

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
		A	SEE CURRENT SHEET LIST		

INTEGRATED SYSTEM SCHEMATIC
 ELECTRICAL POWER DISTRIBUTION
 AND CONTROL (EPD&C)
 ORBITER VEHICLES -- 099, 103, & 104

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES.
 TOLERANCES ON:

DECIMALS ANGLES
 XX - $\pm .03$ $\pm 0^{\circ} 30'$
 XXX - $\pm .010$

HOLES NOTED "DRILL"

THRU 040: +.001 -.001
 THRU 130: +.002 -.001
 131 THRU 229: +.003 -.001
 230 THRU 500: +.004 -.001
 501 THRU 750: +.005 -.001
 751 THRU 1,000: +.007 -.001
 1,001 THRU 2,000: +.010 -.001

DR BY GR WRESTLER 9-18-80

CHK BY

APPROVALS

Rockwell International Corporation Space Systems Group

12214 Lakewood Boulevard - Downey, California 90241

INTEGRATED SYSTEM SCHEMATIC
 ELECTRICAL POWER DISTRIBUTION & CONTROL (EPD&C)
 ORBITER VEHICLES -- 099, 103, & 104

SIZE

A

CODE IDENT NO.

03953

DRAWING NO.

VS70-976099

SCALE

SHEET 1 OF 96

CURRENT SHEET LIST

SHEET NO.	REV LTR	SHEET NO.	REV LTR	SHEET NO.	REV LTR	SHEET NO.	REV LTR	SHEET NO.	REV LTR	SHEET NO.	REV LTR
		1	A06	29	A06	59	A01	89	A06		
		2	A04	30	A06	60	A01	90	A01		
		2.1	A04	31	A05	61	A01	91	A01		
		2.2	A04	32	A06	62	A01	92	A01		
		2.3	A04	33	A06	63	A01	93	A01		
		3	A06	34	A06	64	A06	94	A04		
		4	A06	35	A06	65	A06	95	A01		
		5		36	A06	66	A06				
		6	A01	37	A04	67	A04				
		7	A04	38	A06	68	A06				
		8	A06	39	A06	69	A06				
		9	A06	40	A04	70	A06				
		10	A06	41	A06	71	A01				
		11	A05	42	A04	72	A01				
		12	A06	43	A06	73	A03				
		13	A06	44	A05	74	A04				
		14	A06	45	A06	75	A01				
		15	A06	46	A06	76	A01				
		16	A06	47	A06	77	A01				
		17	A06	48	A06	78	A01				
		18	A05	49	A06	79	A01				
		19	A06	50	A06	80	A01				
		20	A06	51	A04	81	A01				
		21	A05	52	A06	82	A01				
		22	A06	53	A06	83	A01				
		23	A06	54	A06	84	A06				
		24	A06	55	A04	85	A06				
		25	A05	56	A01	86	A06				
		26	A06	57	A01	87	A06				
		27	A06	58	A01	88	A06				
		28	A06								

INTEGRATED SYSTEM SCHEMATIC
ELECTRICAL POWER DISTRIBUTION
AND CONTROL

SIZE

A

CODE IDENT NO.

03953

DRAWING NO.

VS70-976099

SCALE

REV

SHEET 3 OF

NOTES

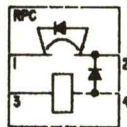
1. SYMBOLOGY PER JSC 08832 (BASED ON ANSI Y32.2, ANSI Y32.10 & ANSI Y32.14).
2. SHEET CROSS REFERENCE IDENTIFIER SYMBOLS:

12 INDICATES CONTINUATION IN ZONE 12 ON SAME SHEET.

42Y
3

INDICATES CONTINUATION IN ZONE 3 ON SHEET IDENTIFIED AS 42Y OF VS70-942099.

3. SCHEMATIC VELLUM SHEETS ARE NOT A STANDARD DRM SIZE.
4. MML (MASTER MEASUREMENT LIST) AND IPCL (INSTRUMENTATION PROGRAM AND COMPONENTS LIST) ARE SOURCE DOCUMENTS.
5. REF. VS70-900099 INDEX, INTEGRATED SCHEMATIC - ORBITER WIRING INTERFACES
VS72-900099 INDEX, INTEGRATED SCHEMATIC - MEASUREMENT AND STIMULI, CONTROLS & DISPLAYS, CONNECTORS.
6. UNLESS OTHERWISE SPECIFIED ALL SHEETS OF THIS DOCUMENT ARE EFFECTIVE FOR ORBITER VEHICLES - 099,103,AND 104.
- ① 7. RPC (REMOTE POWER CONTROLLER). OPERATION - SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF RPC CIRCUIT AND IS NOT INTENDED TO REFLECT EXACT HARDWARE ARRANGEMENT. APPLICATION OF VOLTAGE ABOVE 10.5 VDC NOMINAL TO TERMINAL 3 CLOSSES CIRCUIT BETWEEN TERMINALS 1 AND 2. REMOVAL OF VOLTAGE FROM TERMINAL 3 INTERRUPTS CIRCUIT BETWEEN TERMINALS 1 AND 2. THE CURRENT FLOW FROM TERMINAL 1 TO TERMINAL 2 IS AUTOMATICALLY LIMITED TO 137.5 ± 12.5 PERCENT OF RATED CURRENT (2.5 ± 0.5 SEC MAX) TO RESET RPC AFTER AUTOMATIC INTERRUPTION, APPLICATION OF VOLTAGE TO TERMINAL 3 MUST BE INTERRUPTED THEN RE-ESTABLISHED.



- ② 8. ABA (AMPLIFIER BUFFER ATTENUATOR) AND SIGNAL CONDITIONER FUNCTIONAL REPRESENTATION IS NOT SHOWN ON THIS DRAWING DUE TO COMPLEXITY OF INTERCONNECTIONS BETWEEN DIFFERENT MEASUREMENTS. THE FUNCTIONAL SCHEMATIC WILL BE SHOWN ON OPERATIONAL INSTRUMENTATION DIAGRAMS AND SCHEMATIC DRAWINGS.

INTEGRATED SYSTEM SCHEMATIC
ELECTRICAL POWER DISTRIBUTION
AND CONTROL

SIZE

A

CODE IDENT NO.

03953

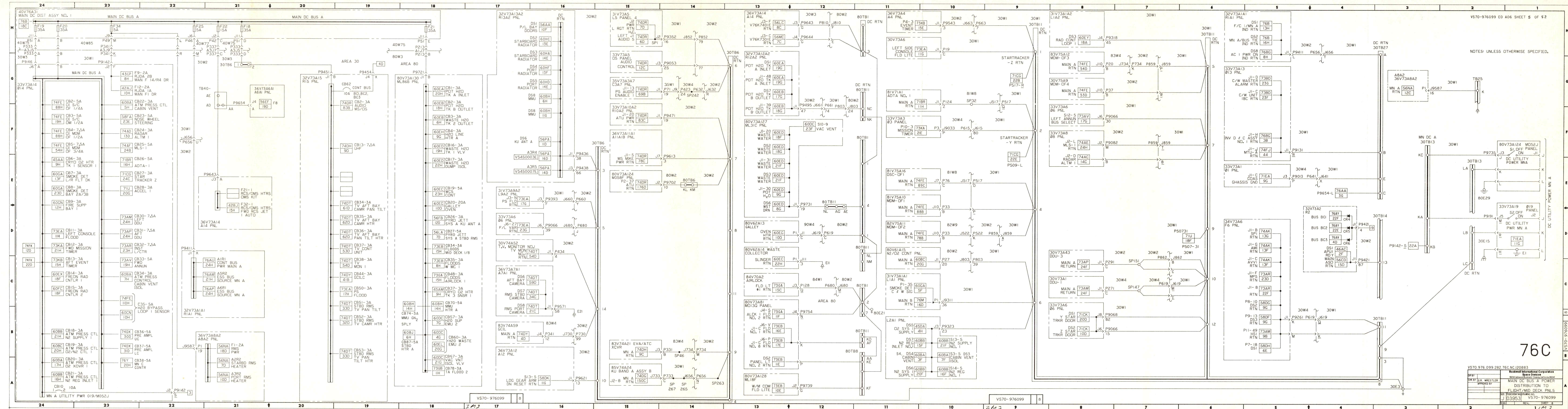
DRAWING NO.

VS70-976099

SCALE

REV

SHEET 4 OF



NOTES: UNLESS OTHERWISE SPECIFIED.

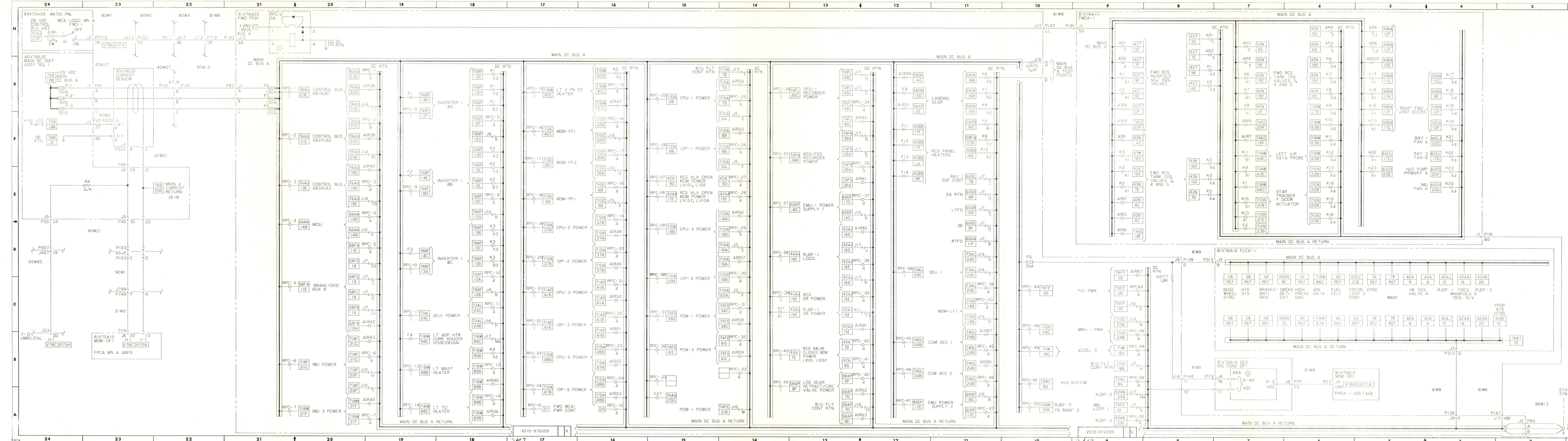
76C

370.976.099.282.76C.NC.120883		Rockwell International Corporation Space Division 15214 Lakeside Boulevard • Torrance, California 90504	
BY		MAIN DC BUS A POWER DISTRIBUTION TO FLIGHT/MID DECK PNLS	
BY	G.R. WRESTLER		
APPROVED BY		SIZE CODE IDENT NO DRAWING NO.	
		J 03953 V570 - 976099	
		SCALE	SHEET 8

NOTES: UNLESS OTHERWISE SPECIFIED

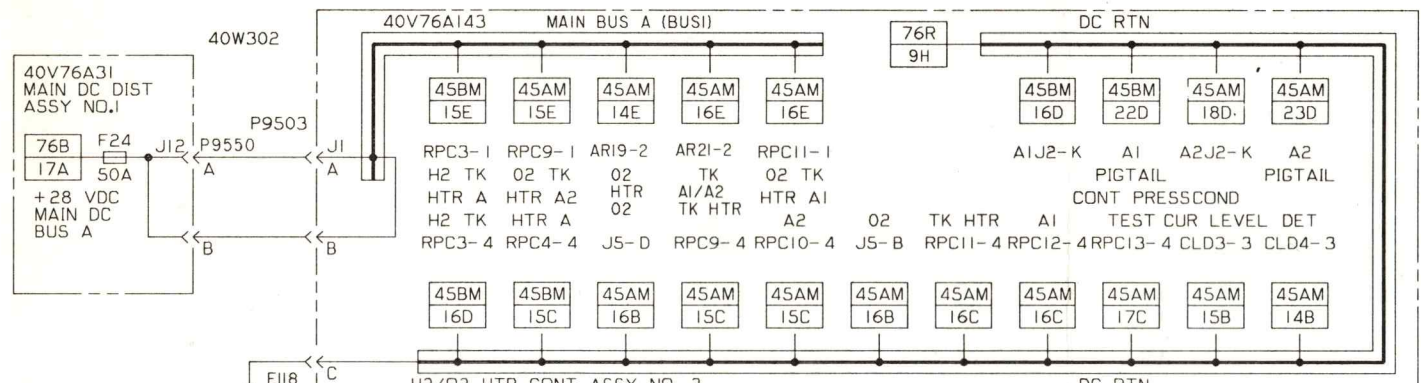
1. RPC (REMOTE POWER CONTROLLER) OPERATION SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF RPC CIRCUIT AND IS NOT INTENDED TO REFLECT EXACT HARDWARE ARRANGEMENT. APPLICATION OF VOLTAGE ABOVE 10.5 VDC NOMINAL TO TERMINAL 3 CLOSING CIRCUIT BETWEEN TERMINALS 1 AND 2. REMOVAL OF VOLTAGE FROM TERMINAL 3 INTERRUPTS CIRCUIT BETWEEN TERMINALS 1 AND 2. THE CURRENT FLOW FROM TERMINAL 1 TO TERMINAL 2 IS AUTOMATICALLY LIMITED TO 137.5 ± 12.5 PERCENT OF RATED CURRENT (2.5 ± 0.5 SEC MAX). TO RESET RPC AFTER AUTOMATIC INTERRUPTION, APPLICATION OF VOLTAGE TO TERMINAL 3 MUST BE INTERRUPTED, THEN RE-ESTABLISHED.

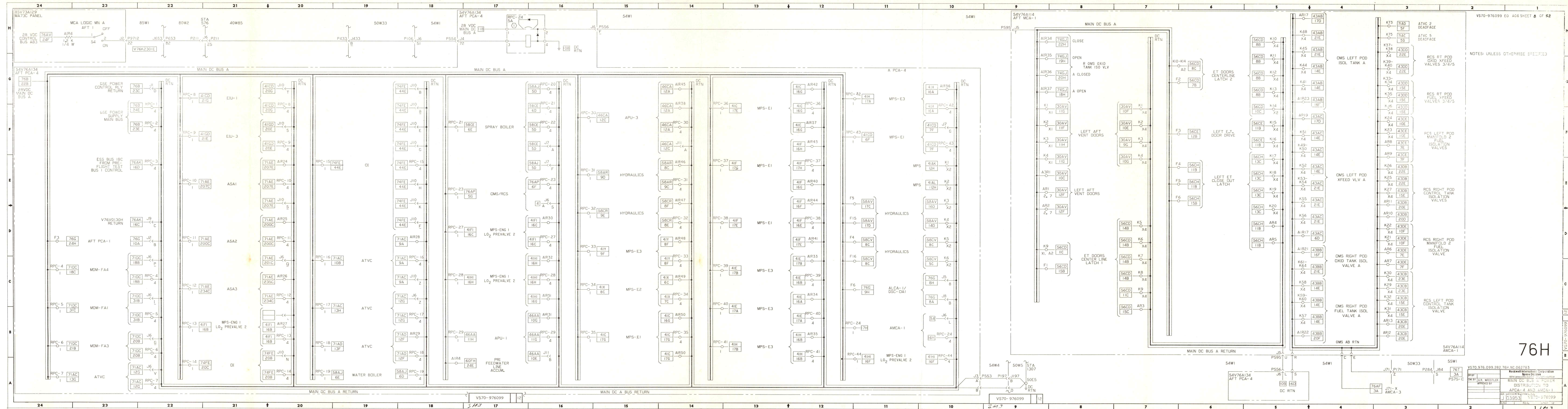
2. ABA. SEE NOTES SHEET.



76E

① 1. PRC (REMOTE POWER CONTROLLER) OPERATION- SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF PRC CIRCUIT AND IS NOT INTENDED TO REFLECT EXACT CIRCUIT ARRANGEMENT. APPLICATION OF VOLTAGE ABOVE 10.5 VDC NOMINAL TO TERMINAL 3 (GREEN TERMINAL) AND TERMINALS 1 AND 2, REMOVAL OF VOLTAGE FROM TERMINAL 3 INTERRUPTS CIRCUIT. GREEN TERMINALS 1 AND 2, THE CURRENT FLOW FROM TERMINAL 1 TO TERMINAL 2 IS AUTOMATICALLY LIMITED TO 137.5 ± 12.5 PERCENT OF RATED CURRENT (1.0 ± 0.5 MAX). TO RESET PRC AFTER AUTOMATIC INTERRUPTION, APPLICATION OF VOLTAGE TO TERMINAL 3 MUST BE INTERRUPTED, THEN RE-ESTABLISHED.





NOTES: UNLESS OTHERWISE SPECIFIED

76H

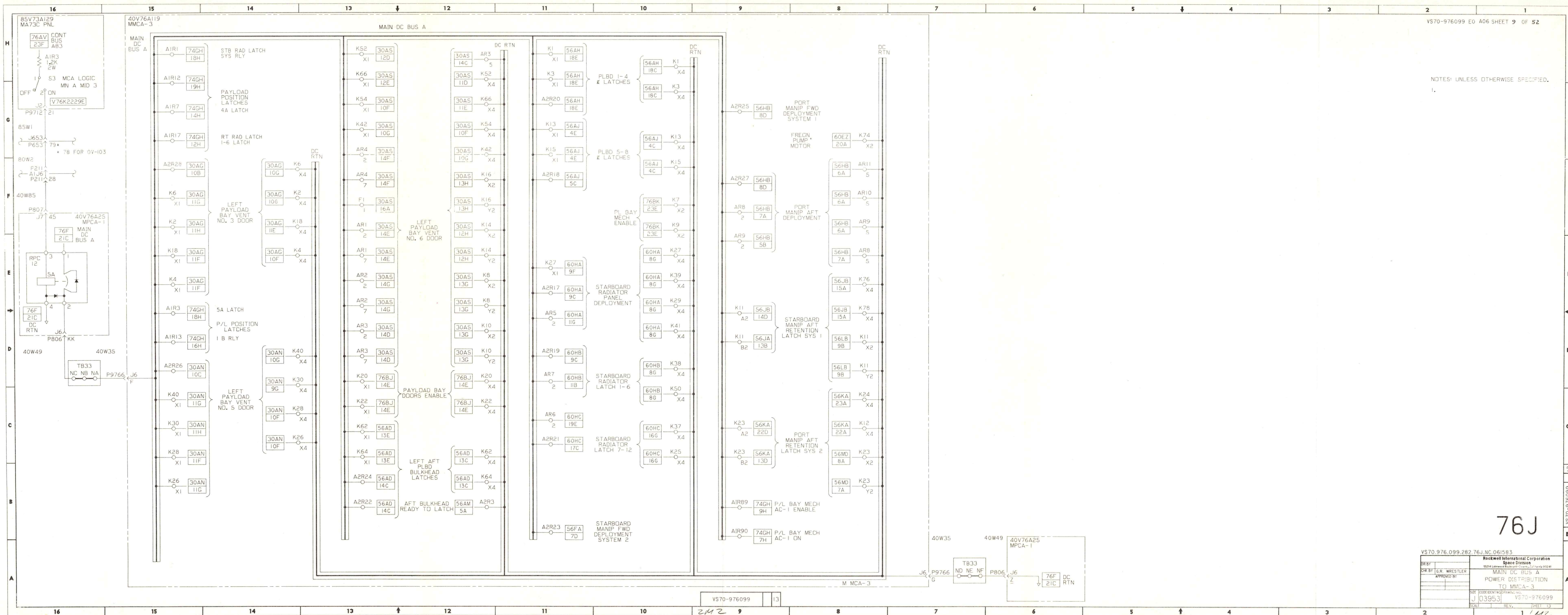
VS70-976099 E.O. AG6 SHEET 8 OF 52

Rockwell International Corporation
Space Division
1000 Main Street
P.O. Box 1000
Canoga Park, CA 91304

APCA-4 AND AMCA-1
J 03953 VS70-976099

DATE: 10/1/73
BY: J. J. J.

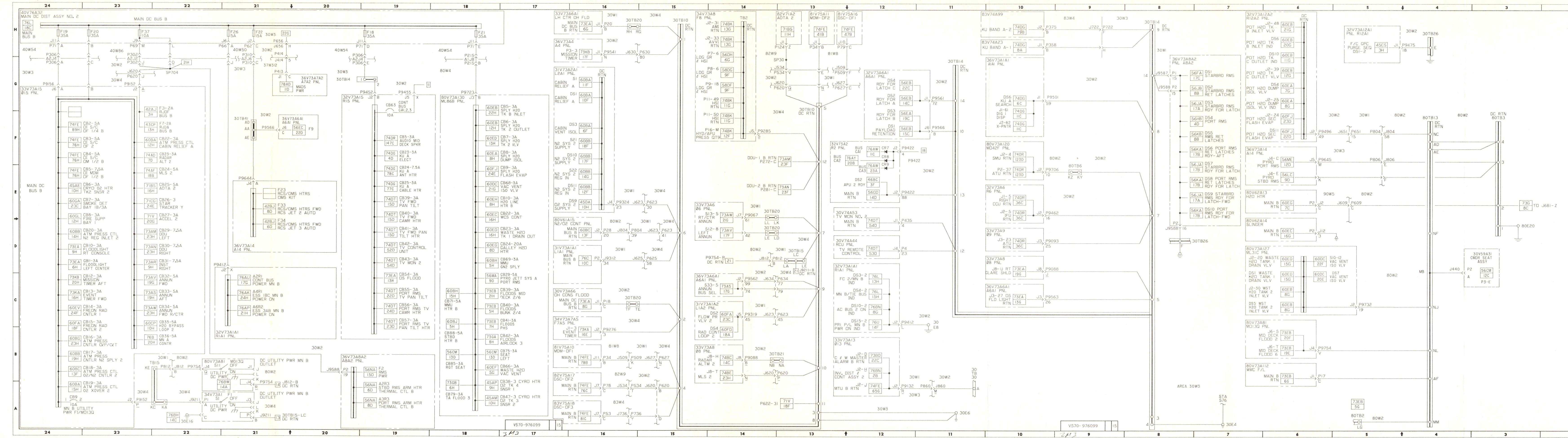
VSTO.976.099.282.76J.NC.061583		Rockwell International Corporation Space Division 19214 Lakeside Boulevard • Columbia, S.C. 29814 950241	
DR BY		MAIN DC BUS A POWER DISTRIBUTION TO MMCA-3	
CHK BY	G.R. WRESTLER		
APPROVED BY			
SIZE		CODE IDENT NO.	DRAWING NO.
J 03953		VSTO-976099	
SCALE	REV.	SHEET	

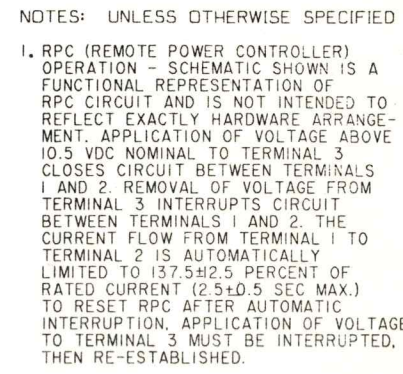


NOTES: UNLESS OTHERWISE SPECIFIED

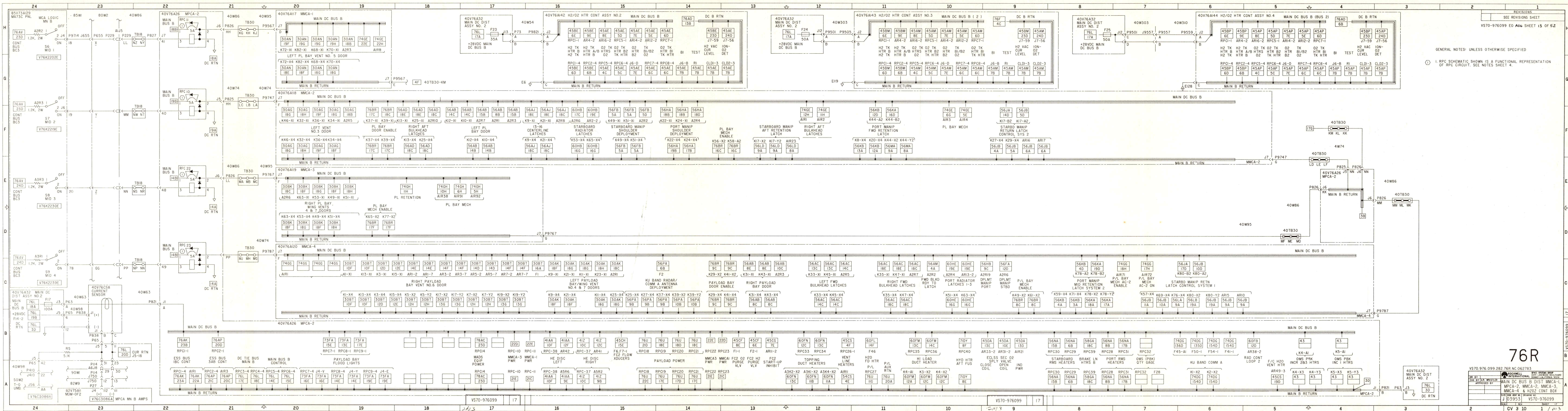
76M

VS70-976099-282-76M.NC.121383	
Rockwell International Corporation Space Division	
DESIGN BY: G. WRESTLER	DATE: 10/1/78
APPROVED BY:	DATE: 10/1/78
DISTRIBUTION TO FLIGHT/MID DECK PNLS	
J 039533 VS70-976099	
REV	DATE
1	10/1/78





76P

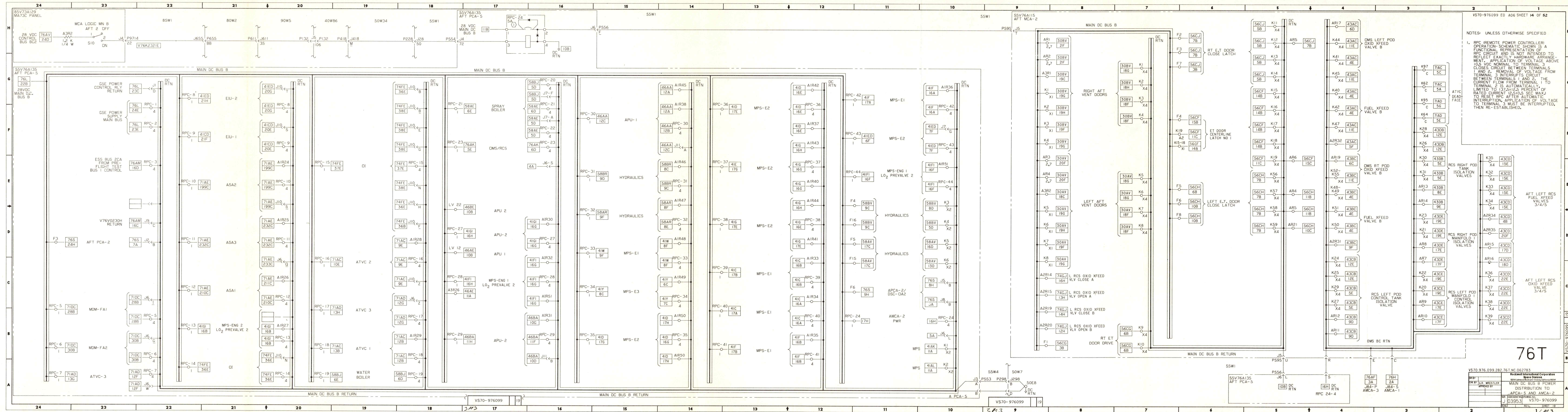


REVISIONS
SEE REVISIONS SHEET
V570-976099 EO A66 SHEET 13 OF 52

GENERAL NOTES: UNLESS OTHERWISE SPECIFIED
1. RPC SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF RPC CIRCUIT. SEE NOTES SHEET 4.

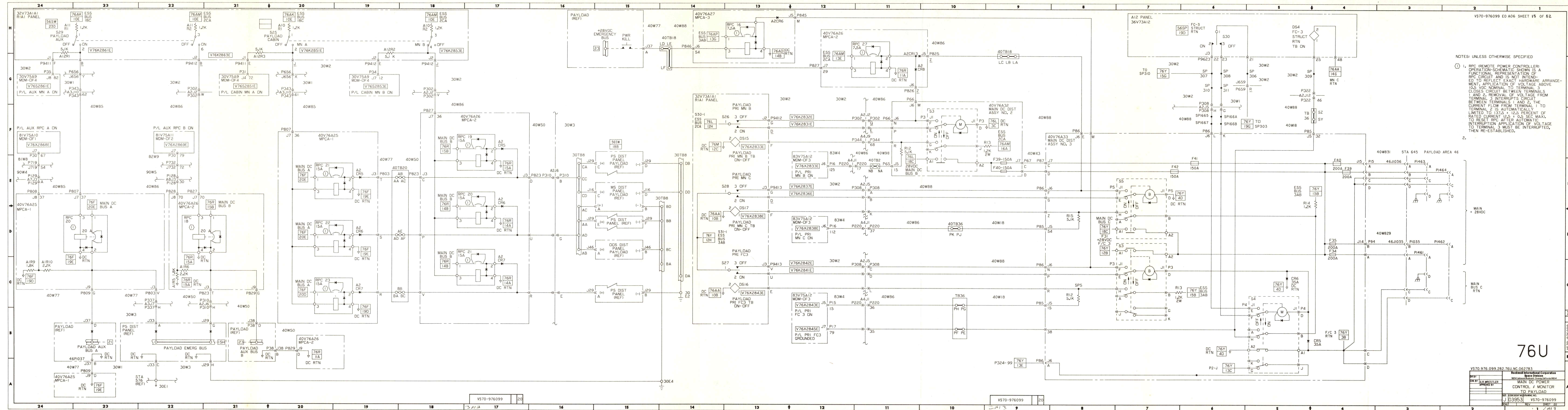
76R

V570-976 099 282 76R NC 062783
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]
DATE: 10/23/53
SCALE: 1:1
SHEET: 17
CV 3 10 1 / 17

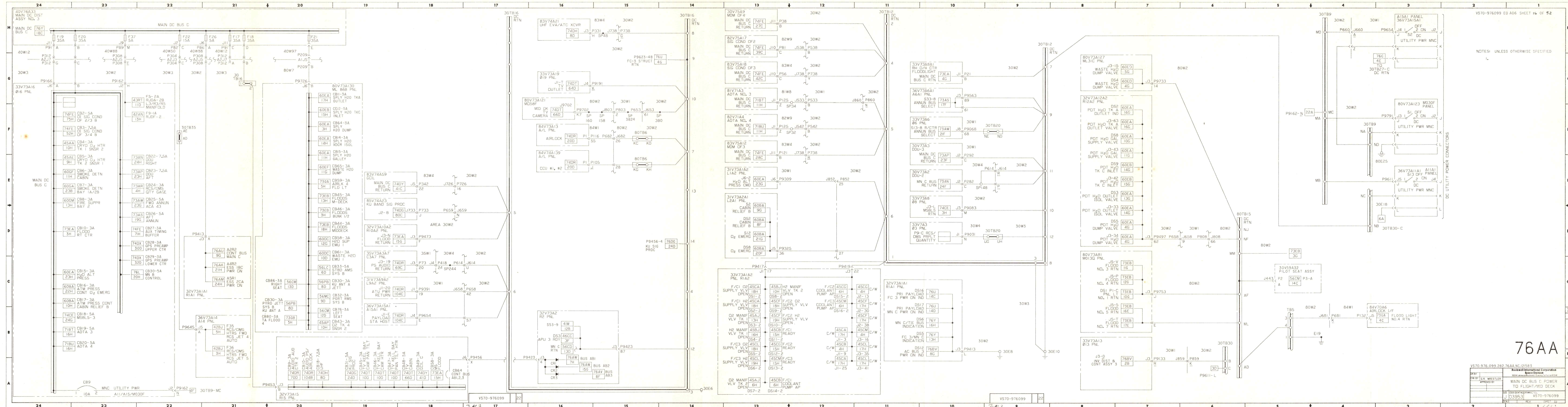


NOTES: UNLESS OTHERWISE SPECIFIED

1. RPC (REMOTE POWER CONTROLLER) OPERATION-SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF RPC CIRCUIT AND IS NOT INTENDED TO REFLECT EXACT HARDWARE ARRANGEMENT. APPLICATION OF VOLTAGE ABOVE 10.5 VDC NOMINAL TO TERMINAL 3 CLOSING CIRCUIT BETWEEN TERMINALS 1 AND 2. REMOVAL OF VOLTAGE FROM TERMINAL 3 INTERRUPTS CIRCUIT BETWEEN TERMINALS 1 AND 2. THE CURRENT FLOW FROM TERMINAL 1 TO TERMINAL 2 IS AUTOMATICALLY LIMITED TO 137.5 ± 12.5 PERCENT OF RATED CURRENT (2.5 ± 0.5 SEC MAX). TO RESET RPC AFTER AUTOMATIC INTERRUPTION APPLICATION OF VOLTAGE TO TERMINAL 3 MUST BE INTERRUPTED, THEN RE-ESTABLISHED.
- 2.



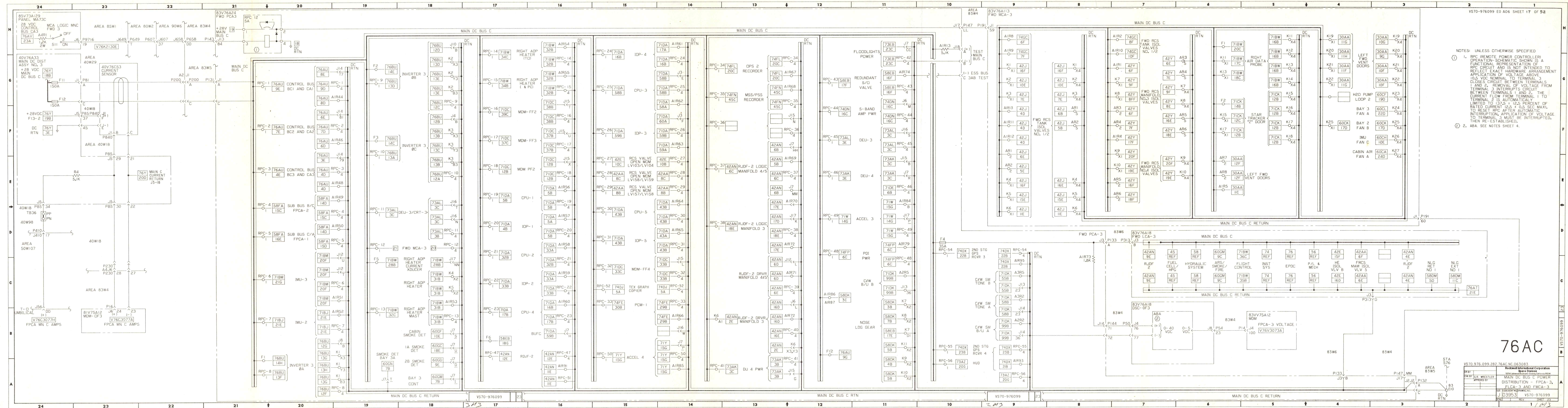
VS70-976099-282-76U-NC-062783	
DESIGNED BY	Rockwell International Corporation
DESIGNED BY	Space Division
DESIGNED BY	1024 Laboratory Building - Torrance, California 90501
DESIGNED BY	CONTROL & MONITOR
DESIGNED BY	TO PAYLOAD
DESIGNED BY	NO. 03953
DESIGNED BY	VS70-976099
DESIGNED BY	REV. 1

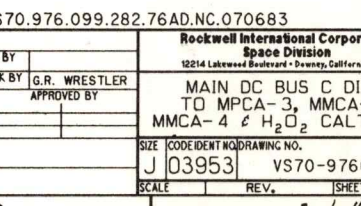


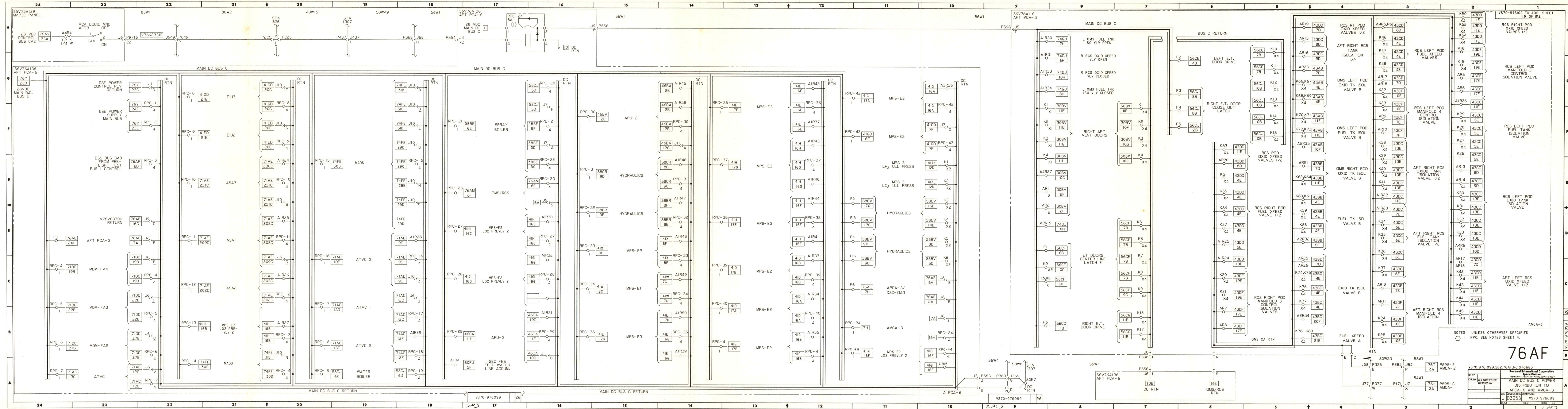
NOTES: UNLESS OTHERWISE SPECIFIED

VS70-976099-282.76AA.NC.121583	
DESIGNED BY	Rockwell International Corporation
APPROVED BY	Space Division
MAIN DC BUS C POWER TO FLIGHT/MID DECK	
DATE	03/95
BY	J 03953
VS70-976099	

76AA



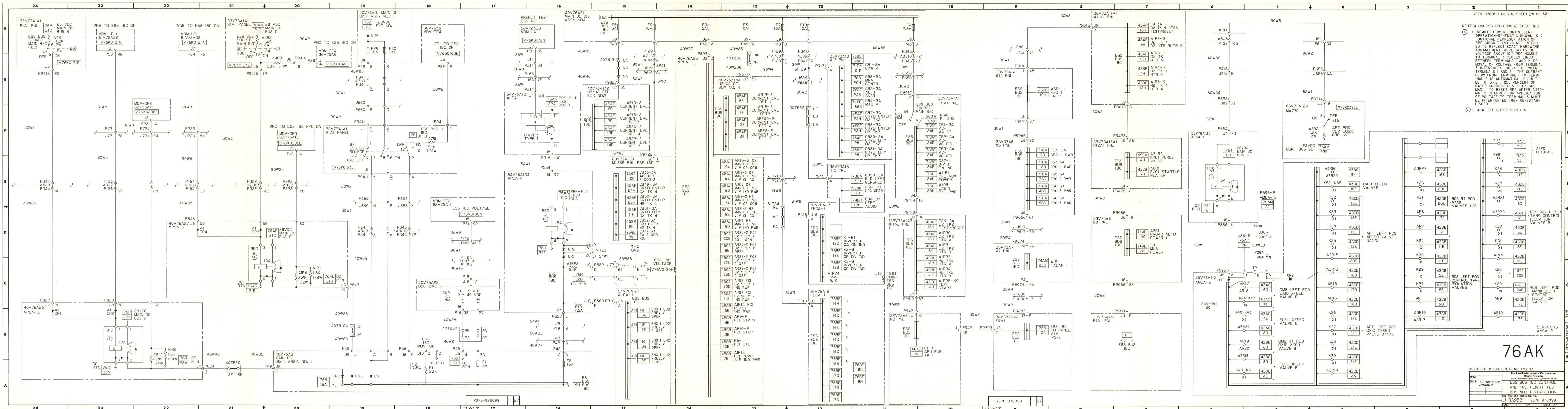




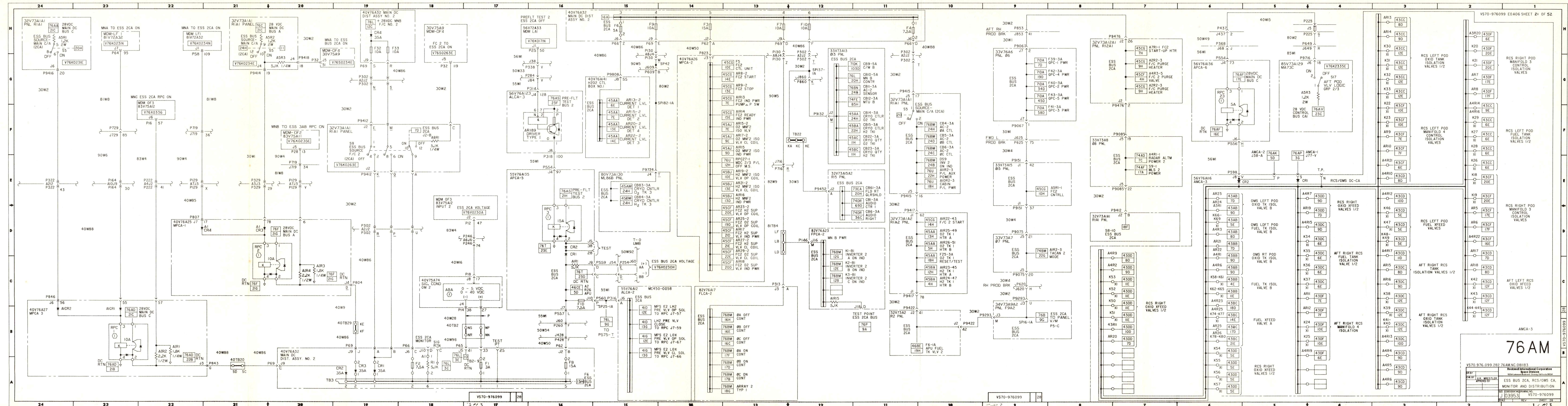
76AF

VS70-976099-282.76AF.NC.070683
Rockwell International Corporation
Space Division
12244 Avenue Road, Torrance, California 90501
DRAWN BY: G. R. WHEELER
CHECKED BY: J. R. WHEELER
APPROVED BY: J. R. WHEELER
DISTRIBUTION TO:
APCA-6 AND AMCA-3
CODE IDENTIFICATION NO.: J 03953
VS70-976099
SCALE: 1/4" = 1"

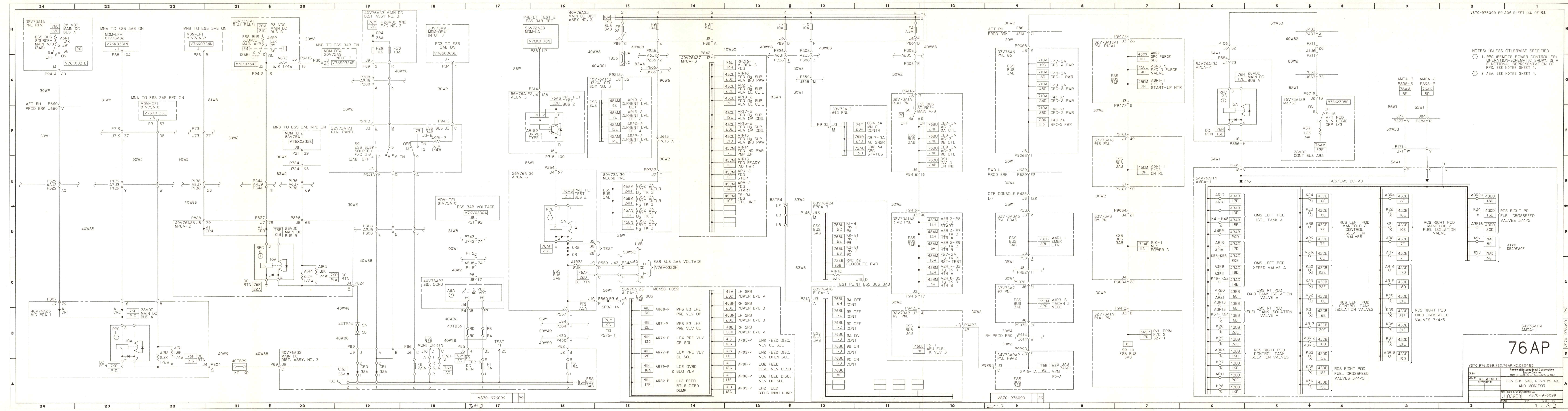
NOTES: UNLESS OTHERWISE SPECIFIED
(1) REMOTE POWER CONTROLLER OPERATION-SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF RPC CIRCUIT AND IS NOT INTENDED TO REFLECT EXACT HARDWARE ARRANGEMENT. APPLICATION OF VOLTAGE ABOVE 10.5 VDC NOMINAL TO TERMINAL 3 CLOSING CIRCUIT BETWEEN TERMINALS 1 AND 2. REMOVAL OF VOLTAGE FROM TERMINAL 3 INTERRUPTS CIRCUIT BETWEEN TERMINALS 1 AND 2. THE CURRENT FLOW FROM TERMINAL 2 TO TERMINAL 3 IS AUTOMATICALLY LIMITED TO 137.5 ± 12.5 PERCENT OF RATED CURRENT (25 ± 0.5 SEC MAX). TO RESET RPC AFTER AUTOMATIC INTERRUPTION APPLICATION OF VOLTAGE TO TERMINAL 3 MUST BE INTERRUPTED THEN RE-ESTABLISHED.
(2) ABA. SEE NOTES SHEET 4.



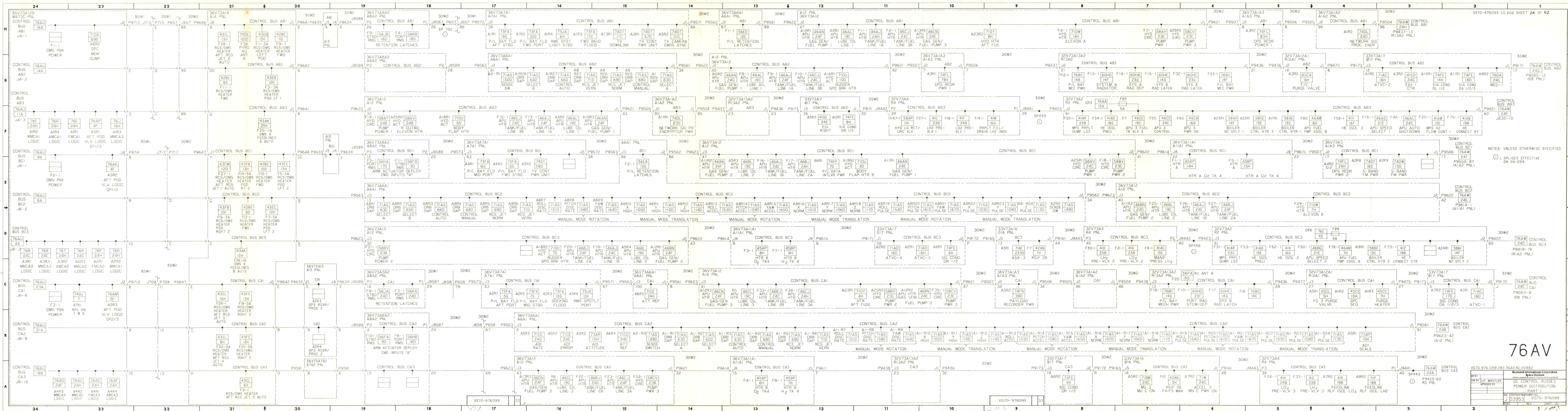
76AK



NOTES: UNLESS OTHERWISE SPECIFIED
① 1. RPC (REMOTE POWER CONTROLLER) OPERATION-SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF RPC. SEE NOTES SHEET 4.
② 2. ABA. SEE NOTES SHEET 4.



76AP



NOTES: UNLESS OTHERWISE SPECIFIED
1. SPLICES EFFECTIVE ON 0V-099.

76AV

VS70-976099-282 76AV.NC.10882

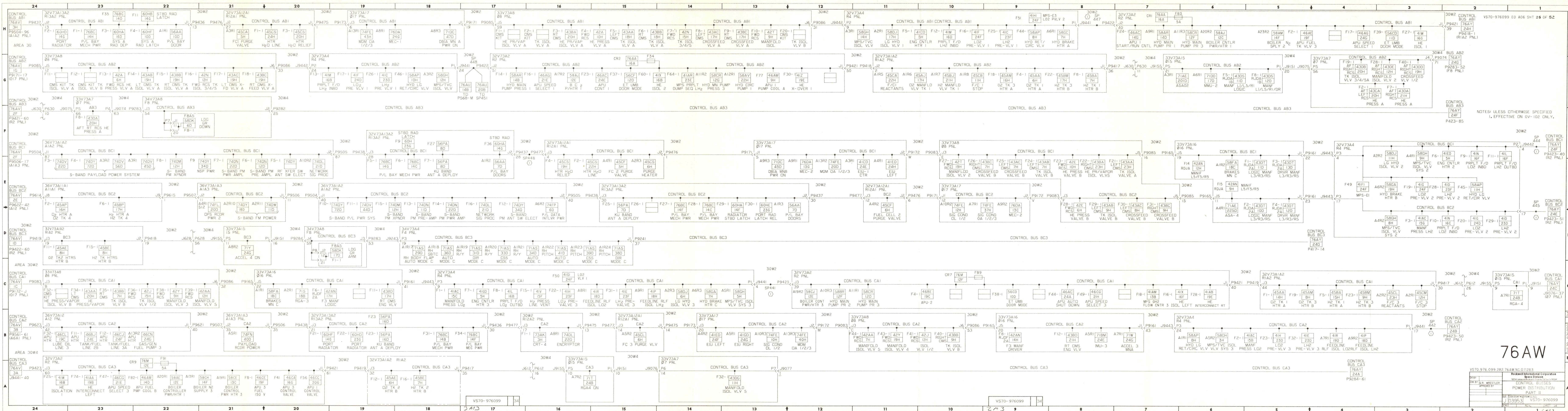
Rockwell International Corporation
Space Division

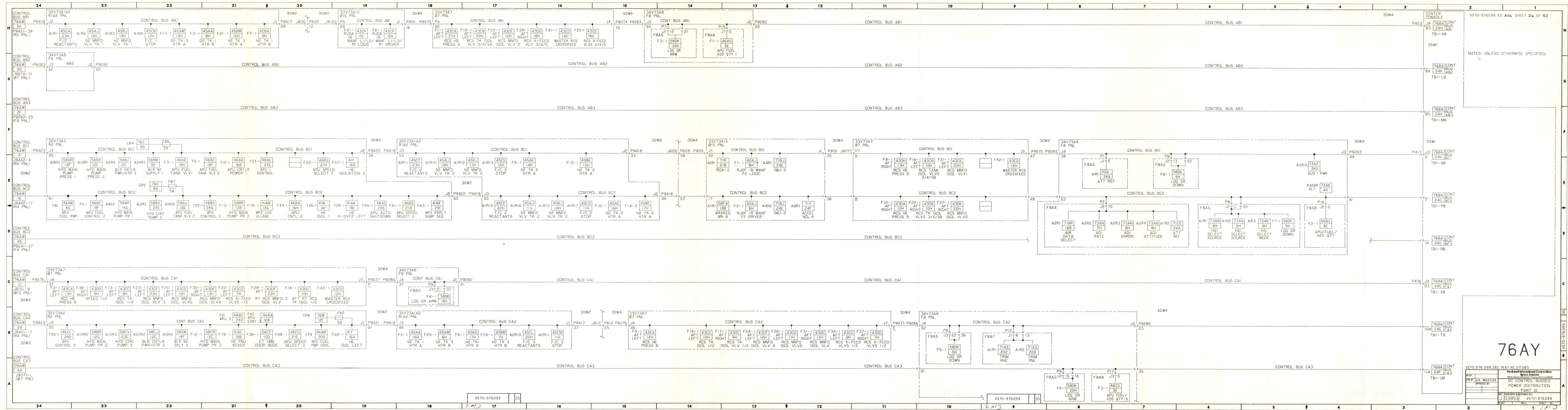
DC CONTROL BUSES
POWER DISTRIBUTION

PART I

VS70-976099

REV 1





NOTES: UNLESS OTHERWISE SPECIFIED,
1.

VS70-976099 E0 A06 SHEET 26 OF 52

76AY

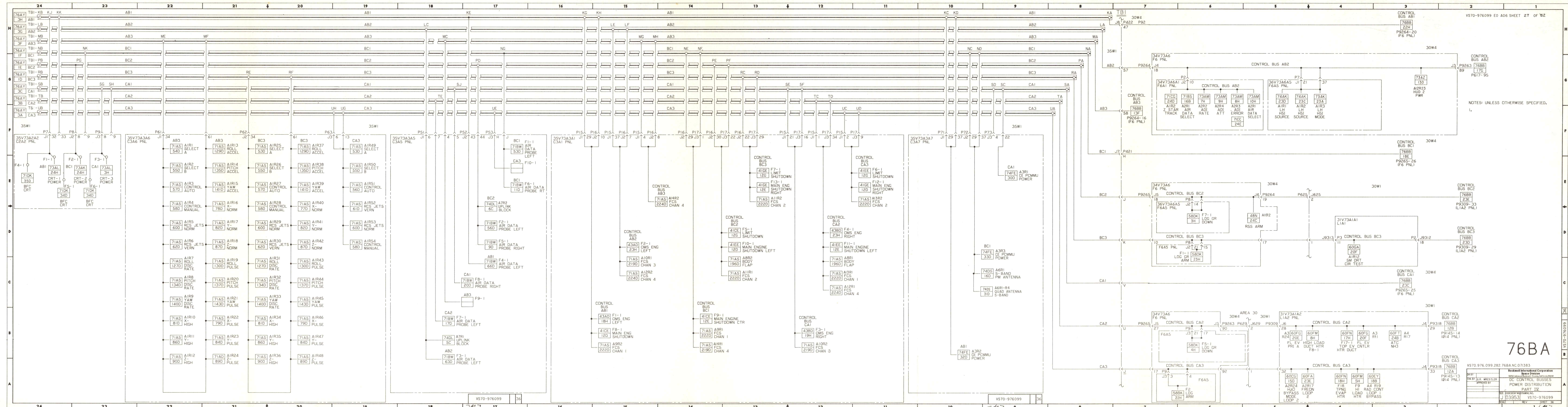
VS70-976099-282 76AY NC 071383

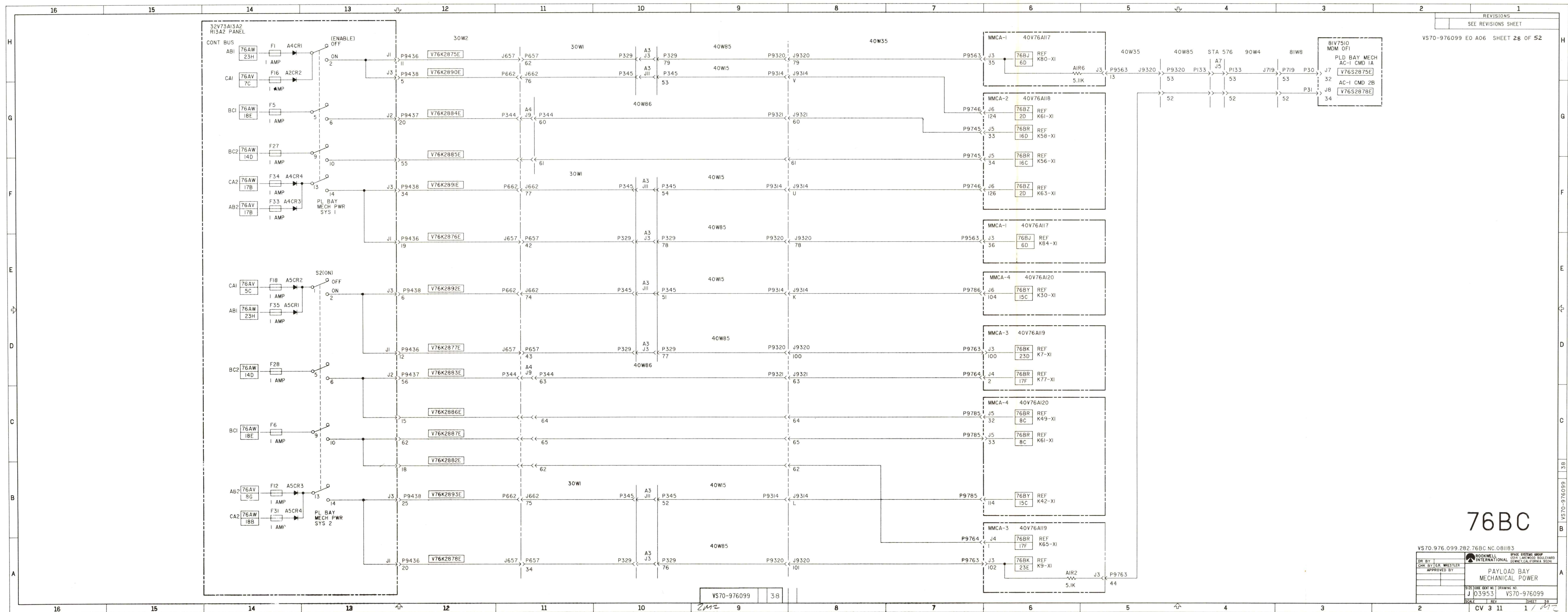
Rockwell International Corporation
Space Division

DC CONTROL BUSES
POWER DISTRIBUTION
PART III

VS70-976099
J 03953

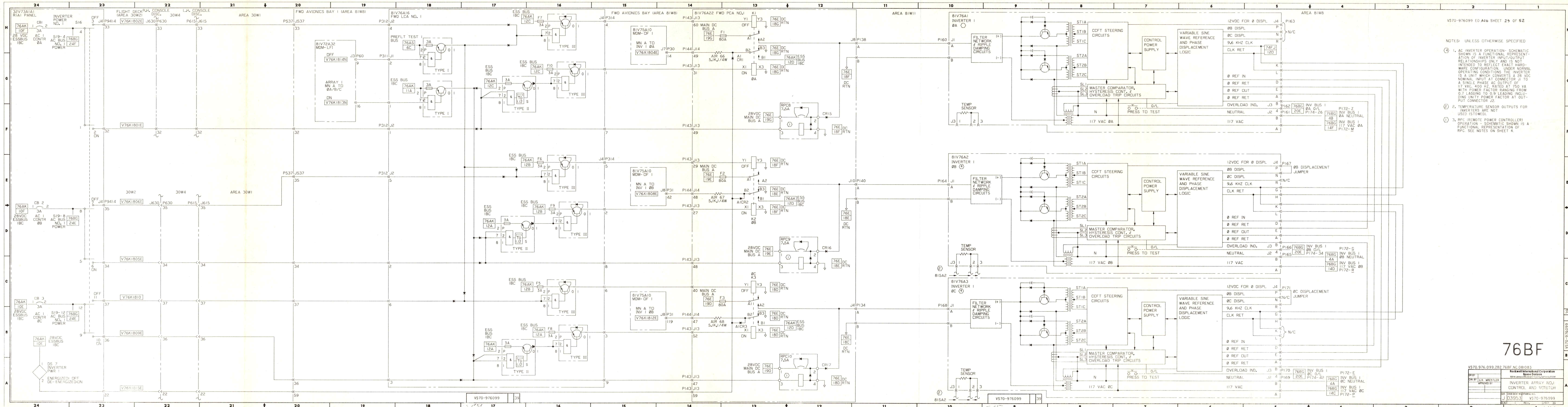
REV. 1





NOTES: UNLESS OTHERWISE SPECIFIED

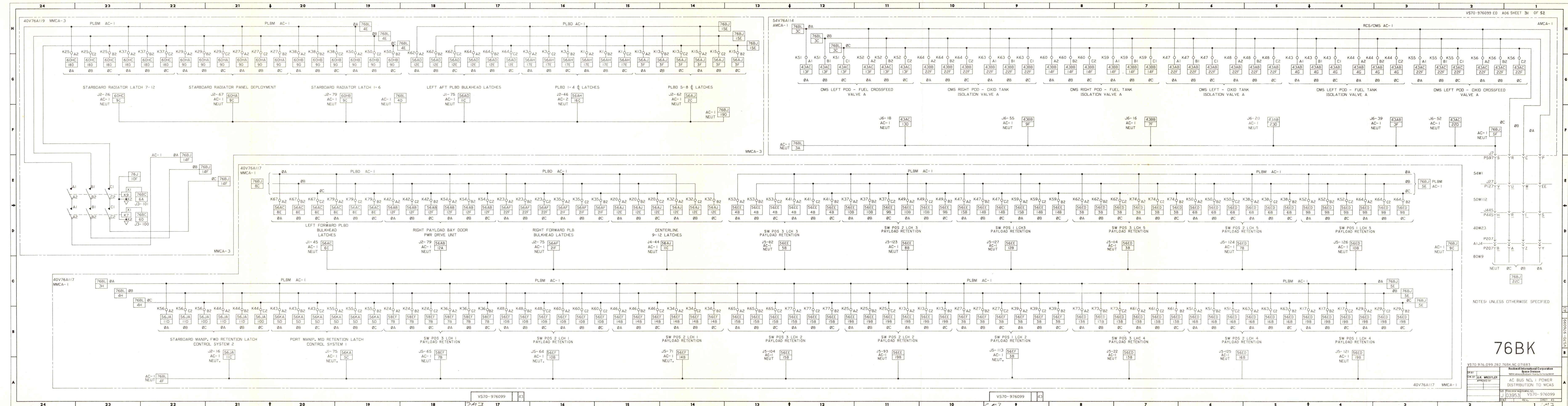
1. AC INVERTER OPERATION - SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF INVERTER INPUT/OUTPUT RELATIONSHIPS ONLY AND IS NOT INTENDED TO REFLECT EXACT HARDWARE CONFIGURATION. UNDER NORMAL OPERATING CONDITIONS, THE INVERTER IS A UNIT WHICH CONVERTS A 28 VDC NOMINAL INPUT AT CONNECTOR J1 TO A SINGLE PHASE AC OUTPUT OF 117 VAC, 400 HZ, RATED AT 750 VA WITH POWER FACTOR RANGING FROM 0.7 LAGGING TO 0.9 LEADING INCLUDING UNITY POWER FACTOR AT OUTPUT CONNECTOR J2.
2. TEMPERATURE SENSOR OUTPUTS FOR INVERTERS ARE NOT USED (STOWED).
3. RPC (REMOTE POWER CONTROLLER) OPERATION - SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF RPC. SEE NOTES ON SHEET 4.



76BF

VS70.976.099.282.768B.NC.071383	
DR BY	Rockwell International Corporation Space Division
CHK BY	12214 Lakewood Boulevard • Downey, California 90241
G.R. WRESTLER APPROVED BY	
AC BUS NO. I POWER DISTRIBUTION TO PANELS	
SIZE	CODE IDENT NO. DRAWING NO.
J	03953 VS70-976099
SCALE	REV. SHEET 41



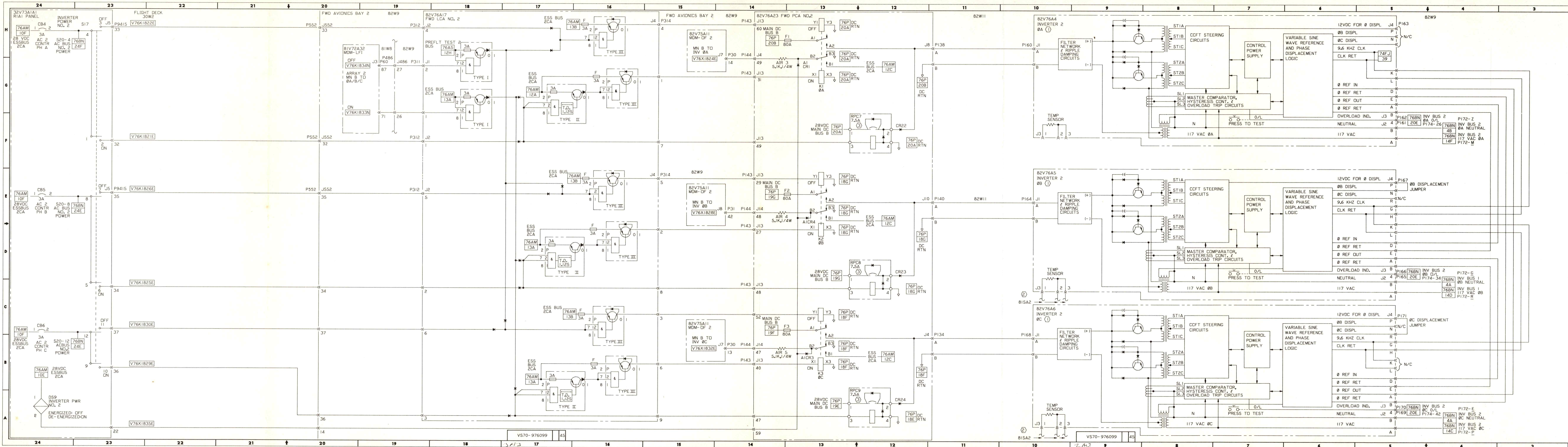


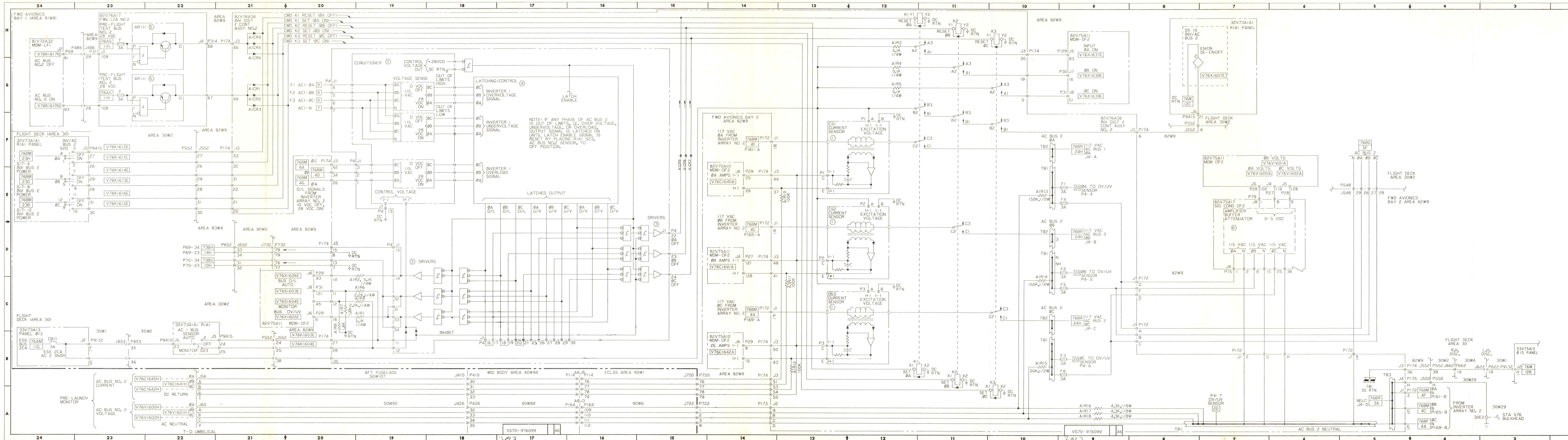
NOTES: UNLESS OTHERWISE SPECIFIED

1. AC INVERTER OPERATION - SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF INVERTER INPUT/OUTPUT RELATIONSHIPS ONLY AND IS NOT INTENDED TO REFLECT EXACT HARDWARE CONFIGURATION. UNDER NORMAL OPERATING CONDITIONS THE INVERTER IS A UNIT WHICH CONVERTS A 28 VDC NOMINAL INPUT AT CONNECTOR J1 TO A SINGLE PHASE AC OUTPUT OF 117 VAC, 400 HZ, RATED AT 750 VA WITH POWER FACTOR RANGING FROM 0.7 LAGGING TO 0.9 LEADING INCLUDING UNITY POWER FACTOR AT OUTPUT CONNECTOR J2.
2. TEMPERATURE SENSOR OUTPUTS FOR INVERTERS ARE NOT USED (STOWED).
3. RPC (REMOTE POWER CONTROLLER) OPERATION - SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF RPC CIRCUIT AND IS NOT INTENDED TO REFLECT EXACT HARDWARE ARRANGEMENT. APPLICATION OF VOLTAGE ABOVE 10.5 VDC NOMINAL TO TERMINAL 3 CLOSING CIRCUIT BETWEEN TERMINALS 1 AND 2. REMOVAL OF VOLTAGE FROM TERMINAL 3 INTERRUPTS CIRCUIT BETWEEN TERMINALS 1 AND 2. THE CURRENT FLOW FROM TERMINAL 1 TO TERMINAL 2 IS AUTOMATICALLY LIMITED TO 137.5 ± 12.5 PERCENT OF RATED CURRENT (2.5 ± 0.5 SEC MAX). TO RESET RPC AFTER AUTOMATIC INTERRUPTION, APPLICATION OF VOLTAGE TO TERMINAL 3 MUST BE INTERRUPTED, THEN RE-ESTABLISHED.

76BM

V570.976.099.282.76BM.NC.010984	
DESIGN	Rockwell International Corporation
CHECKED BY	INVERTER ARRAY NO.2
APPROVED BY	CONTROL AND MONITOR
DATE	03953
SCALE	1/1



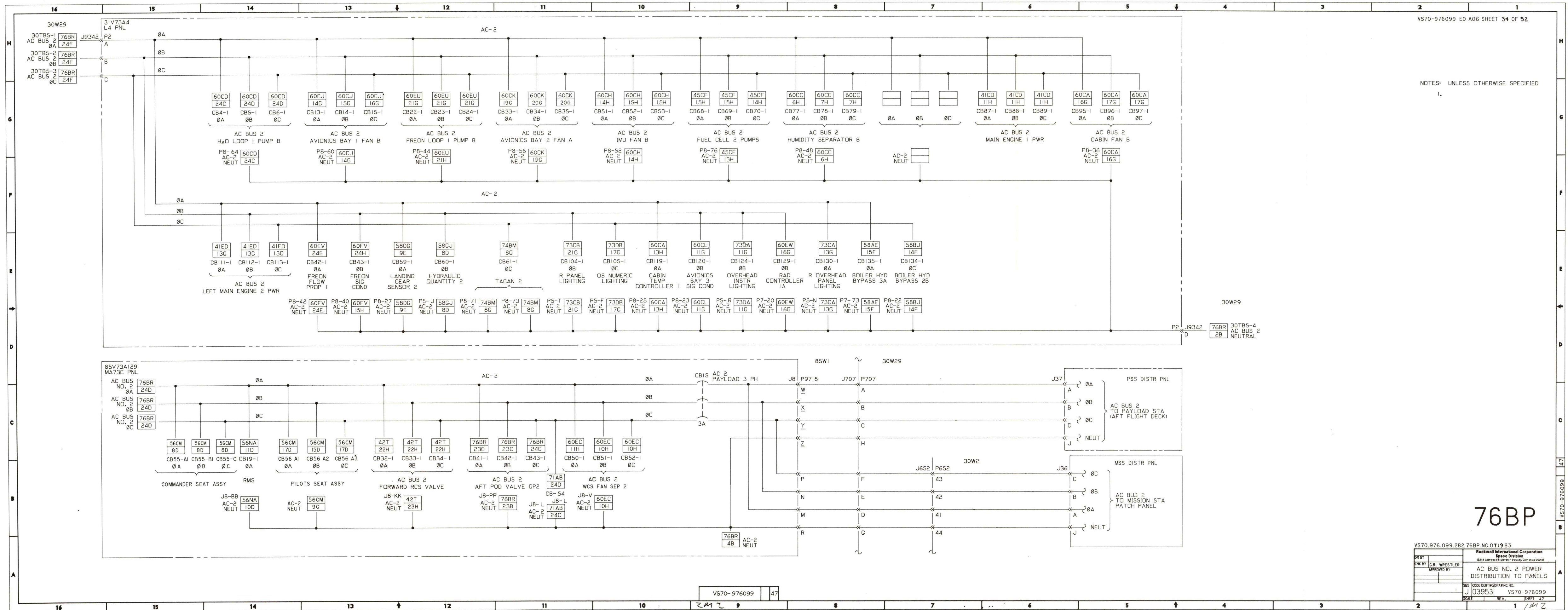


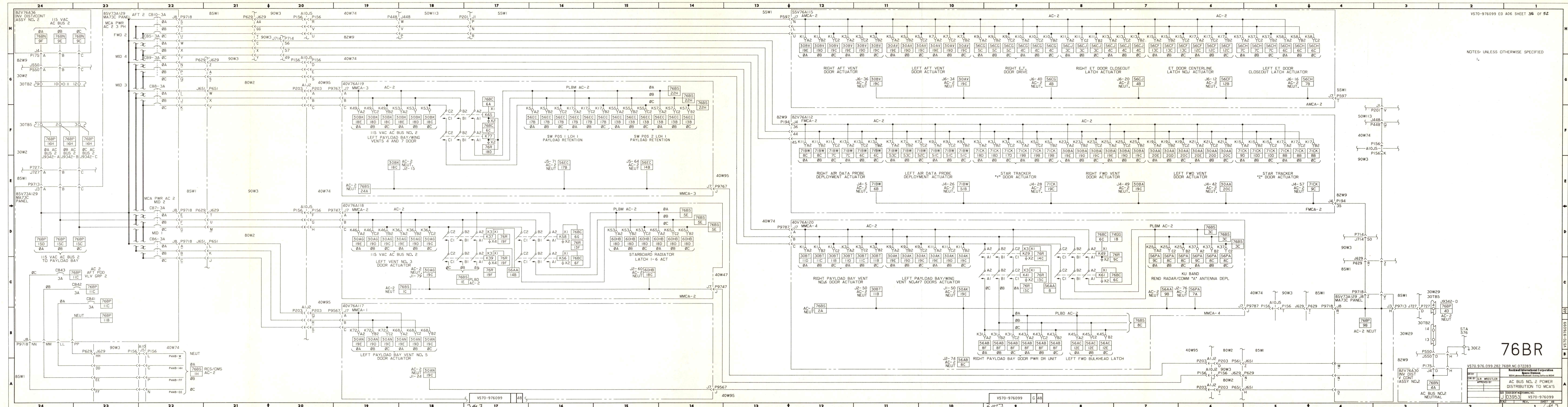
- NOTES: UNLESS OTHERWISE SPECIFIED
1. CURRENT SENSOR OPERATION - SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF CURRENT SENSOR CIRCUIT AND IS NOT INTENDED TO REFLECT EXACT HARDWARE CONFIGURATION. CURRENT IN FEED THRU CONDUCTOR IS SENSED AND CONVERTED TO A 0-5VDC SIGNAL AT OUTPUT PINS C AND E EQUIVALENT TO 0 TO 20 AMPS AT 115 VAC.
 2. COMPARATOR/CONDITIONER OPERATION - SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF COMPARATOR/CONDITIONER CIRCUIT AND IS NOT INTENDED TO REFLECT EXACT HARDWARE CONFIGURATION. VOLTAGE IS SENSED DIRECTLY FROM AC BUS NO. 1 AND COMPARED TO PRE-SET HIGH AND LOW LIMITS. IF AN OVER VOLTAGE OR UNDER VOLTAGE CONDITION IS DETECTED, SIGNAL IS OUTPUT TO LATCHING CONTROL CIRCUIT ON APPROPRIATE CHANNEL.
 3. DRIVER OPERATION - SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF DRIVER CIRCUIT AND IS NOT INTENDED TO REFLECT EXACT HARDWARE CONFIGURATION. DRIVER PROVIDES REQUIRED SIGNAL AMPLIFICATION TO OPERATE SUBSEQUENT CIRCUITS.
 4. LATCHING/CONTROL OPERATION - SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF LATCHING/CONTROL CIRCUIT AND IS NOT INTENDED TO REFLECT EXACT HARDWARE CONFIGURATION. WHEN AN UNDER-VOLTAGE, OVERVOLTAGE OR OVERLOAD CONDITION IS DETECTED, THE SIGNAL IS LATCHED ON AND WILL REMAIN ON AFTER AC BUS 12 HAS BEEN DE-ENERGIZED, UNTIL SENSOR IS RESET BY PLACING AC BUS SENSOR NO. 1 SWITCH (R1A1-523) TO THE OFF POSITION.
 5. AR101 DRIVER MODULE OPERATION - SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF DRIVER CIRCUIT AND IS NOT INTENDED TO REFLECT EXACT HARDWARE CONFIGURATION. WHEN POSITIVE SIGNAL IS APPLIED TO TERMINAL 1, CIRCUIT IS CLOSED BETWEEN TERMINALS P & Q.
 6. ABA (AMPLIFIER, BUFFER, ATTENUATOR) AND SIGNAL CONDITIONER FUNCTIONAL REPRESENTATIONS NOT SHOWN ON THIS DRAWING DUE TO THE COMPLEXITY OF INTERCONNECT-IONS BETWEEN MEASUREMENTS NOT APPLICABLE TO THIS DRAWING. THE FUNCTIONAL SCHEMATIC AND MEASUREMENT INTER-RELATIONSHIPS WILL BE SHOWN ON OPERATIONAL INSTRUMENTATION DIAGRAMS TO BE IDENTIFIED AT A FUTURE DATE.

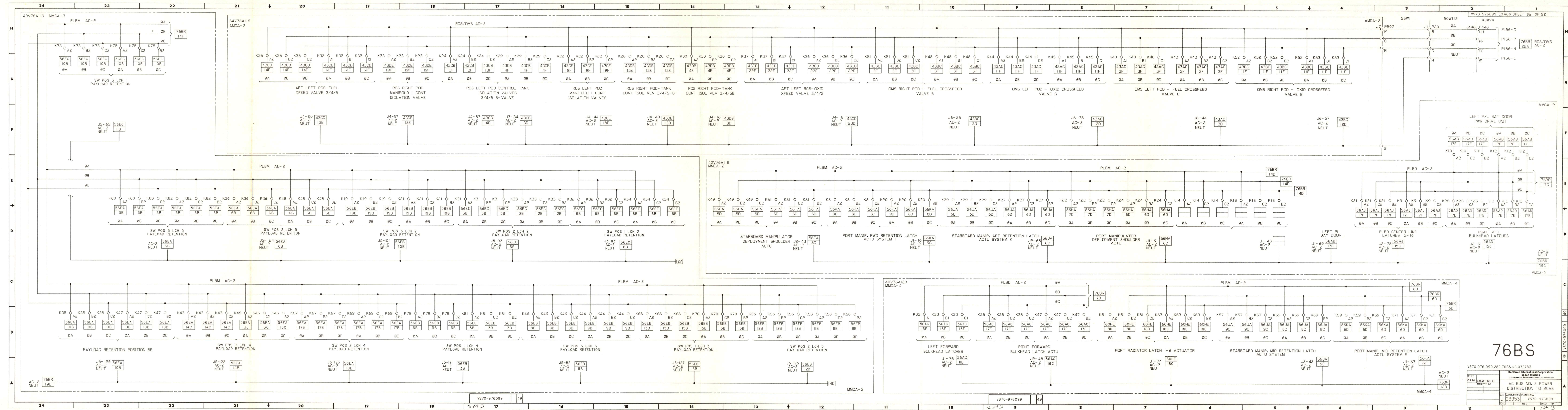
76BN

VS70-976099-289 76BN.NC.081083	
REV	Rockwell International Corporation
CHK BY	10214 Laboratory Instrument & Systems, Copyright 1992
APPROVED BY	AC BUS NO. 2 CONTROL AND MONITOR
DATE	10/31/93
BY	10/31/93

VS70.976.099.282.76BP.NC.071983			
DR BY		Rockwell International Corporation Space Division	
CHK BY G.R. WRESTLER		12214 Latwood Boulevard • Downey, California 90241	
APPROVED BY		AC BUS NO. 2 POWER DISTRIBUTION TO PANELS	
SIZE		CODE IDENT NO. DRAWING NO.	
J		03953 VS70-976099	
SCALE		REV. SHEET 47	







6BS

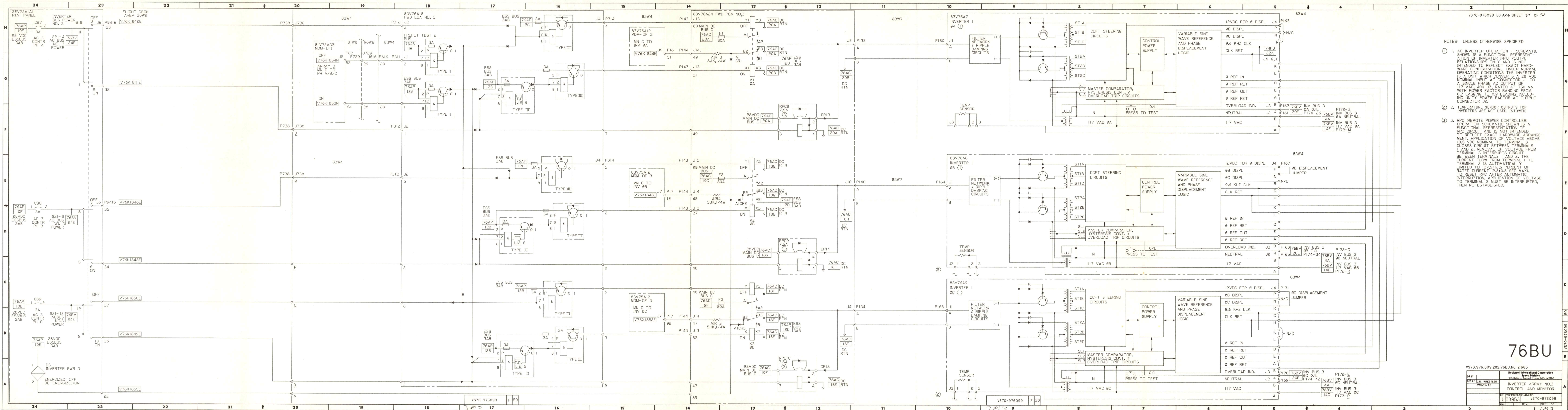
976.099.282.76BS.NC.072783	
Rockwell International Corporation Service Division 12214 Lakeside Boulevard • Fremont, California 94524	
G.R. WRESTLER APPROVED BY	AC BUS NO. 2 POWER DISTRIBUTION TO MCAS
SIZE	CODE AND DRAWING NO.
J	03953 VS70-976099
SCALE	REV
	SHEET 49

- NOTES: UNLESS OTHERWISE SPECIFIED
1. AC INVERTER OPERATION - SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF INVERTER INPUT/OUTPUT RELATIONSHIPS ONLY AND IS NOT INTENDED TO REFLECT EXACT HARDWARE CONFIGURATION. UNDER NORMAL OPERATING CONDITIONS THE INVERTER IS A UNIT WHICH CONVERTS A 28 VDC NOMINAL INPUT AT CONNECTOR J1 TO A SINGLE PHASE AC OUTPUT OF 117 VAC, 400 HZ, RATED AT 750 VA WITH POWER FACTOR RANGING FROM 0.7 LAGGING TO 0.9 LEADING INCLUDING UNITY POWER FACTOR AT OUTPUT CONNECTOR J2.
 2. TEMPERATURE SENSOR OUTPUTS FOR INVERTERS ARE NOT USED. (STOWED)
 3. RPC (REMOTE POWER CONTROLLER) OPERATION SCHEMATIC SHOWN IS A FUNCTIONAL REPRESENTATION OF RPC CIRCUIT AND IS NOT INTENDED TO REFLECT EXACT HARDWARE ARRANGEMENT. APPLICATION OF VOLTAGE ABOVE 10.5 VDC NOMINAL TO TERMINAL 3 CLOSING CIRCUIT BETWEEN TERMINALS 1 AND 2, REMOVAL OF VOLTAGE FROM TERMINAL 3 INTERRUPTS CIRCUIT. BETWEEN TERMINALS 1 AND 2, THE CURRENT FLOW FROM TERMINAL 1 TO TERMINAL 2 IS AUTOMATICALLY LIMITED TO 137.5±12.5 PERCENT OF RATED CURRENT (2.5±0.5 SEC MAX). TO RESET RPC AFTER AUTOMATIC INTERRUPTION, APPLICATION OF VOLTAGE TO TERMINAL 3 MUST BE INTERRUPTED, THEN RE-ESTABLISHED.

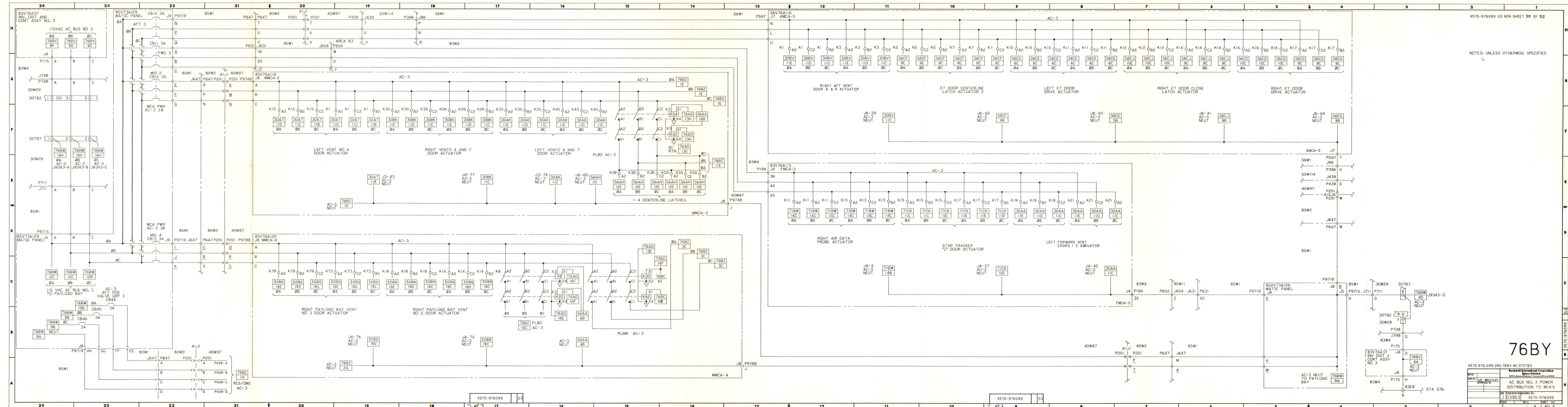
76BU

VS70-976-099-282-76BU.NC.121683

DR BY	Rockwell International Corporation
CHK BY	Space Division
APPROVED BY	INVERTER ARRAY NO.3
	CONTROL AND MONITOR
DATE	03953
SCALE	VS70-976099
REV.	1/17

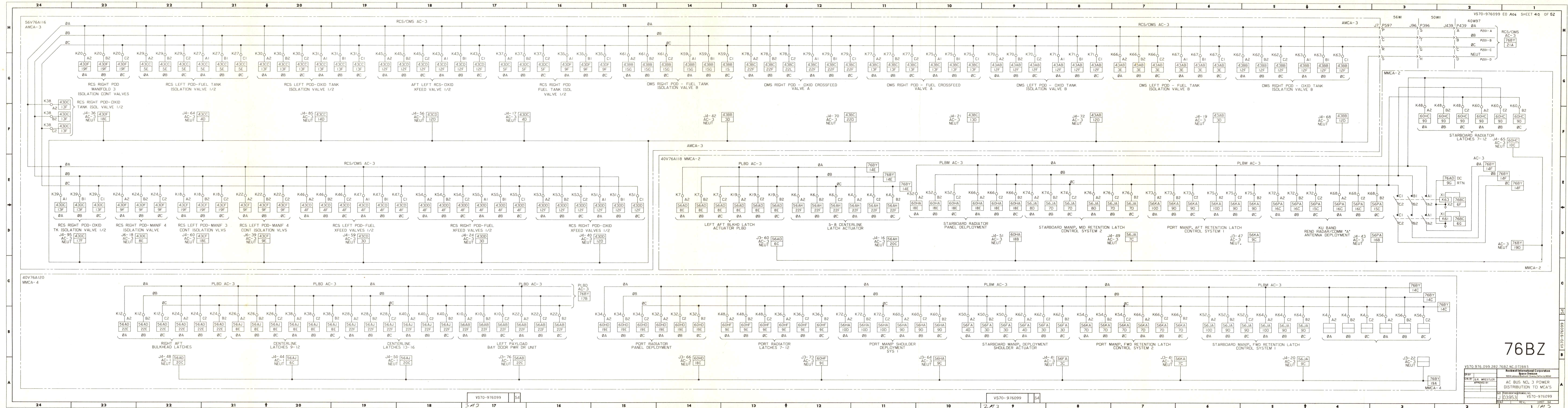




NOTES: UNLESS OTHERWISE SPECIFIED
1.

76BY

VS70-976099-282-76BY-NC-072783
Rockwell International Corporation
Space Division
10754 Lakeside Boulevard, Torrance, California 90504
AC BUS NO. 3 POWER
DISTRIBUTION TO MCA'S
J 03953
VS70-976099
REV. 1/1/83



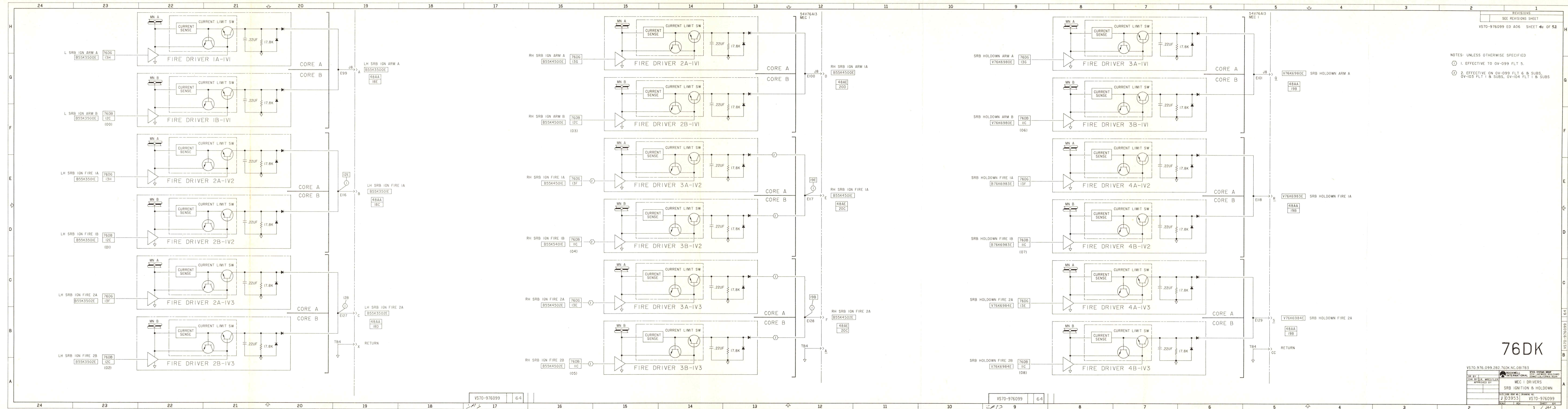
76BZ

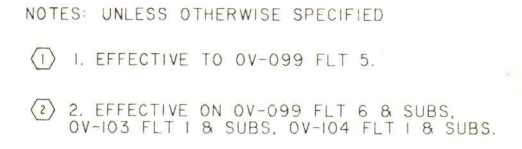
V570-976099 E0 AC4 SHEET 40 OF 52

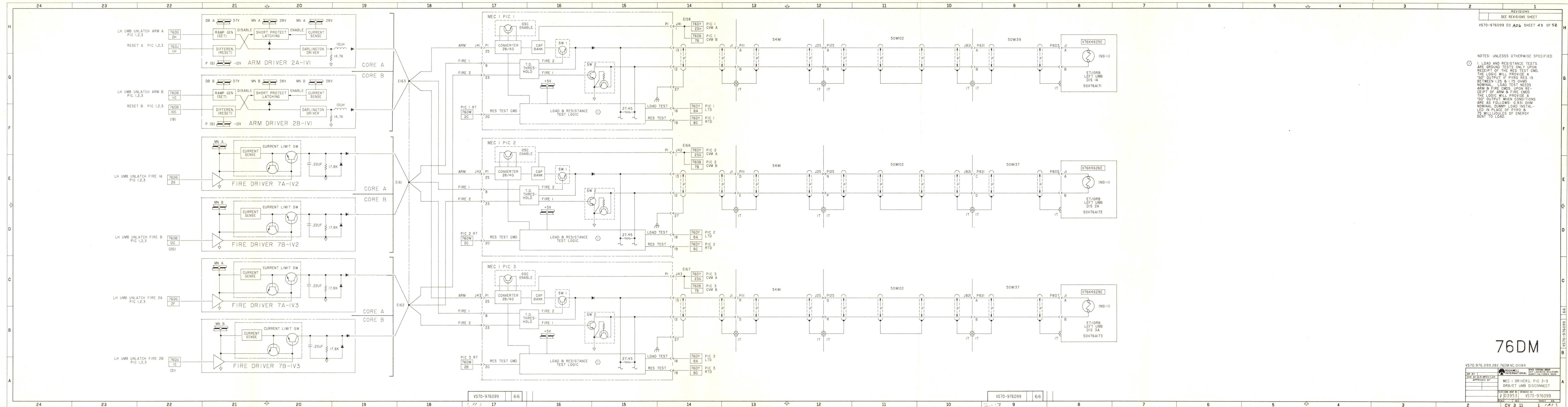
V570-976099 NC.072883

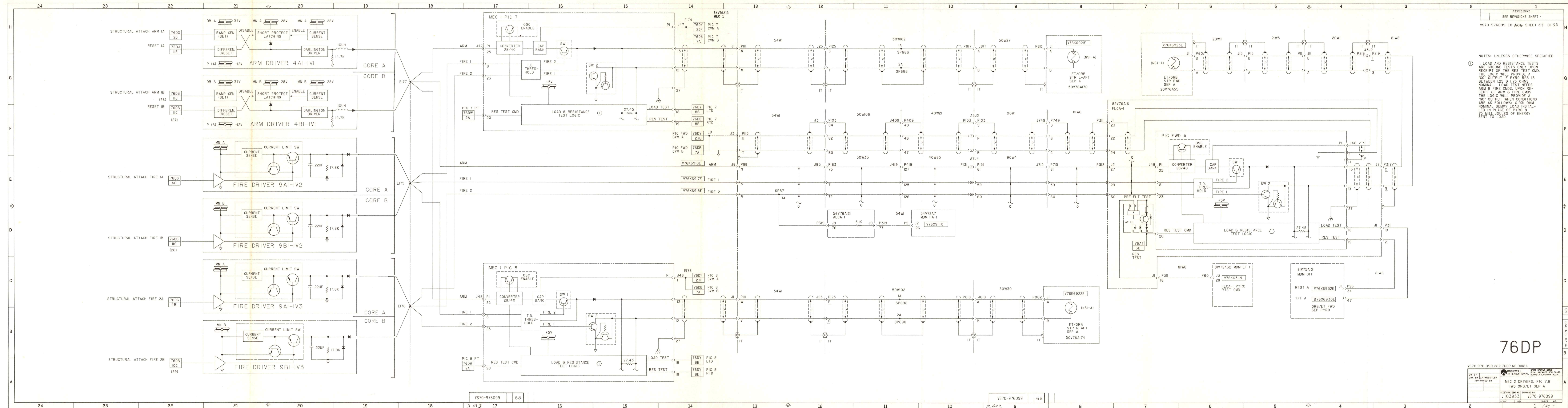
DESIGNED BY	ROCKWELL INTERNATIONAL CORPORATION
APPROVED BY	AC BUS NO. 3 POWER DISTRIBUTION TO MCA'S
DATE	10/3/53
REV.	1

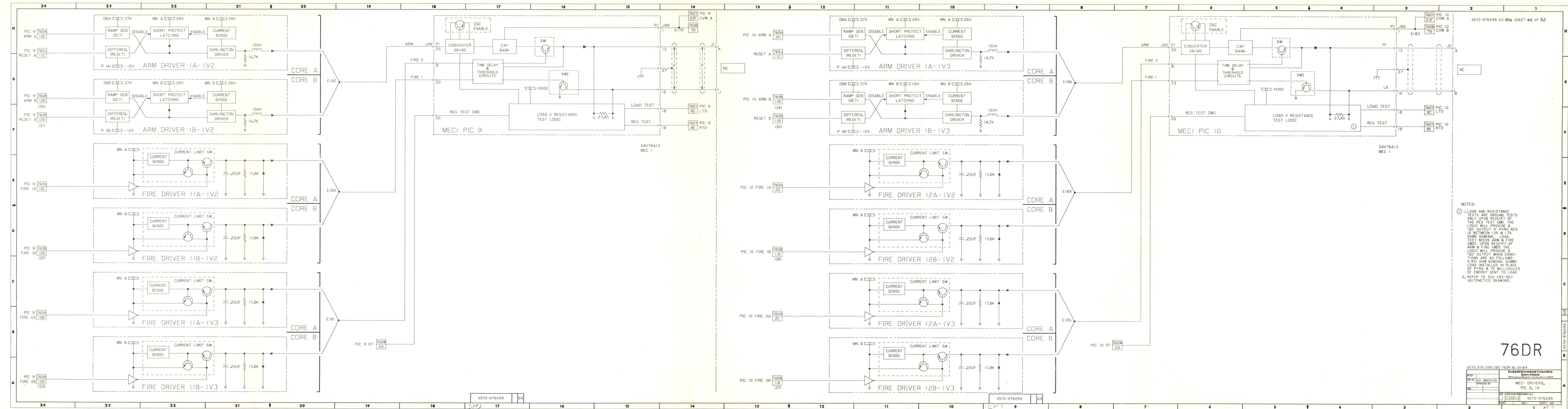
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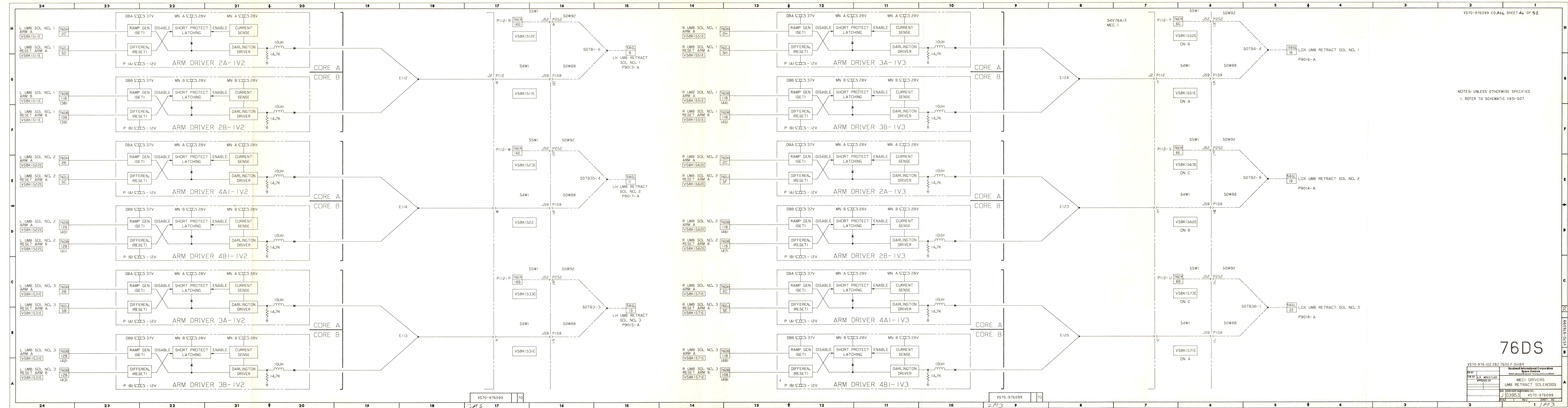




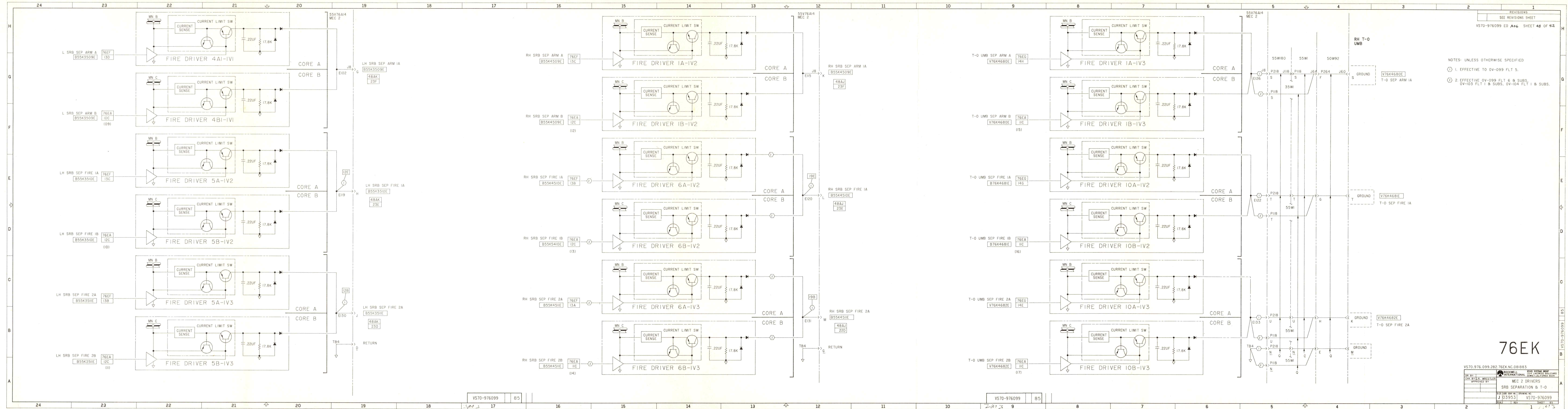


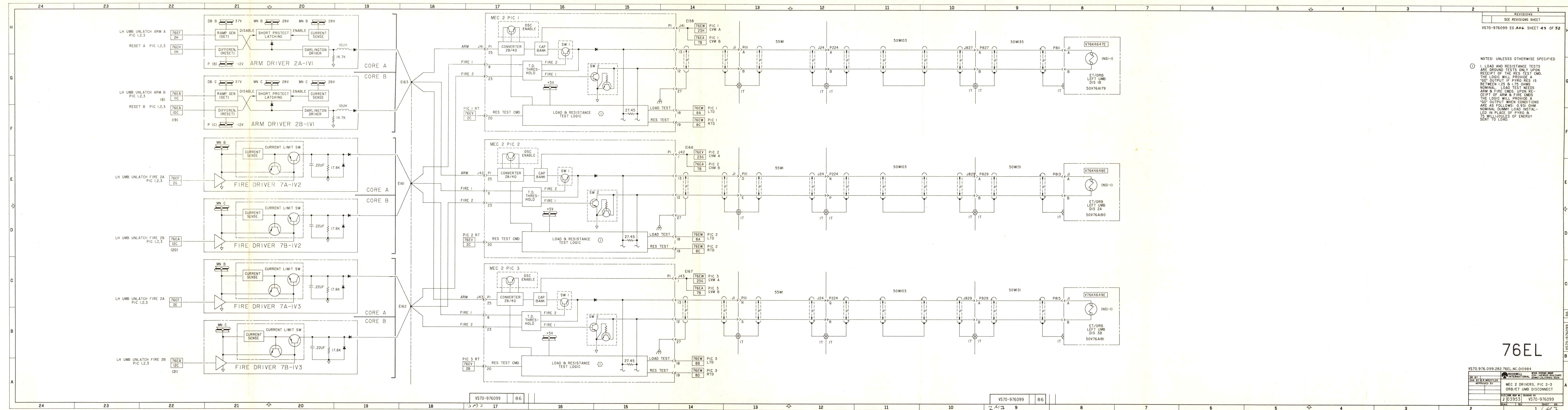


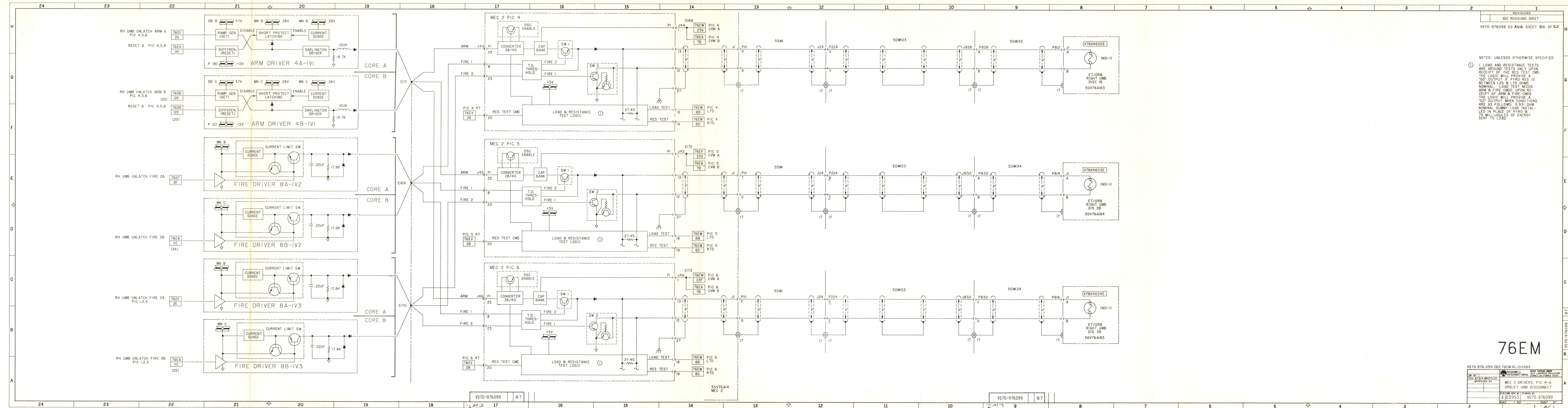


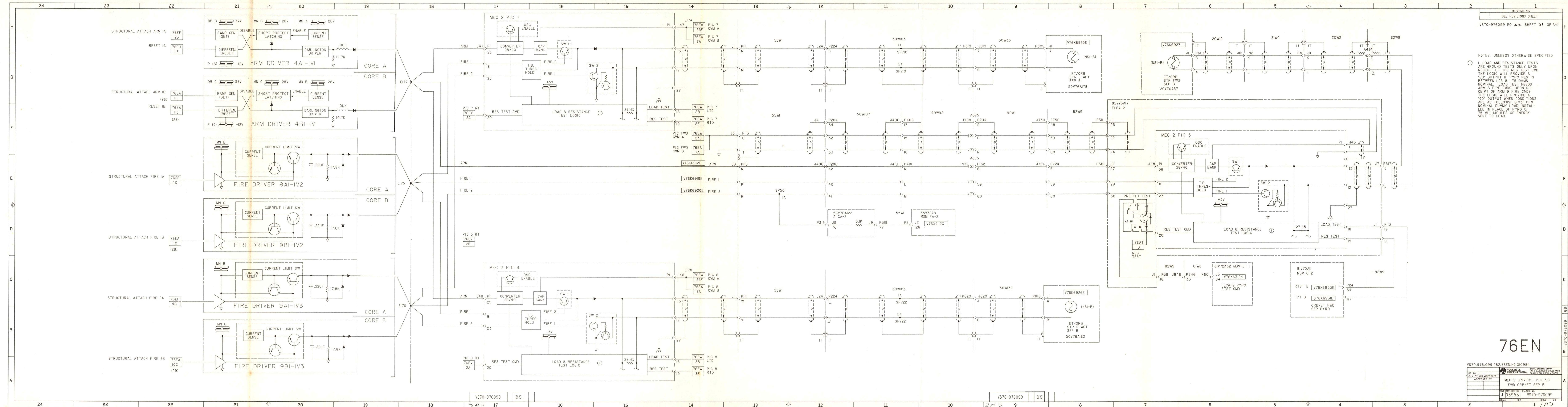












NOTES: UNLESS OTHERWISE SPECIFIED
1. LOAD AND RESISTANCE TESTS ARE GROUND TESTS ONLY UPON RECEIPT OF THE RES TEST CMD. THE LOGIC WILL PROVIDE A "GO" OUTPUT IF PYRO RES IS BETWEEN 1.25 B 1.75 OHMS. NOMINAL LOAD TEST NEEDS ARM B FIRE CMDS. UPON RECEIPT OF ARM B FIRE CMDS THE LOGIC WILL PROVIDE A "GO" OUTPUT WHEN CONDITIONS ARE AS FOLLOWS: 0.931 OHM NOMINAL DUMMY LOAD INSTALLED IN PLACE OF PYRO B 75 MILLIJOULES OF ENERGY SENT TO LOAD.

