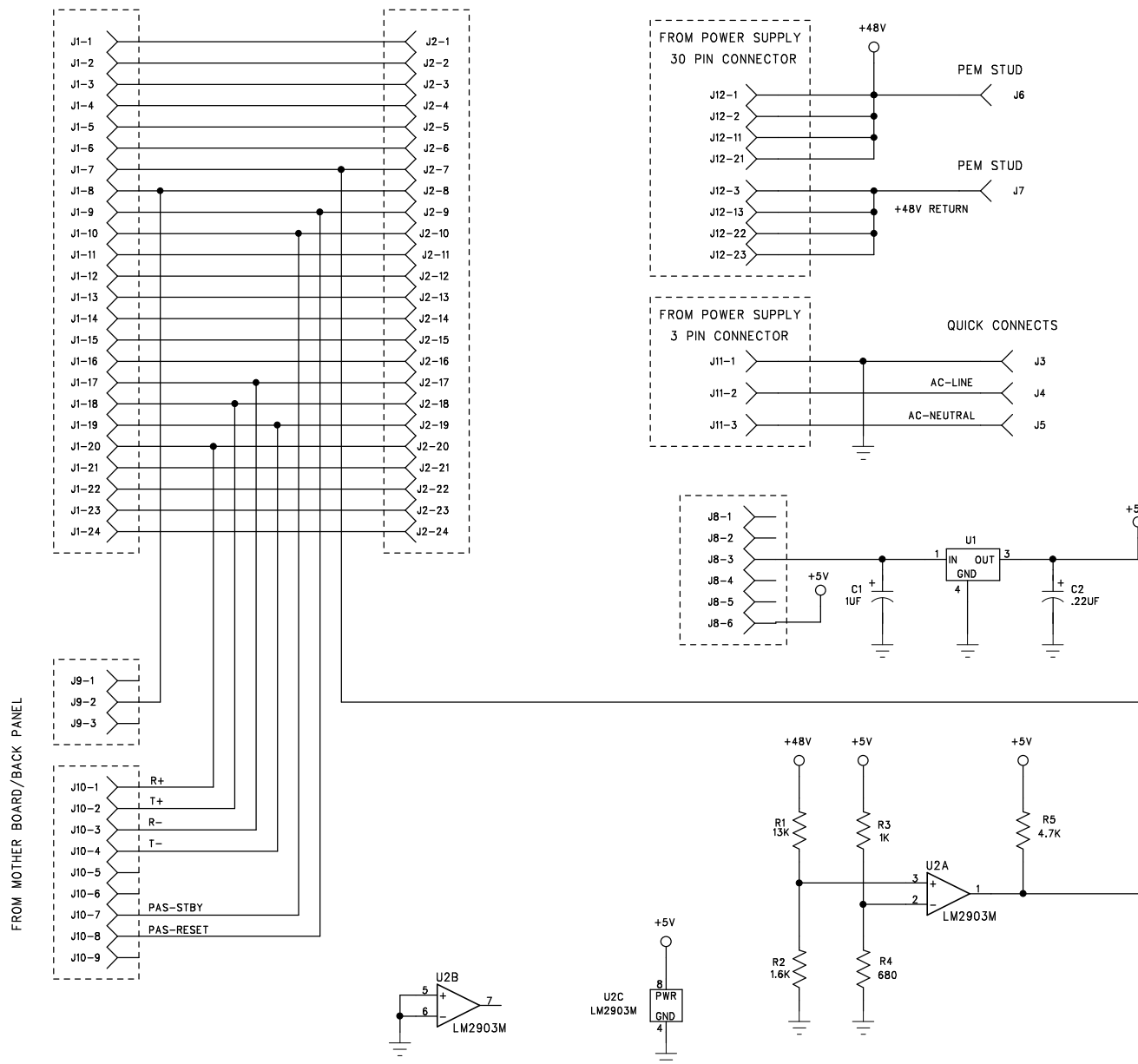
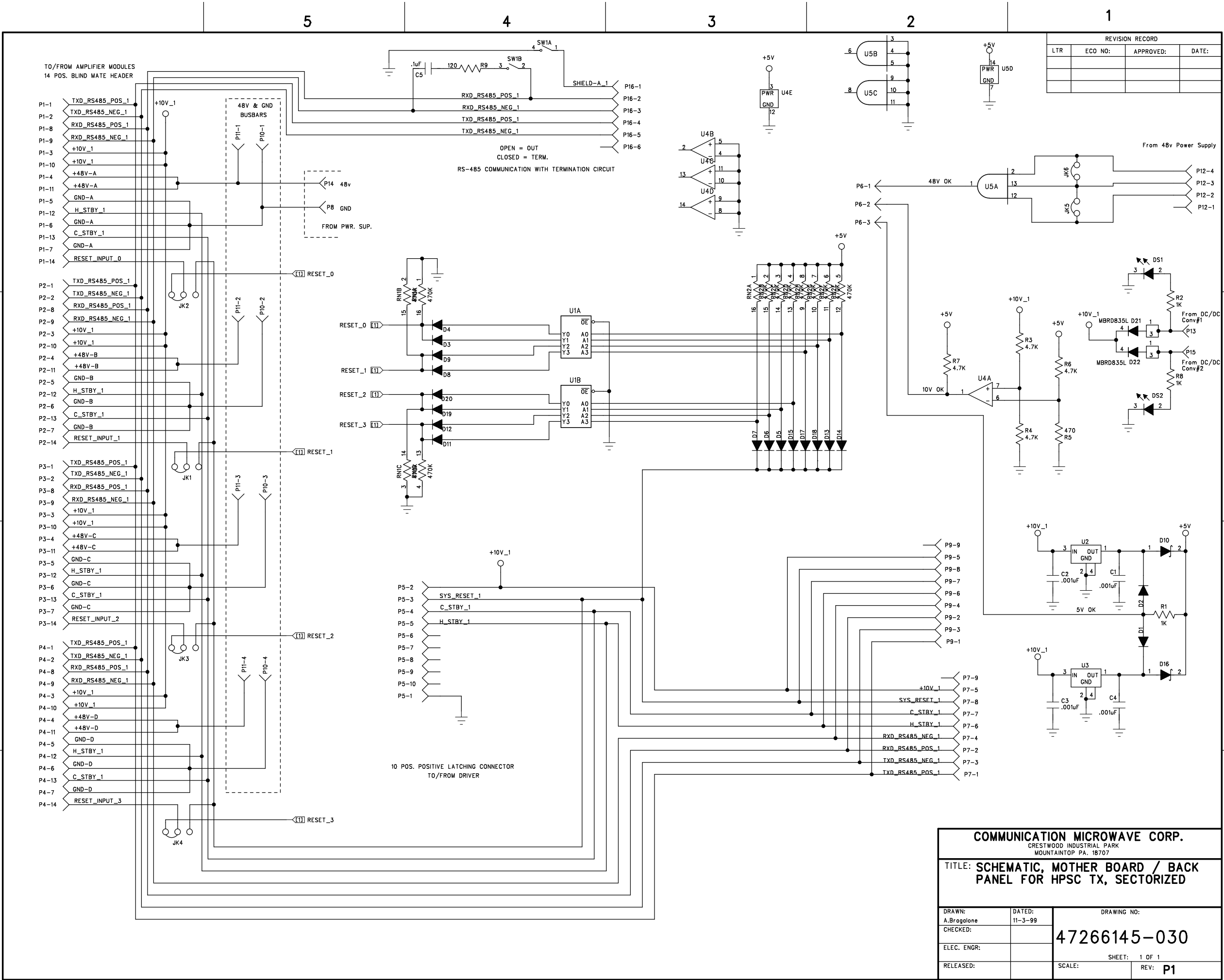


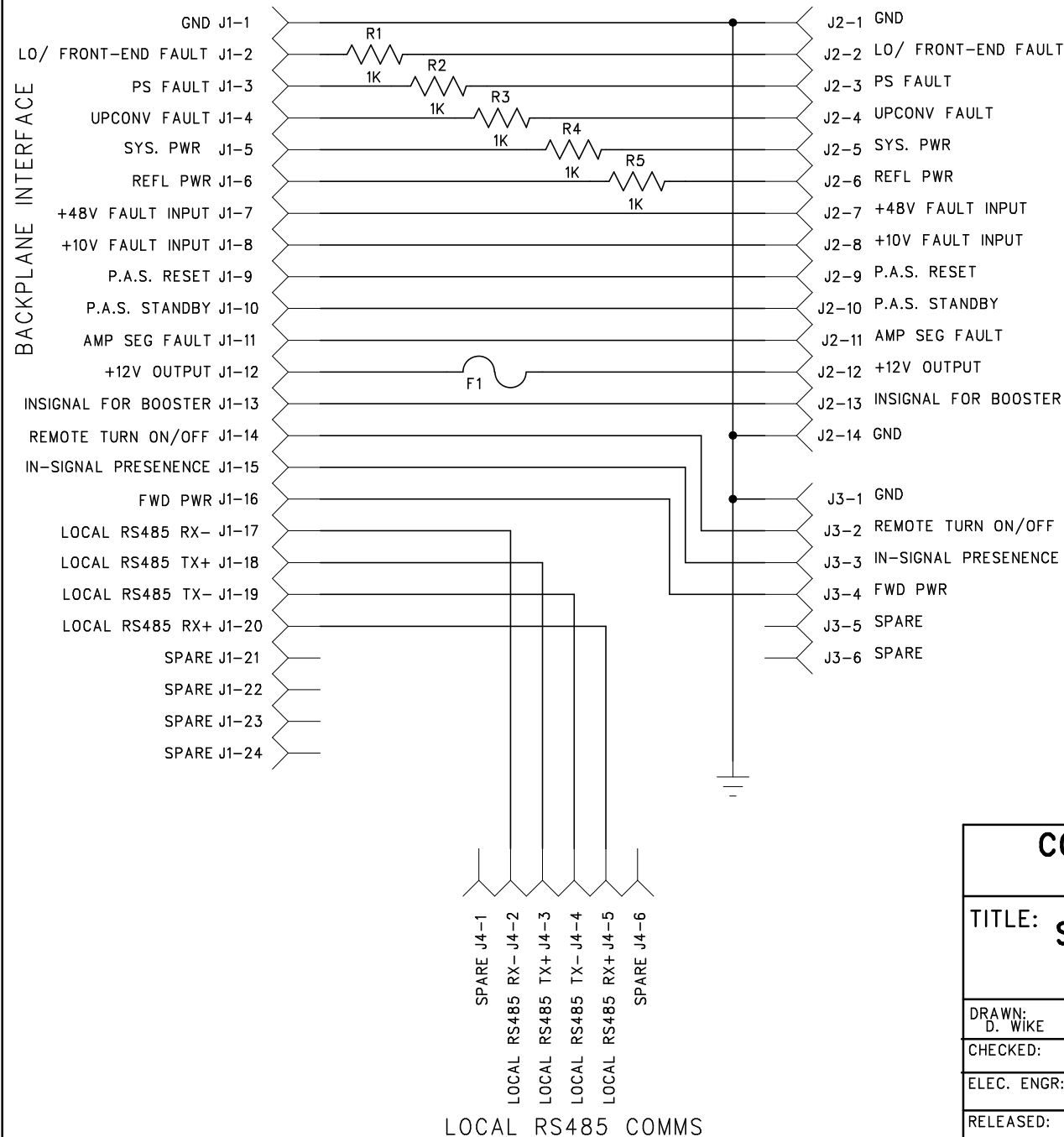
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



 THOMCAST COMMUNICATIONS Inc. COMWAVE DIVISION			
TITLE: SCHEMATIC, POWER SUPPLY BACK PLANE, HPSC TX, SECTORIZED			
DRAWN: K.HARDING	DATED: 12-21-99	DRAWING NO: B-47266165-030	
CHECKED: A.BRAGALONE	12-21-99	SHEET: 1 of 1	
ELEC. ENGR:		RELEASED:	SCALE:
			REV: P1



BACKPLANE INTERFACE



DIAGNOSTICS CONNECTOR

AGILE CONTROLLER INTERFACE

REVISION RECORD

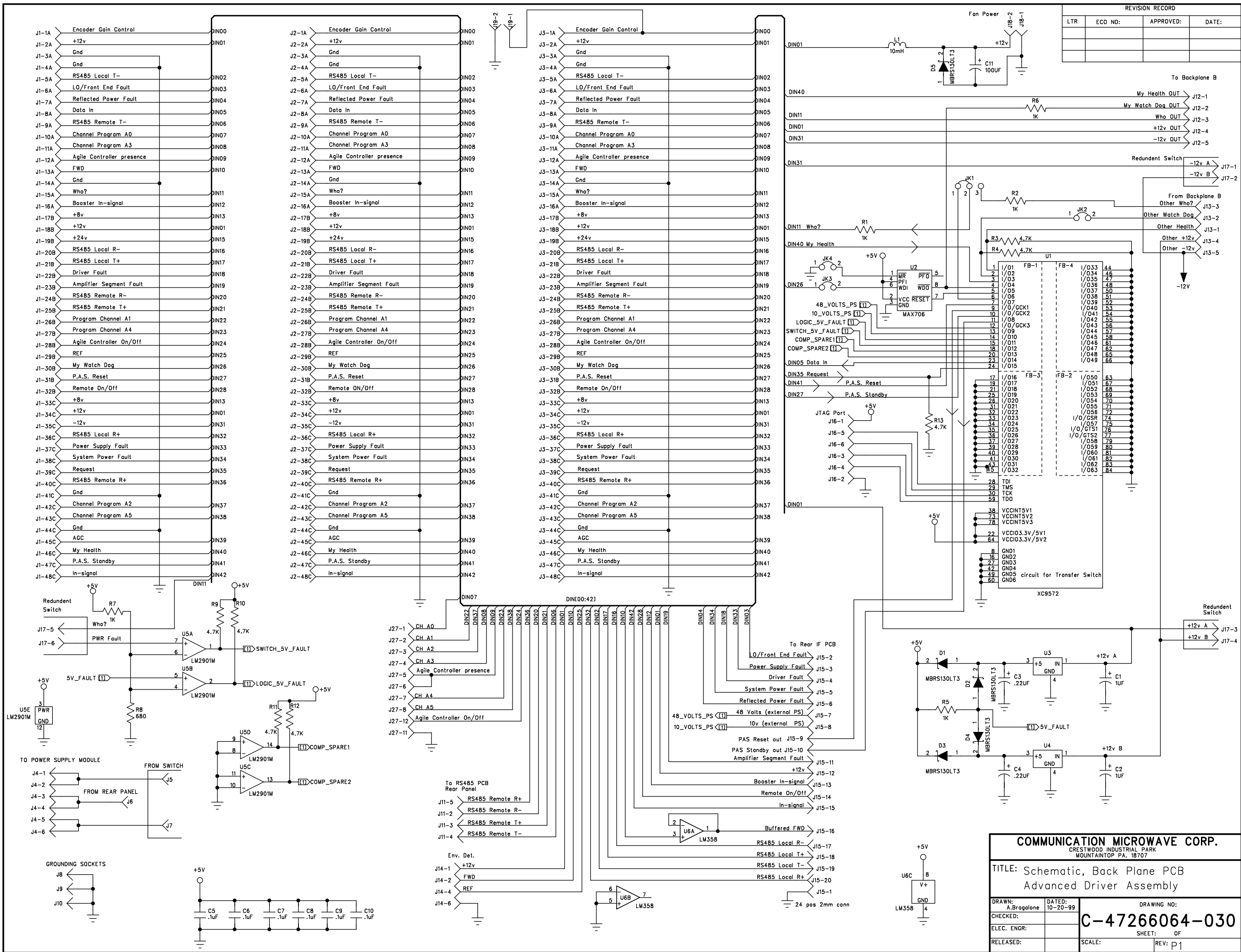
LTR	ECO NO:	APPROVED:	DATE:

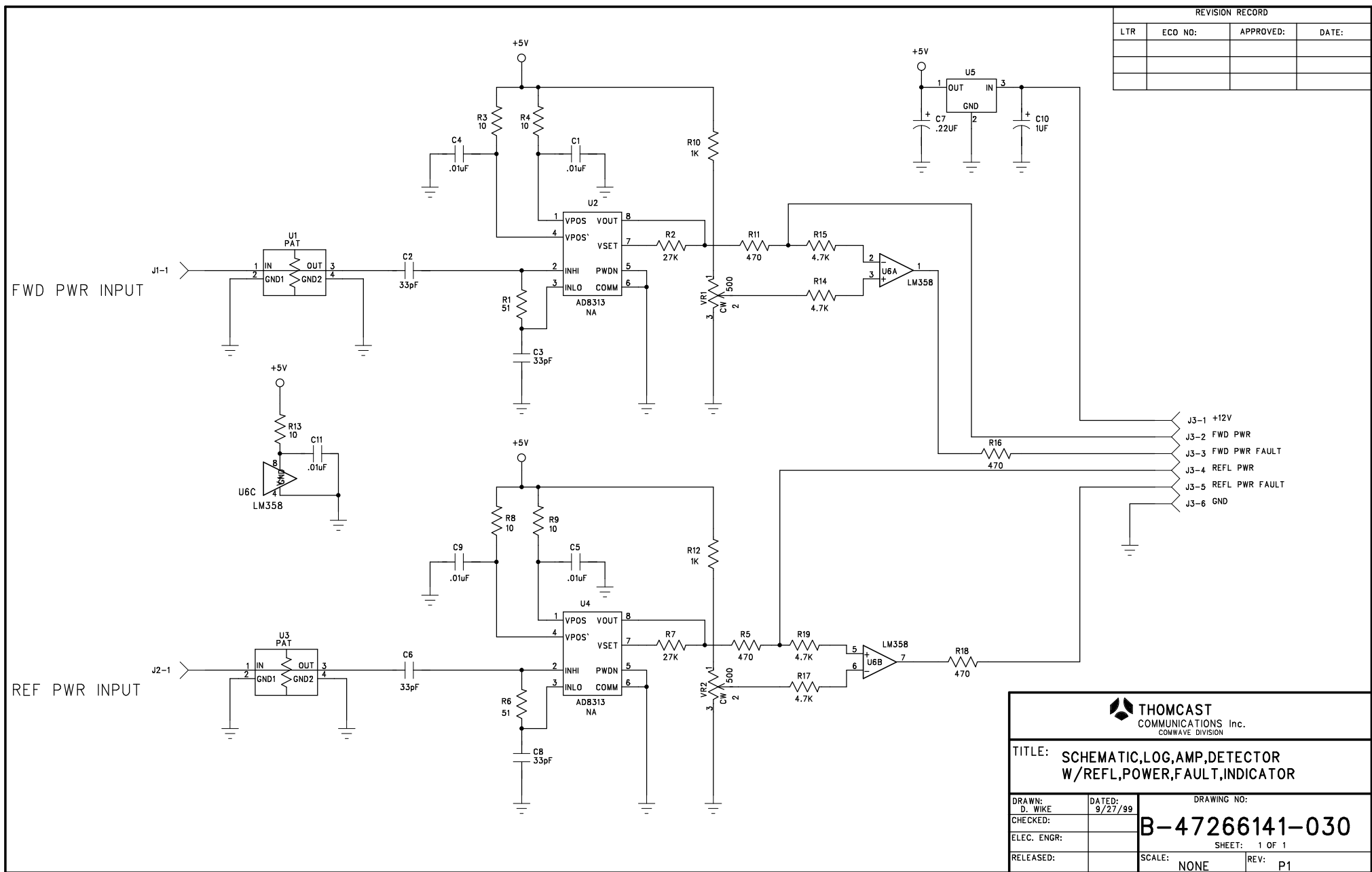
COMMUNICATION MICROWAVE CORP.

CRESTWOOD INDUSTRIAL PARK
MOUNTAINTOP PA. 18707

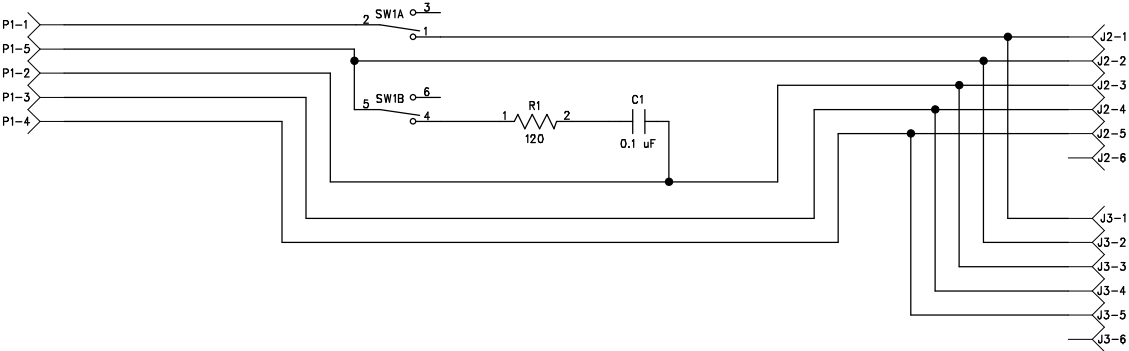
TITLE: SCHEMATIC, REAR PANEL INTERFACE

DRAWN: D. WIKE	DATED: 10/15/99	DRAWING NO: A-47266066-030	
CHECKED:		SHEET: 1 OF 1	
ELEC. ENGR:		SCALE: NONE	REV: P1
RELEASED:			



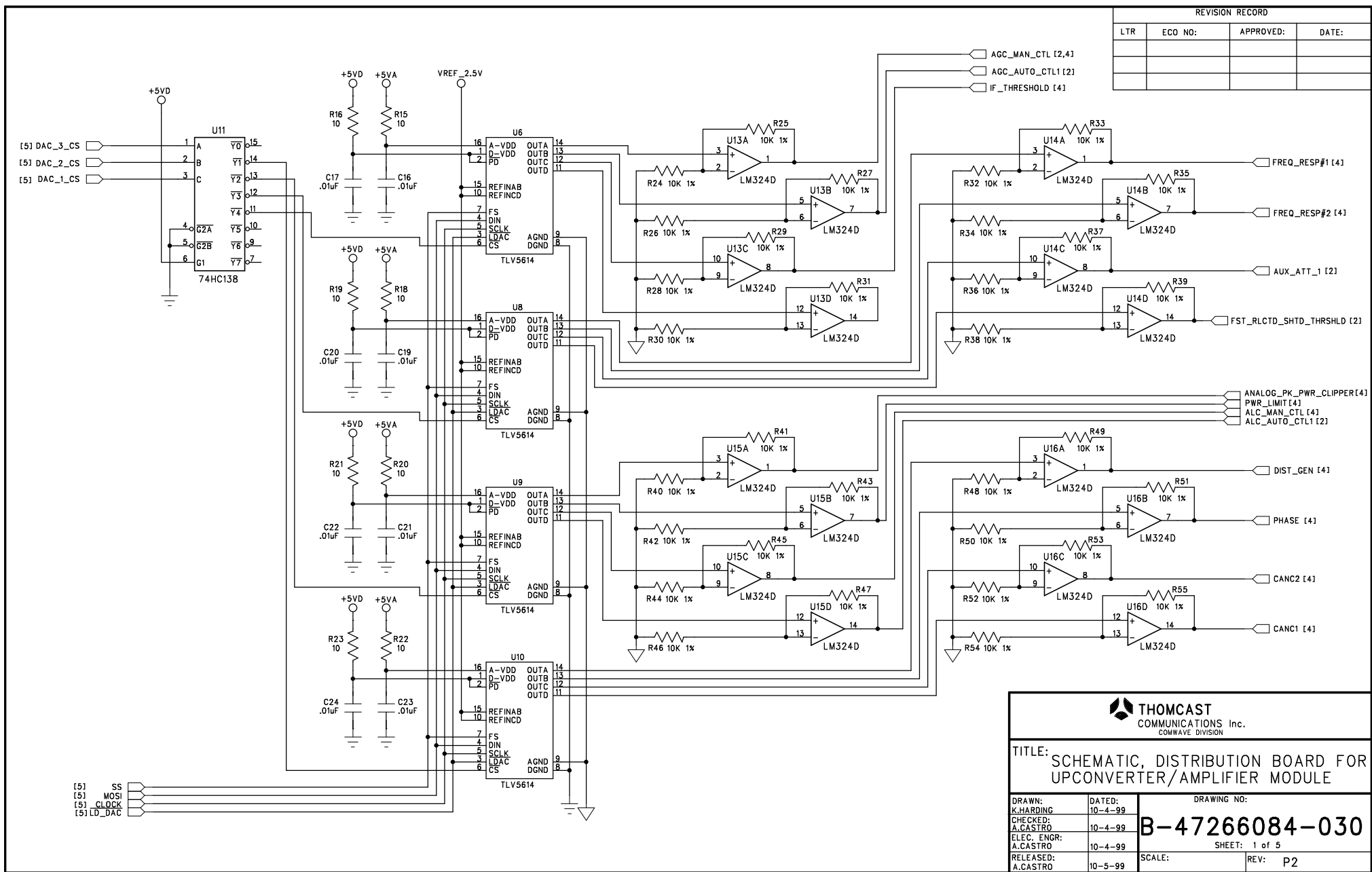


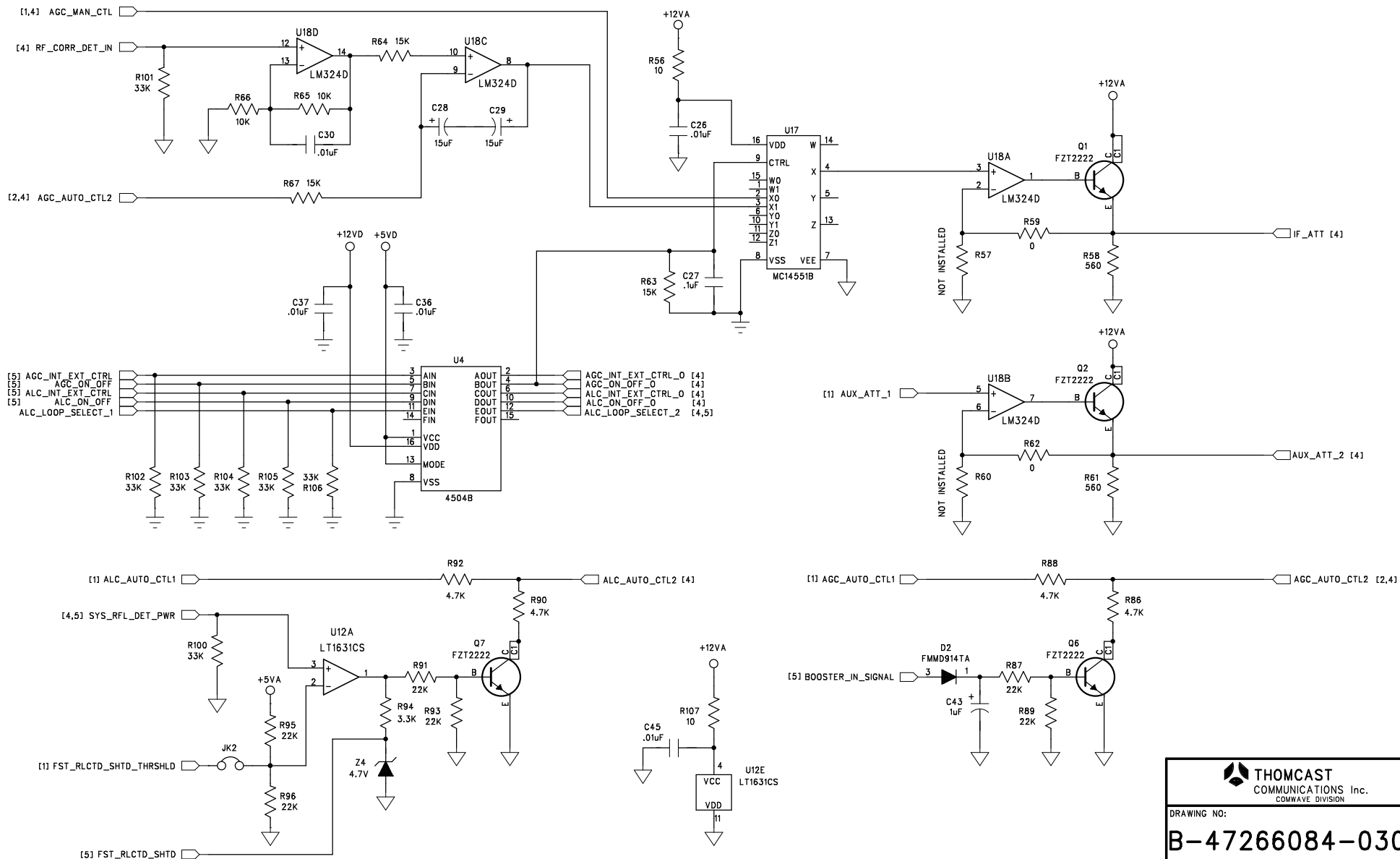
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



- NOTES:
1. DPDT SWITCH SW1 IS CLOSED ONLY AT LAST UNIT IN NETWORK TO TERMINATE PC TX NET & PROVIDE FRAME GND.
 2. SCHEMATIC OF ISSUE 1 PC BOARD.

COMMUNICATION MICROWAVE CORP. CRESTWOOD INDUSTRIAL PARK MOUNTAINTOP, PA. 18707			
TITLE: RS-485 COMMUNICATIONS INTERFACE, SB050B PS CHASSIS			
DRAWN: D. PAJSKI	DATED: 6-20-95	B-33-304-01	
CHECKED:			
ELEC. ENGR:			
RELEASED:			
SHEET: 1 OF 1		SCALE:	REV: A





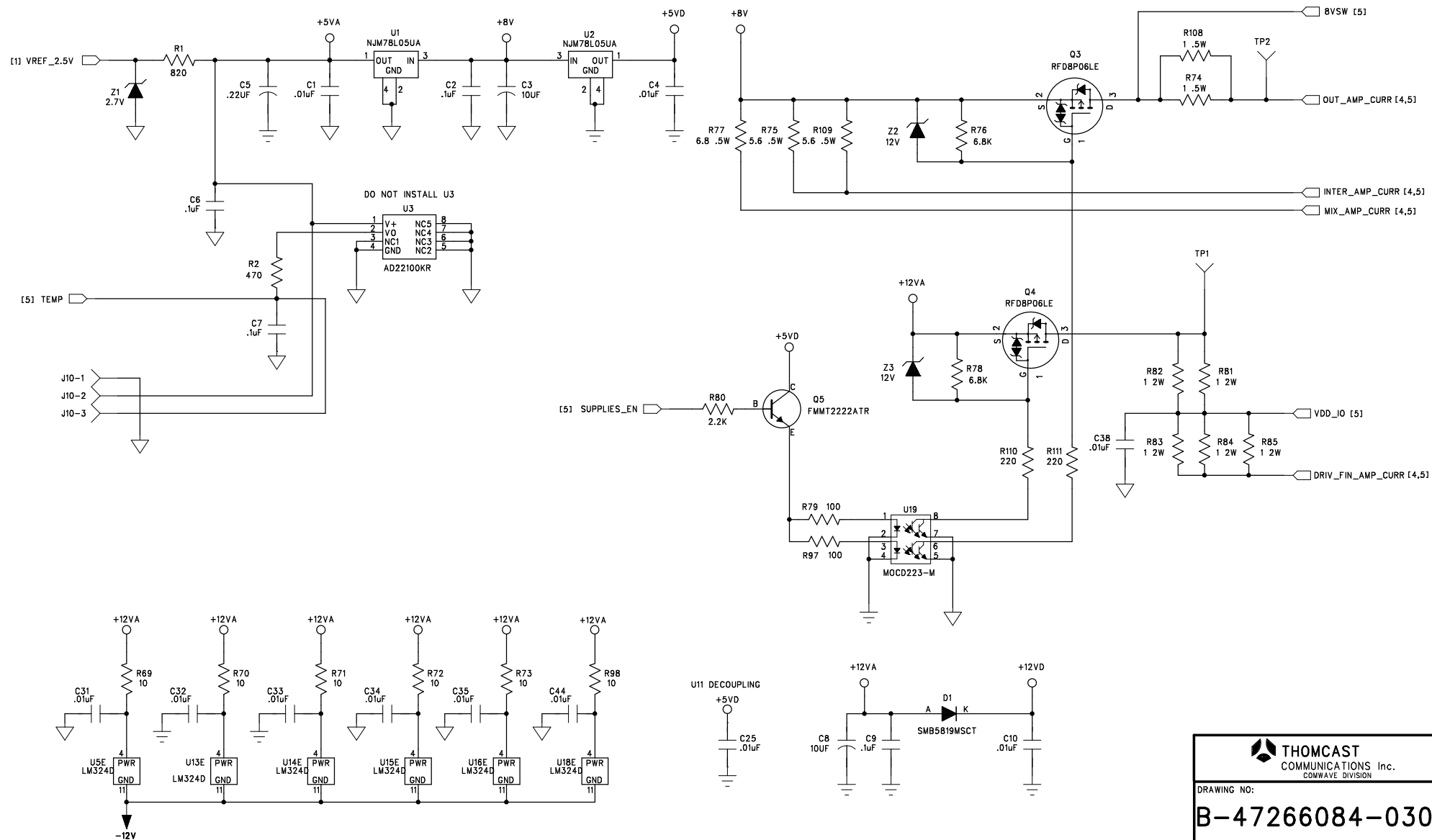
THOMCAST
COMMUNICATIONS Inc.
COMWAVE DIVISION

DRAWING NO:

B-47266084-030

SHEET: 2 of 5

SEE SHEET ONE



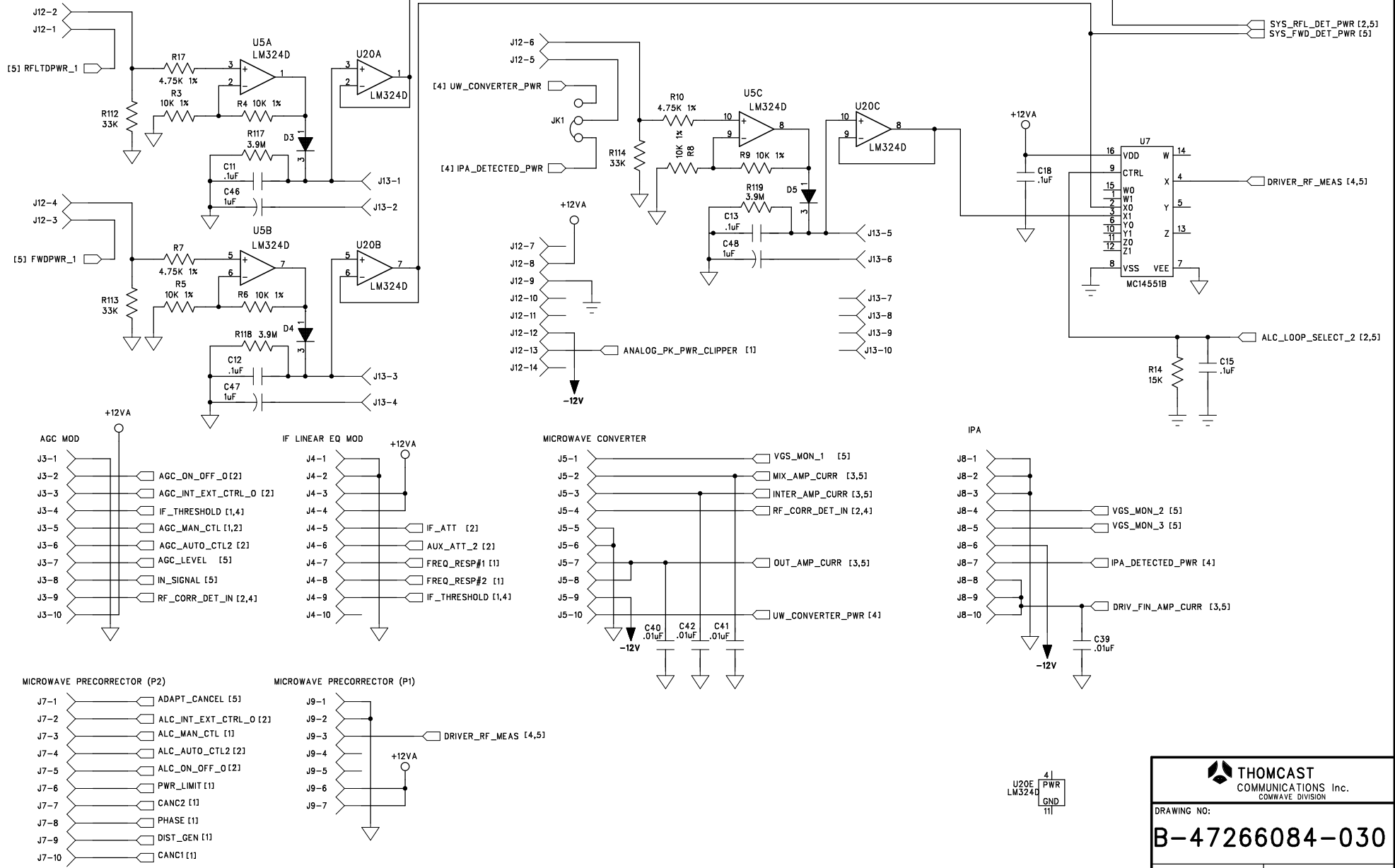
THOMCAST
COMMUNICATIONS Inc.
COMWAVE DIVISION

DRAWING NO:

B-47266084-030

SHEET: 3 of 5

SEE SHEET ONE



THOMCAST
COMMUNICATIONS Inc.
COMWAVE DIVISION

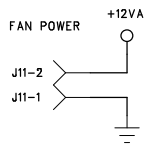
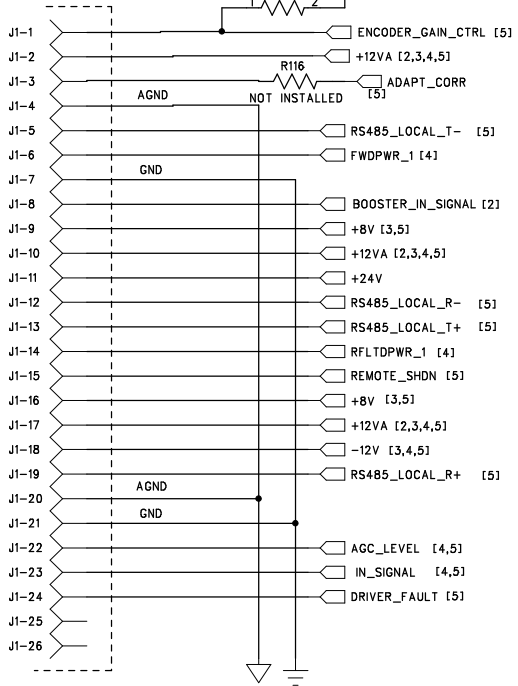
DRAWING NO:

B-47266084-030

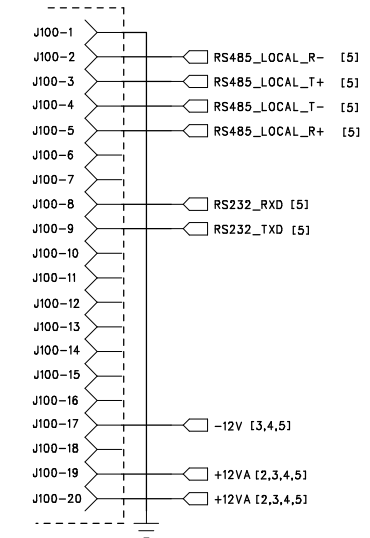
SHEET: 4 of 5

SEE SHEET ONE

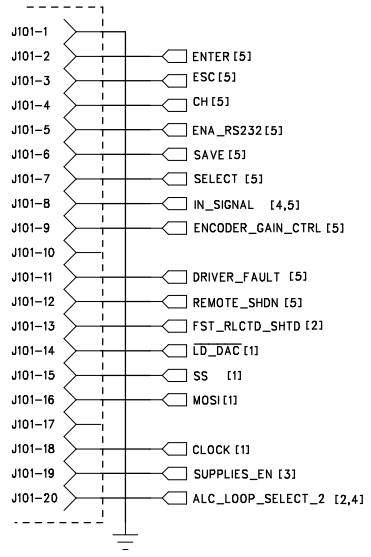
BACK PLANE INTERFACE



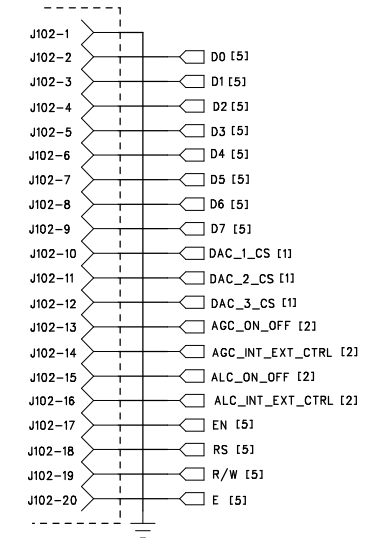
POWER & COMMUNICATIONS



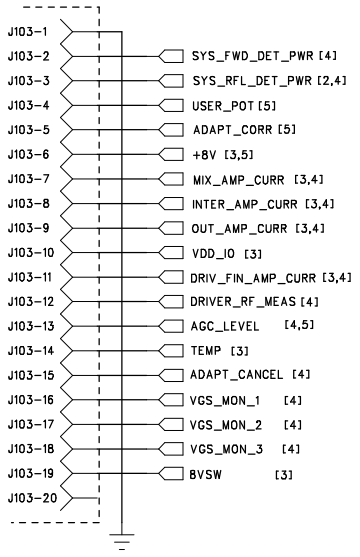
LOGIC INPUTS



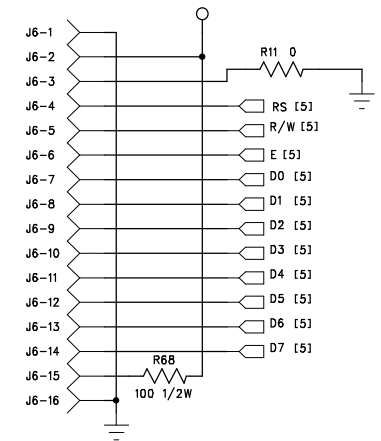
LOGIC OUTPUTS



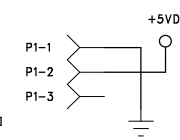
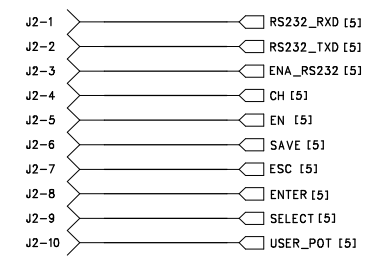
ANALOG INPUTS



DISPLAY BOARD CONNECTOR

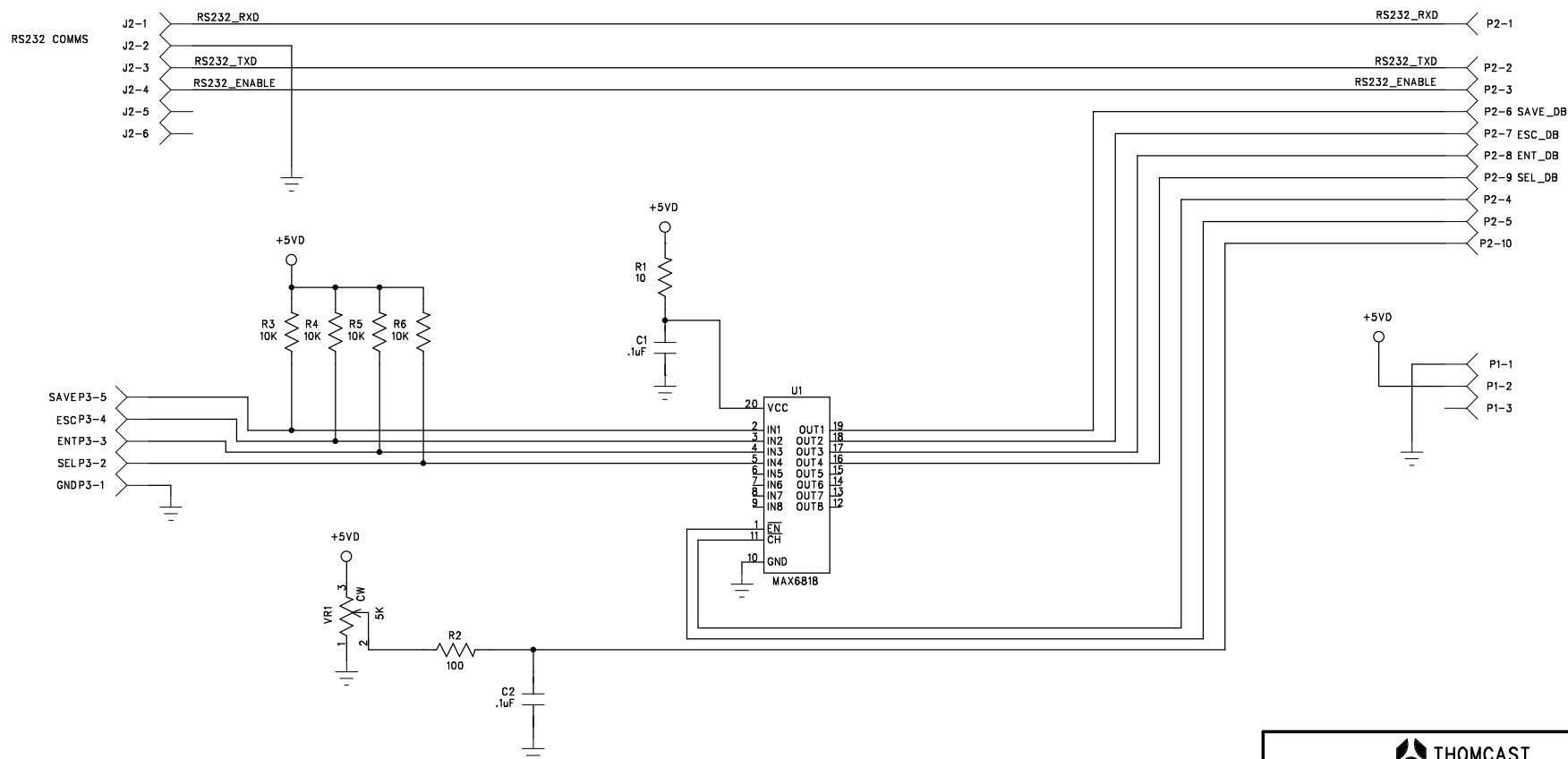


FRONT PANEL BOARD



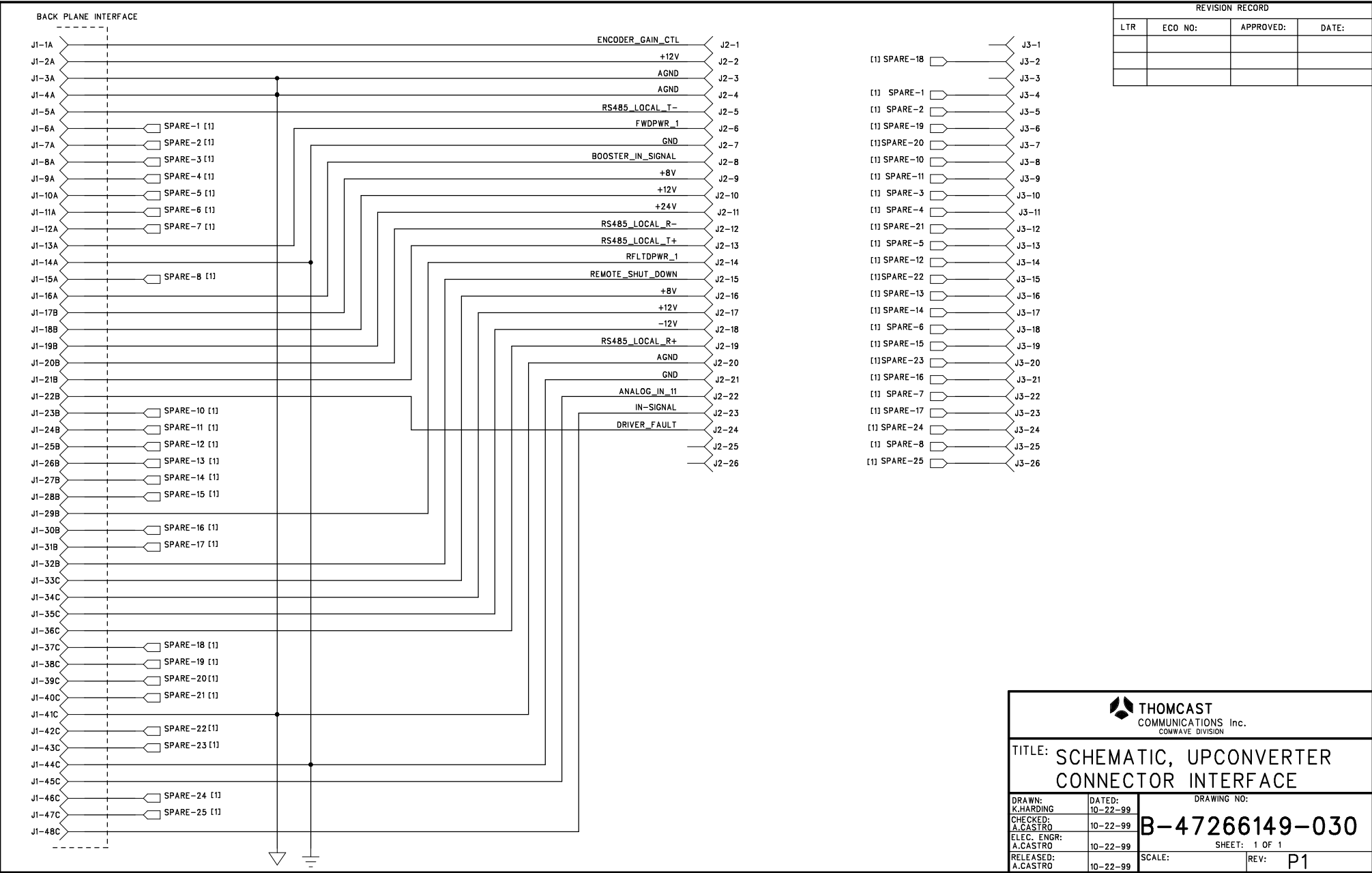
DRAWING NO:
B-47266084-030

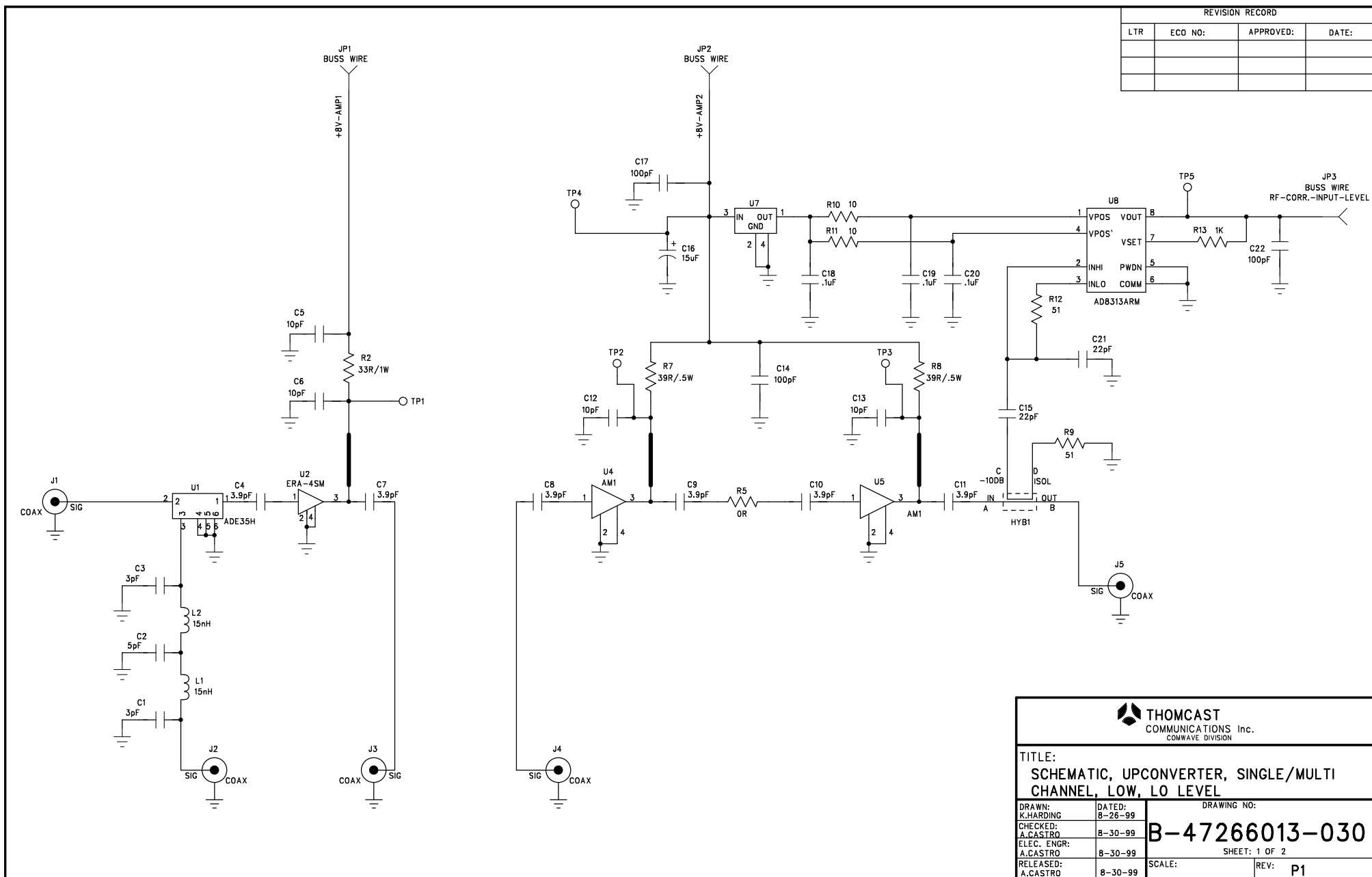
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

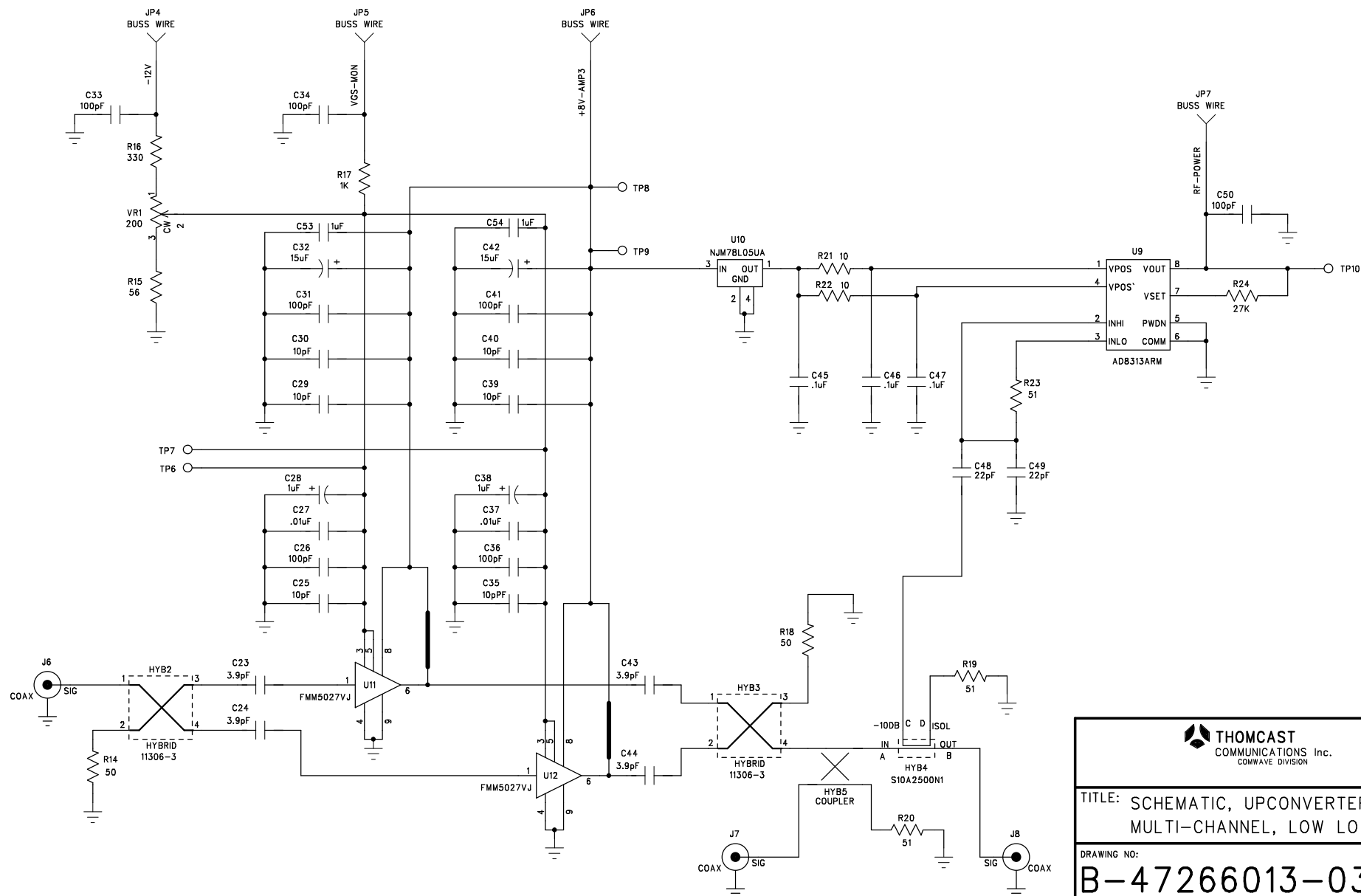


TITLE: SCHEMATIC, FRONT PANEL
UPCONVERTER PLUG-IN

DRAWN: K.HARDING	DATED: 9-29-99	DRAWING NO: B-47266086-030	
CHECKED: A.CASTRO	9-30-99	SHEET: 1 OF 1	
ELEC. ENGR: A.CASTRO	9-30-99	SCALE:	REV: P1
RELEASED: A.CASTRO	9-30-99		







THOMCAST
COMMUNICATIONS Inc.
CONVAVE DIVISION

TITLE: SCHEMATIC, UPCONVERTER, SINGLE/
MULTI-CHANNEL, LOW LO LEVEL

DRAWING NO:

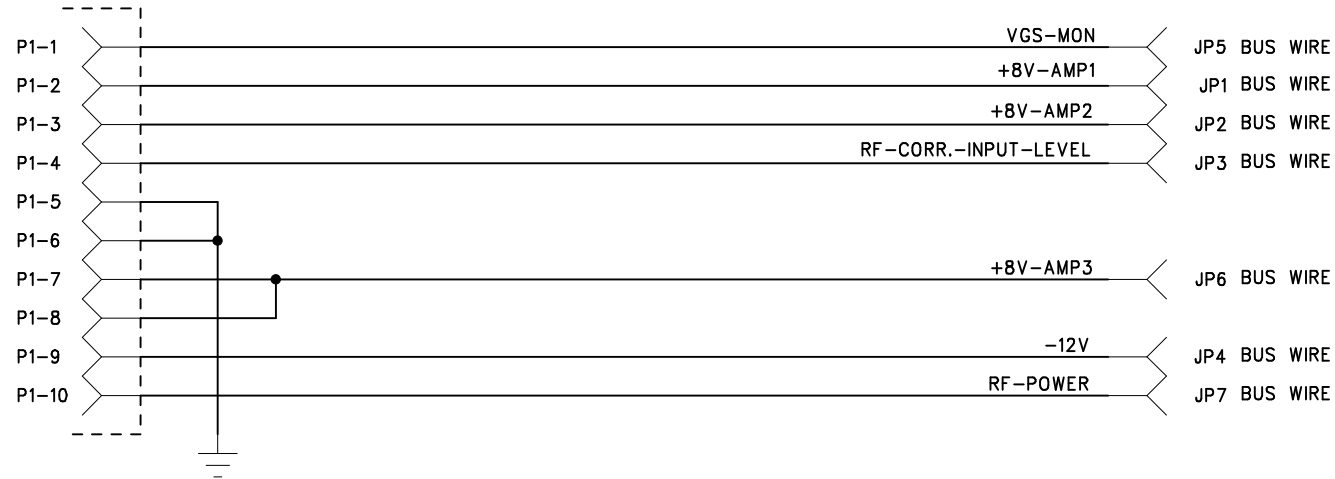
B-47266013-030

SHEET: 2 OF 2

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

MODULE CONNECTOR

BUSS WIRE FEED-THRU'S
TO UPCONVERTER BOARD

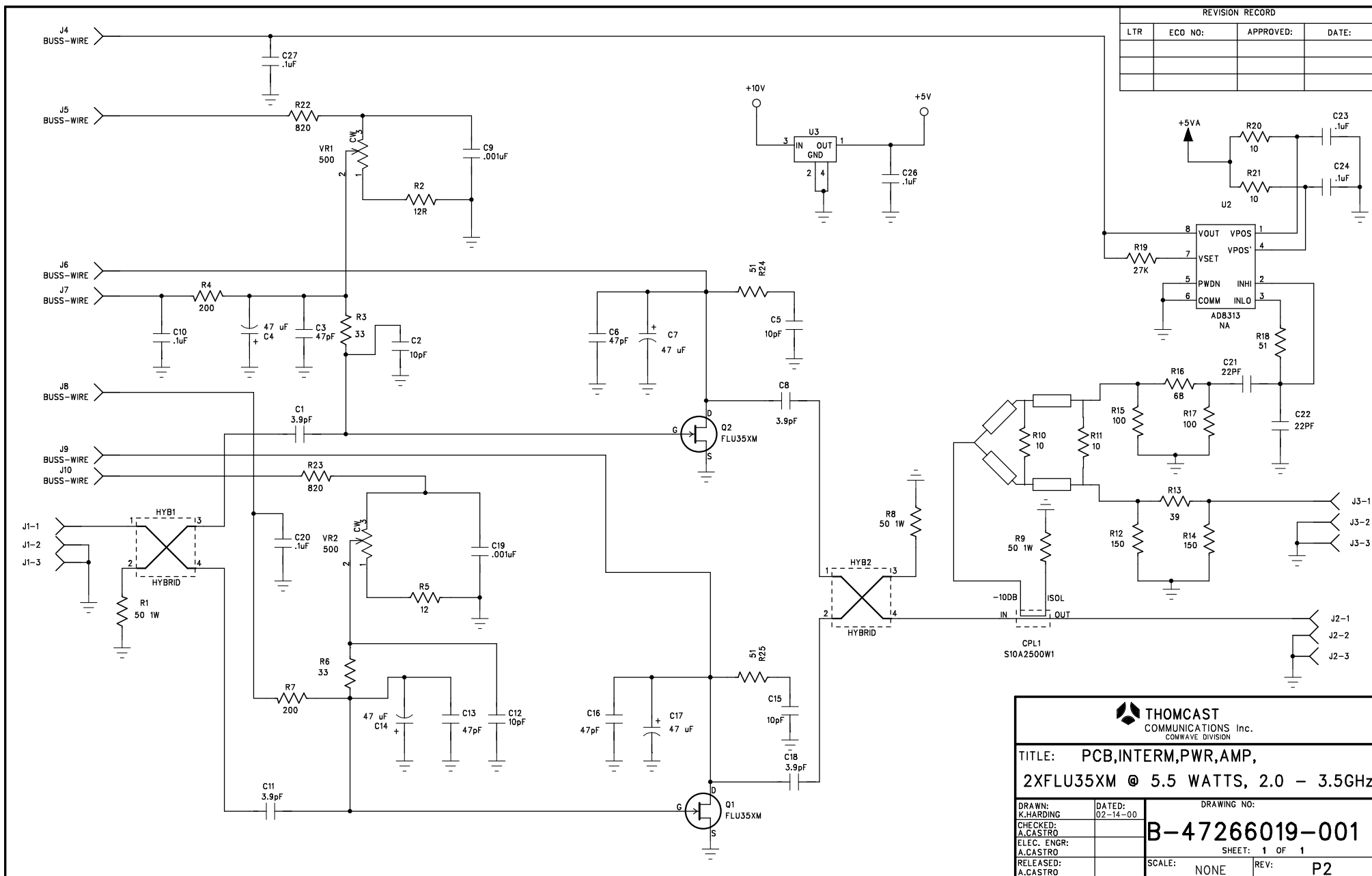


THOMCAST
COMMUNICATIONS Inc.
COMWAVE DIVISION

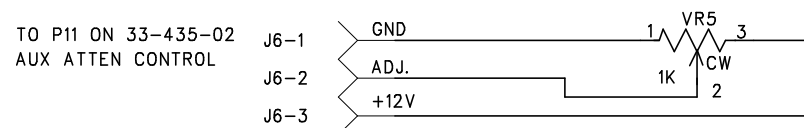
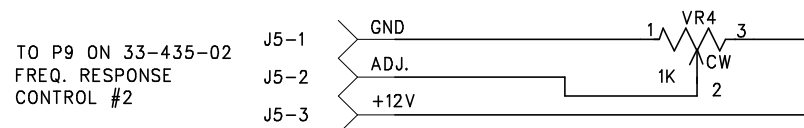
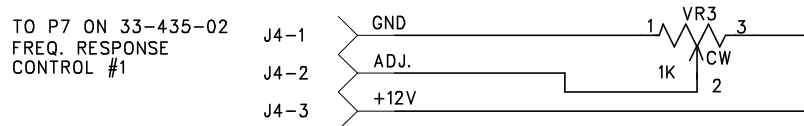
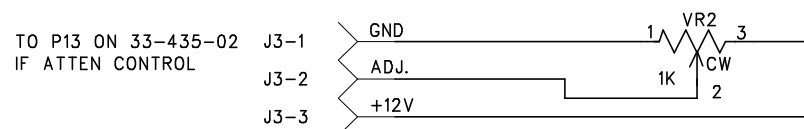
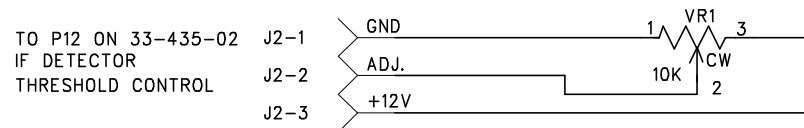
TITLE:

SCHEMATIC, DISTRIBUTION FOR UPCONVERTER

DRAWN: K.HARDING	DATED: 9-01-99	DRAWING NO:	
CHECKED: A.CASTRO	9-02-99	A-47266011-030	
ELEC. ENGR: A.CASTRO	9-02-99		
RELEASED: A.CASTRO	9-02-99	SCALE:	REV: P1

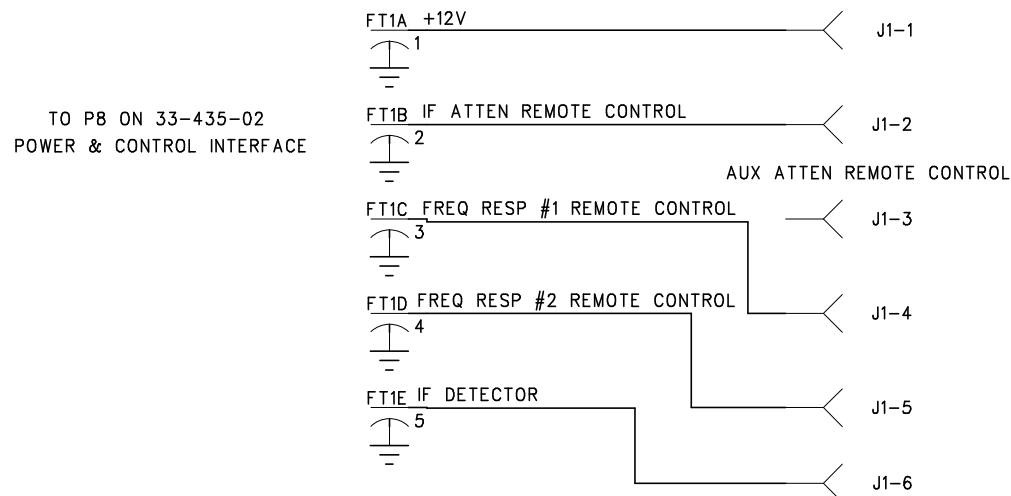
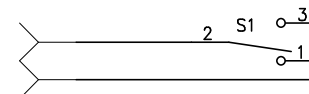


REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



TO JK21 ON 33-435-02
AUTO/MANUAL ALC SWITCH

J7-1
J7-2



COMMUNICATION MICROWAVE CORP.			
CRESTWOOD INDUSTRIAL PARK MOUNTAINTOP PA. 18707			
TITLE: SCHEMATIC, CONTROL PANEL IF LINEAR PROCESSOR			
DRAWN: D. WIKE	DATED: 09/08/98	DRAWING NO: A-33-472-01	
CHECKED: K. HARDING	11/24/98	SHEET: 1 OF 1	
ELEC. ENGR:		SCALE: NONE	
RELEASED: D. WIKE	11/24/98	REV: A	

6

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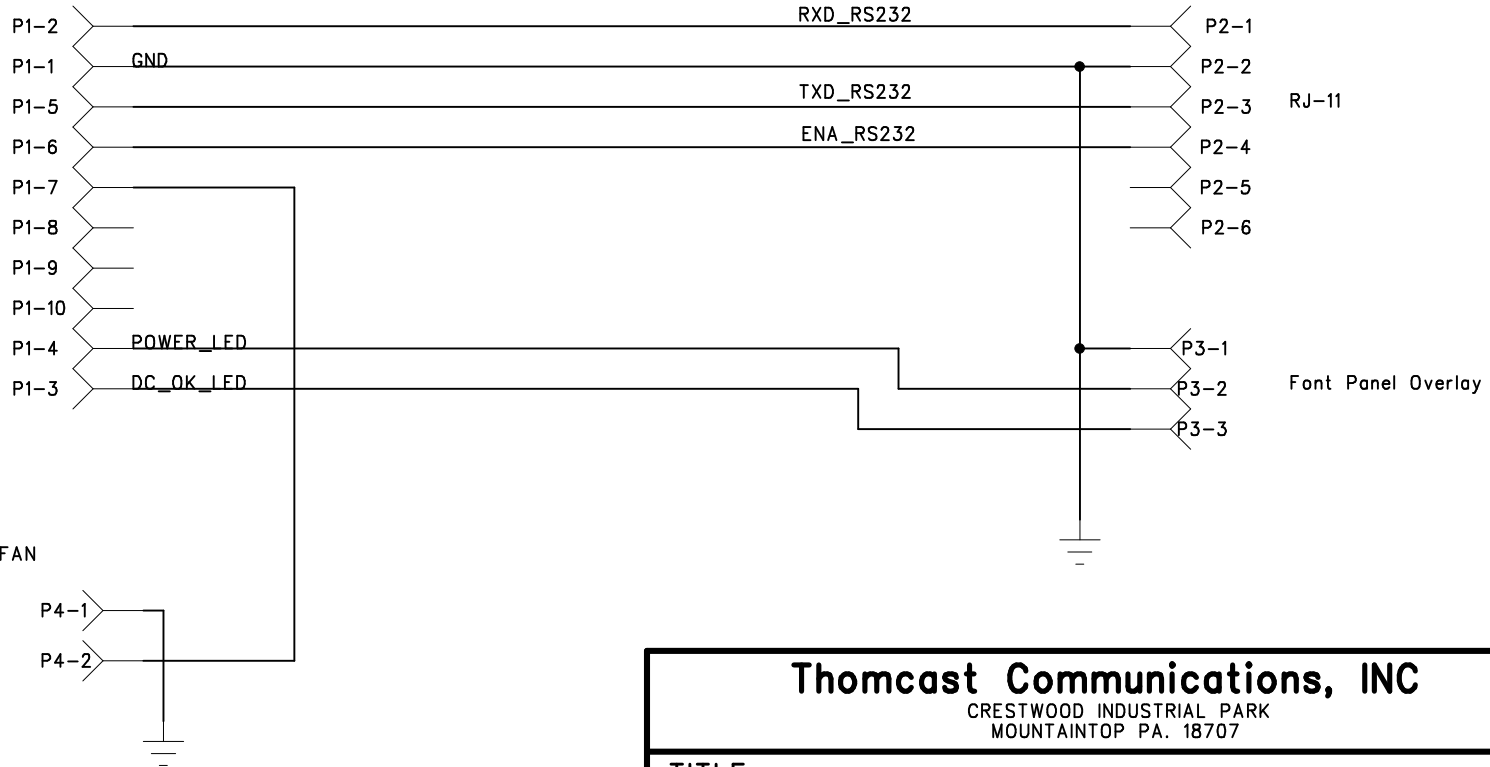
2

1

REVISION RECORD

LTR	ECO NO:	APPROVED:	DATE:

TO DC CONVERTER PCB



Thomcast Communications, INC

CRESTWOOD INDUSTRIAL PARK
MOUNTAINTOP PA. 18707

TITLE:

Display Circuit Card
Power Supply Module

DRAWN:

Chris Smith

DATED:

8/24/99

CHECKED:

Chris Smith

9-8-99

ELEC. ENGR:

Chris Smith

9-8-99

RELEASED:

Chris Smith

9-8-99

DRAWING NO:

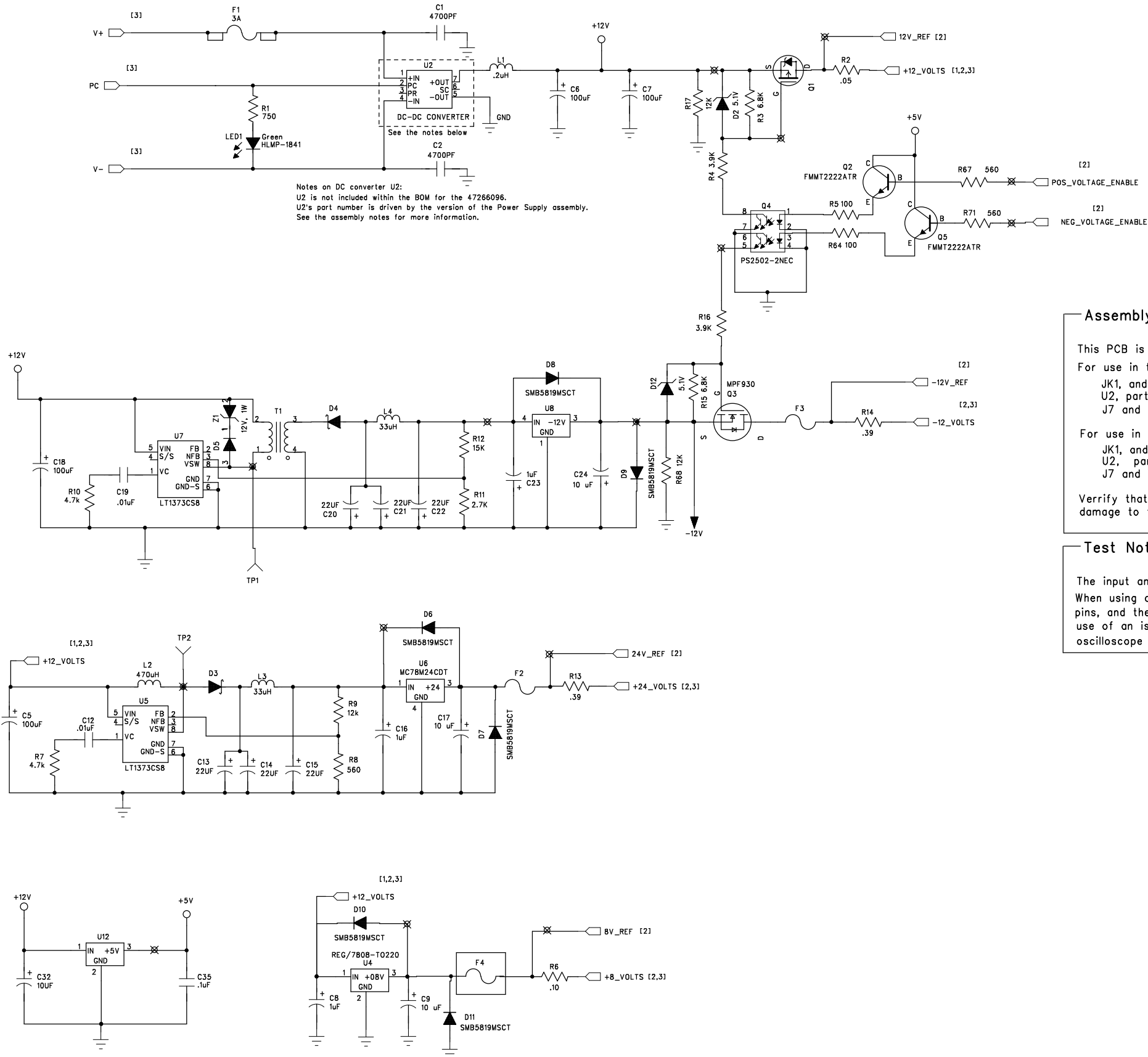
A-47266070-030

SHEET: 1 OF 1

SCALE:

REV: P1

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



Assembly Notes

This PCB is configured for both AC and DC front end power supply versions.
For use in the 47266099-01 version, DC front end, ensure:
JK1, and JK2 are added (closed)
U2, part number 750080-01 is installed on the extrusion.
J7 and J8 are unused.

For use in the 47266099-02 version, AC front end, ensure:
JK1, and JK2 are OPEN.
U2, part number 750311-01 is installed on the extrusion.
J7 and J8 are harnessed to the AC Filter board.

Verrify that the correct settings are made prior to module testing or, damage to the PCB and DC converter modules will occur.

Test Notes

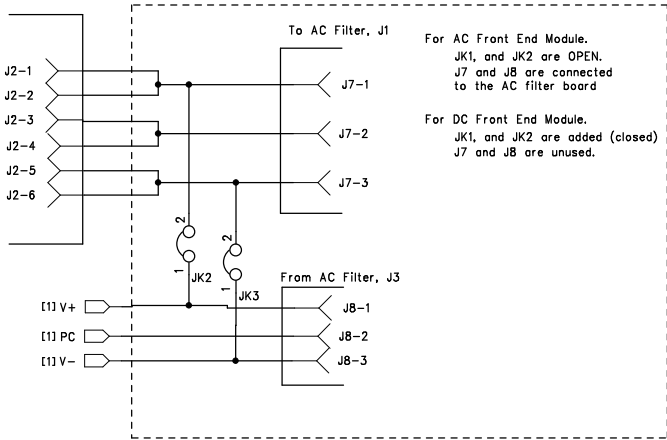
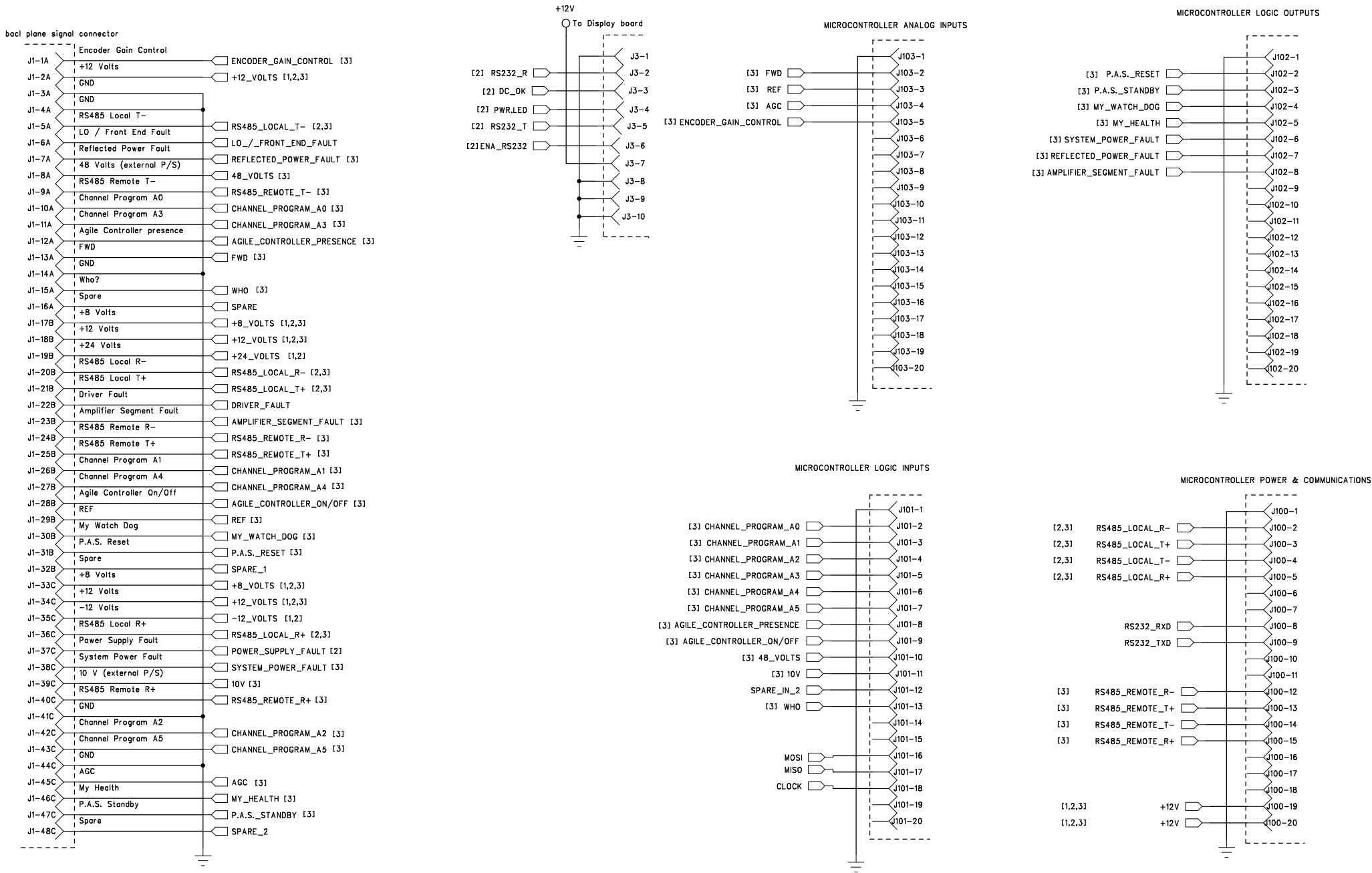
The input and output from the DC converter are isolated from each other.
When using a dual trace oscilloscope, do not connect one probe to the input pins, and the other probe to the output pins simultaneously (without an use of an isolation transformer) or damage to the converter module and oscilloscope will result.

COMMUNICATION MICROWAVE CORP.
CRESTWOOD INDUSTRIAL PARK
MOUNTAINTOP PA. 18707

TITLE: DC Converter Board
Power Supply Module

DRAWN: Chris Smith	DATED: 09/09/99	DRAWING NO: C-47266096-030	
CHECKED:		SHEET: 1 OF 3	
ELEC. ENGR:		REV: P3	
RELEASED:			

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMMUNICATION MICROWAVE CORP.			
CRESTWOOD INDUSTRIAL PARK MOUNTAINTOP, PA. 18707			
TITLE: DC CONVERTER BOARD POWER SUPPLY MODULE			
DRAWN: C. Smith	DATED: 09/09/99	DRAWING NO: C-47266096-030	
CHECKED:		SHEET: 3 OF 3	
ELEC. ENGR:		SCALE:	
RELEASED:		REV: P3	

6

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3

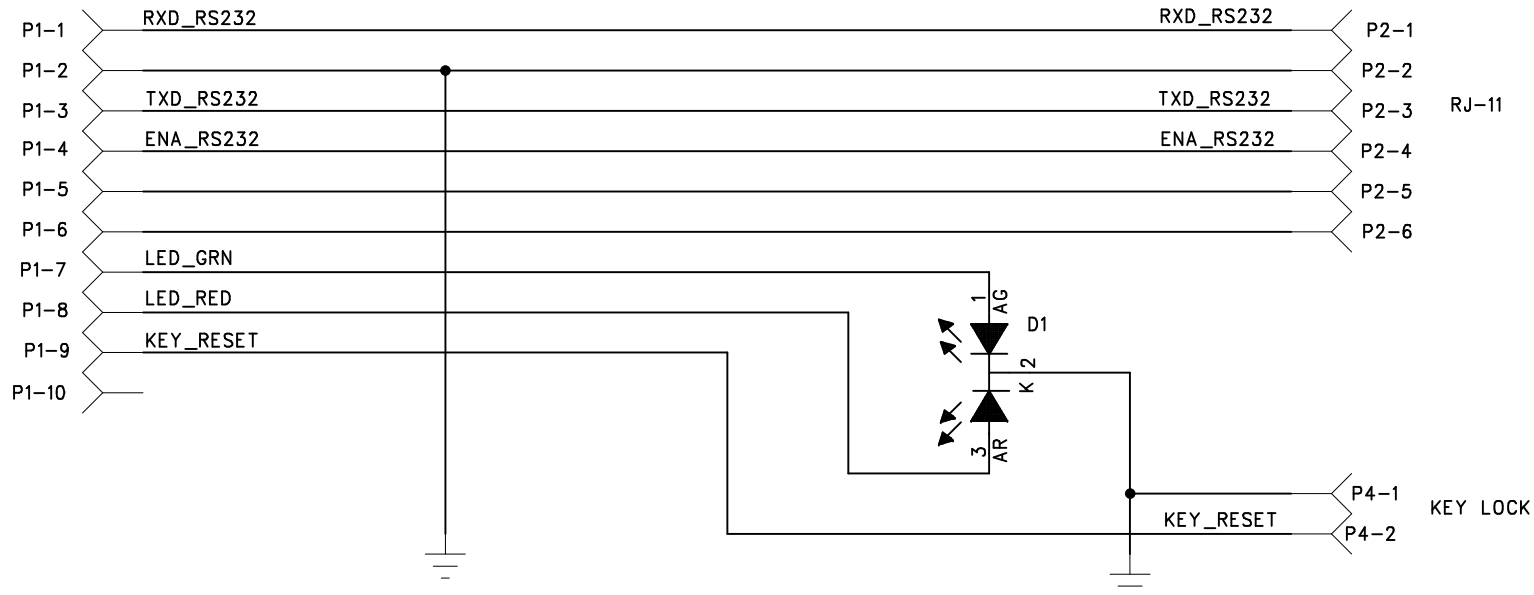
2

1

REVISION RECORD

LTR	ECO NO:	APPROVED:	DATE:

TO MICROCONTROLLER



COMMUNICATION MICROWAVE CORP.

CRESTWOOD INDUSTRIAL PARK
MOUNTAINTOP PA. 18707

TITLE:

SCHEMATIC, FRONT PANEL DISPLAY
WITH DIAGNOSTICS PORT

DRAWN:

K.HARDING

DATED:

4-22-97

DRAWING NO:

A-33-352-01

CHECKED:

C.UNGVARSKY

4-22-97

ELEC. ENGR:

C.UNGVARSKY

4-22-97

SHEET: 1 OF 1

RELEASED:

K.HARDING

8-13-97

SCALE:

REV: A