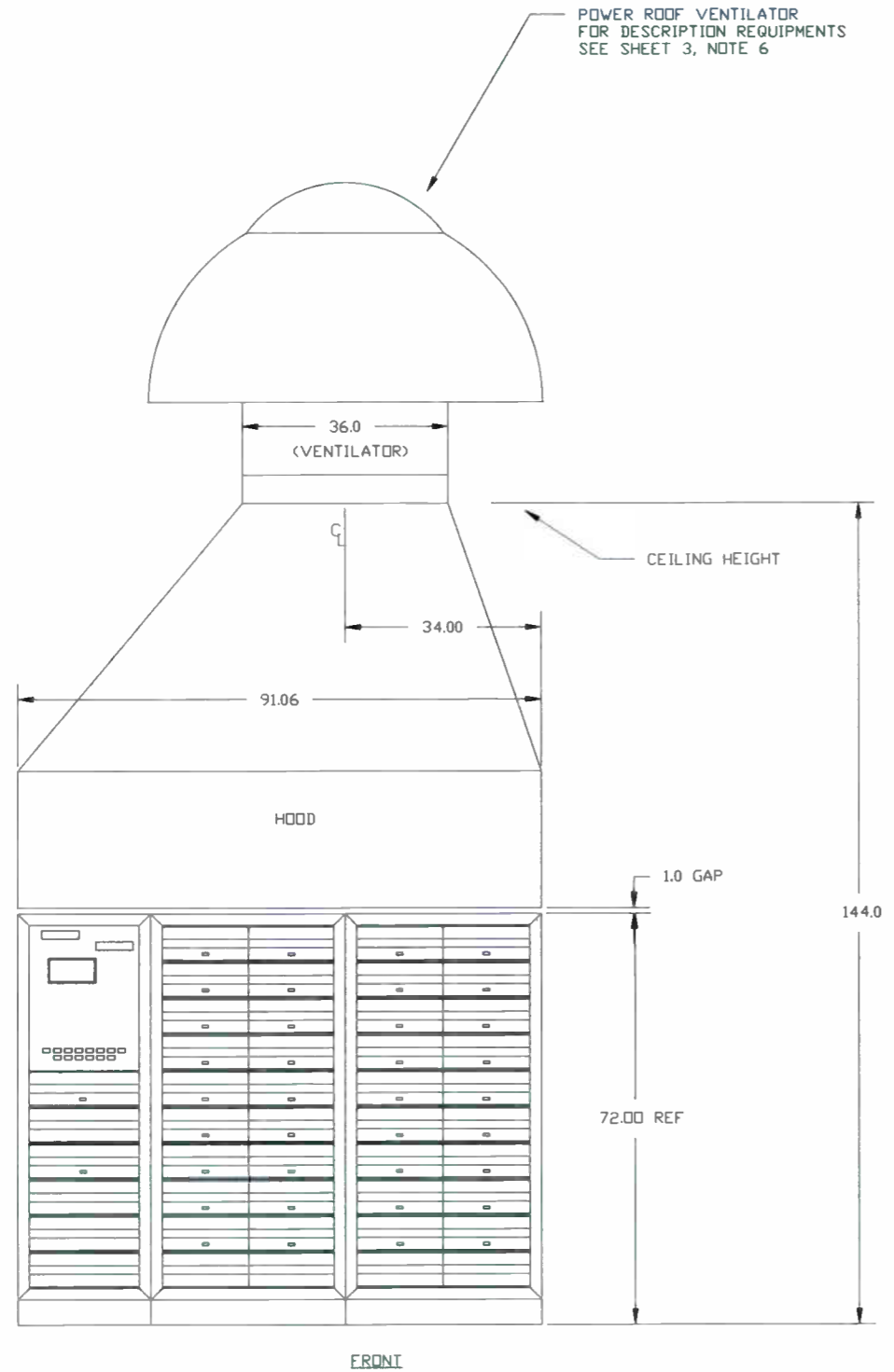
SIDE VIEW



ZONE	LTR	DATE	REVISION	DFTM	ENG	ECN
.	B	10-11-99	REVISE LOGO	DN	DN	P11108
.
.



DWG. NO. 843 5275 157				DFTM	ENG	ECN
ZONE	LTR	DATE	REVISION	DN	DN	P11108
.	B	10-11 99	ADJUST HEAT LOAD, DELETE AUR NOTES	.	.	.



	AIR VOLUME FT ³ /MIN/CM ² /MIN	AVERAGE STACK RISE OVER AMBIENT ° C AT BLACK PICTURE	HEAT LOAD WATTS(BTU)	NOMINAL PRESSURE INCHES OF WATER	NOMINAL NOISE LEVEL DBA 60HZ	NOMINAL BLOWER CURRENT @ 230 VAC
CAB 1 EXCITER CTRL INTAKE	500(14.2)					
CAB 2 PA INTAKE	3500(99.1)					
CAB 3 PA INTAKE	3500(99.1)					
CAB 1 EXCITER CTRL EXHAUST	500(14.2)	5	1000(3413)	.2	56 FRONT 56 SIDE 65 REAR	.4 AMP
CAB 2 PA EXHAUST	3300(93.4)	8	15,000 (51,195)	.4	65 FRONT 65 SIDE 71 REAR	3.0 AMP/PHASE
CAB 3 PA EXHAUST	3300(93.4)		15,000 (51,195)	.4	65 FRONT 65 SIDE 71 REAR	3.0 AMP/PHASE
TRANSMITTER RADIATION			421 (1437)			
TRANSMITTER CONVECTION			106 (362)			
FRONT MODULE LEAKS (PA'S)	400 (1365)	10	2273 (7757)			
TRANSMITTER TOTALS	7500 (2122)		33,800 (115,359)			

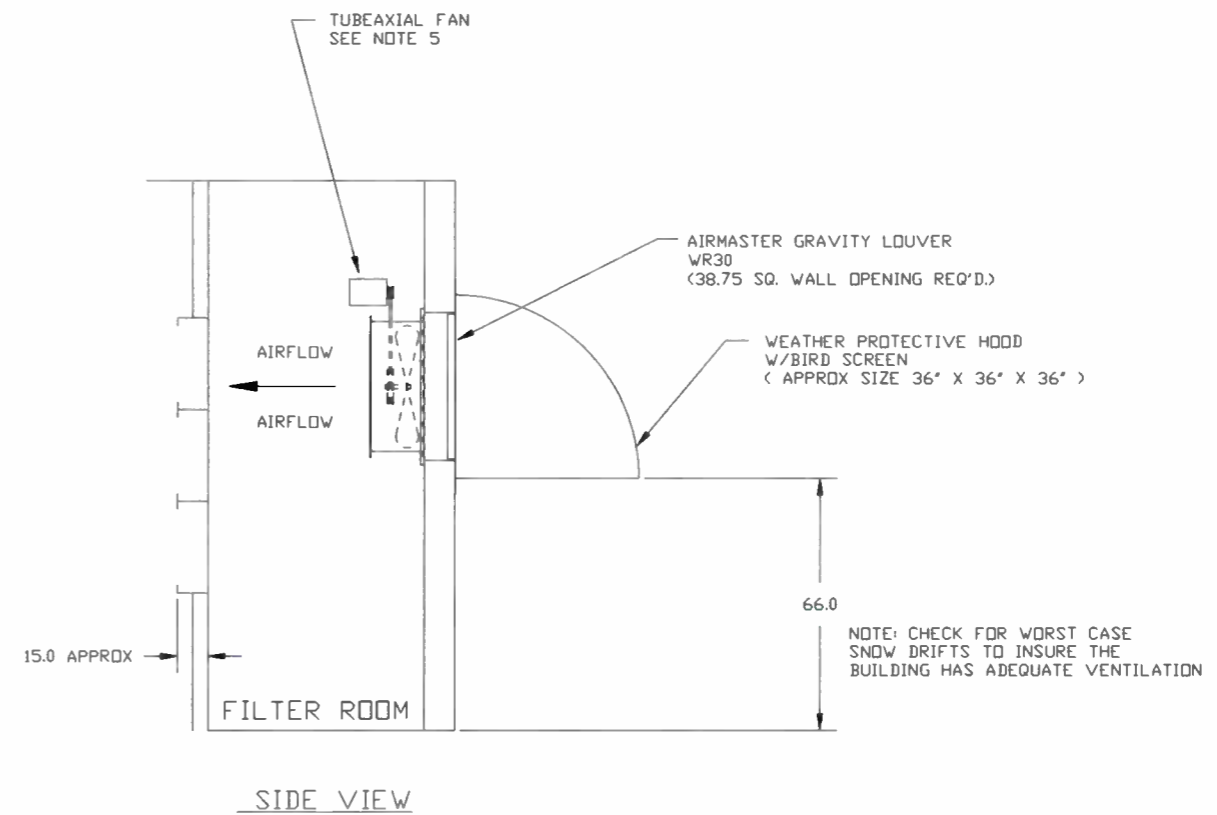
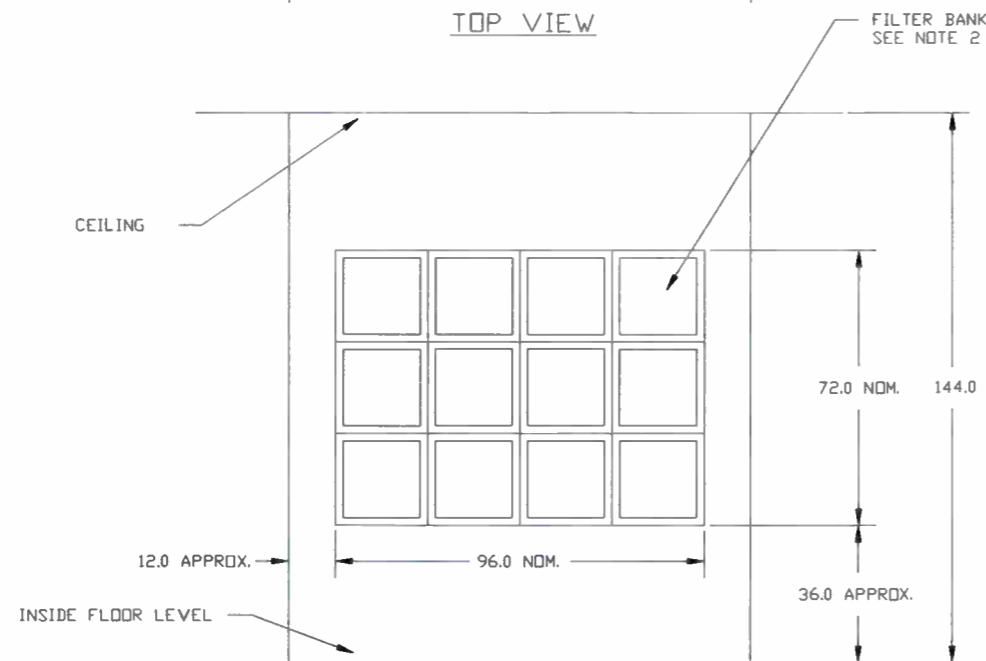
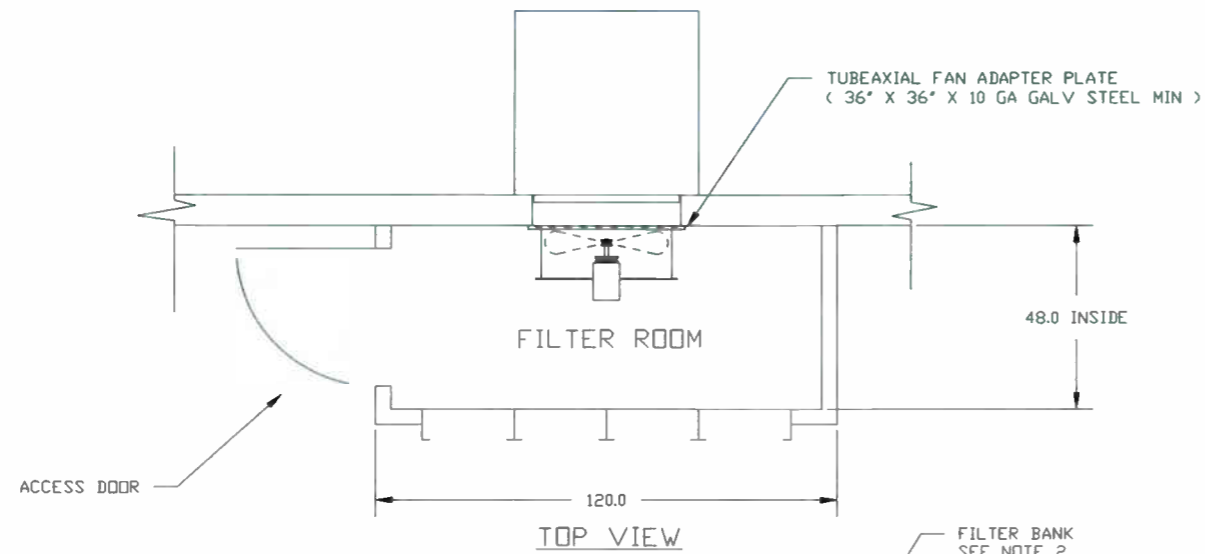
4 71 FRONT
71 SIDE
76 REAR

EXHAUST AIR SYSTEM

QTY.	HOLE	DESCRIPTION
UNLESS NOTED: DIMENSIONS ARE IN INCHES TOLERANCES: .X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG.		HARRIS
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DR. BY DVS 2/9/98	TITLE	OUTLINE, PTC20P2
ENG. CHK. NEAL		VHF 20KW SOLID STATE
PROJ. ENG. NEAL		DIGITAL TRANSMITTER
MFG. ENG. MYERS		
MAT'L	SHEET 2 OF 3	DWG. NO. 843 5275 157

- 4 READING IS FOR COMBINED 20KW CABINETS WITH ALL FANS RUNNING.
- 3 DATA SHOWN IS TYPICAL FOR A 60 HZ TRANSMITTER @ 230 VAC INPUT POWER AND AT STANDARD CONDITIONS (20° C AND SEA LEVEL).
- 2 NOISE MEASUREMENTS MADE ON A WEIGHTED SCALE 3 FEET FROM FLOOR AND 3 FEET FROM SURFACE OF TRANSMITTER BEING MEASURED, READINGS ARE FOR INDIVIDUAL CABINETS.
- 1 TYPICAL PRESSURE MEASURE AT THE FAN OUTPUT PLENUM PRESSURE TAP LOCATION

DWG. NO. 843 5275 157						
ZONE	LTR	DATE	REVISION	DFTM	ENG	ECN
.	B	10-11-99	REVISE LOGO	DN	DN	P11108

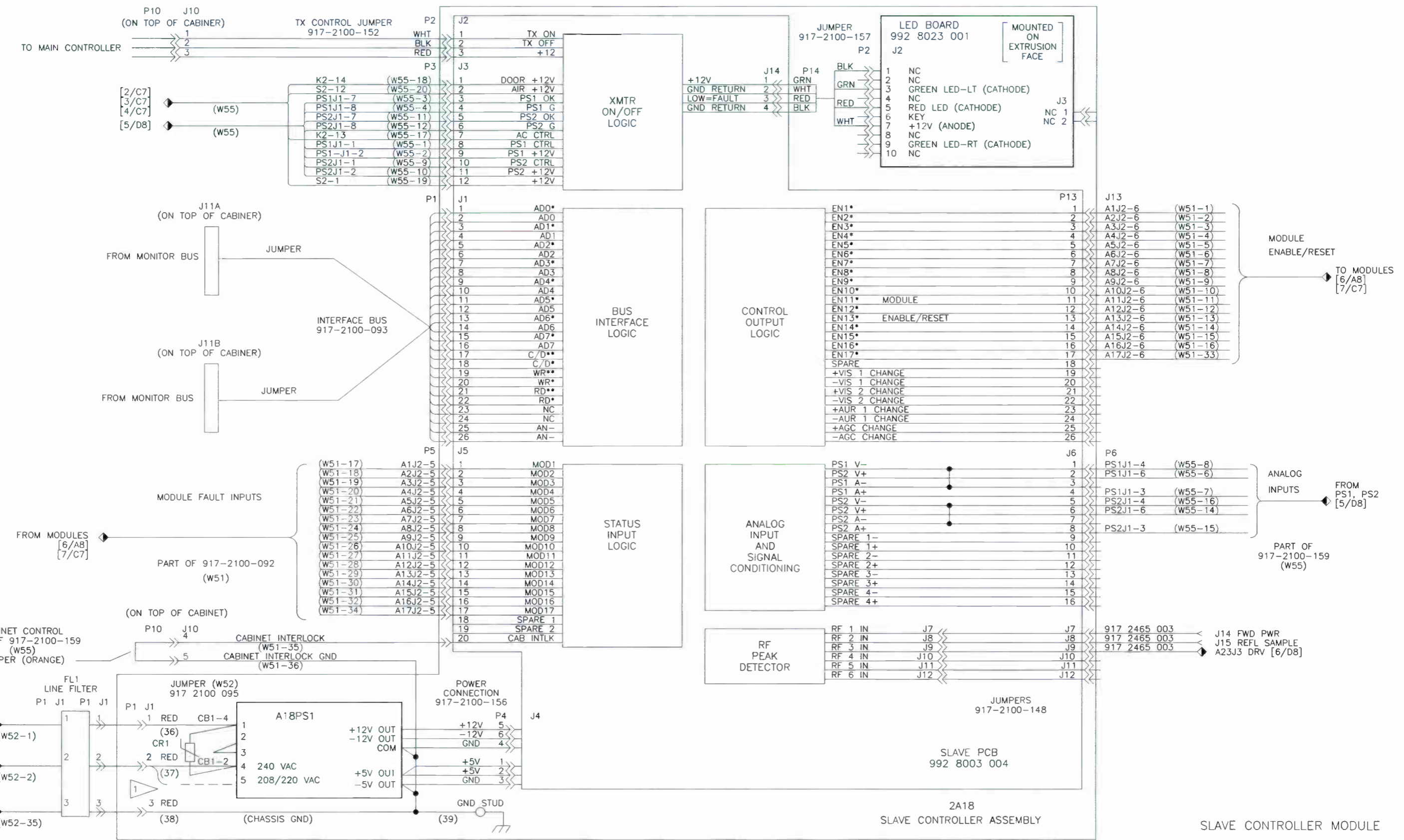


NOTE: CHECK FOR WORST CASE
SNOW DRIFTS TO INSURE THE
BUILDING HAS ADEQUATE VENTILATION

- THIS TYPICAL TRANSMITTER SYSTEM HAS BEEN SIZED TO SLIGHTLY PRESSURIZE THE ROOM. IF ADDITIONAL COOLING IS REQUIRED FOR OTHER EQUIPMENT OR TO ACCOUNT FOR SOLAR BUILDING LOADS, CONSULT HARRIS OR A QUALIFIED AIR CONDITIONING / VENTILATION CONSULTANT FOR ASSISTANCE.
- THE EXHAUST BLOWER (AIRMASTER ARDB300HA 3/4 HP @ 503 RPM) HAS BEEN SIZED FOR 7852 CFM AT 0' WATER. THE ACTUAL EXHAUST FLOW AFTER CONSTRUCTION OF THE EXHAUST SYSTEM SHOULD BE ADJUSTED FOR A FLOW OF 7,500 CFM AND 0 TO -.25' WATER AT THE EXHAUST STACKS OF THE TRANSMITTER.
- THE INTAKE BLOWER (AIRMASTER CINNCINATI FAN BAF 30-7-40 5 HP @ 1381 RPM) IS SIZED FOR 9440 CFM AT 1.25' WATER. THE ACTUAL DESIRED MAKE-UP AIR REQUIREMENT IS 8,000 CFM. AFTER THE SYSTEM IS CONSTRUCTED THE BLOWER CAN BE VARIED IN SPEED TO MEET THE ACTUAL SYSTEM REQUIREMENTS.
- THE FILTER ROOM CAN BE EQUIPPED WITH A DWYER MODEL 1823-1 (.3'-1.0') TO MONITOR THE FILTER DROP OR THE CLEANLINESS OF THE FILTER. THIS READING CAN BE USED FOR SCHEDULING FILTER CHANGES.
- INLET FILTER BANK AT 8,000 CFM FLOW RATE HAS A FACE VELOCITY OF APPROXIMATELY 166 FPM. THE TYPICAL PRESSURE DROP FOR CLEAN FILTERS IS APPROXIMATELY .9' WATER. THE TYPICAL PRESSURE DROP FOR A DIRTY FILTER IS APPROXIMATELY 1.3' WATER. THE FILTERS SHOULD BE CHANGED AT THIS POINT OR BEFORE.
- AIR FILTERS - 12 - MAIN FILTERS: AMERICAN AIR FILTER COMPANY - DRI-PAK 90% EFFICIENT, FILTER P/N 260-106-915. FILTER SIZE IS 24" X 24" X 15" DEEP WITH SIX POCKETS. PRE-FILTER: AMERICAN AIR FILTER COMPANY - AMERSEAL 25-30% EFFICIENT, FILTER P/N 234-863-300. FILTER SIZE 24" X 24". FITS INTO UNIVERSAL HOLDING FRAME. FILTER FRAME (1 REQD FOR EACH FILTER) AMERICAN AIR FILTER COMPANY UNIVERSAL FRAME, 24" X 24" X 2", P/N 321-863-002
- THE WEATHER HOOD IS GALVANIZED STEEL WITH AUTOMATIC BACKDRAFT DAMPERS (AIRMASTER WR30), AND A BIRDSCREEN OVER THE INLET. NOTE: THE PREVAILING WIND PATTERNS SHOULD BE CONSIDERED BEFORE SELECTING WHICH WALL THE INTAKE SYSTEM IS MOUNTED ON. IF POSSIBLE, DO NOT PLACE THE INTAKE OR EXHAUST PORTS ON THE SIDE AGAINST THE PREVAILING WINDS.

INTAKE AIR SYSTEM

QTY.	HOLE	DESCRIPTION
UNLESS NOTED: DIMENSIONS ARE IN INCHES TOLERANCES: .X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG.		HARRIS
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DR. BY	DVS 2/9/98	TITLE
ENG. CHK.	NEAL	OUTLINE, PTC20P2
PROJ. ENG.	NEAL	VHF 20KW SOLID STATE
MFG. ENG.	MYERS	DIGITAL TRANSMITTER
MAT'L		SHEET 3 OF 3
		DWG. NO. 843 5275 157



NOTES
 WIRE NUMBERS SHOWN IN PARANTHESIS (WIRE #)
 ALL CONTACTS SHOWN WITH TRANSMITTER OFF CONDITION.
 1 FOR 208VAC, CONNECT CB1-2 AND CR1 TO PIN 5.
 SHEET NUMBER / ZONE
 [2/A1] CONTINUATION SYSTEM

REV	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
D			12/99	CN	CN	P11927
CHANGE SHEET 2						
C			10-14-99	DN	DN	P10632
REVISE SHEET 2						

HARRIS
 HARRIS CORPORATION
 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRAWN BY	DATE	TITLE
L WISEMAN	MAR 16, 99	WIRING DIAGRAM, 'PA' CABINET
C NEAL		
C NEAL		
P LUFT		

DWG NO.	REV
843 5275 209	D

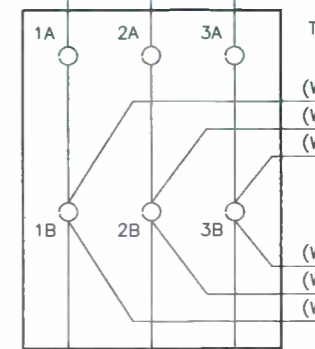
CUSTOMER SUPPLIED
INPUT LINES
3 PHASE AC

C - PHASE 1
B - PHASE 2
A - PHASE 3

MOV ASSEMBLY
992 8553 001

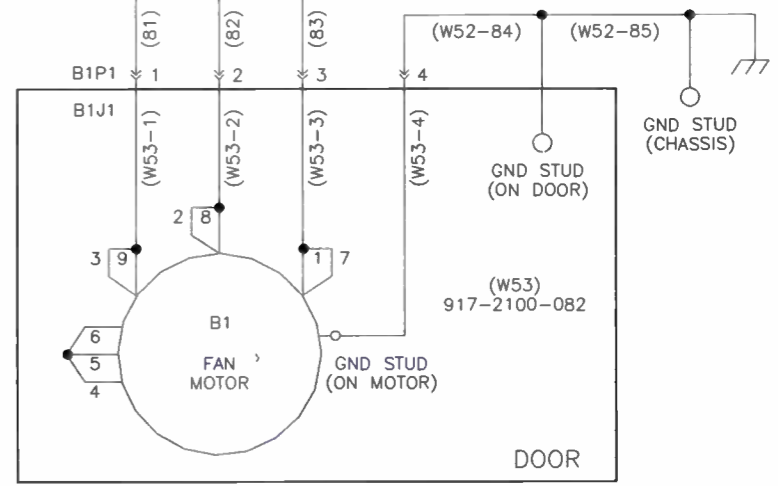
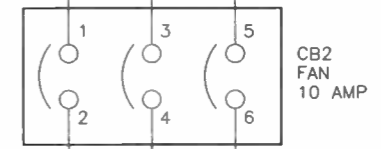
K1
AC
CONTACTOR

VOLT	FREQ	PART NUMBER
208V	60HZ	570-0314-000
220V	50HZ	570-0314-002
240V	60HZ	570-0314-002
240V	50HZ	570-0314-009
220V	60HZ	570-0314-008



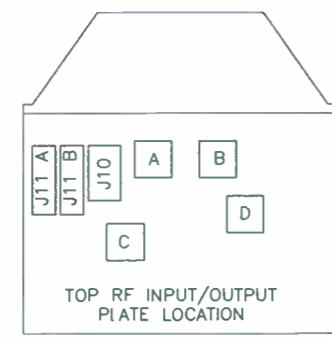
TO SHEET 5
PS1
[5/C8]

TO SHEET 5
PS2
[5/D8]

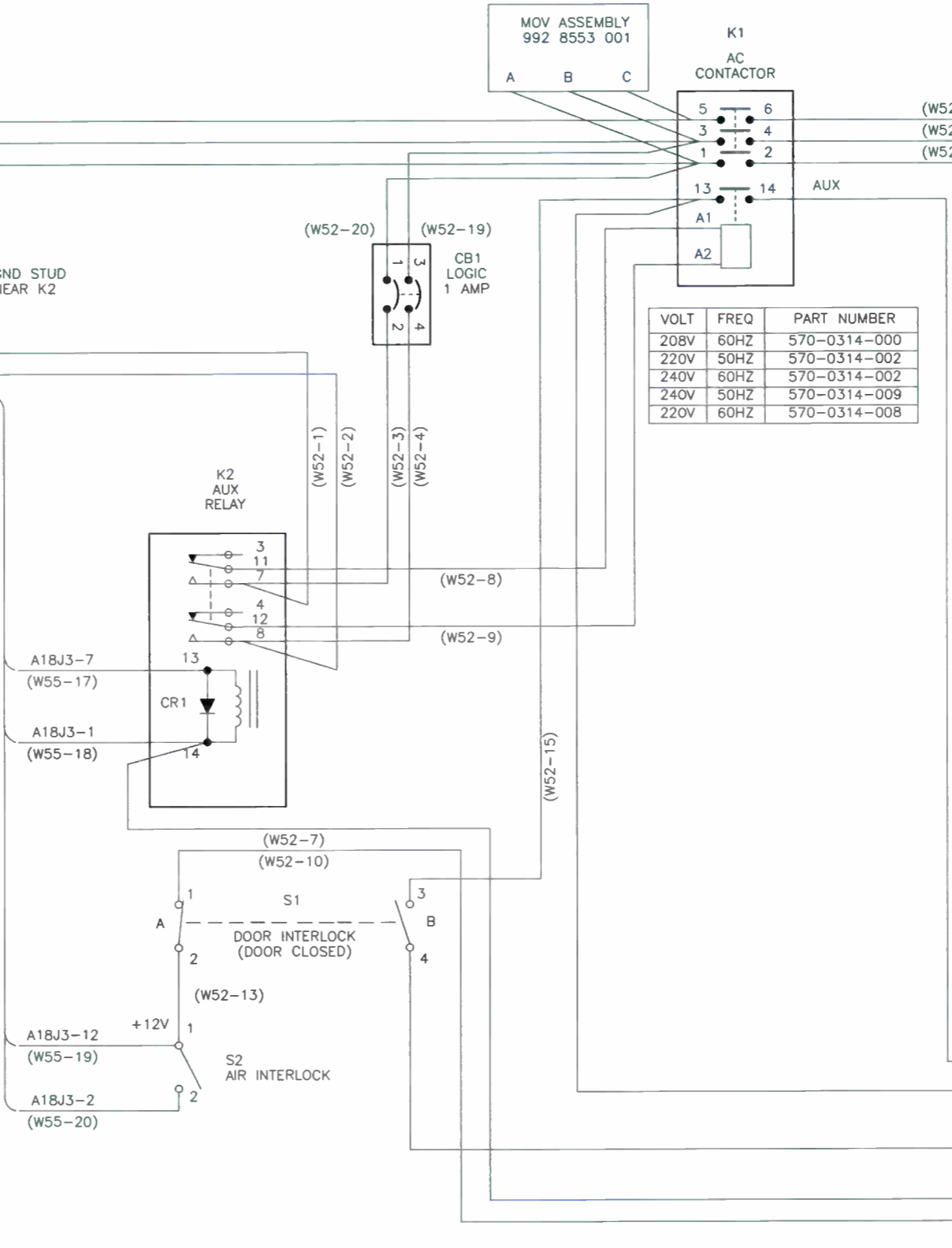


TO SHEET 5
DISCHARGE
CIRCUIT A28
[5/B8]

AC WIRING - 208/240V
3 WIRE DELTA



A = 3 1/8" OUTPUT
B = AGC TEMP PLATE (939-8106-423)
C = INPUT PLATE (939-7900-844)
D = 1 5/8" SPLITTER INPUT



NOTES

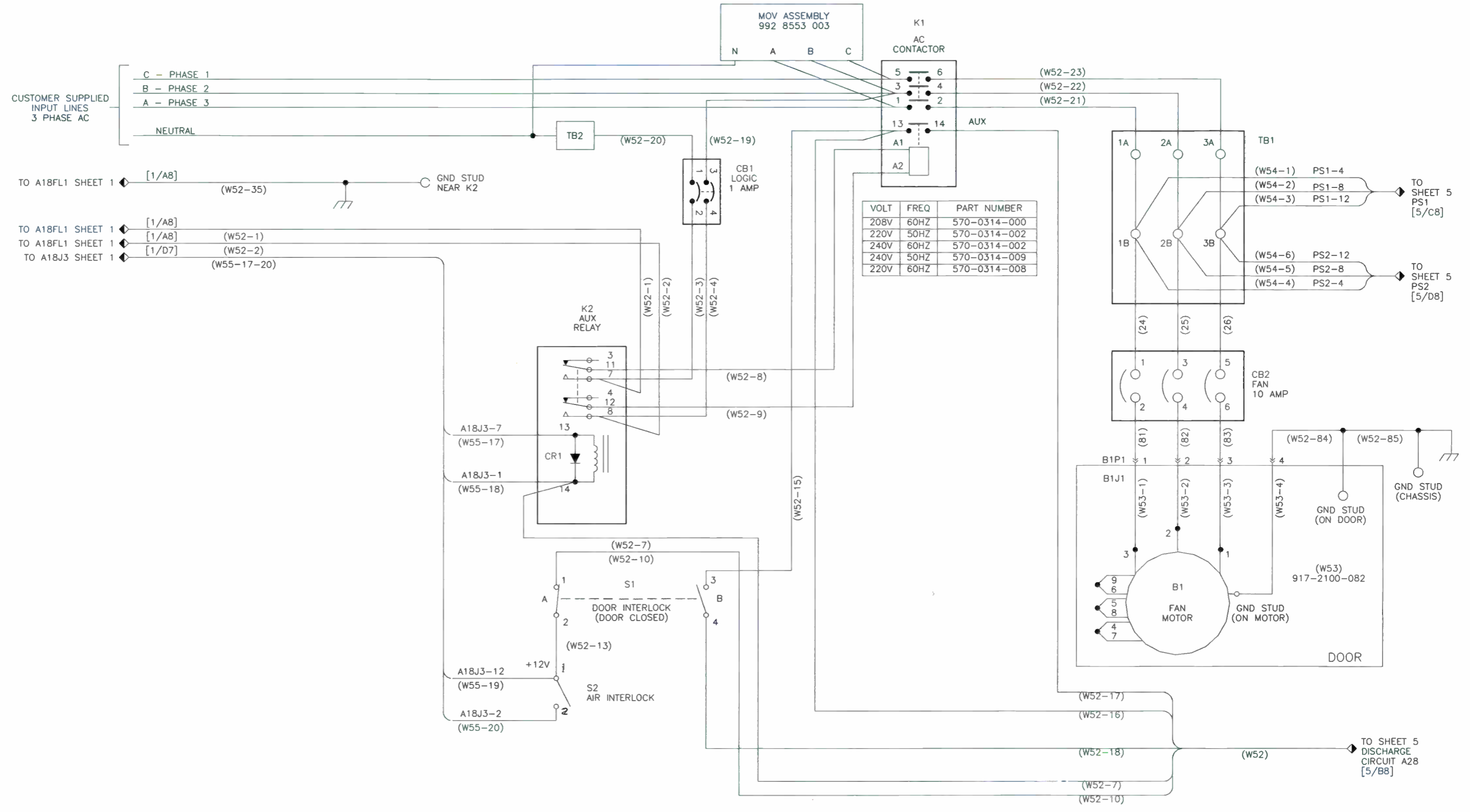
TR	ZONE	DATE	DFTM	ENG	ECD NBR
D		12/99	CN	CN	P11927
REVISE CABINET DESIGNATORS A15,A16					
C		10-14-99	DN	DN	P10632
REVISE PLATE B & C PART NUMBERS					



HARRIS CORPORATION
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DRAWN BY	L WISEMAN
DATE	MAR 16, 99
ENG CHK	C NEAL
PROJ ENG	C NEAL
MFG ENG	P LUFT
D	SHEET 2 OF 7

TITLE	WIRING DIAGRAM, 'PA' CABINET
DWG NO.	843 5275 209
REV	D



AC WIRING - 380/415V
3 WIRE WYE

NOTES

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
D			12/99	CN	CN	P11927
CHANGE SHEET 2						
C			10-14-99	DN	DN	P10632
REVISE SHEET 2						



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DRAWN BY	L WISEMAN
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ENG CHK	C NEAL
PROJ ENG	C NEAL
MFG ENG	P LUFT
D	SHEET 3 OF 7

TITLE	WIRING DIAGRAM, 'PA' CABINET
DWG NO.	843 5275 209
REV	D

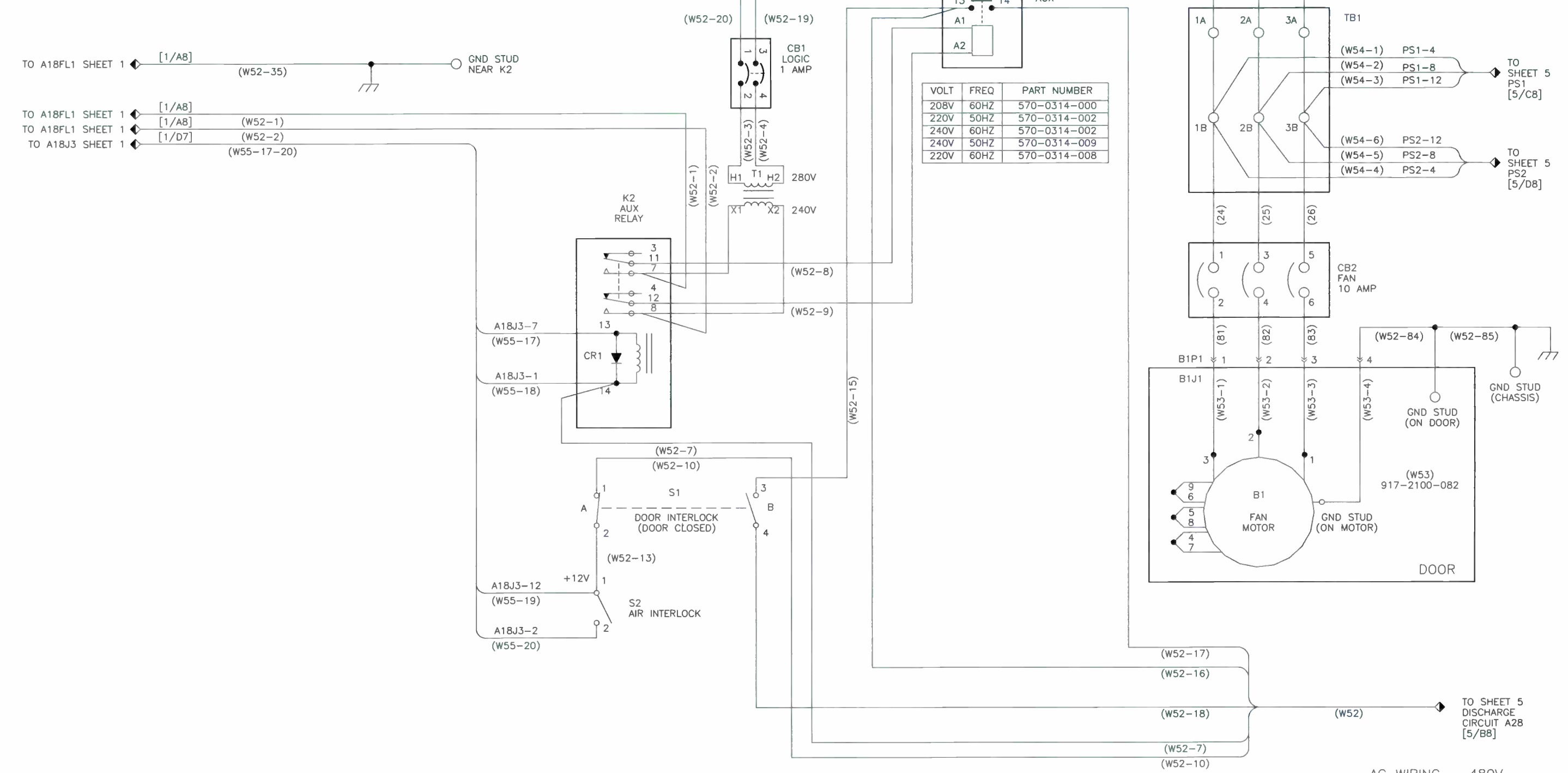
CUSTOMER SUPPLIED
INPUT LINES
3 PHASE AC

C - PHASE 1
B - PHASE 2
A - PHASE 3

MOV ASSEMBLY
992 8553 005
A B C

K1
AC
CONTACTOR

VOLT	FREQ	PART NUMBER
208V	60HZ	570-0314-000
220V	50HZ	570-0314-002
240V	60HZ	570-0314-002
240V	50HZ	570-0314-009
220V	60HZ	570-0314-008



AC WIRING - 480V
3 WIRE DELTA

NOTES

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
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CHANGE SHEET 2						
C			10-14-99	DN	DN	P10632
REVISE SHEET 2						

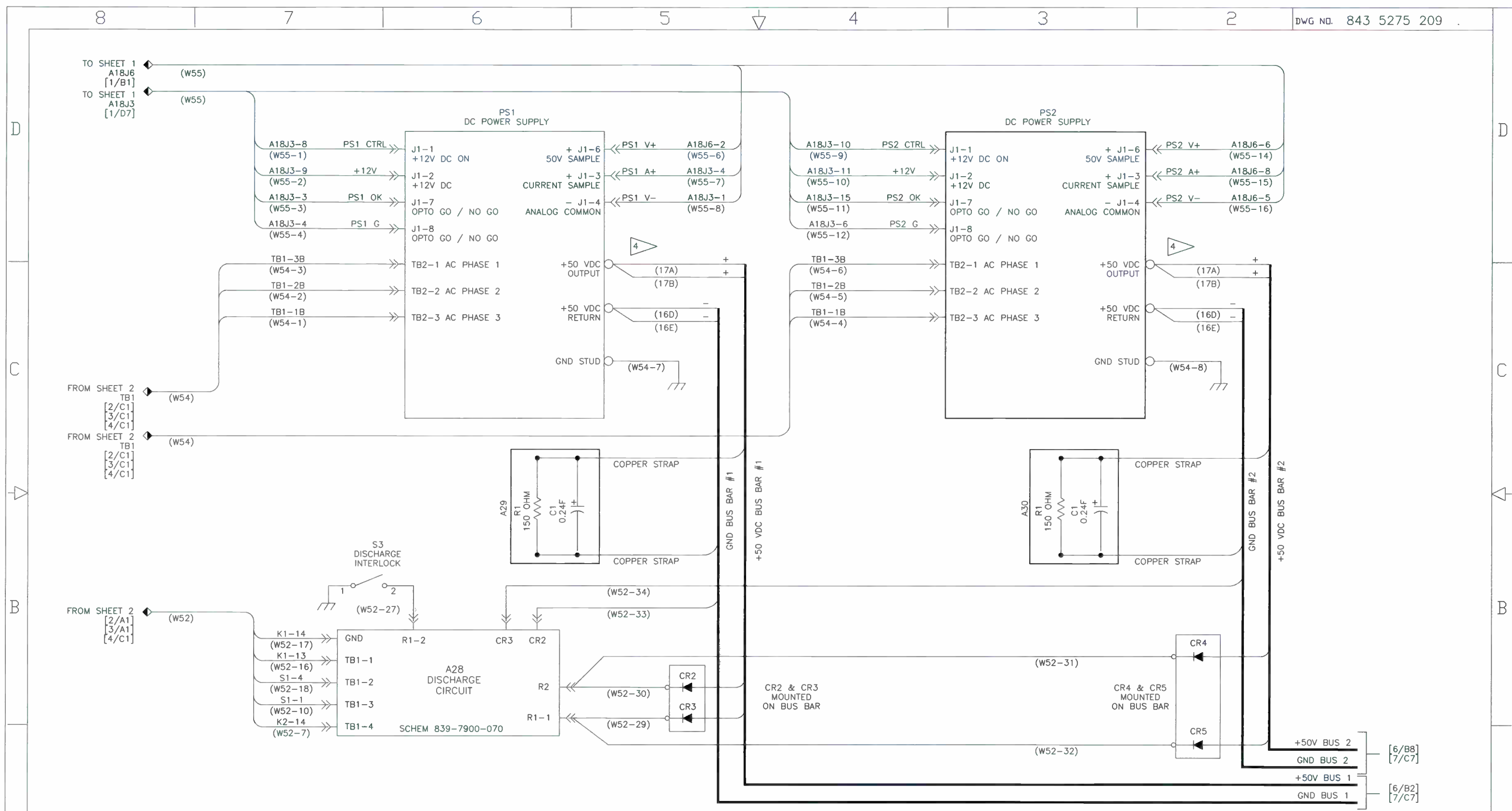


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DRAWN BY	L WISEMAN
DATE	MAR 16, 99
ENG CHK	C NEAL
PROJ ENG	C NEAL
MFG ENG	P LUFT
D	SHEET 4 OF 7

TITLE
WIRING DIAGRAM, 'PA' CABINET

DWG NO. 843 5275 209
REV D



AC WIRING
POWER SUPPLIES

NOTES
4 WIRES 16 AND 17 1/0 AWG STRANDED SUPPLIED WITH POWER SUPPLY

REV	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
D			12/99	CN	CN	P11927
CHANGE SHEET 2						
C			10-14-99	DN	DN	P10632
REVISE SHEET 2						



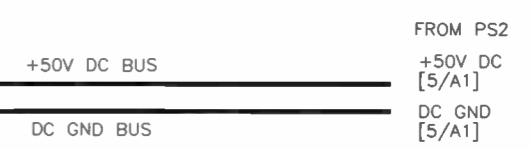
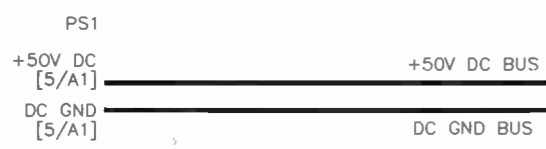
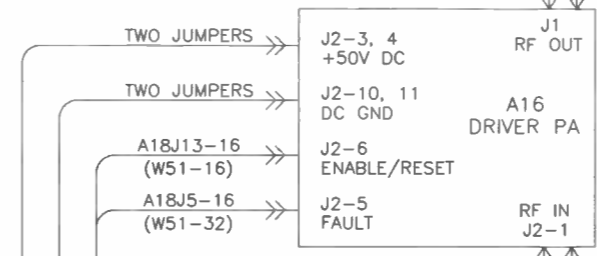
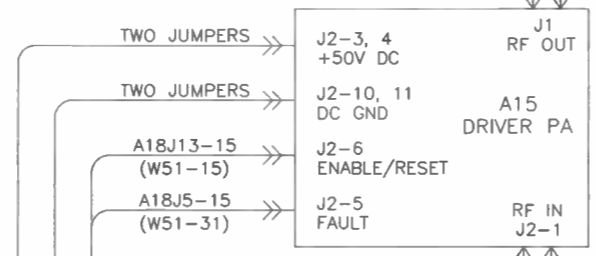
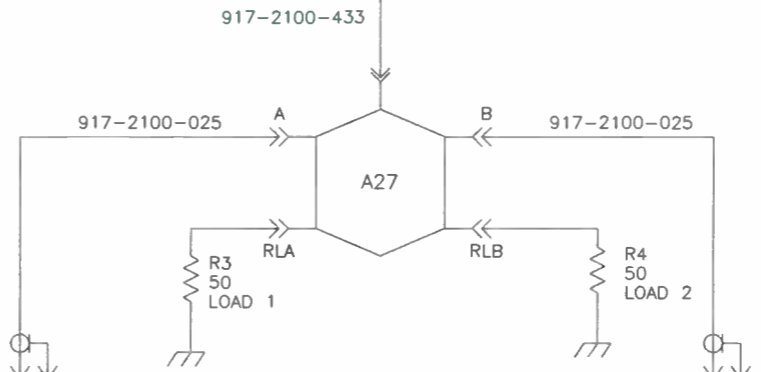
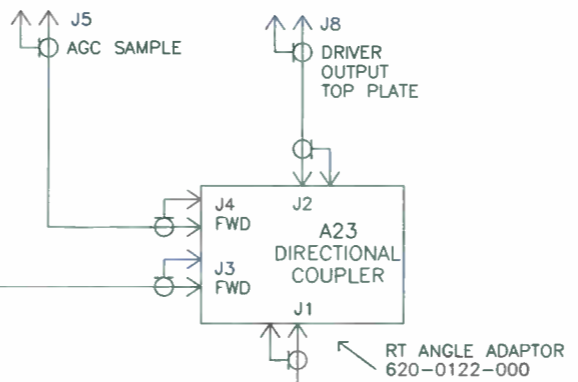
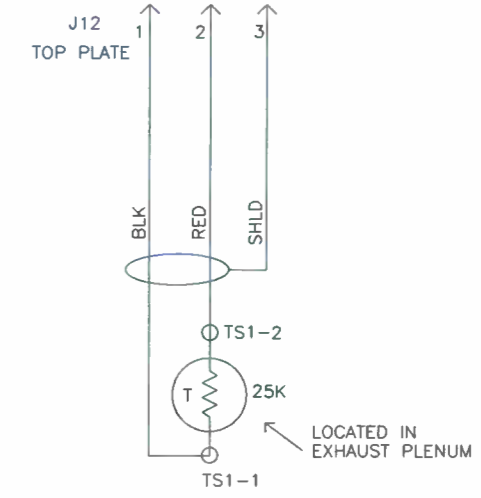
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BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY	L WISEMAN
DATE	MAR 16, 99
ENG CHK	C NEAL
PROJ ENG	C NEAL
MFG ENG	P LUFT
D	SHEET 5 OF 7

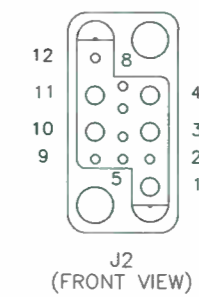
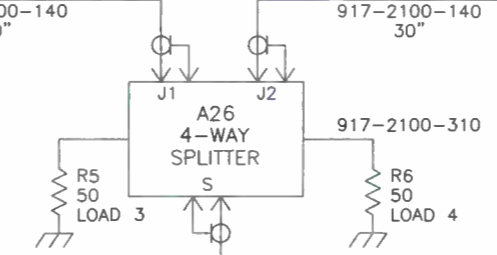
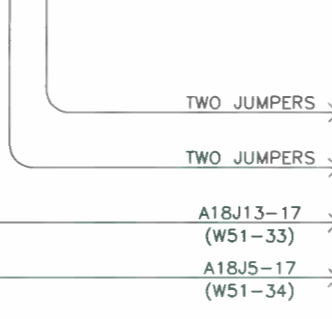
TITLE	WIRING DIAGRAM, 'PA' CABINET
DWG NO.	843 5275 209
REV	D

8 7 6 5 4 3 2

VISUAL DRIVE
TO A18J9 [1/B2]
917-2100-003
(W4)



A18J5 FAULTS [1/B7]
A18J13 ENABLES [1/C1]



PIN	FUNCTION
1	RF IN
2	NC
3	+50VDC
4	+50VDC
5	FAULT
6	ENABLE/RESET
7	NC
8	NC
9	NC
10	DC GND
11	DC GND
12	NC

NOTES

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
	D		12/99	CN	CN	P11927
CHANGE SHEET 2						
	C		10-14-99	DN	DN	P10632
REVISE SHEET 2						

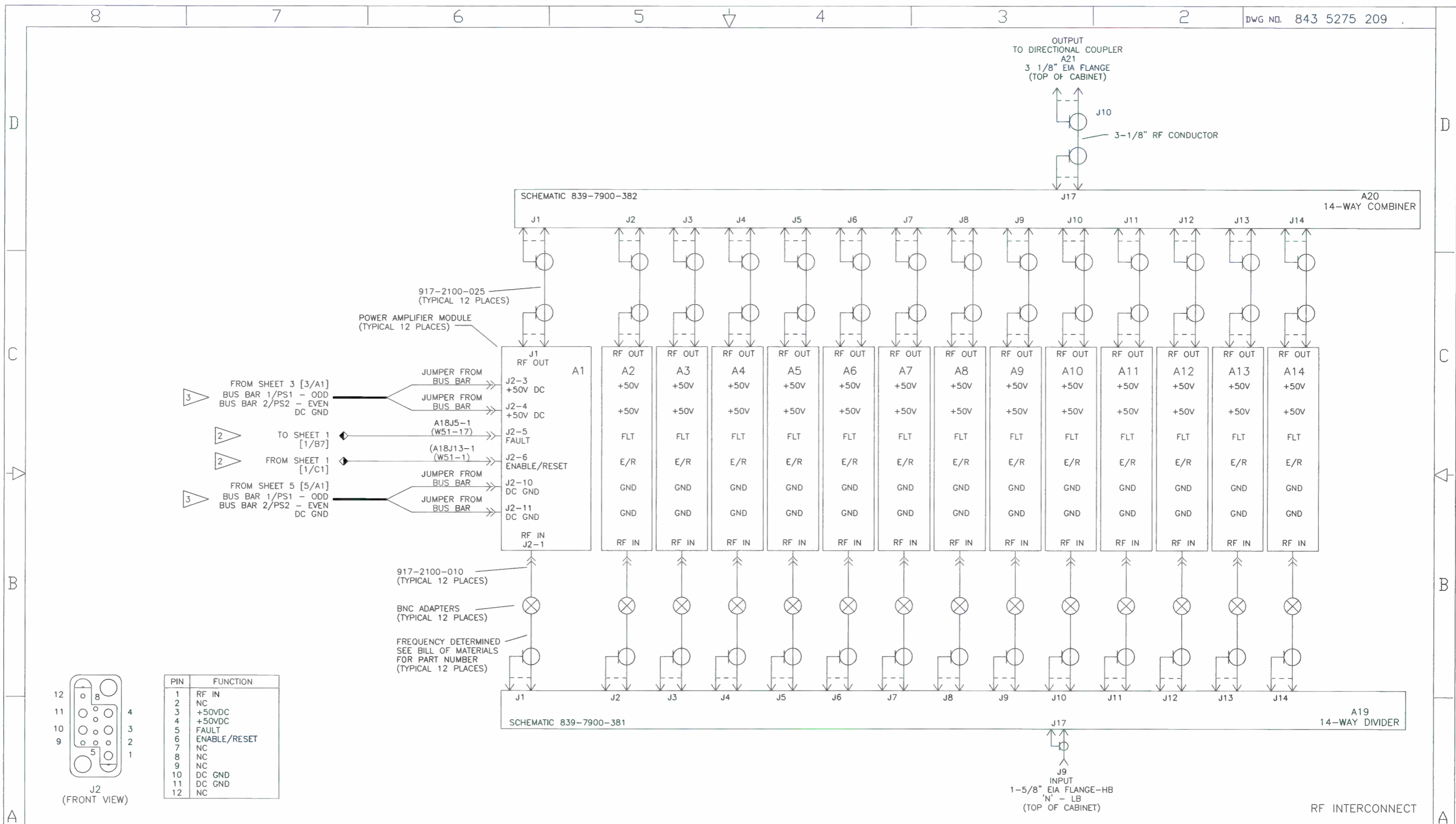


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DRAWN BY	L WISEMAN
DATE	MAR 16, 99
ENG CHK	C NEAL
PROJ ENG	C NEAL
MFG ENG	P LUFT
D	SHEET 6 OF 7

TITLE	WIRING DIAGRAM, 'PA' CABINET
DWG NO.	843 5275 209
REV	D

8 7 6 5 4 3 2 1



NOTES

3 PS1 SUPPLIES +50VDC TO ODD NUMBERED MODULES
PS2 SUPPLIES +50VDC TO EVEN NUMBERED MODULES

2 ON MODULES A1 THRU A16, THE ENABLE/RESET LINES
AND FAULT LINES CONNECT TO SLAVE CONTROLLER (SHEET 1)
A18J13-1 THRU -16 AND AJ18J5-1 THRU -16 RESPECTIVELY.
EXAMPLE: A3J2-6 CONNECTS TO A18J13-3
A10J2-5 CONNECTS TO A18J5-10

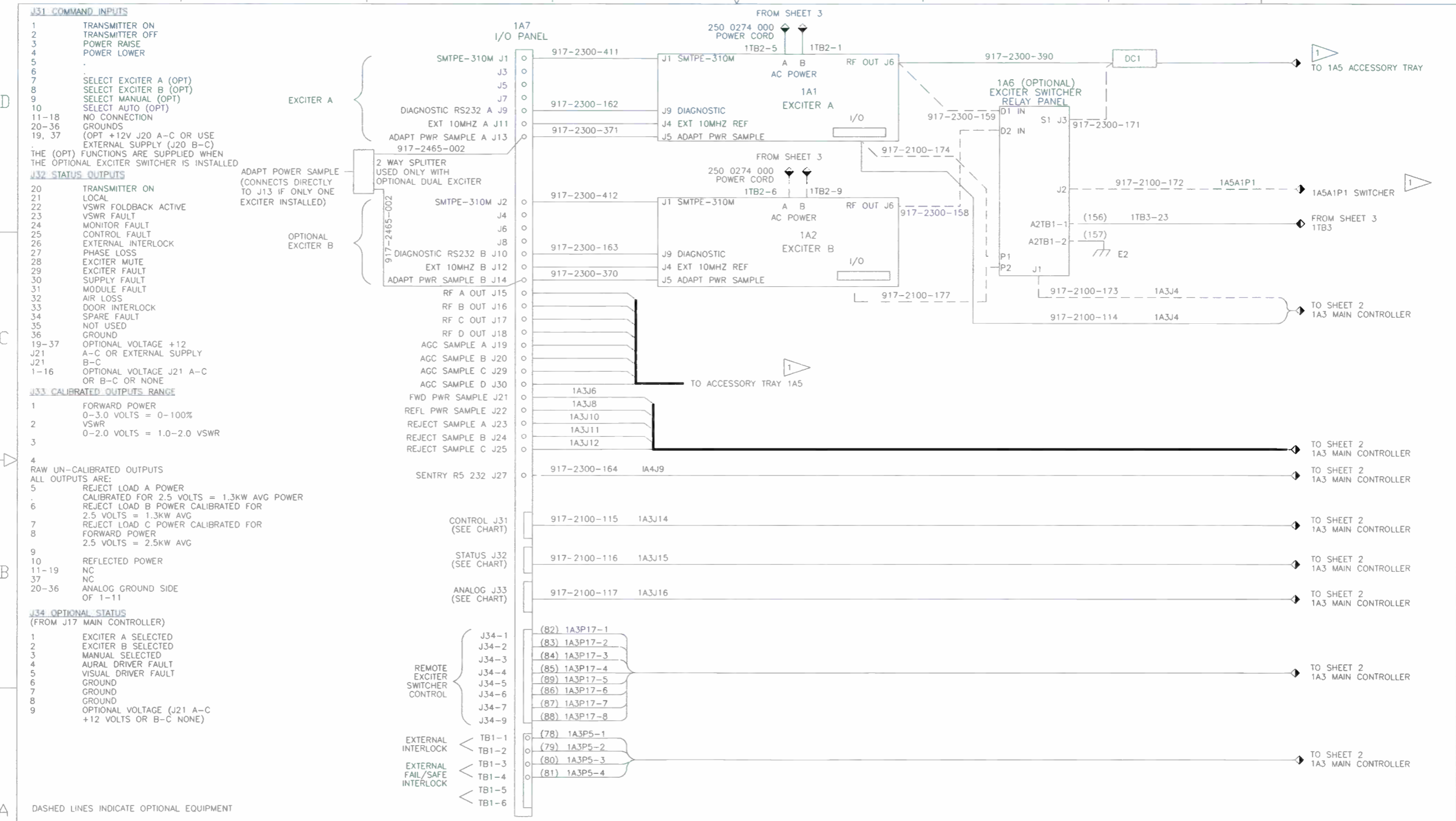
REV	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
1	D		12/99	CN	CN	P11927
CHANGE SHEET 2						
2	C		10-14-99	DN	DN	P10632
REVISE SHEET 2						

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DRAWN BY	DATE	TITLE
L WISEMAN	MAR 16, 99	WIRING DIAGRAM, 'PA' CABINET
ENG CHK C NEAL		
PROJ ENG C NEAL		
MFG ENG P LUFT		
D	SHEET 7 OF 7	DWG NO. 843 5275 209
		REV D



8
7
6
5
4
3
2
1

J31 COMMAND INPUTS
1 TRANSMITTER ON
2 TRANSMITTER OFF
3 POWER RAISE
4 POWER LOWER
5
6
7 SELECT EXCITER A (OPT)
8 SELECT EXCITER B (OPT)
9 SELECT MANUAL (OPT)
10 SELECT AUTO (OPT)
11-18 NO CONNECTION
20-36 GROUNDS
19, 37 (OPT +12V J20 A-C OR USE EXTERNAL SUPPLY (J20 B-C) THE (OPT) FUNCTIONS ARE SUPPLIED WHEN THE OPTIONAL EXCITER SWITCHER IS INSTALLED

J32 STATUS OUTPUTS
20 TRANSMITTER ON
21 LOCAL
22 VSWR FOLDBACK ACTIVE
23 VSWR FAULT
24 MONITOR FAULT
25 CONTROL FAULT
26 EXTERNAL INTERLOCK
27 PHASE LOSS
28 EXCITER MUTE
29 EXCITER FAULT
30 SUPPLY FAULT
31 MODULE FAULT
32 AIR LOSS
33 DOOR INTERLOCK
34 SPARE FAULT
35 NOT USED
36 GROUND
19-37 OPTIONAL VOLTAGE +12
J21 A-C OR EXTERNAL SUPPLY
J21 B-C
1-16 OPTIONAL VOLTAGE J21 A-C OR B-C OR NONE

J33 CALIBRATED OUTPUTS RANGE
1 FORWARD POWER
0-3.0 VOLTS = 0-100%
2 VSWR
0-2.0 VOLTS = 1.0-2.0 VSWR
3
4 RAW UN-CALIBRATED OUTPUTS
ALL OUTPUTS ARE:
5 REJECT LOAD A POWER
CALIBRATED FOR 2.5 VOLTS = 1.3KW AVG POWER
6 REJECT LOAD B POWER CALIBRATED FOR
2.5 VOLTS = 1.3KW AVG
7 REJECT LOAD C POWER CALIBRATED FOR
FORWARD POWER
2.5 VOLTS = 2.5KW AVG
9
10 REFLECTED POWER
11-19 NC
37 NC
20-36 ANALOG GROUND SIDE
OF 1-11

J34 OPTIONAL STATUS
(FROM J17 MAIN CONTROLLER)
1 EXCITER A SELECTED
2 EXCITER B SELECTED
3 MANUAL SELECTED
4 AURAL DRIVER FAULT
5 VISUAL DRIVER FAULT
6 GROUND
7 GROUND
8 GROUND
9 OPTIONAL VOLTAGE (J21 A-C +12 VOLTS OR B-C NONE)

ADAPT PWR SAMPLE (CONNECTS DIRECTLY TO J13 IF ONLY ONE EXCITER INSTALLED)
2 WAY SPLITTER USED ONLY WITH OPTIONAL DUAL EXCITER
917-2465-002

ADAPT PWR SAMPLE A J13
917-2465-002

ADAPT PWR SAMPLE B J14
917-2465-002

ADAPT PWR SAMPLE C J23
917-2465-002

ADAPT PWR SAMPLE D J24
917-2465-002

ADAPT PWR SAMPLE E J25
917-2465-002

ADAPT PWR SAMPLE F J26
917-2465-002

ADAPT PWR SAMPLE G J27
917-2465-002

ADAPT PWR SAMPLE H J28
917-2465-002

ADAPT PWR SAMPLE I J29
917-2465-002

ADAPT PWR SAMPLE J J30
917-2465-002

ADAPT PWR SAMPLE K J31
917-2465-002

ADAPT PWR SAMPLE L J32
917-2465-002

ADAPT PWR SAMPLE M J33
917-2465-002

ADAPT PWR SAMPLE N J34
917-2465-002

ADAPT PWR SAMPLE O J35
917-2465-002

ADAPT PWR SAMPLE P J36
917-2465-002

ADAPT PWR SAMPLE Q J37
917-2465-002

ADAPT PWR SAMPLE R J38
917-2465-002

ADAPT PWR SAMPLE S J39
917-2465-002

ADAPT PWR SAMPLE T J40
917-2465-002

ADAPT PWR SAMPLE U J41
917-2465-002

ADAPT PWR SAMPLE V J42
917-2465-002

ADAPT PWR SAMPLE W J43
917-2465-002

ADAPT PWR SAMPLE X J44
917-2465-002

ADAPT PWR SAMPLE Y J45
917-2465-002

ADAPT PWR SAMPLE Z J46
917-2465-002

ADAPT PWR SAMPLE AA J47
917-2465-002

ADAPT PWR SAMPLE AB J48
917-2465-002

ADAPT PWR SAMPLE AC J49
917-2465-002

ADAPT PWR SAMPLE AD J50
917-2465-002

ADAPT PWR SAMPLE AE J51
917-2465-002

ADAPT PWR SAMPLE AF J52
917-2465-002

ADAPT PWR SAMPLE AG J53
917-2465-002

ADAPT PWR SAMPLE AH J54
917-2465-002

ADAPT PWR SAMPLE AI J55
917-2465-002

ADAPT PWR SAMPLE AJ J56
917-2465-002

ADAPT PWR SAMPLE AK J57
917-2465-002

ADAPT PWR SAMPLE AL J58
917-2465-002

ADAPT PWR SAMPLE AM J59
917-2465-002

ADAPT PWR SAMPLE AN J60
917-2465-002

ADAPT PWR SAMPLE AO J61
917-2465-002

ADAPT PWR SAMPLE AP J62
917-2465-002

ADAPT PWR SAMPLE AQ J63
917-2465-002

ADAPT PWR SAMPLE AR J64
917-2465-002

ADAPT PWR SAMPLE AS J65
917-2465-002

ADAPT PWR SAMPLE AT J66
917-2465-002

ADAPT PWR SAMPLE AU J67
917-2465-002

ADAPT PWR SAMPLE AV J68
917-2465-002

ADAPT PWR SAMPLE AW J69
917-2465-002

ADAPT PWR SAMPLE AX J70
917-2465-002

ADAPT PWR SAMPLE AY J71
917-2465-002

ADAPT PWR SAMPLE AZ J72
917-2465-002

ADAPT PWR SAMPLE BA J73
917-2465-002

ADAPT PWR SAMPLE BB J74
917-2465-002

NOTES
1 SEE SCHEMATIC CHART ON SHEET 3 FOR CORRECT MODEL SCHEMATIC FOR RF CABLING

REVISION
LTR ZONE DATE DFTM ENG ECO NBR
F . 9-13-00 DED DED 46418
REVISE SHEET 3
G . 4-9-01 JPK . 47115
ADD 2 WAY SPLITTER

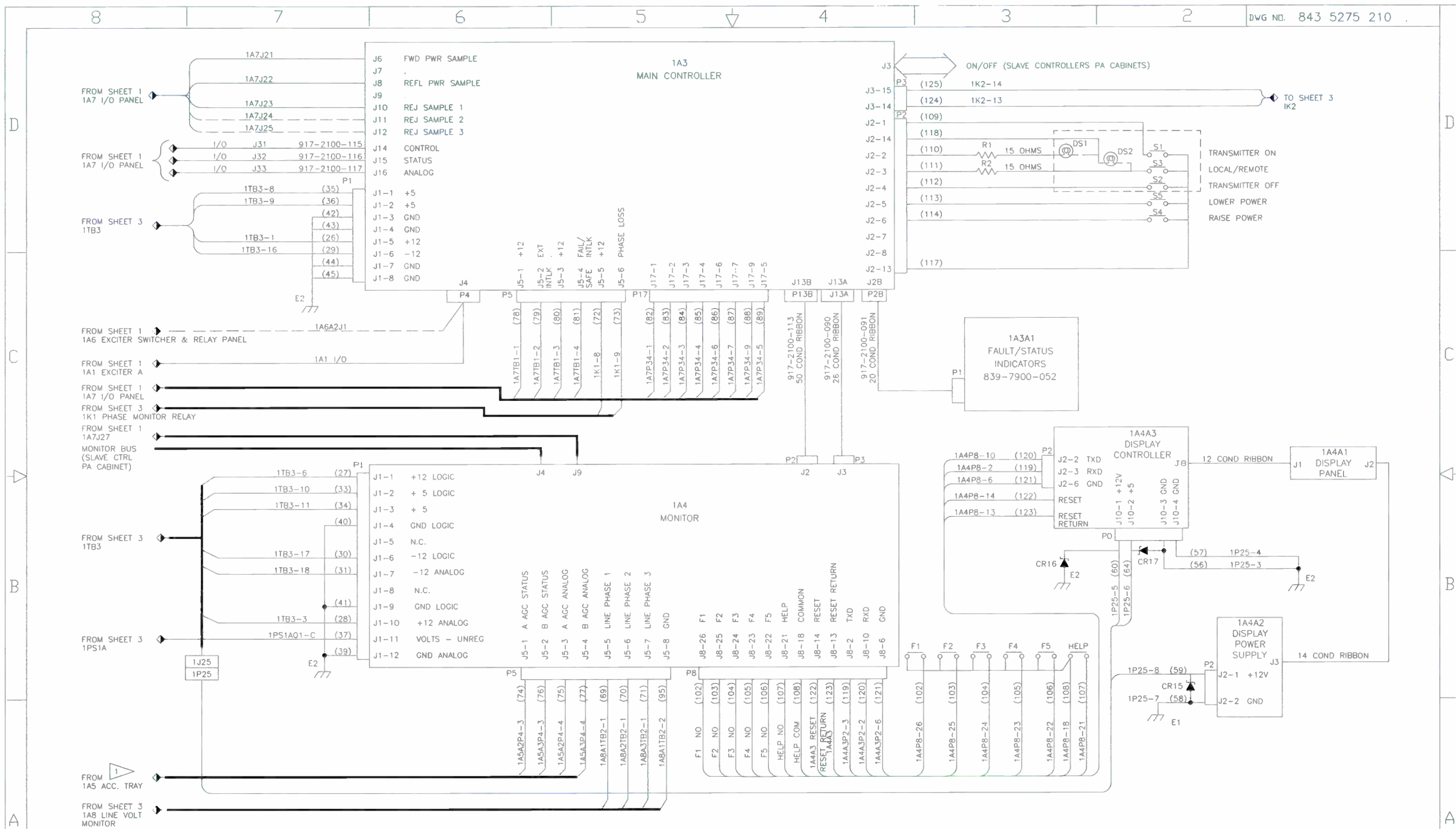
HARRIS CORPORATION
BROADCAST COMMUNICATIONS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY L WISEMAN
DATE MAR 19, 99
ENG CHK C NEAL
PROJ ENG C NEAL
MFG ENG P LUFT
D SHEET 1 OF 3

TITLE
WIRING DIAGRAM, CONTROL CABINET
DIGITAL VHF

DWG NO. 843 5275 210
REV G

THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.



NOTES

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
F			9-13-00	DED	DED	46418
REVISE SHEET 3						
G			4-9-01	JPK		47115
CHG SHEET 1						

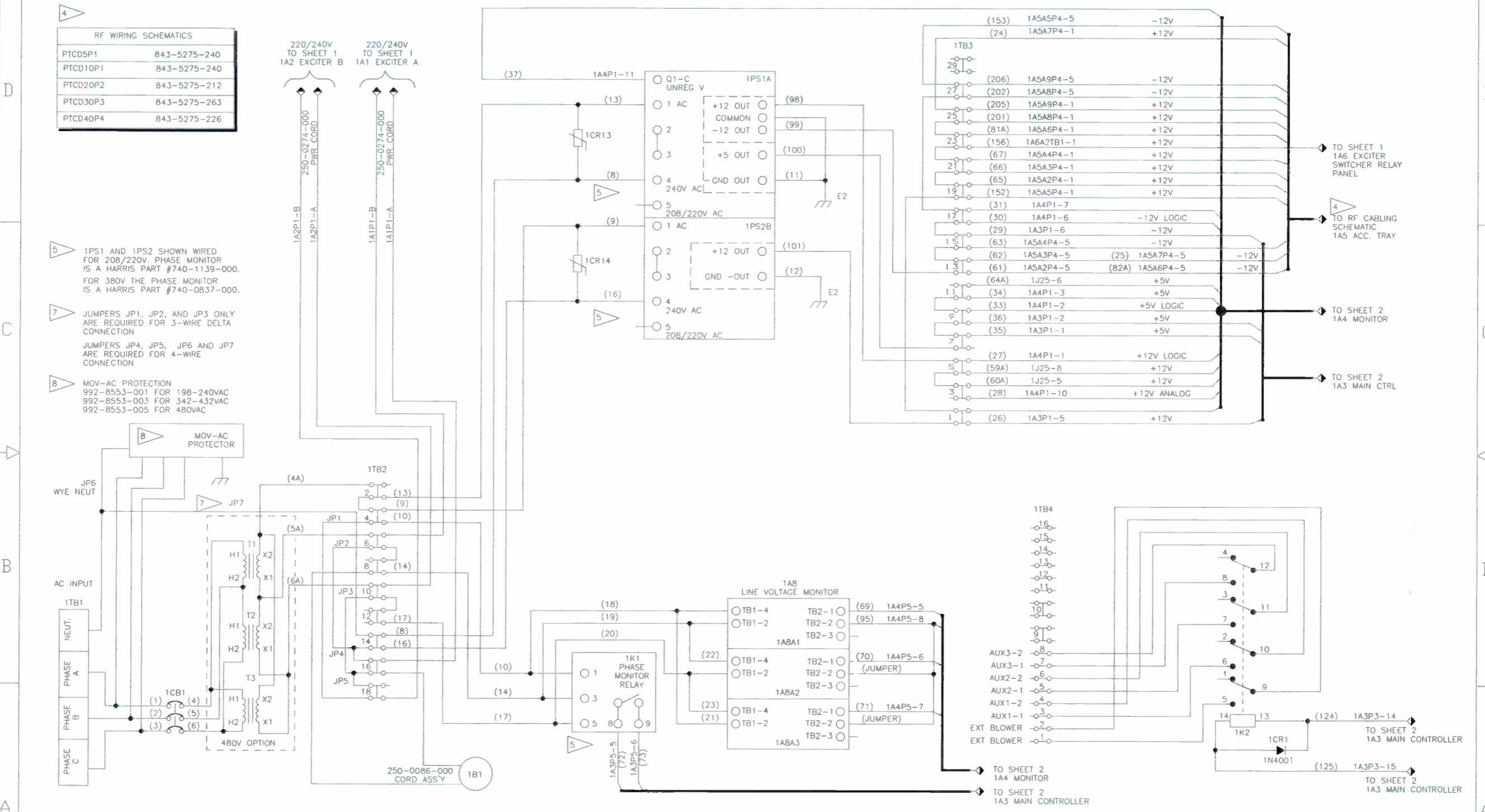
HARRIS CORPORATION
 BROADCAST COMMUNICATIONS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRAWN BY	L WISEMAN	TITLE	WIRING DIAGM, CONTROL CABINET
DATE	MAR 19, 99		DIGITAL VHF
ENG CHK	C NEAL		
PROJ	C NEAL		
ENG	C NEAL		
MFG	P LUFT		
ENG			
D	SHEET 2 OF 3	DWG NO.	843 5275 210
		REV	G

RF WIRING SCHEMATICS	
PTCD5P1	843-5275-240
PTCD10P1	843-5275-240
PTCD20P2	843-5275-212
PTCD30P3	843-5275-263
PTCD40P4	843-5275-226

- 5 1PS1 AND 1PS2 SHOWN WIRED FOR 208/220V. PHASE MONITOR IS A HARRIS PART #740-1139-000. FOR 380V THE PHASE MONITOR IS A HARRIS PART #740-0837-000.
- 7 JUMPERS JP1, JP2, AND JP3 ONLY ARE REQUIRED FOR 3-WIRE DELTA CONNECTION
JUMPERS JP4, JP5, JP6 AND JP7 ARE REQUIRED FOR 4-WIRE CONNECTION
- 8 MOV-AC PROTECTION
992-8553-001 FOR 198-240VAC
992-8553-003 FOR 342-432VAC
992-8553-005 FOR 480VAC



- NOTES
- 6 GNDS E1- 83, 84, 85, 154, 155
GNDS E1 - 46A, 89, 90, 91, 92, 203, 204, 207, 208
GNDS E2 - 11, 12, 39, 40, 41, 42, 43, 44, 45, 56A, 57A, 58A, 157

REV	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
1	F	.	9-13-00	DED	DED	46418
2	G	.	4-9-01	JPK	.	47115

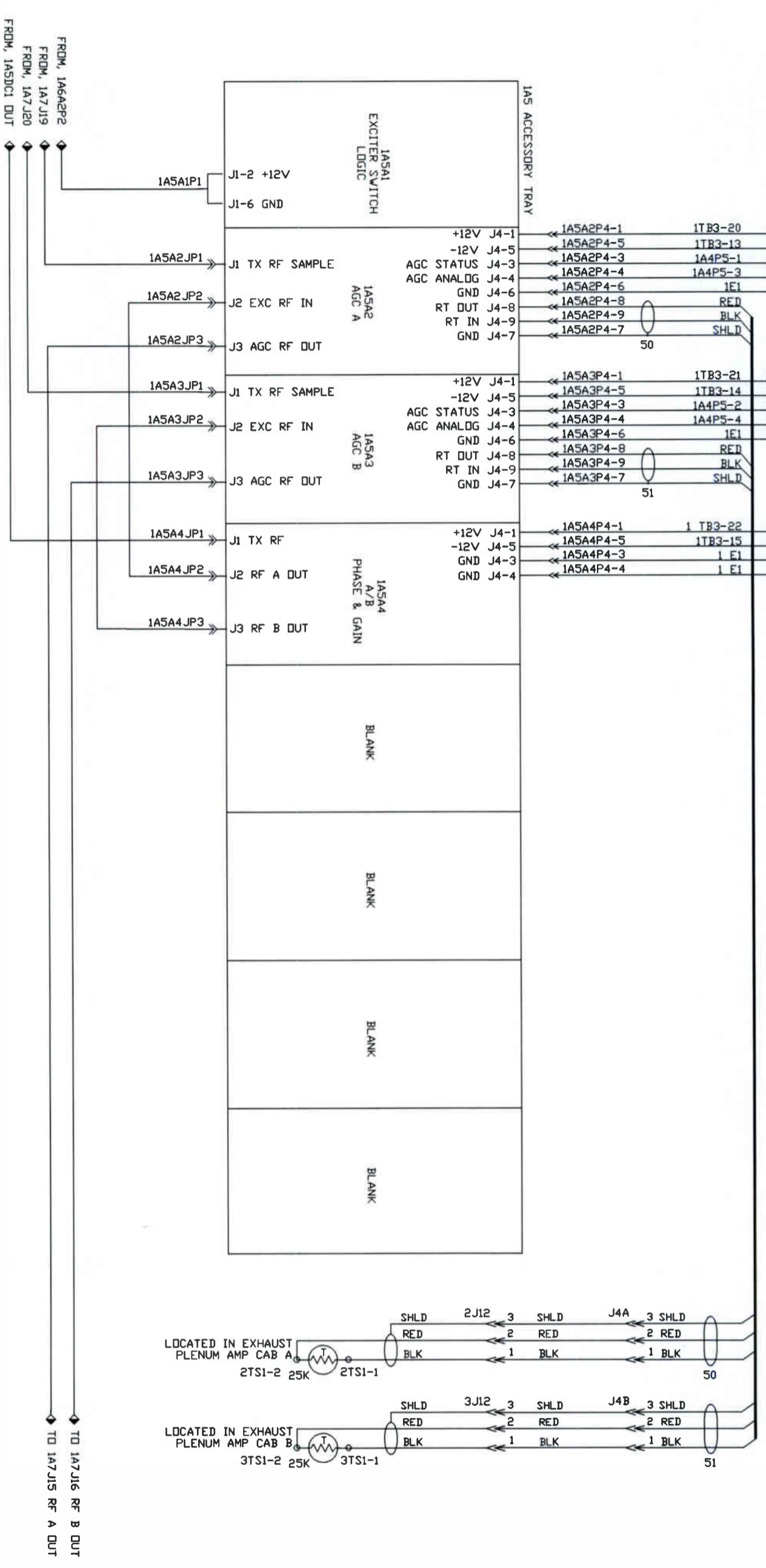
DELETE WIRE 32A FROM 1TB3-7
REVISE SHEET 1

HARRIS
HARRIS CORPORATION
BROADCAST COMMUNICATIONS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

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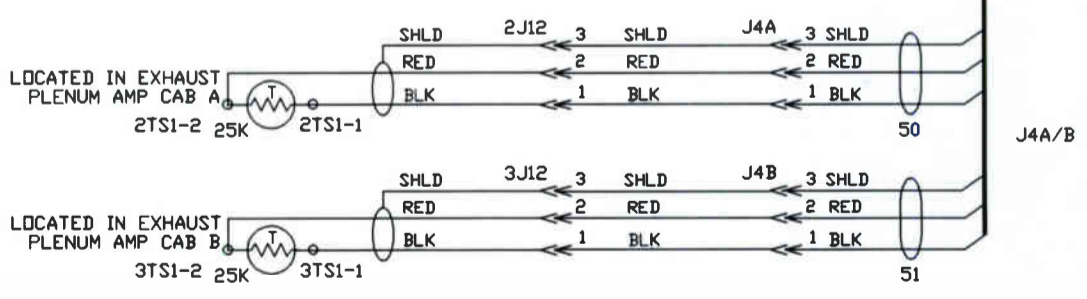
DRAWN BY L WISEMAN	TITLE WIRING DIAGM, CONTROL CABINET DIGITAL VHF
DATE MAR 19, 99	
ENG CHK C NEAL	
PROJ C NEAL	
MFG P LUFT	
ENG	
D SHEET 3 OF 3	DWG NO. 843 5275 210
	REV G

SEE WIRING DIAG CONTROL CABINET 843-5275-210

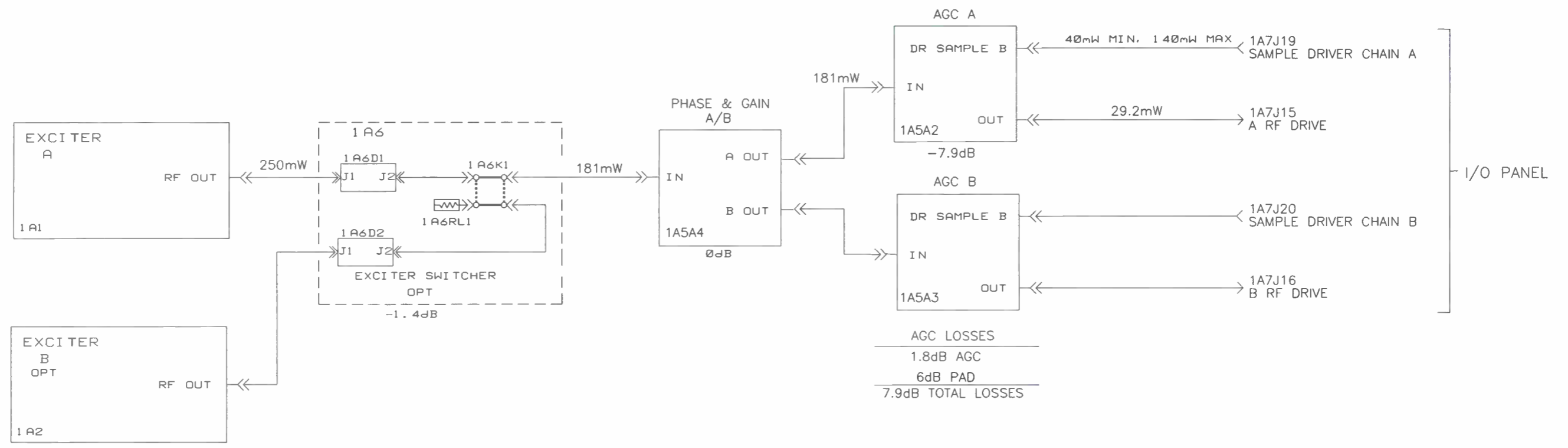


ACCESSORY TRAY (FRONT VIEW)

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10
----	----	----	----	----	----	----	----	----	-----



NOTES											
REV	LTR	ZONE	DATE	DFTM	ENG	ECD	NBR	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305			TITLE
B			JAN 26, 2000	SEC	SEC		P11526	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305			RF WIRING DIAGRAM CONTROL CABINET PTC020P2
ADDED WIRE NUMBERS											
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D	BY	DATE	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305								REV
	DRN	4-26-99	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305								B
	ENG	NICKELL	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305								
	ENG	NEAL	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305								
	ENG	CDRNEWELL	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305								
	SHEET	1	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305								
	OF	1	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305								
	DWG	843-5275-212	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305								
	REV	B	HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305								



ACCESSORY TRAY 1A5 LOCATIONS

1A5A1	1A5A2	1A5A3	1A5A4	1A5A5	1A5A6	1A5A7	1A5A8	1A5A9	1A5A10
-------	-------	-------	-------	-------	-------	-------	-------	-------	--------

NOTES

LTR	ZONE	DATE	DFTM	ENG	ECD NBR
A	NEW DWG



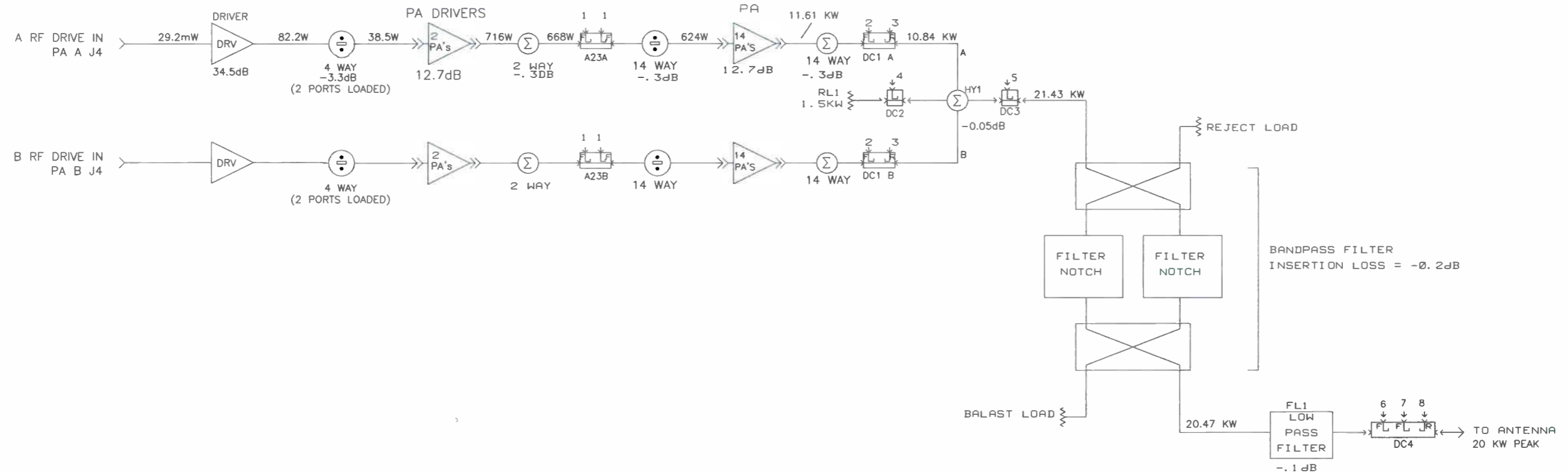
HARRIS CORPORATION
 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRAWN BY	NICKELL
DATE	5-20-99
ENG CHK	NEAL
PROJ ENG	NEAL
MFG ENG	CORNWELL
D	SHEET 1 of 2

TITLE	BLOCK DIAGRAM RF FLOW PTC20P2 HIGHBAND
DWG NO.	843 5275 213
REV	A

PART NUMBER	MODULE FUNCTION	POWER RATING	GAIN dB
992-7182-XXX	DRIVER	100W	35 +/-0.5
992-8969-XXX	PA	1050W	13.2 +/-0.5



RF SAMPLE POINT USAGE

- 8 = COMBINED REFLD PWR
- 7 = COMBINED & FILTERED FWD SAMPLE
- 6 = COMBINED FWD PWR
- 5 = COMBINED FWD SAMPLE
- 4 = A/B REJECT PWR
- 3 = PA REFLD PWR
- 2 = PA FWD POWER
- 1 = DRIVER CHAIN

NOTES

REV	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
A	NEW DWG

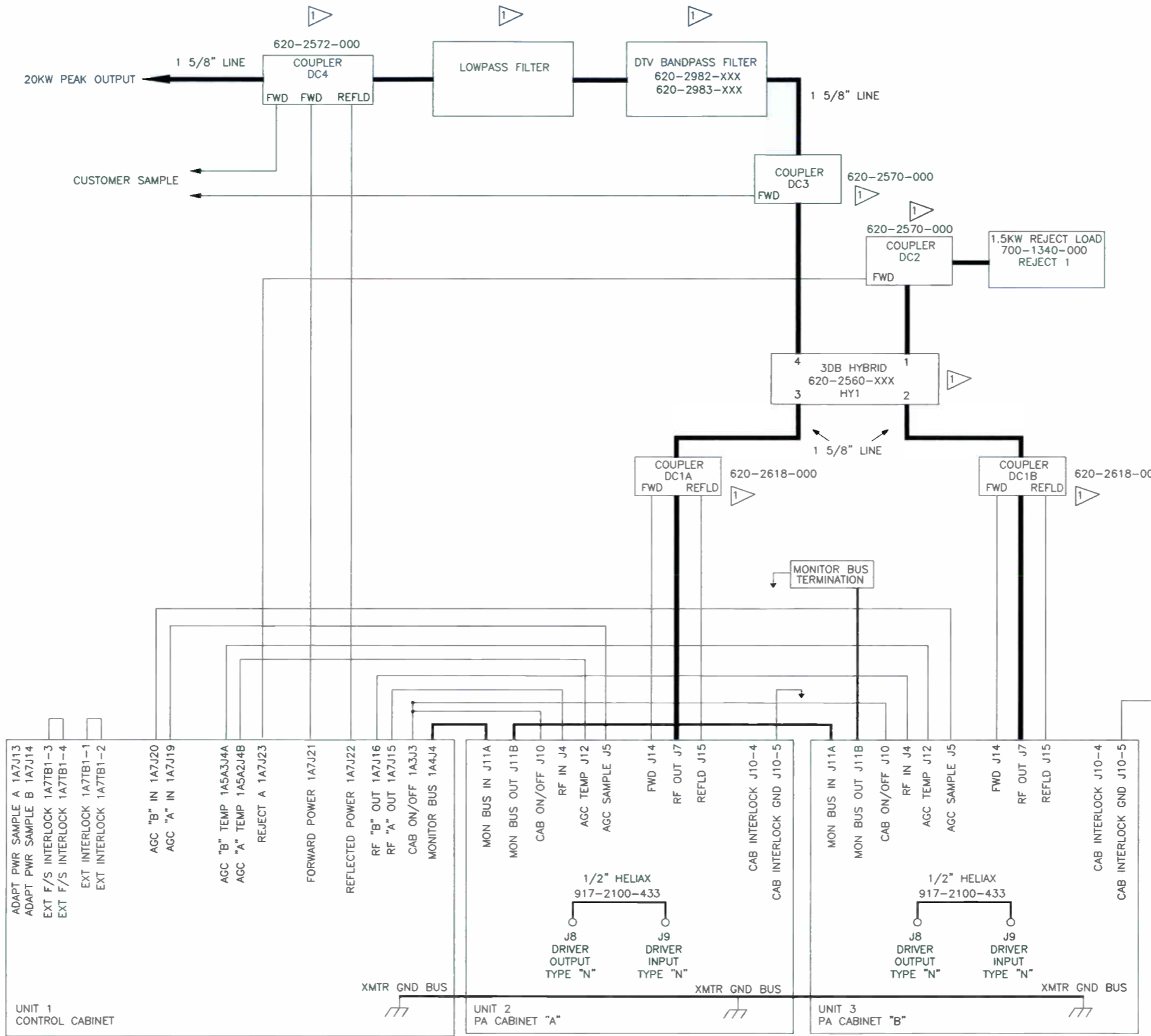


HARRIS CORPORATION
 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	NICKELL
DATE	5-20-99
ENG CHK	NEAL
PROJ ENG	NEAL
MFG ENG	CORNWELL
D	SHEET 2 OF 2

TITLE	BLOCK DIAGRAM
	RF FLOW PTCD20P4
	HIGHBAND
DWG NO.	843 5275 213
REV	A

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NOTES
 1 INDICATES CHANNEL DEPENDENT COMPONENT

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
	A



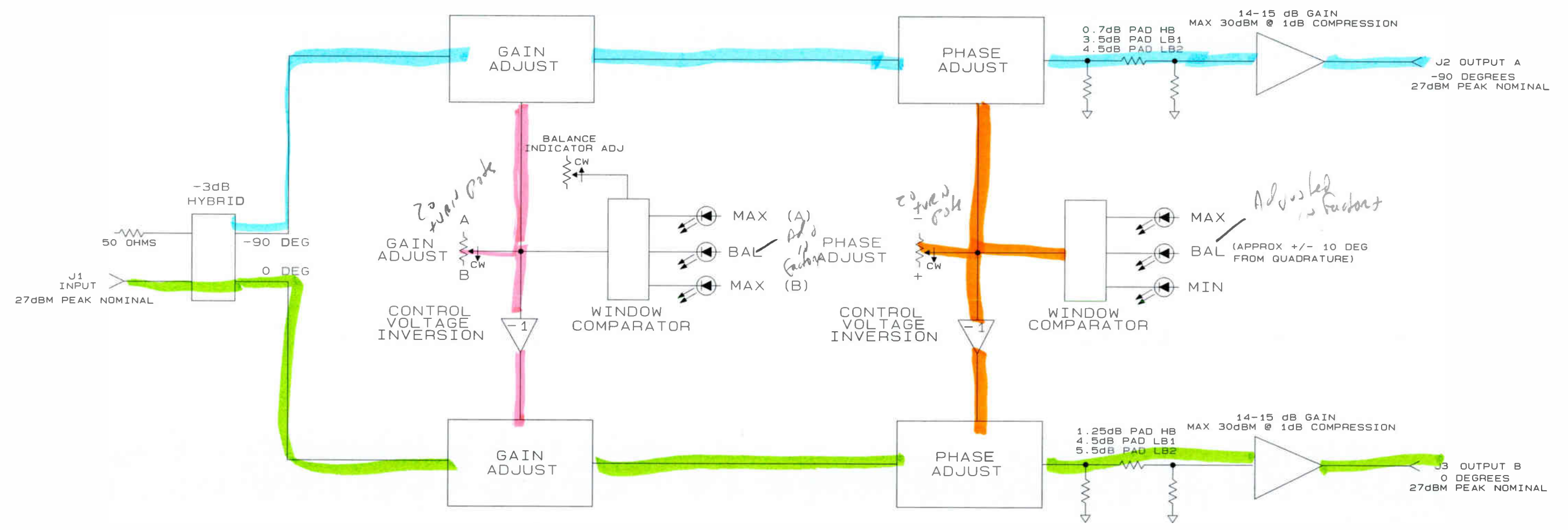
HARRIS CORPORATION
 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

DRAWN BY	NICKELL
DATE	5-20-99
ENG CHK	NICKELL
PROJ ENG	NEAL
MFG ENG	CORNWELL
D	SHEET 1 OF 1

TITLE
 DIAGRAM, INTERCONNECT
 PTCD20P2

DWG NO. 843 5275 214 . REV A

unity gain

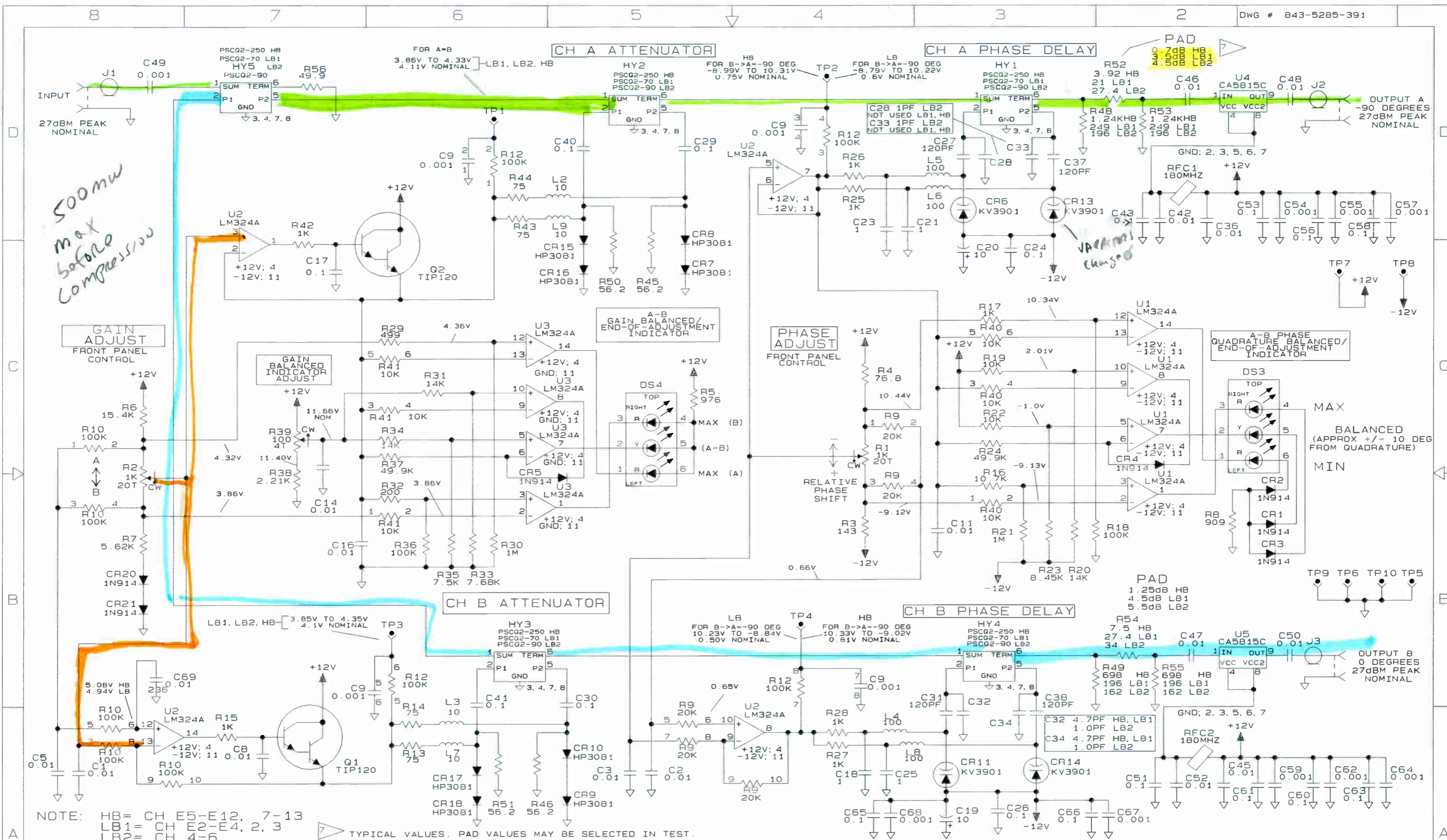


NOTE: HB= CH E5-E12, 7-13
 LB1= CH E2-E4, 2, 3
 LB2= CH 4-6

NOTES	4. INDUCTANCE IN UH.	6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.
	3. CAPACITANCE IN UF.	
	2. RESISTANCE IN OHMS.	
	1. ALL RESISTORS ARE 1/2 WATT, 1%.	
UNLESS OTHERWISE NOTED:		SHEET NUMBER ZONE [2/A1] CONTINUATION SYMBOL

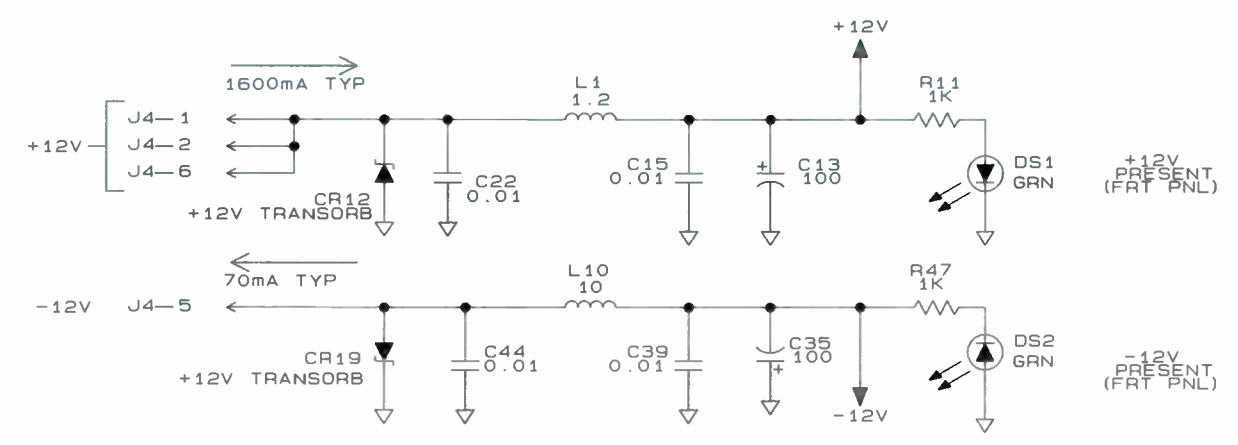
REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
	C		7-3-97	BJL	JPK	41874
	ADD C69 SHEET 2					
	D		1-29-98	DFD	DFD	42267
REVISE SHEET 2						

HARRIS	HARRIS CORPORATION		DRAWN BY JPK DATE 25 JAN 96 ENG CHK JPK PRD J KELLER MFG ENG D MYERS	TITLE
	BROADCAST SYSTEMS P.O. BOX 4290 QUINCY, ILLINOIS 62305			SCH. VHF PHASE & GAIN
THIS DOCUMENT CONTAINS PROPRIETARY DATA OF HARRIS CORPORATION. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THEREOF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.			DWG # B43-5285-391 SHEET 1 OF 3	REV D



NOTES	4. INDUCTANCE IN UH.	6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.	REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NUM	HARRIS CORPORATION BROADCAST SYSTEMS P.O. BOX 4290 QUINCY, ILLINOIS 62305	DRAWN BY JPK DATE 25 JAN 96 ENG JPK PROJ ENG J KELLER MFG ENG D MYERS	TITLE SCH, VHF PHASE & GAIN DWG 843-5285-391 #
	3. CAPACITANCE IN UF.										SHEET NUMBER ZONE [2/A1] CONTINUATION SYMBOL	REV D
	2. RESISTANCE IN OHMS.											
	1. ALL RESISTORS ARE 1/2 WATT, 1%.											

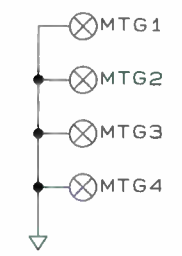
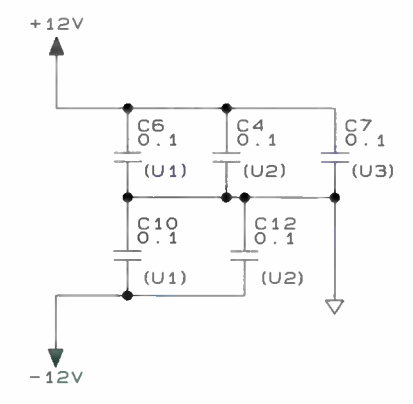
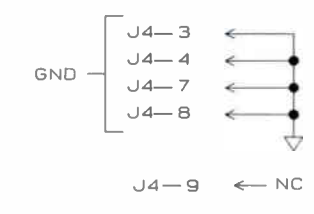
8 7 6 5 4 3 2



+12V PRESENT (FRONT PNL)

-12V PRESENT (FRONT PNL)

ch's dual output supply



4. INDUCTANCE IN UH.
 3. CAPACITANCE IN UF.
 2. RESISTANCE IN OHMS.
 1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

5. SHEET NUMBER ZONE [2/A1] CONTINUATION SYMBOL

UNLESS OTHERWISE NOTED:

REV	DATE	BY	CHK	ENG	ECO NUM
D	10-29-98	DFD	DFD		42267
REV SHEET 2					
B	08-27-96	MAB	MAB		41331
REV TITLE					

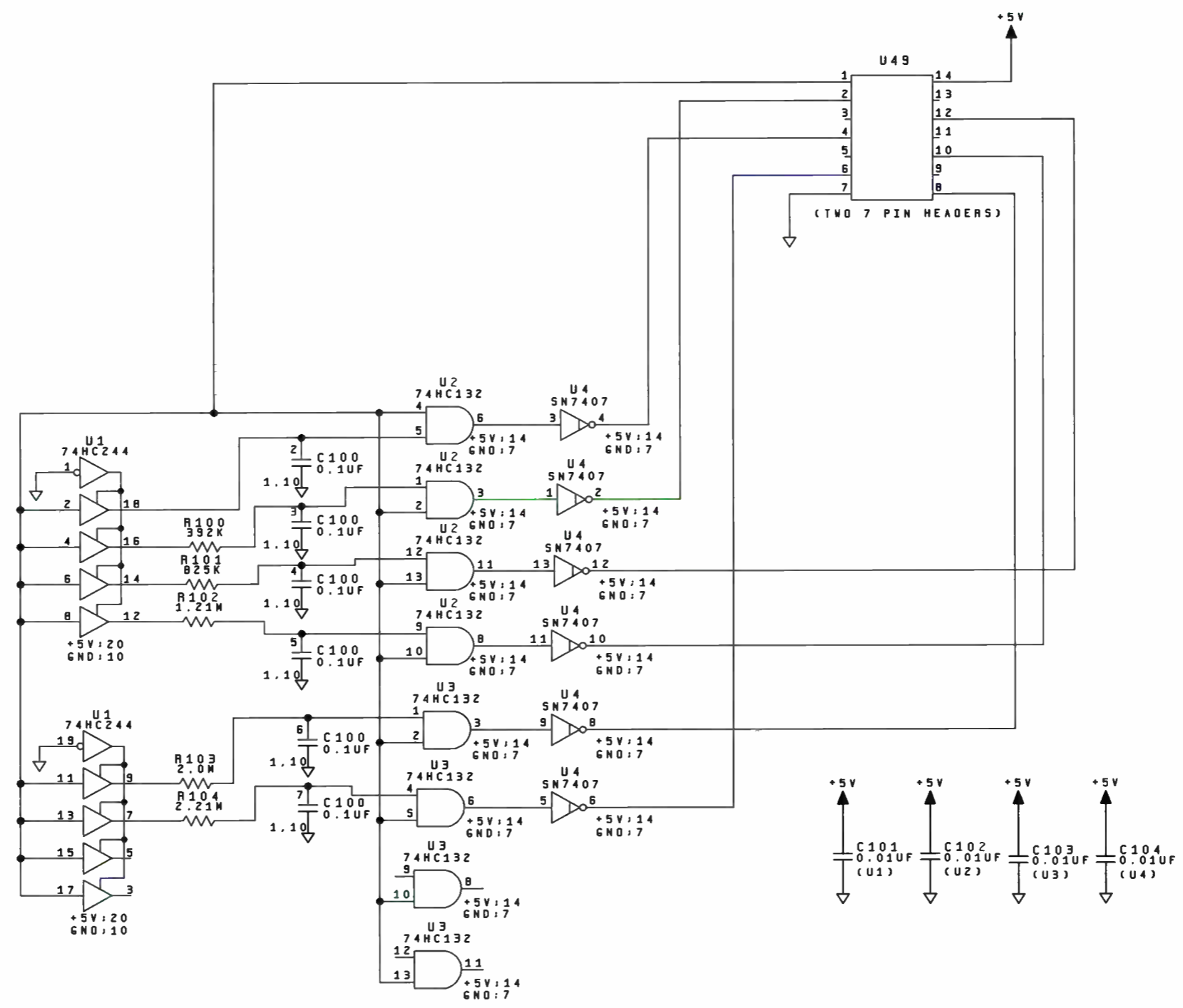
HARRIS
 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRWN BY	JPK	TITLE	SCH. VHF PHASE & GAIN	
DATE	25 JAN 96	DWG #	843-52B5-391	REV D
ENG	JPK			
PRGJ	J KELLER			
MFG	D MYERS			
ENG				
SHEET 3 OF 3				

8 7 6 5 4 3 2 1

U49 DAUGHTER BOARD
PROVIDES STAGGERED CABINET ON COMMAND



NOTES
4. INDUCTANCE IN UH.
3. CAPACITANCE IN UF.
2. RESISTANCE IN OHMS.
1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.
5. SHEET NUMBER ZONE (2/A1) CONTINUATION SYMBOL

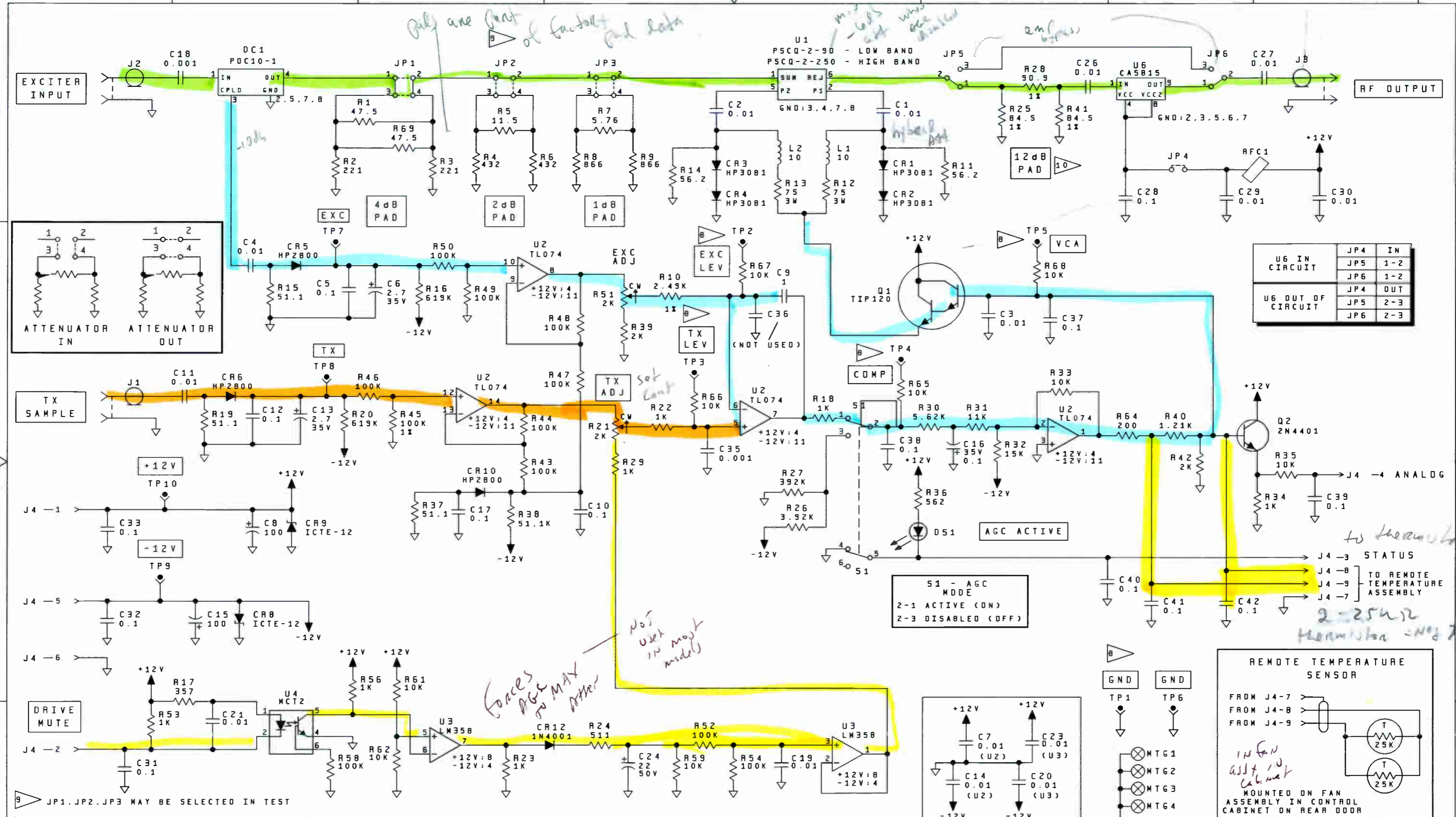
LTR	ZONE	DATE	OFTM	ENG	ECO NUM
0		5-31-01	JPK	.	47310
CHG VALUE: R100 THRU R104					
C		6-1-00	JPK	.	P1352S
U2/U3 WAS 74HC0B; U4 WAS 7406; CHG U49					

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BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

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DRAWN BY	A DELEON
DATE	06-03-99
ENG	A DELEON
PROJ ENG	A DELEON
HFC ENG	A DELEON
REV	D
SHEET	1 OF 1

TITLE	SCHEMATIC MAIN CONTROLLER ON COMMAND DELAY	
DWG #	843-5400-411	REV D



NOTES

1. ALL RESISTORS ARE 1/2 WATT, 1%.
2. RESISTANCE IN OHMS.
3. CAPACITANCE IN UF.
4. INDUCTANCE IN UH.
5. SHEET NUMBER ZONE
6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

UNLESS OTHERWISE NOTED.

CONTINUATION SYMBOL (Z/A1)

REV	DATE	BY	CHK	ENG	ECD NUM
1	2-13-01	JPK			46898
2	10-28-99	JPK			45088

C36 LABELED AS 'NOT USED'

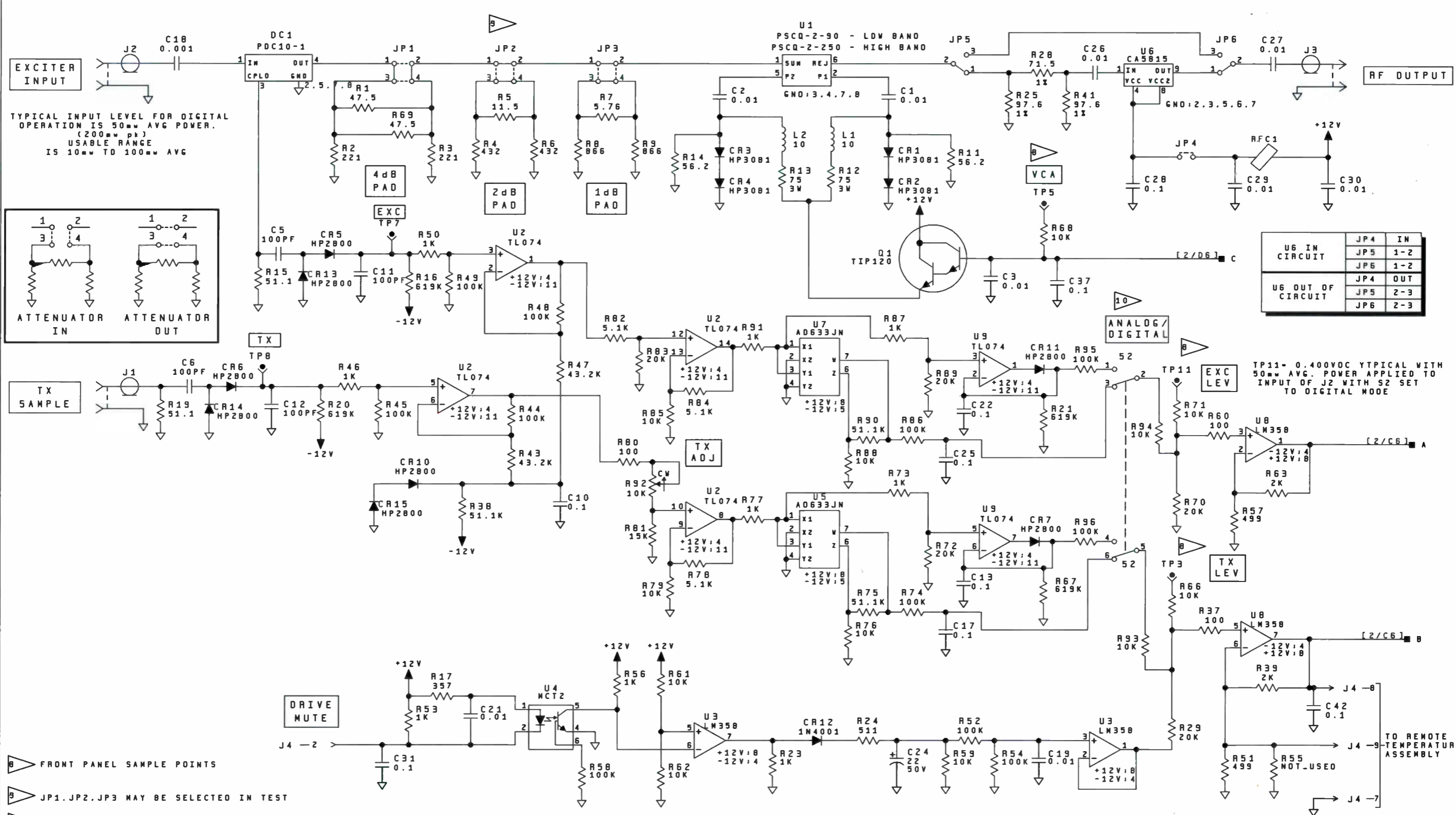
CHG R25, R28, R41 TO SELECT IN TEST

HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

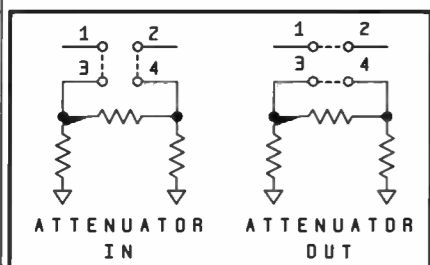
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DRAWN BY	R BEEVER	TITLE	SCHEMATIC, AGC
DATE	03-27-95	DWG #	B43-5460-081
ENG	R BEEVER	REV	K
PROJ	C NEAL		
ENG	D MYERS		
RF			
ENG			

SHEET 1 of 1



TYPICAL INPUT LEVEL FOR DIGITAL OPERATION IS 50mw AVG POWER. (200mw pk) USABLE RANGE IS 10mw TO 100mw AVG



U6 IN CIRCUIT	JP4	IN
	JP5	1-2
	JP6	1-2
U6 OUT OF CIRCUIT	JP4	OUT
	JP5	2-3
	JP6	2-3

TP11- 0.400VOC YTPICAL WITH 50mw AVG. POWER APPLIED TO INPUT OF J2 WITH S2 SET TO DIGITAL MODE

8 FRONT PANEL SAMPLE POINTS

9 JP1, JP2, JP3 MAY BE SELECTED IN TEST

10 DIGITAL - S2 TO LEFT (POSITIONS 2-3 AND 5-6)
ANALOG - S2 TO RIGHT (POSITIONS 1-2 AND 4-5)

NOTES
4. INDUCTANCE IN UH.
3. CAPACITANCE IN UF.
2. RESISTANCE IN OHMS.
1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.

5. SHEET NUMBER ZONE (2/A1) CONTINUATION SYMBOL

UNLESS OTHERWISE NOTED.

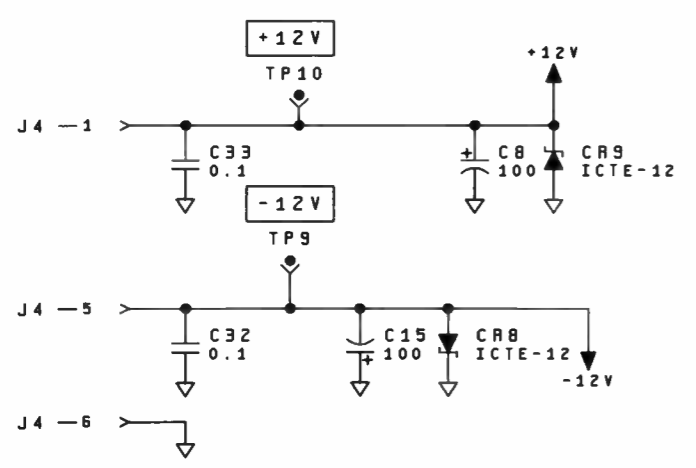
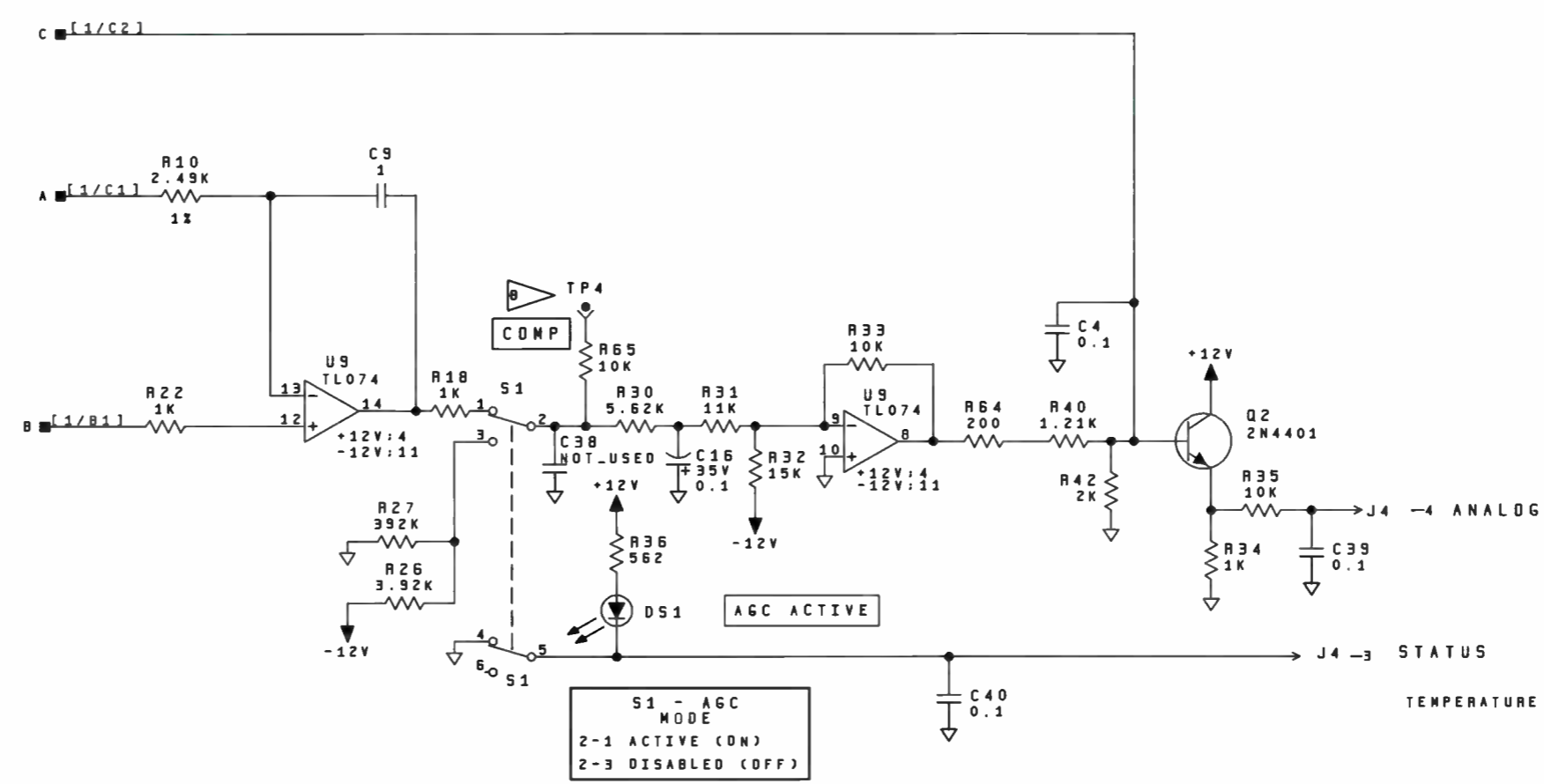
REV	DATE	ENG	ECO NUM
E	7/25/01	RLB	47321
O	11-20-00	RLB	46587

DELETE CR16, CR17 ADD C4
ADD NOTES REVISE VALUES OF R92 AND R57

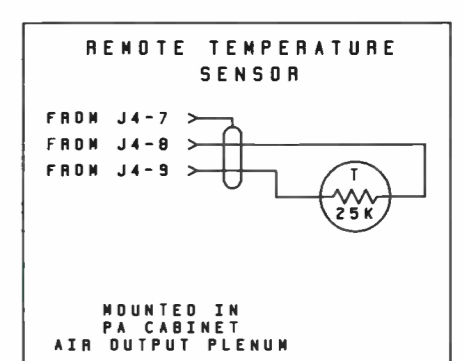
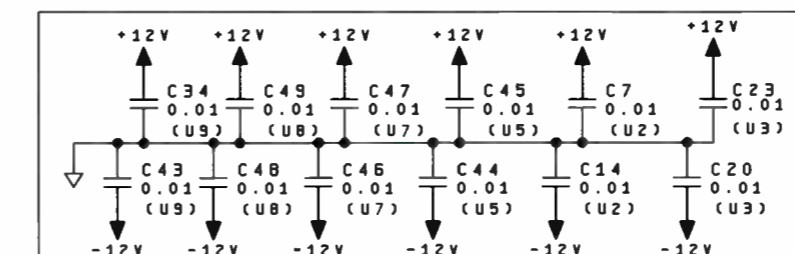
HARRIS
HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

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DRAWN BY	O. DAVISON	TITLE	SCHEMATIC, AGC
DATE	4-9-99	ENG	O. BOROUDIN
PROJ	O. BOROUDIN	RF	O MYERS
REV	1 OF 2	OWG #	843-5460-171
		REV	E



S1 - AGC MODE
 2-1 ACTIVE (ON)
 2-3 DISABLED (OFF)



NOTES
 4. INDUCTANCE IN UH.
 3. CAPACITANCE IN UF.
 2. RESISTANCE IN OHMS.
 1. ALL RESISTORS ARE 1/2 WATT, 1%.

6. 5% RESISTORS MAY BE SUBSTITUTED FOR ANY RESISTOR UNLESS LABELED 1% ON THIS DOCUMENT.
 5. SHEET NUMBER ZONE (2/A1) CONTINUATION SYMBOL

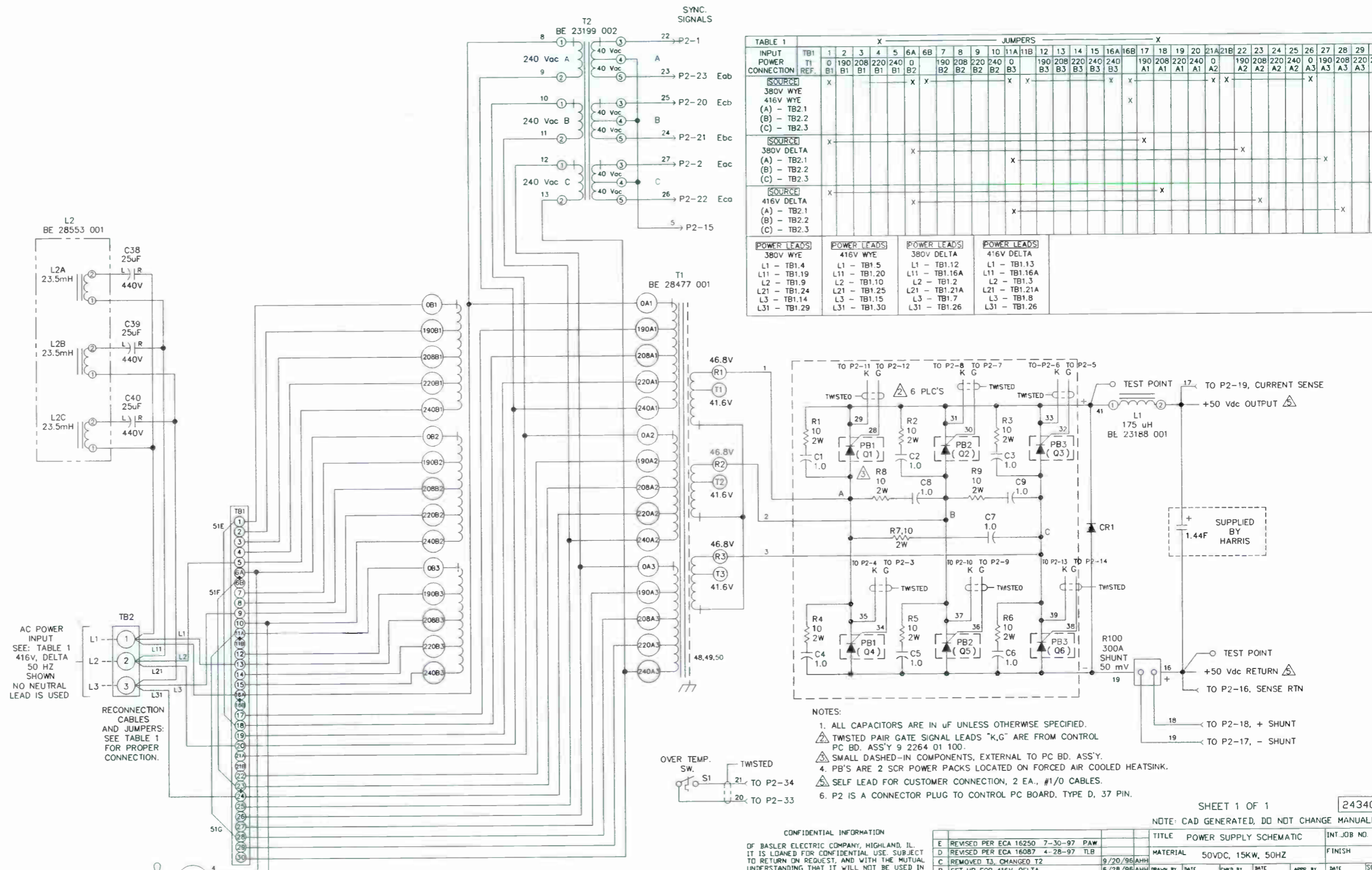
REV	LTR	ZONE	DATE	DFTM	ENG	ECO NUM
E			7/25/01	RLB	RLB	47321
ADD C4						
D			11-20-00	RLB	RLB	46587
NO CHANGE						

HARRIS
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 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

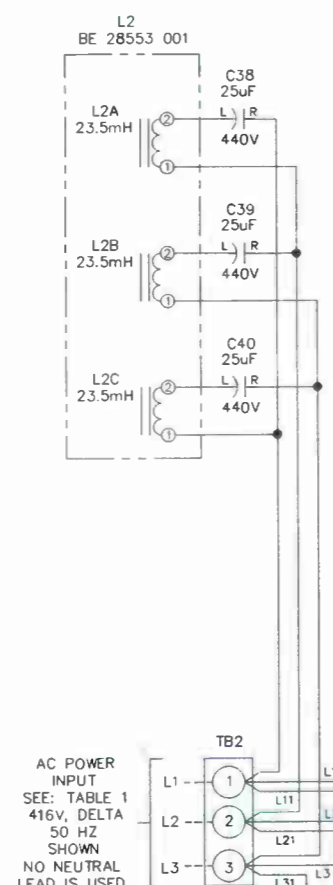
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DRAWN BY D. DAVIDSON
 DATE 4-9-99
 ENG CHK D. BORDDULIN
 PRGJ ZEG D. BORDDULIN
 HPG ENG D. MYERS
 SHEET 2 OF 2

TITLE
 SCHEMATIC, AGC
 DWG # 843-5460-171
 REV E

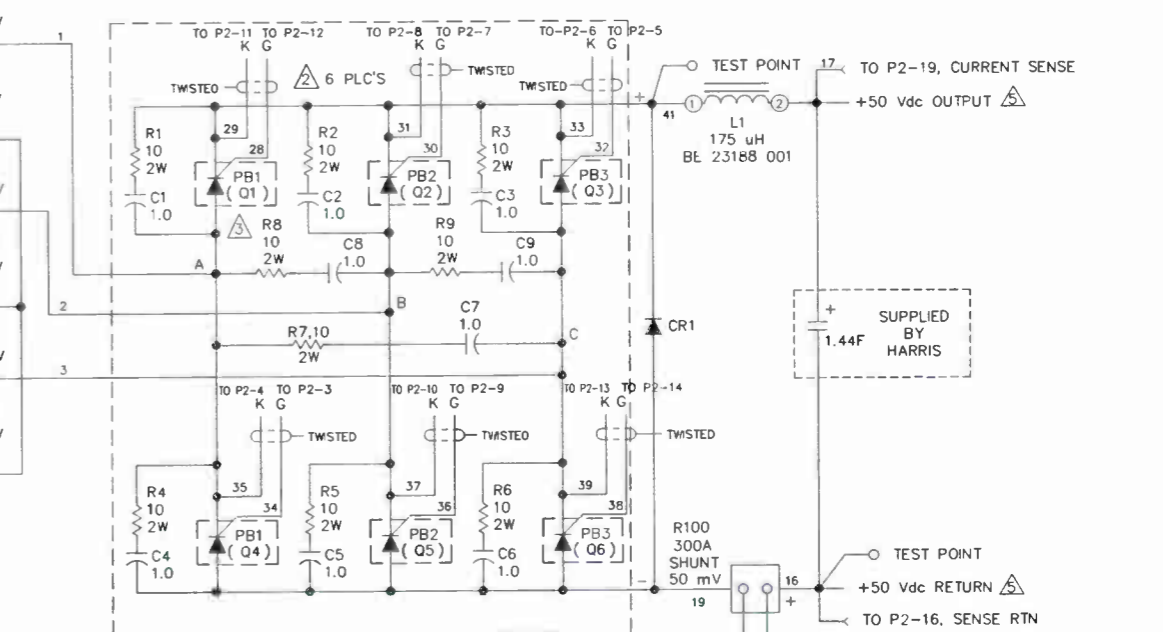


INPUT POWER CONNECTION	JUMPERS																																				
	1	2	3	4	5	6A	6B	7	8	9	10	11A	11B	12	13	14	15	16A	16B	17	18	19	20	21A	21B	22	23	24	25	26	27	28	29	30			
380V WYE (A) - TB2.1 (B) - TB2.2 (C) - TB2.3	X					X	X						X	X				X	X																		
380V DELTA (A) - TB2.1 (B) - TB2.2 (C) - TB2.3		X					X							X					X								X										
416V DELTA (A) - TB2.1 (B) - TB2.2 (C) - TB2.3	X					X								X					X								X										



AC POWER INPUT
SEE: TABLE 1
416V, DELTA
50 HZ
SHOWN
NO NEUTRAL
LEAD IS USED

RECONNECTION
CABLES
AND JUMPERS:
SEE TABLE 1
FOR PROPER
CONNECTION.



- NOTES:
- ALL CAPACITORS ARE IN uF UNLESS OTHERWISE SPECIFIED.
 - TWISTED PAIR GATE SIGNAL LEADS "K,G" ARE FROM CONTROL PC BD. ASS'Y 9 2264 01 100.
 - SMALL DASHED-IN COMPONENTS, EXTERNAL TO PC BD. ASS'Y.
 - PB'S ARE 2 SCR POWER PACKS LOCATED ON FORCED AIR COOLED HEATSINK.
 - SELF LEAD FOR CUSTOMER CONNECTION, 2 EA., #1/0 CABLES.
 - P2 IS A CONNECTOR PLUG TO CONTROL PC BOARD, TYPE D, 37 PIN.

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E	REVISED PER ECA 16250 7-30-97 PAW				
D	REVISED PER ECA 16087 4-28-97 TLB				
C	REMOVED T3, CHANGED T2	9/20/96/AHH			
B	SET UP FOR 416V, DELTA	6/28/96/AHH			
A	CHANGED TABLE 1	6/19/96/AHH			

SHEET 1 OF 1
NOTE: CAD GENERATED, DO NOT CHANGE MANUALLY.

NOTES	LTR	ZONE	DATE	DFTM	ENG	ECO NBR		HARRIS CORPORATION BROADCAST DIVISION P.O. BOX 4290 QUINCY, ILLINOIS 62305	TITLE SCHEM, POWER SUPPLY 50VDC 380V 50HZ	INT JOB NO FINISH
	E					NEWDWG				
	F		9 MAR 98			KWB				

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DRAWN BY B BEEVER DATE 8-6-97	TITLE SCHEM, POWER SUPPLY 50VDC 380V 50HZ
ENG CHK B BEEVER	INT JOB NO 2434002
PROJ R PLONKA	MATERIAL 50VDC, 15KW, 50HZ
MFG -	FINISH -
SHEET 1 OF 1	DWG NO. 843-5497-001
	REV F

*Inductor filter
Harmonic suppression
can burn up
if incoming power
is NOT clean*

*Have wiring
reference*

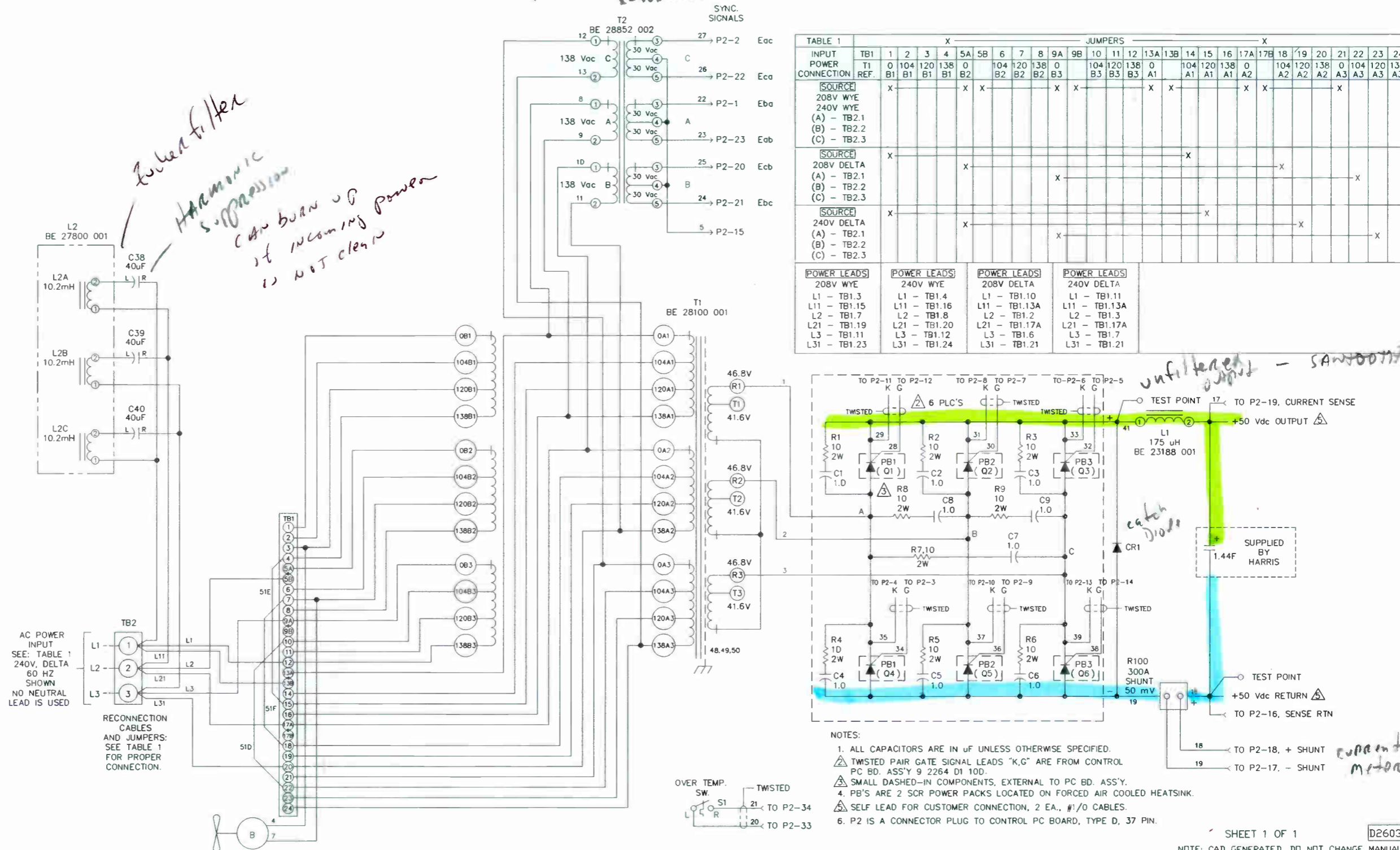


TABLE 1		JUMPERS																											
INPUT POWER CONNECTION	T1 REF.	1	2	3	4	5A	5B	6	7	8	9A	9B	10	11	12	13A	13B	14	15	16	17A	17B	18	19	20	21	22	23	24
SOURCE 208V WYE 240V WYE (A) - TB2.1 (B) - TB2.2 (C) - TB2.3	X					X	X				X	X				X	X			X	X					X			
SOURCE 208V DELTA (A) - TB2.1 (B) - TB2.2 (C) - TB2.3	X							X									X						X					X	
SOURCE 240V DELTA (A) - TB2.1 (B) - TB2.2 (C) - TB2.3	X										X							X						X				X	

POWER LEADS	POWER LEADS	POWER LEADS	POWER LEADS
208V WYE	240V WYE	208V DELTA	240V DELTA
L1 - TB1.3	L1 - TB1.4	L1 - TB1.10	L1 - TB1.11
L11 - TB1.15	L11 - TB1.16	L11 - TB1.13A	L11 - TB1.13A
L2 - TB1.7	L2 - TB1.8	L2 - TB1.2	L2 - TB1.3
L21 - TB1.19	L21 - TB1.20	L21 - TB1.17A	L21 - TB1.17A
L3 - TB1.11	L3 - TB1.12	L3 - TB1.6	L3 - TB1.7
L31 - TB1.23	L31 - TB1.24	L31 - TB1.21	L31 - TB1.21

- NOTES:
1. ALL CAPACITORS ARE IN uF UNLESS OTHERWISE SPECIFIED.
 2. TWISTED PAIR GATE SIGNAL LEADS "K,G" ARE FROM CONTROL PC BD. ASS'Y 9 2264 D1 10D.
 3. SMALL DASHED-IN COMPONENTS, EXTERNAL TO PC BD. ASS'Y.
 4. PB'S ARE 2 SCR POWER PACKS LOCATED ON FORCED AIR COOLED HEATSINK.
 5. SELF LEAD FOR CUSTOMER CONNECTION, 2 EA., #1/0 CABLES.
 6. P2 IS A CONNECTOR PLUG TO CONTROL PC BOARD, TYPE D, 37 PIN.

unfiltered output - SAWTOOTH

catch diode

current meter

SHEET 1 OF 1
NOTE: CAD GENERATED, DO NOT CHANGE MANUALLY.

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TITLE		POWER SUPPLY SCHEMATIC		INT. JOB NO.	
D	REV. PER ECA 16250 7-30-97 PAW				
C	REVISED PER ECA 16087 4-18-97 TLB				
B	CHG'D WIRE NO. FROM 16A TO 5 FOR P2-15	1/8/97 AHH	DATE	11/22/96	SCALE
A	SET UP FOR 240V. DELTA	4/24/96	DATE	11/22/96	
LET	REVISION	DATE	BY	DATE	BY

FOR 220 VAC INPUT USE 208V TAPS

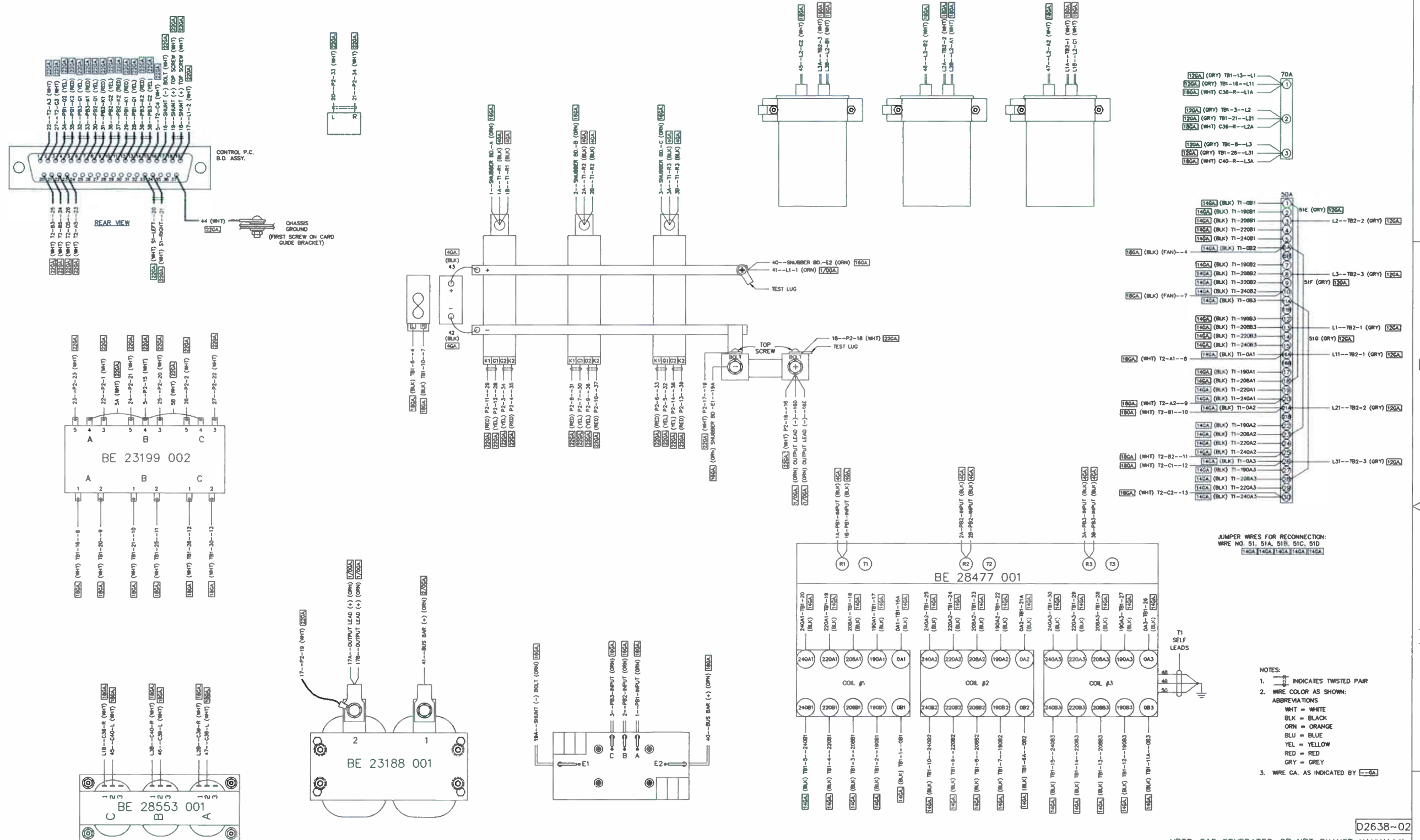
REVISION	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
E			9 MAR 98		KWB	
CHG'D TITLE BLOCK						
F			5/98	CN	CN	42206
ADD NOTE 1						



HARRIS CORPORATION
BROADCAST DIVISION
P.O. BOX 4290
QUINCY, ILLINOIS 62305

DRAWN BY	DATE	ENG CHK	PRD J	ENG	MFG	ENG
B BEEVER	8-6-97	B BEEVER	R PLONKA			
SHEET 1 OF 1						

TITLE	DWG NO.	REV
SCHEM. POWER SUPPLY 50VDC 208/240V 60HZ	843-5497-002	F



JUMPER WIRES FOR RECONNECTION:
 WIRE NO. 51, 51A, 51B, 51C, 51D
 14GA 11GA 14GA 14GA 14GA 14GA

- NOTES:
- INDICATES TWISTED PAIR
 - WIRE COLOR AS SHOWN: ABBREVIATIONS
 WHT = WHITE
 BLK = BLACK
 ORN = ORANGE
 BLU = BLUE
 YEL = YELLOW
 RED = RED
 GRY = GREY
 - WIRE GA. AS INDICATED BY **GA**

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 UNDERSTANDING THAT IT WILL NOT BE USED IN
 ANY MANNER DETRIMENTAL TO THE INTERESTS OF
 BASLER ELECTRIC COMPANY.

TITLE		WIRING DIAGRAM		INT. JOB NO.	
MATERIAL		50HZ, 50VDC, 15KW POWER SUPPLY		FINISH	
REVISED PER ECA 16250	7-30-97	PAW			
REVISED PER ECA 18082	4-28-97	TLB			
REMOVED T3, CHANGED T2					
LET	REVISION	DATE	BY	DATE	BY
DRAWN BY		B BEEVER		DATE	
DATE		8-6-97		SCALE	
ENG. CHK		B BEEVER		APPR. BY	
PROJ. ENG		R PLONKA		DATE	
MFG. ENG				SCALE	
SHEET 1		OF 1		DRAWING NO.	
				9 3077 00 950	
				REV	
				C	

NOTES

LTR	ZONE	DATE	DFTM	ENG	ECD NBR
D					NEWDWG
E		9 MAR 98		KWB	
CHG'D TITLE BLOCK					



HARRIS CORPORATION
 BROADCAST DIVISION
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

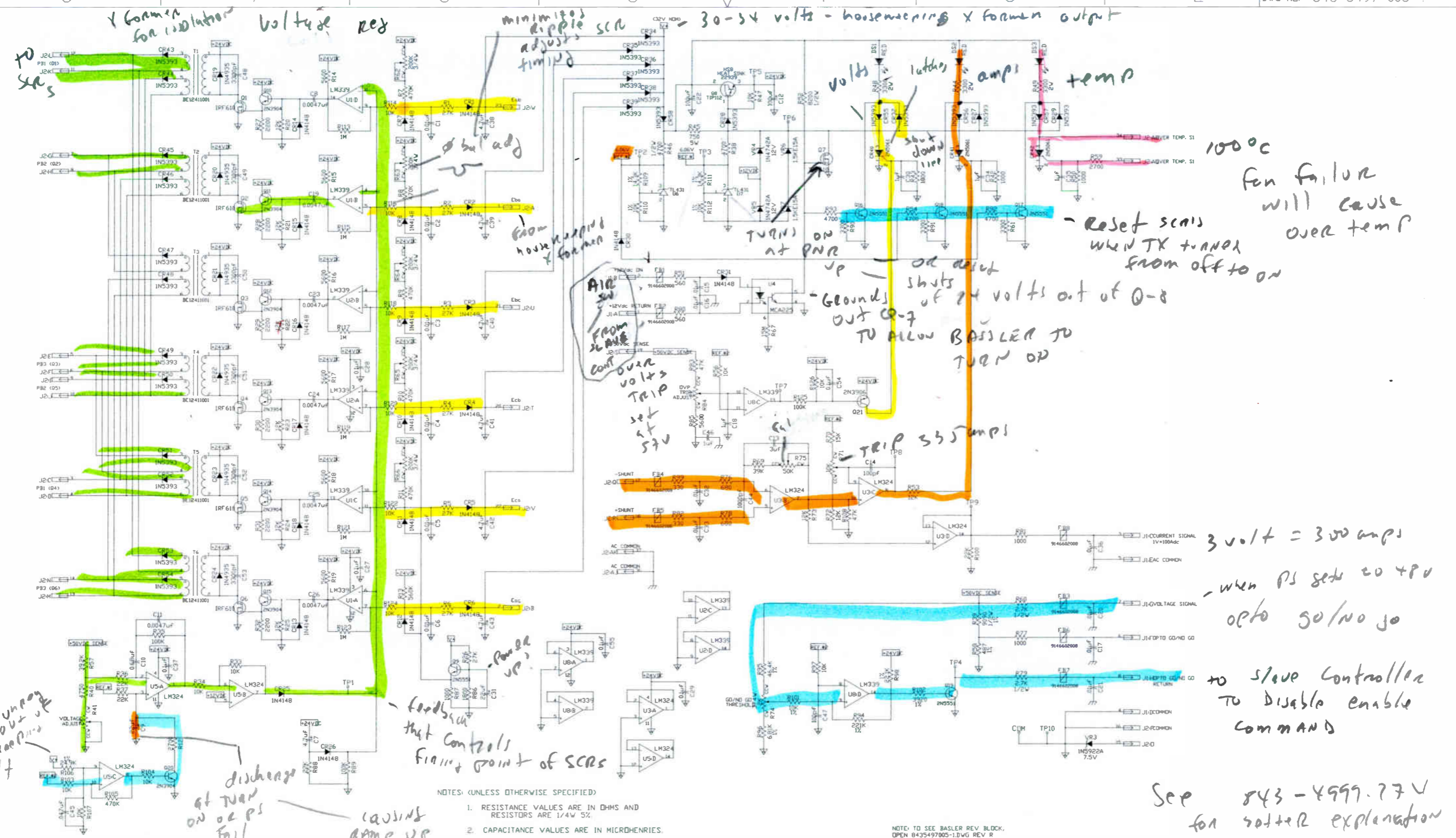
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NOTE: CAD GENERATED, DO NOT CHANGE MANUALLY.

D2638-02

TITLE		WIRING DIAGRAM		INT. JOB NO.	
MATERIAL		50HZ, 50VDC, 15KW POWER SUPPLY		FINISH	
DRAWN BY		B BEEVER		DATE	
DATE		8-6-97		SCALE	
ENG. CHK		B BEEVER		APPR. BY	
PROJ. ENG		R PLONKA		DATE	
MFG. ENG				SCALE	
SHEET 1		OF 1		DRAWING NO.	
				9 3077 00 950	
				REV	
				E	

DWG NO. 843-5497-003, REV E



- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. RESISTANCE VALUES ARE IN OHMS AND RESISTORS ARE 1/4W 5%.
 2. CAPACITANCE VALUES ARE IN MICROHENRIES.

NOTE: TO SEE BASLER REV BLOCK, OPEN 8435497005-1.DWG REV R

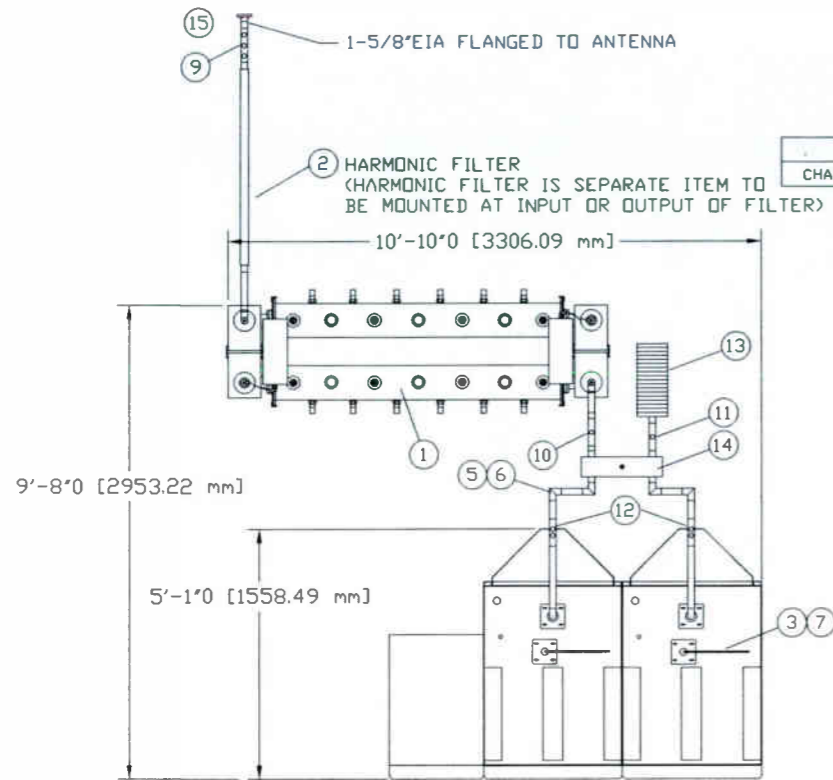
REF BASLER DWG 9 2264 01 912 REV 0; BASLER ECO 14579 8/24/01

REV	LTR	ZONE	DATE	DFTM	ENG	ECO NBR
P			9/26/01	IPK		47684
PEDRAW: VENDOP REV 0 DWG INSEPTED						
P			9 MAR 98		KWB	
CHG'D TITLE BLOCK						

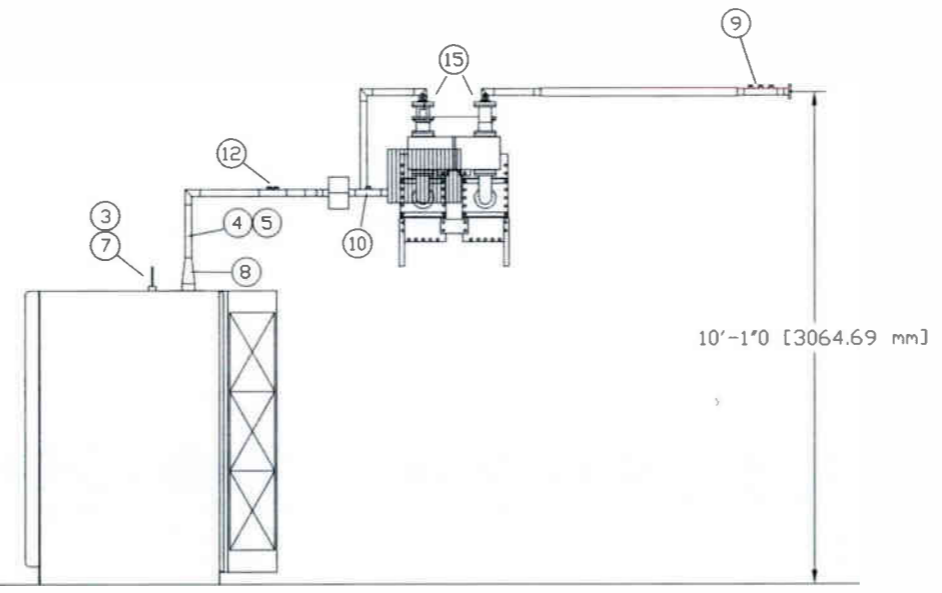
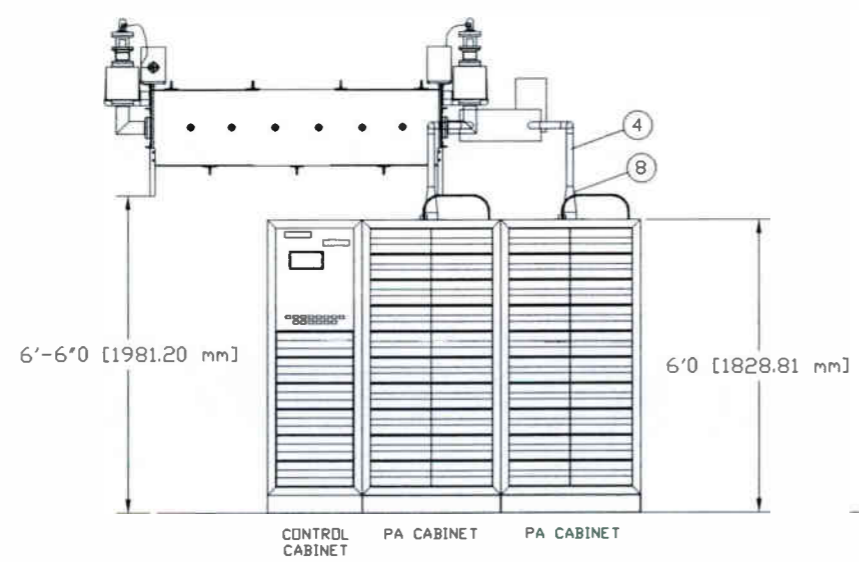
HARRIS	HARRIS CORPORATION BROADCAST COMMUNICATIONS P.O. BOX 4290 QUINCY, ILLINOIS 62305
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DRAWN BY: B BEEVER DATE: 8-6-97 ENG CHK: B BEEVER PROJ ENG: B PLONKA MFG ENG: - D SHEET 1 OF 1	TITLE: SCHEM, CONTROL PWB 50VDC POWER SUPPLY DWG NO. 843-5497-005 REV R
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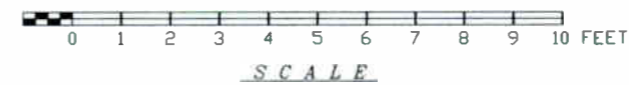
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	DIM 'B'
CHAN 7 - 13	48" (1219.2)



QTY	ITEM	DESCRIPTION
3	15	1 5/8" FLANGED TO UNFLANGED ADAPTER
1	14	JDB HYBRID
1	13	BIRD 8861 1.5KW LOAD
2	12	DIR COUPLER 1-5/8" 2 PORT
1	11	DIR COUPLER 1-5/8" 1 PORT HYBRID (REJECT LOAD)
1	10	DIR COUPLER 1-5/8" 1 PORT
1	9	DIR COUPLER 1-5/8" 3 PORT
2	8	REDUCER 1-5/8" TO 3 1/8"
2	7	"N" TO 1-5/8" ADAPTOR
10	6	ELBOW 90° 1-5/8"
17	5	COUPLING ASSY 1 5/8"
SEE NOTE 3	4	LINE ASSY 1-5/8"
	3	1/2" HELIAX CABLE
1	2	HARMONIC FIL (CHAN 2,13)
SEE NOTE 3	1	CONSTANT IMPEDANCE BANDPASS FILTER



- 4 CONSTANT IMPEDANCE BANDPASS FILTER MAYBE CEILING/FLOOR MOUNTED. ESTIMATED HANGING WEIGHT 625 LBS.
- 4 CHANNEL 9 RF SYSTEM SHOWN
- 3 THIS IS A TYPICAL LAYOUT BASED UPON HARRIS SELECTED AND ASSUMED VENDORS. THESE ITEMS ARE CHANNELIZED FOR OPERATING FREQUENCY. PHYSICAL OUTLINE / FLANGE WILL VARY DEPENDING ON VENDOR PARTS ORDERED AND SHIPPED.
- 2 LINE LENGTHS ARE TO BE MEASURED AND CUT ON SITE AS REQ'D.
- 1 DIMENSIONS IN [] ARE IN MILLIMETERS.

TOLERANCES UNLESS NOTED
 .X ± .030 .XX ± .015
 .XXX ± .005 ANGLES ± 1 DEG
 ALL ✓ INDICATES 125 MICRO INCH
 ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED
 MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001

NOTES	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
	A	NEWDWG
	B	.	2/00	CN	CN	P12468

REVISE QTY'S ON CHART

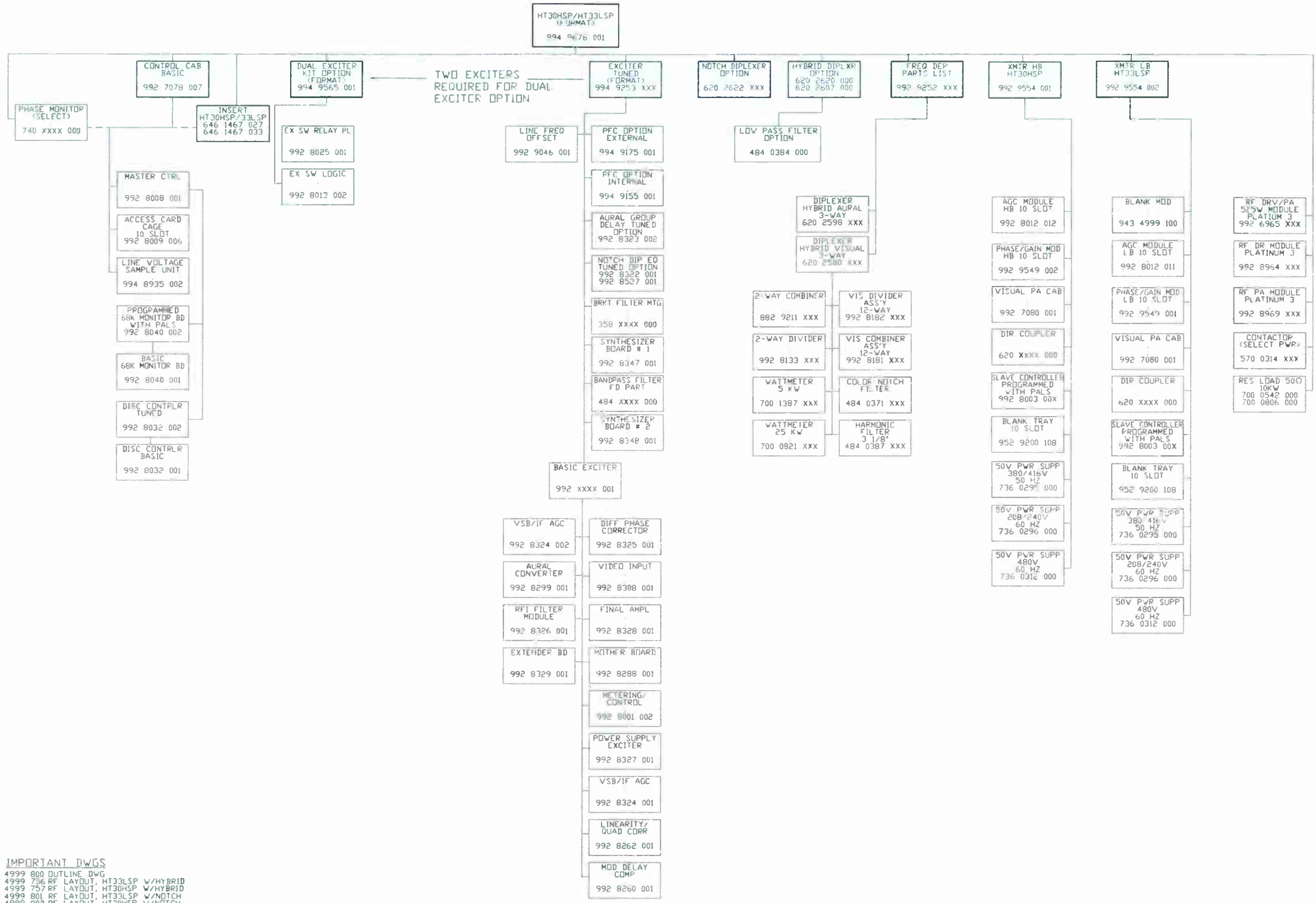
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 BROADCAST COMMUNICATIONS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRAWN BY	K BUNTE	TITLE	
DATE	11 DEC 97		
ENG CHK	C NEAL		
PROJ ENG	C NEAL		
MFG ENG	D MYERS	DWG NO.	843 5505 200
D	SHEET 1 OF 1	REV	B

H
G
F
E
D
C
B
A

H
G
F
E
D
C
B
A



IMPORTANT DWGS
 843 4999 800 OUTLINE DWG
 843 4999 796 RF LAYOUT, HT33LSP W/HYBRID
 843 4999 757 RF LAYOUT, HT30HSP W/HYBRID
 843 4999 801 RF LAYOUT, HT33LSP W/NOTCH
 843 4999 802 RF LAYOUT, HT30HSP W/NOTCH

REV	DATE	BY	CHKD	APP'D	DESCRIPTION
A					NEW DWG
B	11 MAR 99	JPK	JPK		41619J

HARRIS CORPORATION
 BROADCAST SYSTEMS
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRAWN BY	K BUNTE	TITLE	FAMILY TREE
DATE	29 FEB 96	HT30HSP/HT33LSP	FAMILY SERIES
ENG CHG	RL MORTIMORE	DWG NO	852-9200-136
PROJ ENG	RL MORTIMORE	REV	B
MFG ENG			
	SHEET 1 OF 1		

