1	2	3	4	5	6	7	8

ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram	K.70101	=
b				made	Meis					+C13
a				check						
	revision	date	name	stand.		replaced:	replaced: based:	I/O allocation DPS 02, spare	C9792705-1	page 41 sh.

1	2	3	4	5	6	7	8

ELCAD (R)

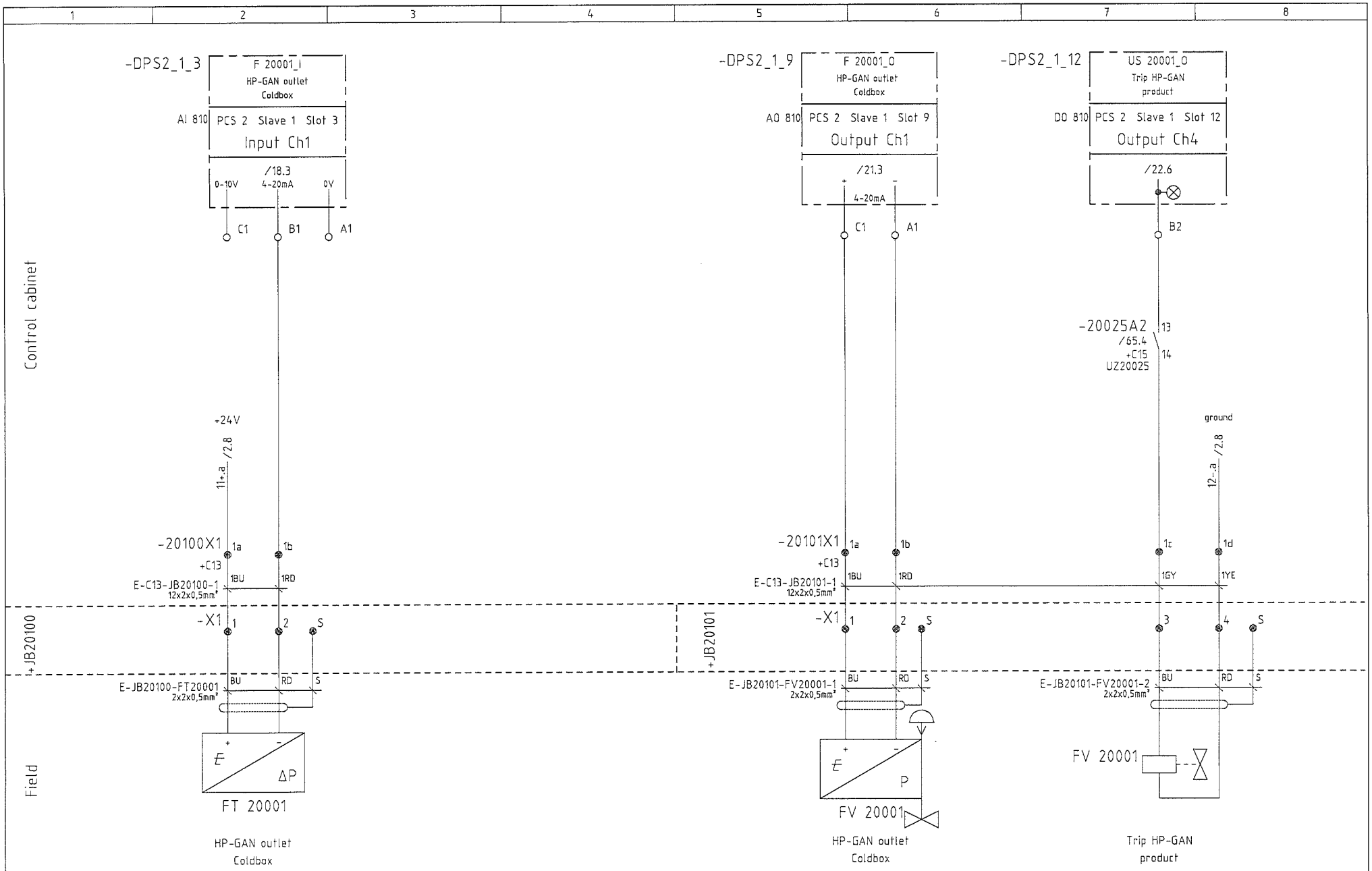
c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram
b				made	Meis			
a				check				Spare
	revision	date	name	stand.		replaced:	replaced: based:	

K.70101	= +C13		
C9792705-1		page 42	sh.

1	2	3	4	5	6	7	8

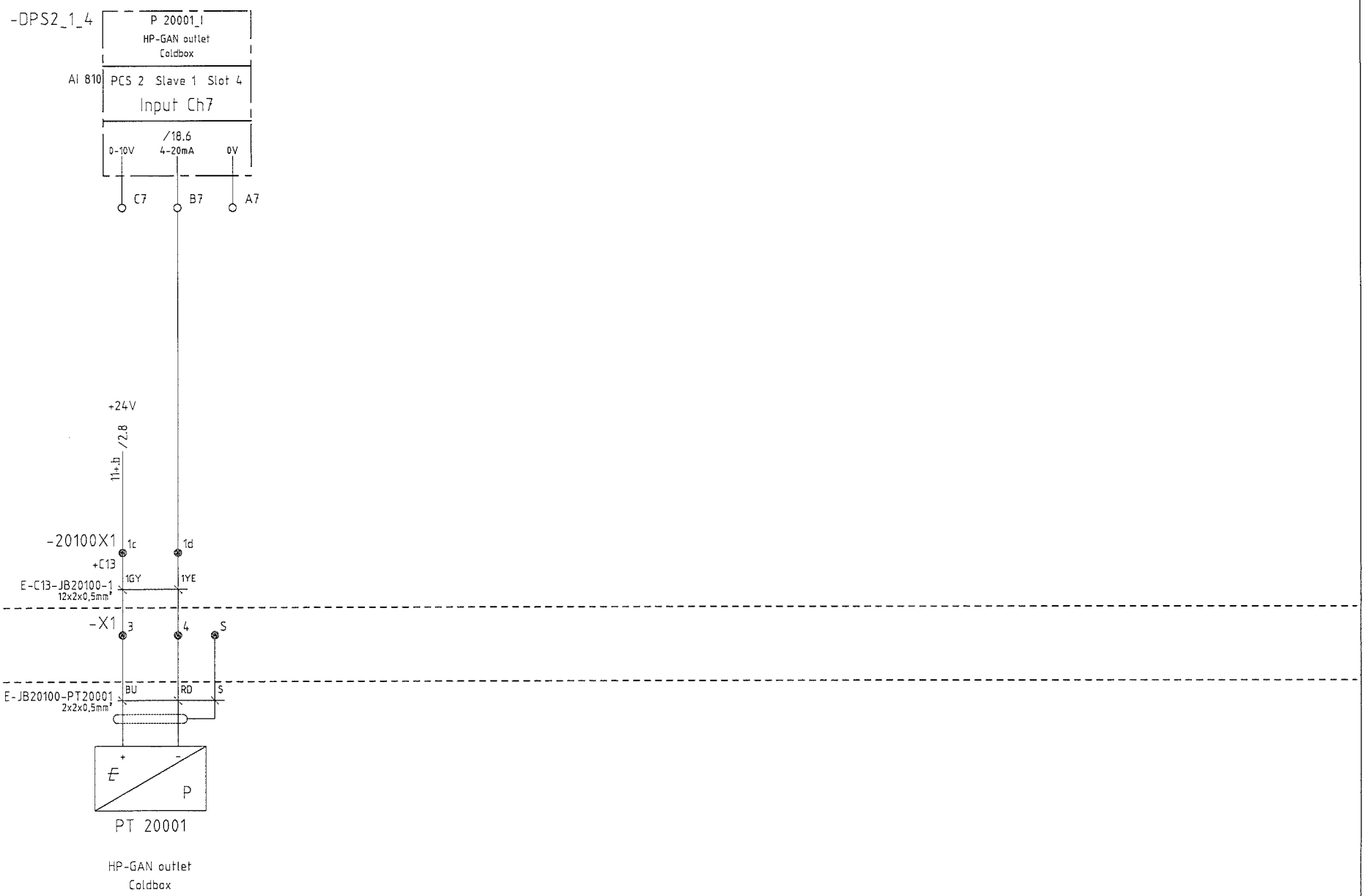
ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram	K.70101	=
b				made	Meis					+C13
a				check						
	revision	date	name	stand.		replaced:	replaced: based:	Spare	C9792705-1	page 43 sh.



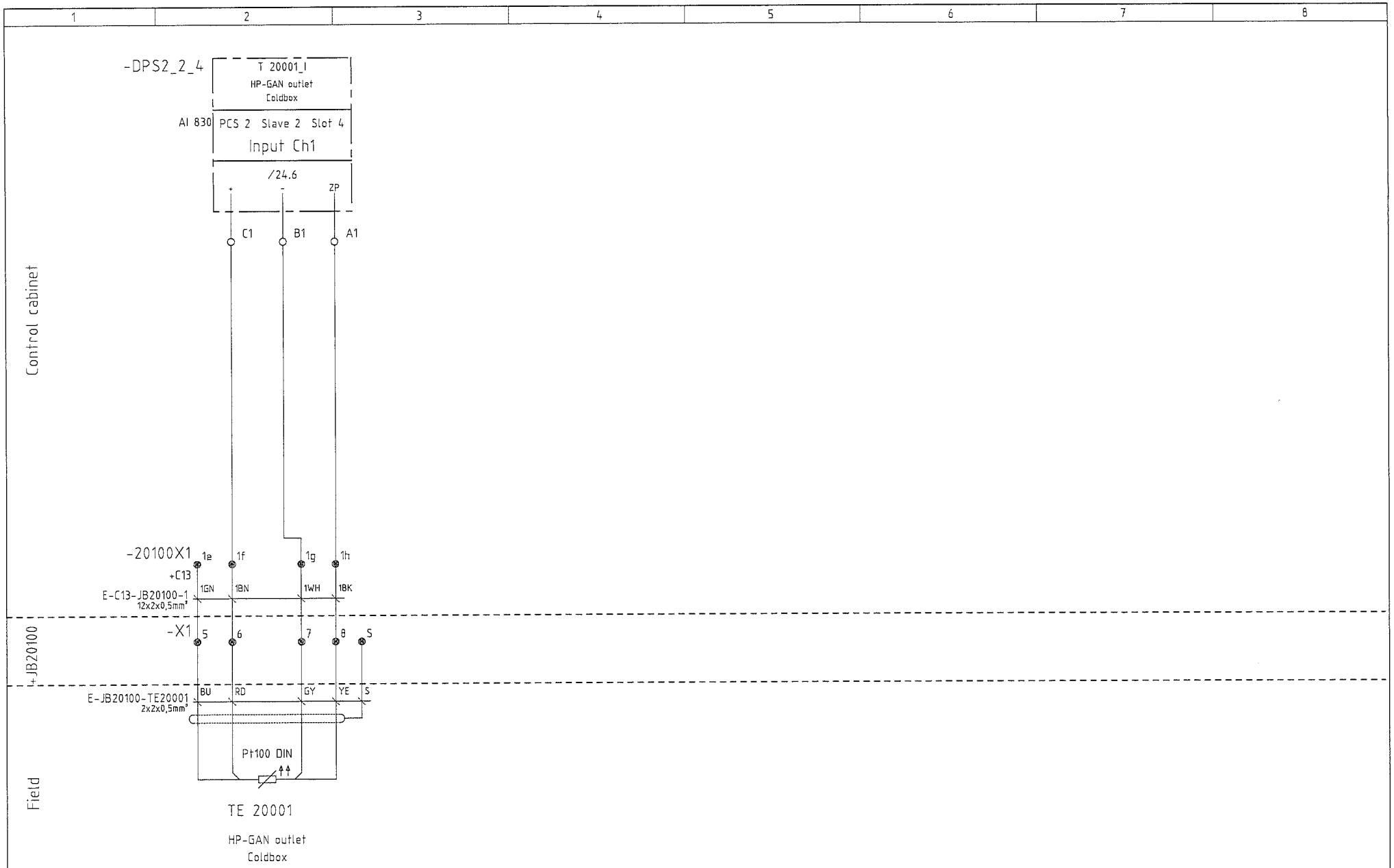
ELCAD (R)

c				date	21.07.2005	ASU Kosice	Circuit diagram Products F 20001, P&I 10	K.70101
b				made	Meis			= +C13
a		5.10.05	Kauven	check		AIR LIQUIDE Air Liquide AGS GmbH		C9792705-1
	revision	date	name	stand.		replaced: / replaced: / based:		page 44 sh.



ELCAD (R)

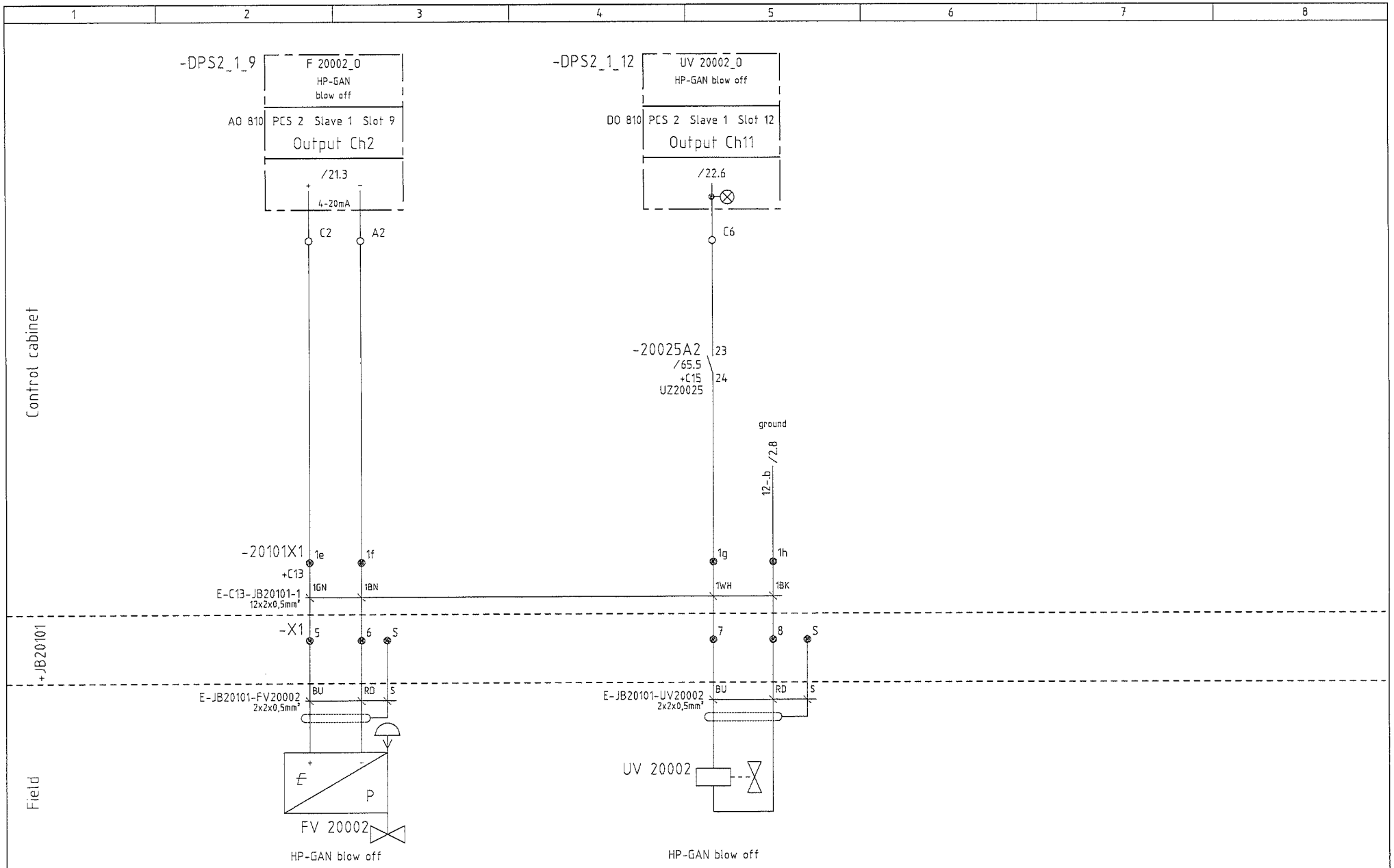
c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Products P 20001, P&I 10	K.70101 = +C13
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 page 45 sh.
	revision	date	name	stand.		replaced:	replaced:	based:	



ELCAD (R)

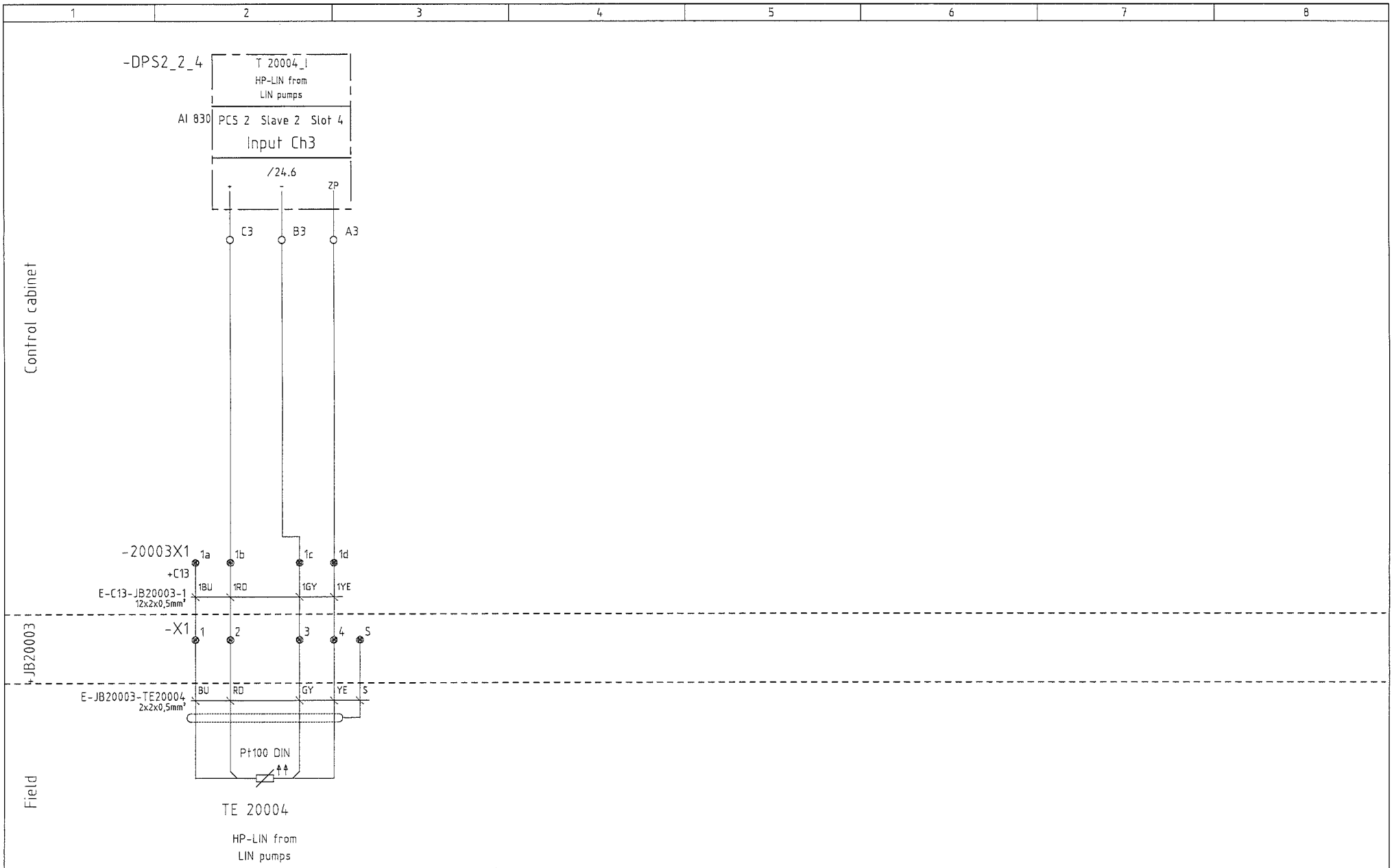
c				date	21.07.2005	ASU Kosice	Circuit diagram Products T 20001, P&I 10	K.70101
b				made	Meis			= +C13
a		5.10.05	Kauven	check				page 46
	revision	date	name	stand.		replaced: replaced based:		C9792705-1 sh.

AIR LIQUIDE
Air Liquide AGS GmbH



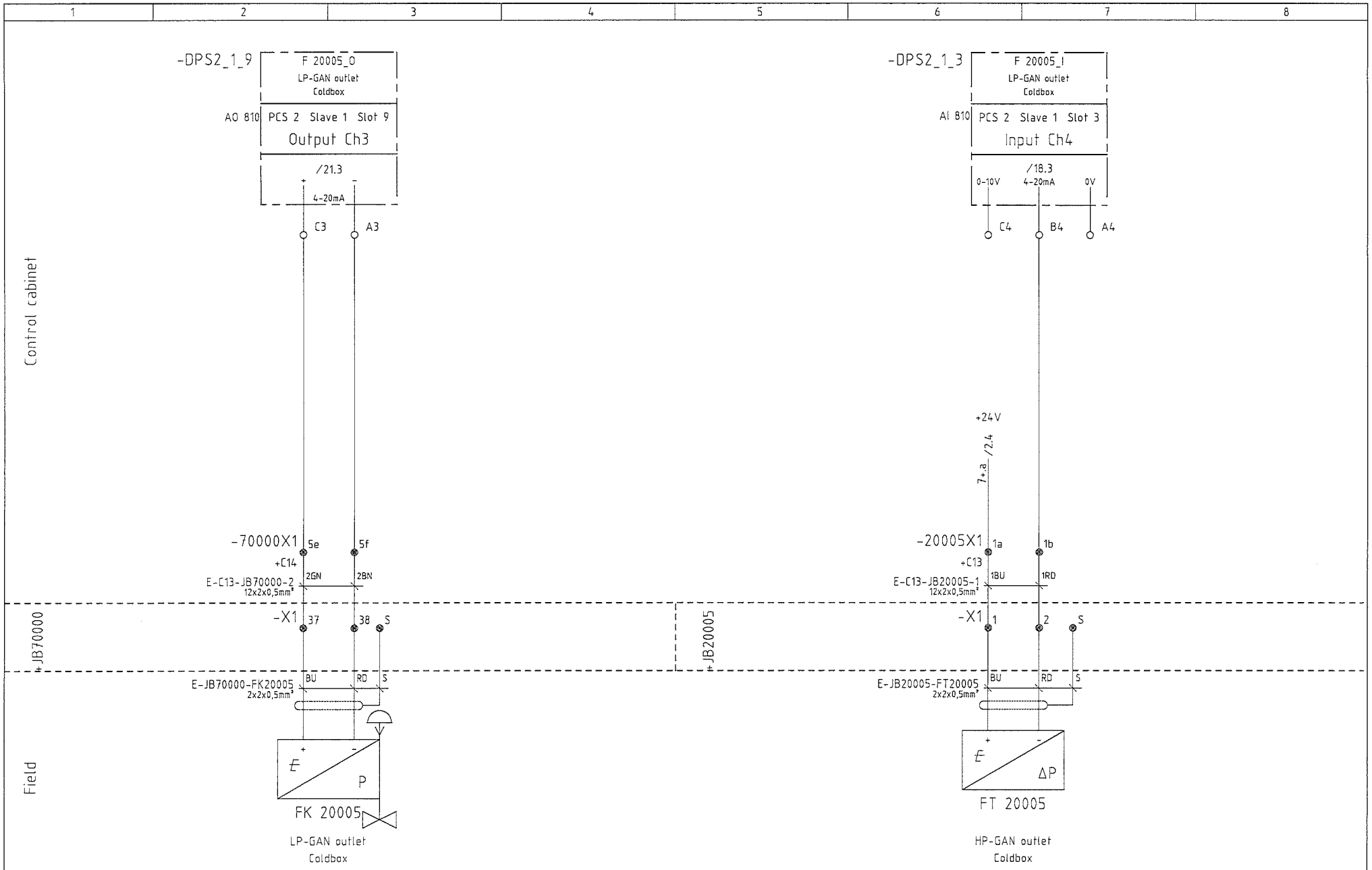
ELCAD (R)

c				date	21.07.2005	ASU Kosice	Circuit diagram Products F 20002, P&I 10	K.70101
b				made	Meis			= +C13
a		5.10.05	Kauven	check		AIR LIQUIDE Air Liquide AGS GmbH		C9792705-1
	revision	date	name	stand.		replaced: / replaced. / based:		page 47 sh.



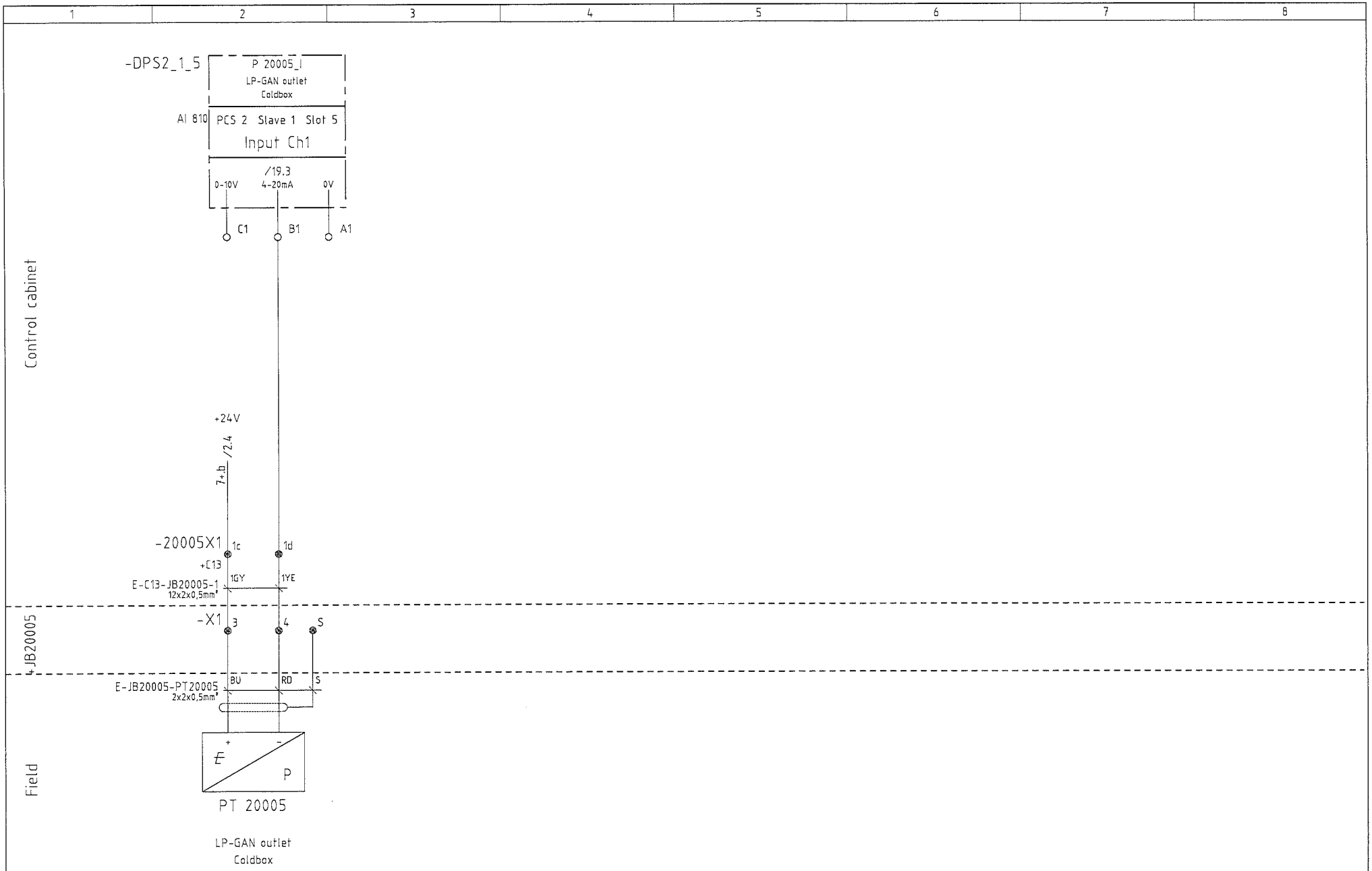
ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Main heat exchanger T 20004, P&I 9	K.70101 = +C13
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 page 48 sh.
	revision	date	name	stand.		replaced:	replaced:	based:	



ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram	K.70101	=
b				made	Meis			Produchts		+C13
a		5.10.05	Kauven	check				F 20005, P&I 10	C9792705-1	page 49
	revision	date	name	stand.		replaced:	replaced: based:			sh.



ELCAD (R)

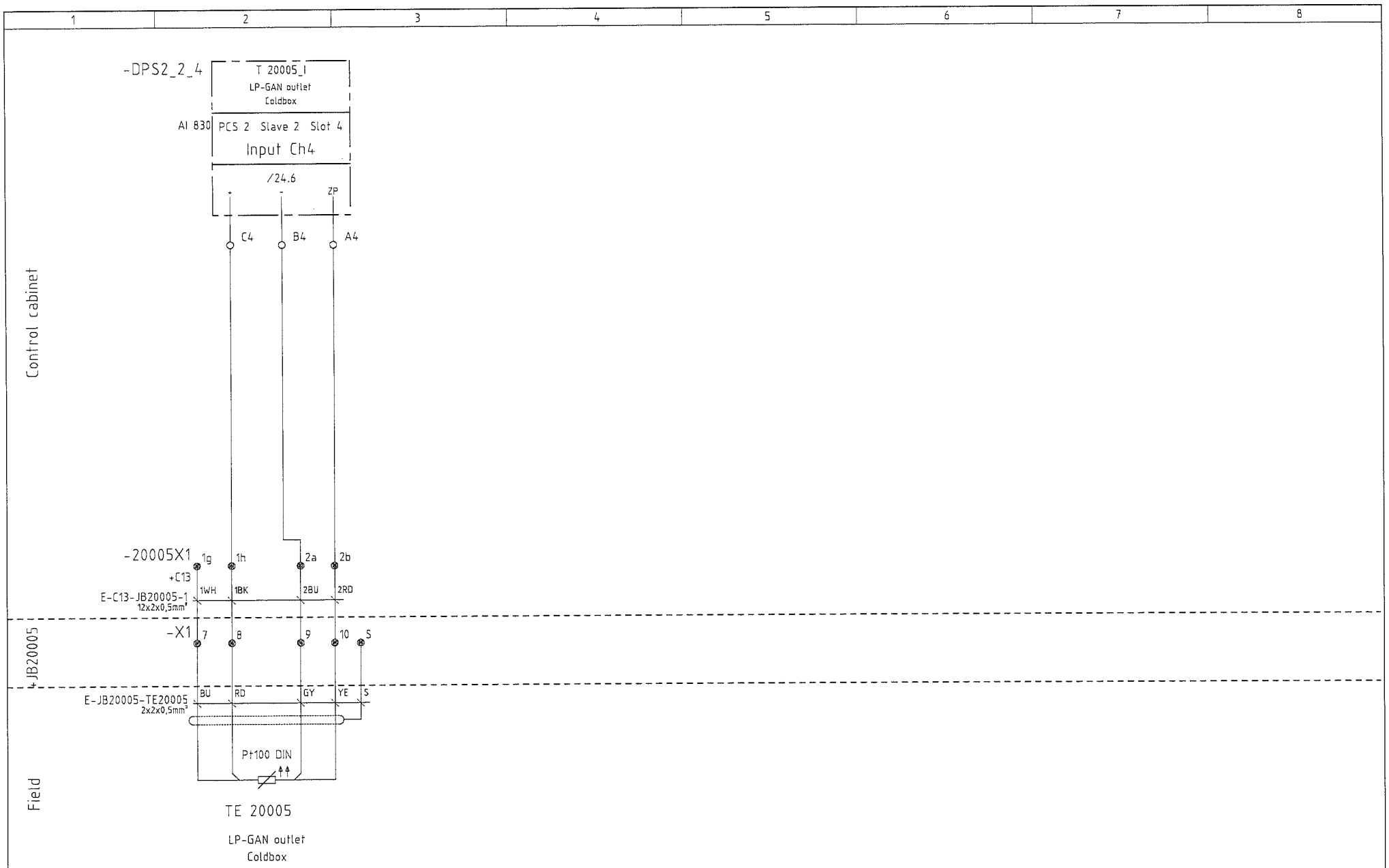
c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Products P 20005, P&I 10
b				made	Meis			
a		5.10.05	Kauven	check				
	revision	date	name	stand.		replaced:	replaced:	based:

K.70101

=
+C13

C9792705-1

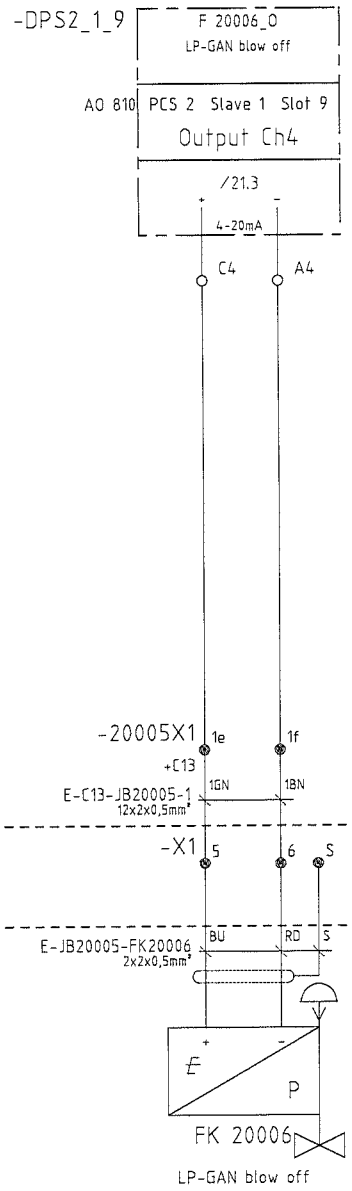
page 50
sh.



ELCAD (R)

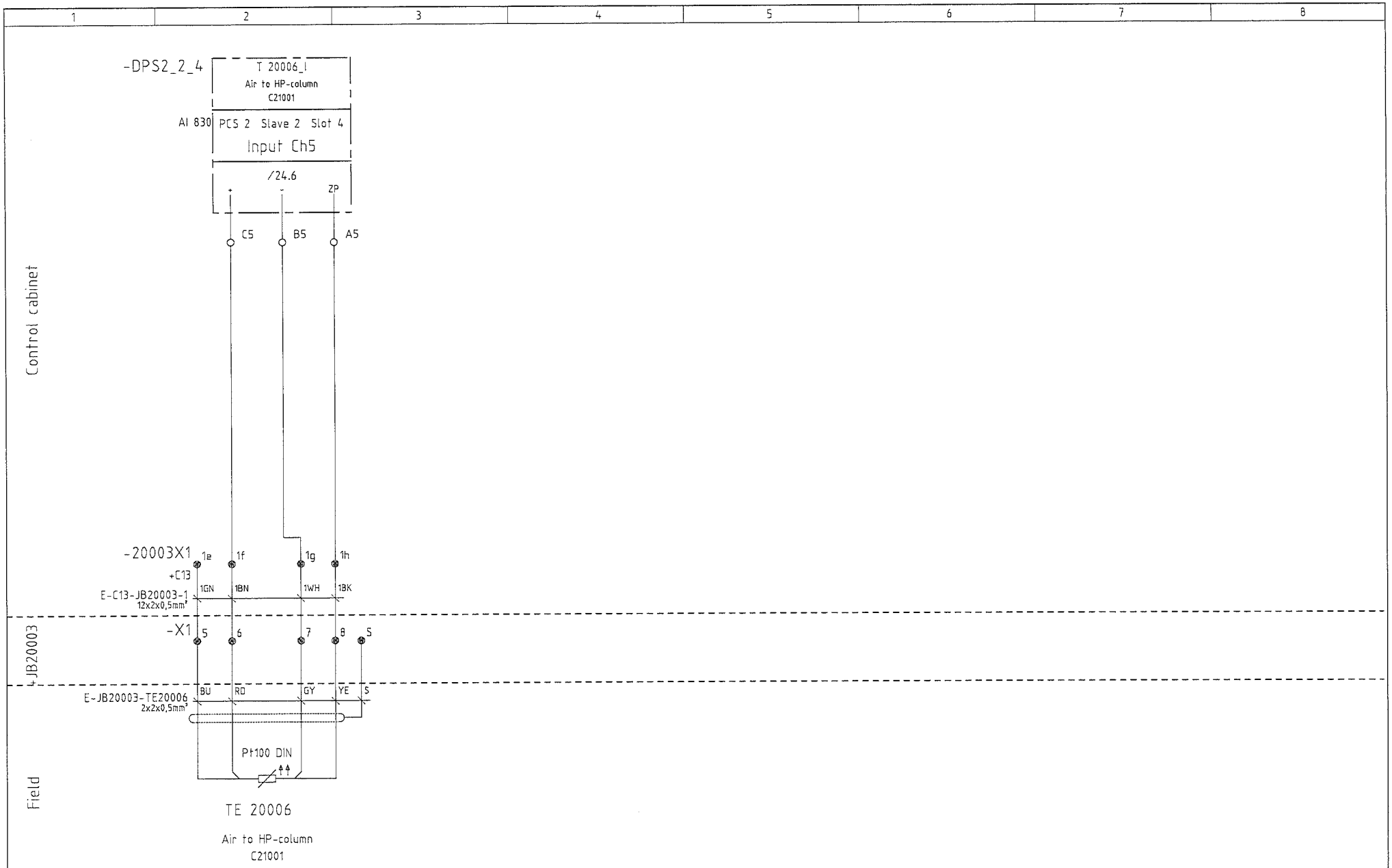
c				date	21.07.2005	ASU Kosice	Circuit diagram Products T 20005, P&I 10	K.70101
b				made	Meis			= +C13
a		5.10.05	Kauven	check				C9792705-1 page 51 sh.
	revision	date	name	stand.		replaced: replaced: based:		

AIR LIQUIDE
Air Liquide AGS GmbH



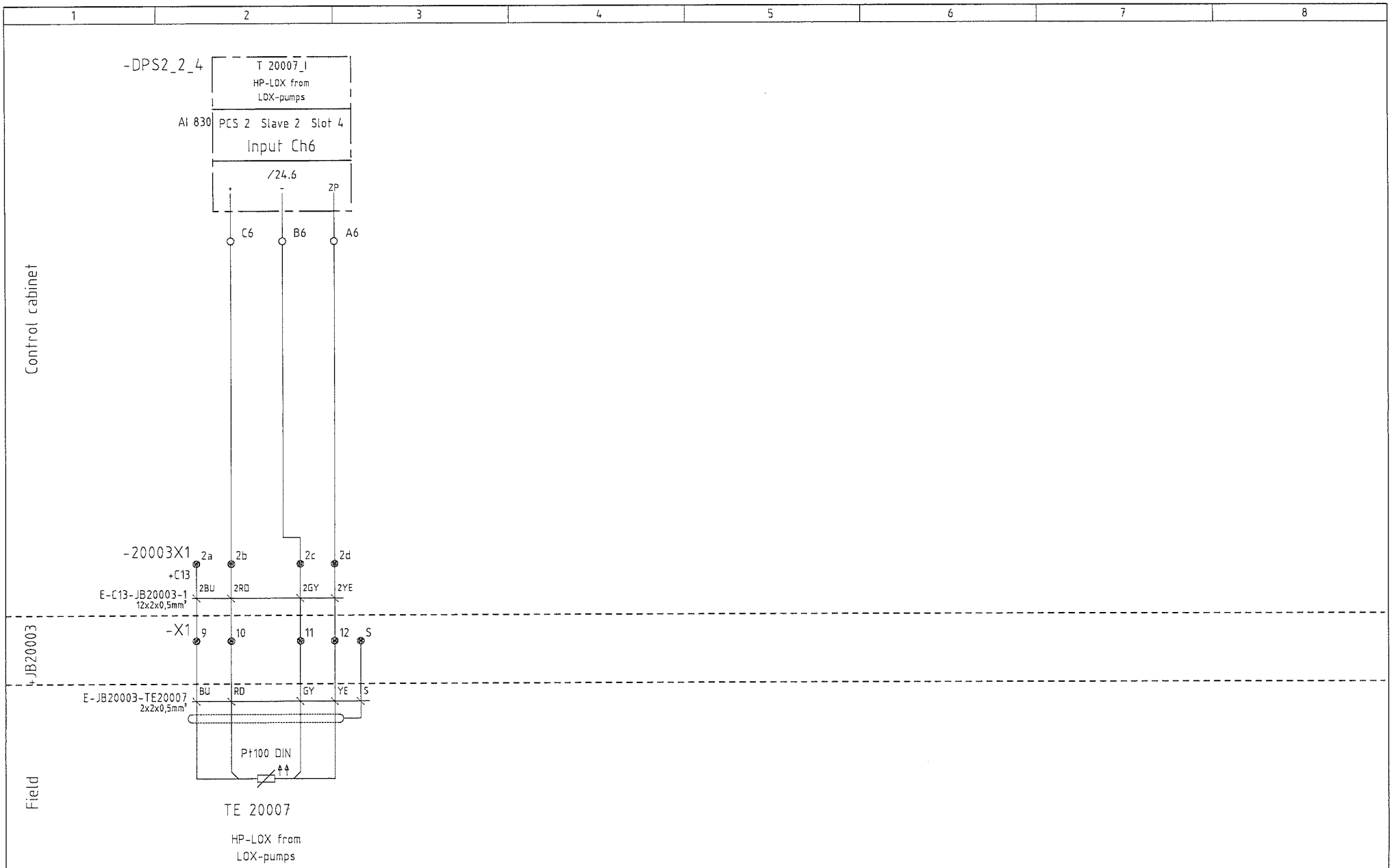
ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Products F 20006, P&I 10	K.70101	= +C13
b				made	Meis					
a		5.10.05	Kauven	check					C9792705-1	page 52 sh.
	revision	date	name	stand.		replaced:	replaced:	based:		



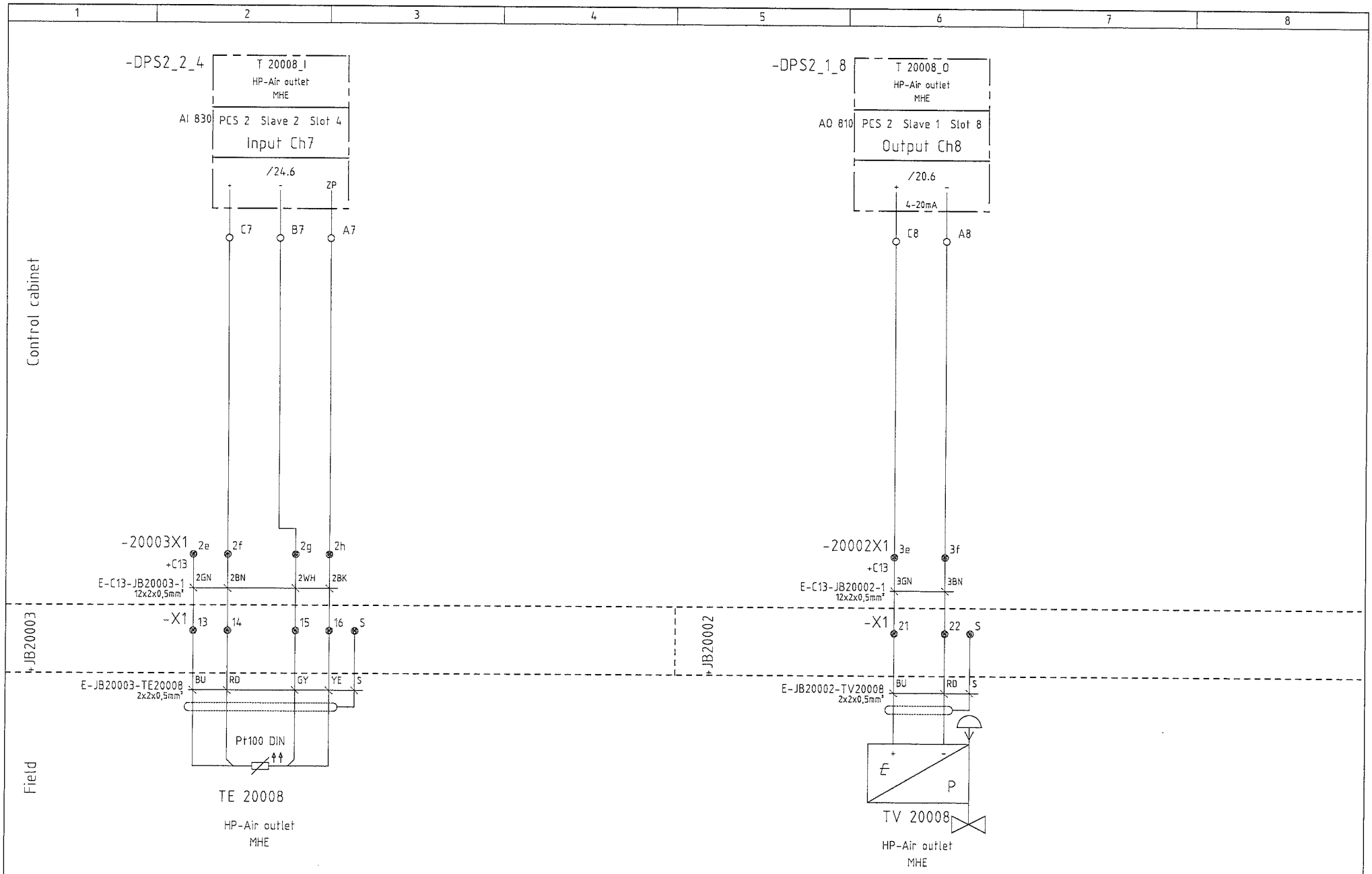
ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Main heat exchanger T 20006, P&I 9	K.70101	=
b				made	Meis					+C13
a		5.10.05	Kauven	check					C9792705-1	page 53
	revision	date	name	stand.		replaced:	replaced:	based:		sh.



ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Expander turbine 1 T 20007, P&I 7	K.70101 = +C13
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 page 54 sh.
	revision	date	name	stand.		replaced:	replaced:	based:	



ELCAD (R)

c			date	21.07.2005	
b			made	Meis	
a		5.10.05	Kauven	check	
	revision	date	name	stand.	

ASU Kosice

AIR LIQUIDE
Air Liquide AGS GmbH

replaced: | replaced: | based:

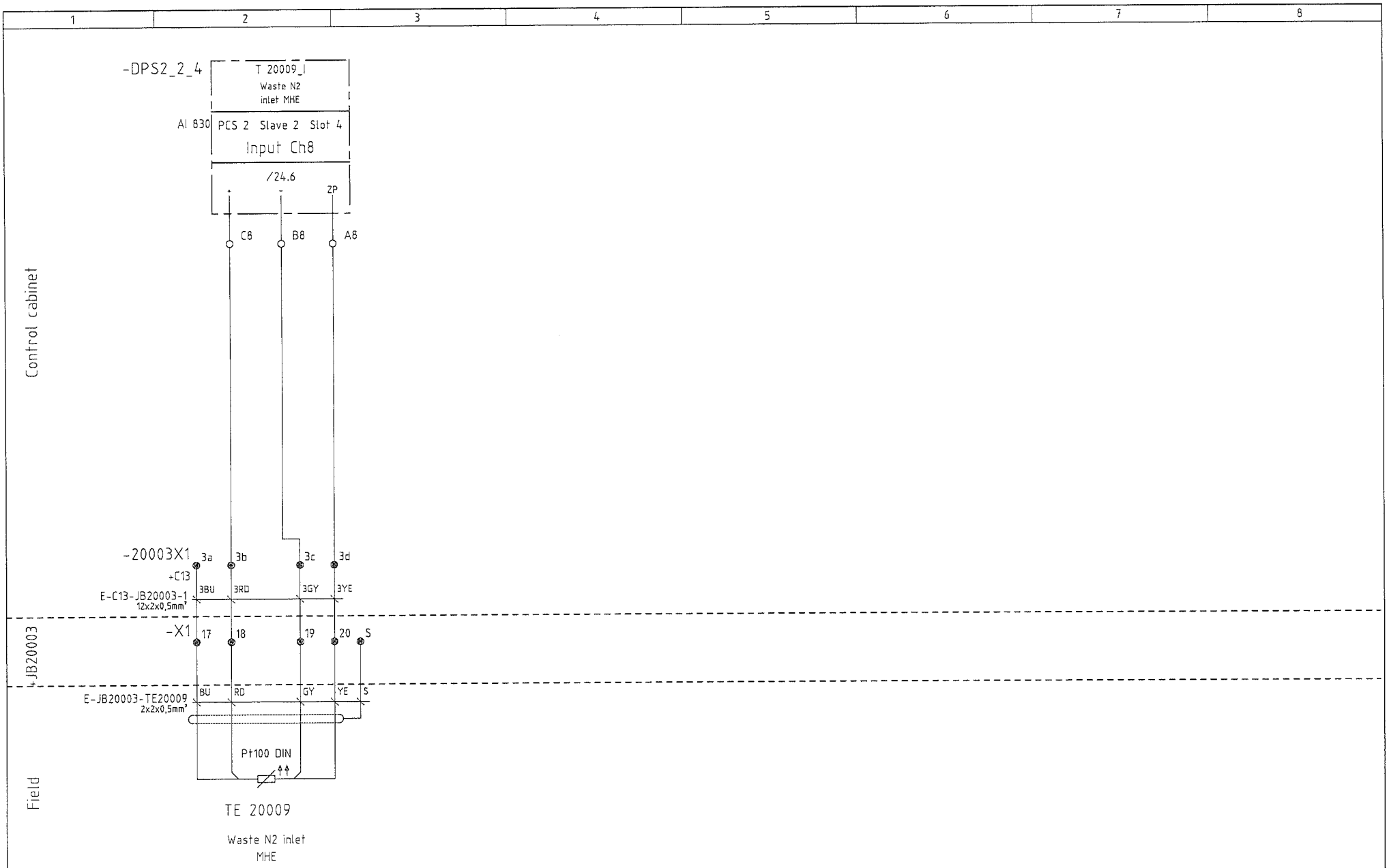
Circuit diagram
Main heat exchanger
T 20008, P&I 9

K.70101

=
+C13

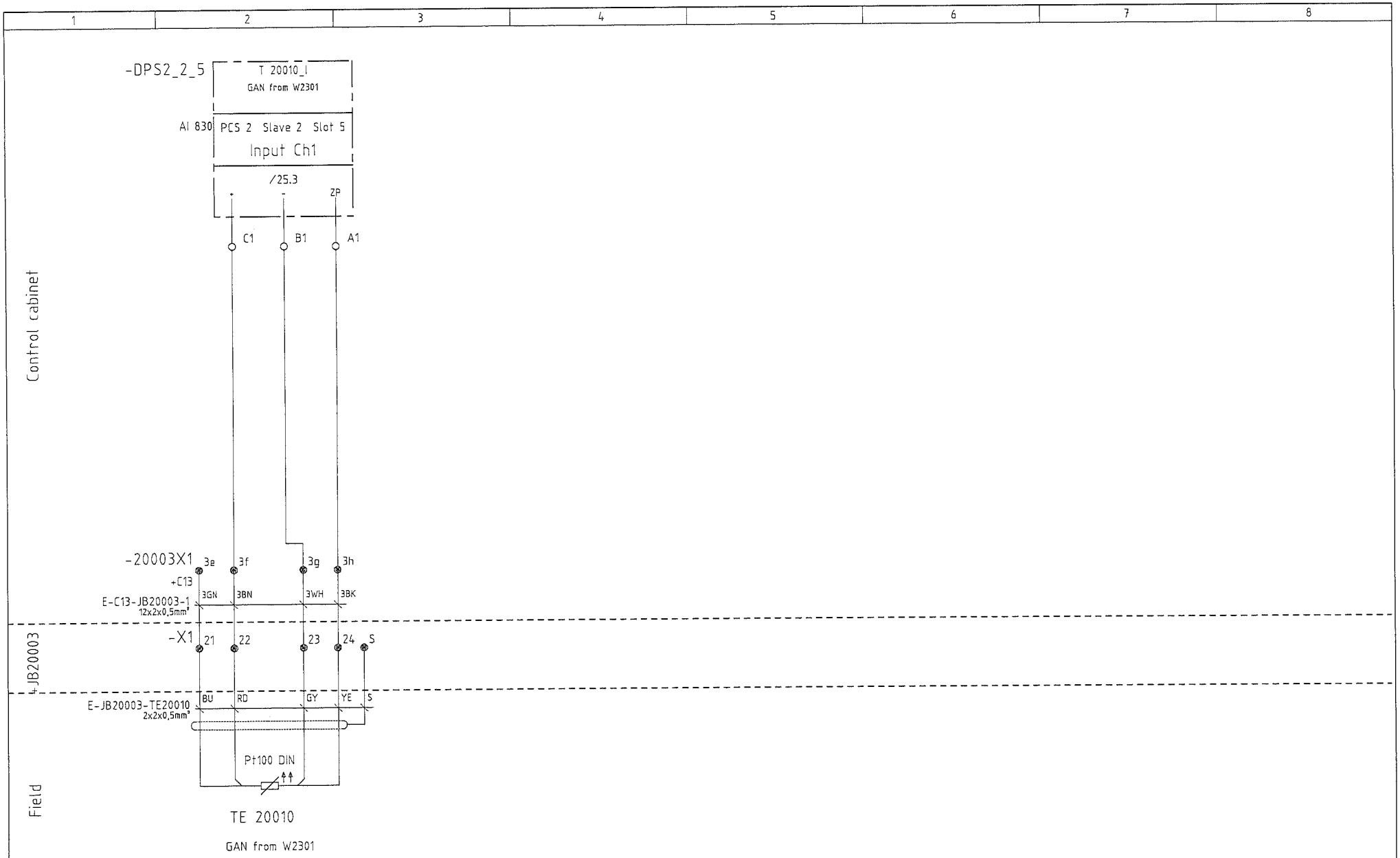
C9792705-1

page 55
sh.



ELCAD (R)

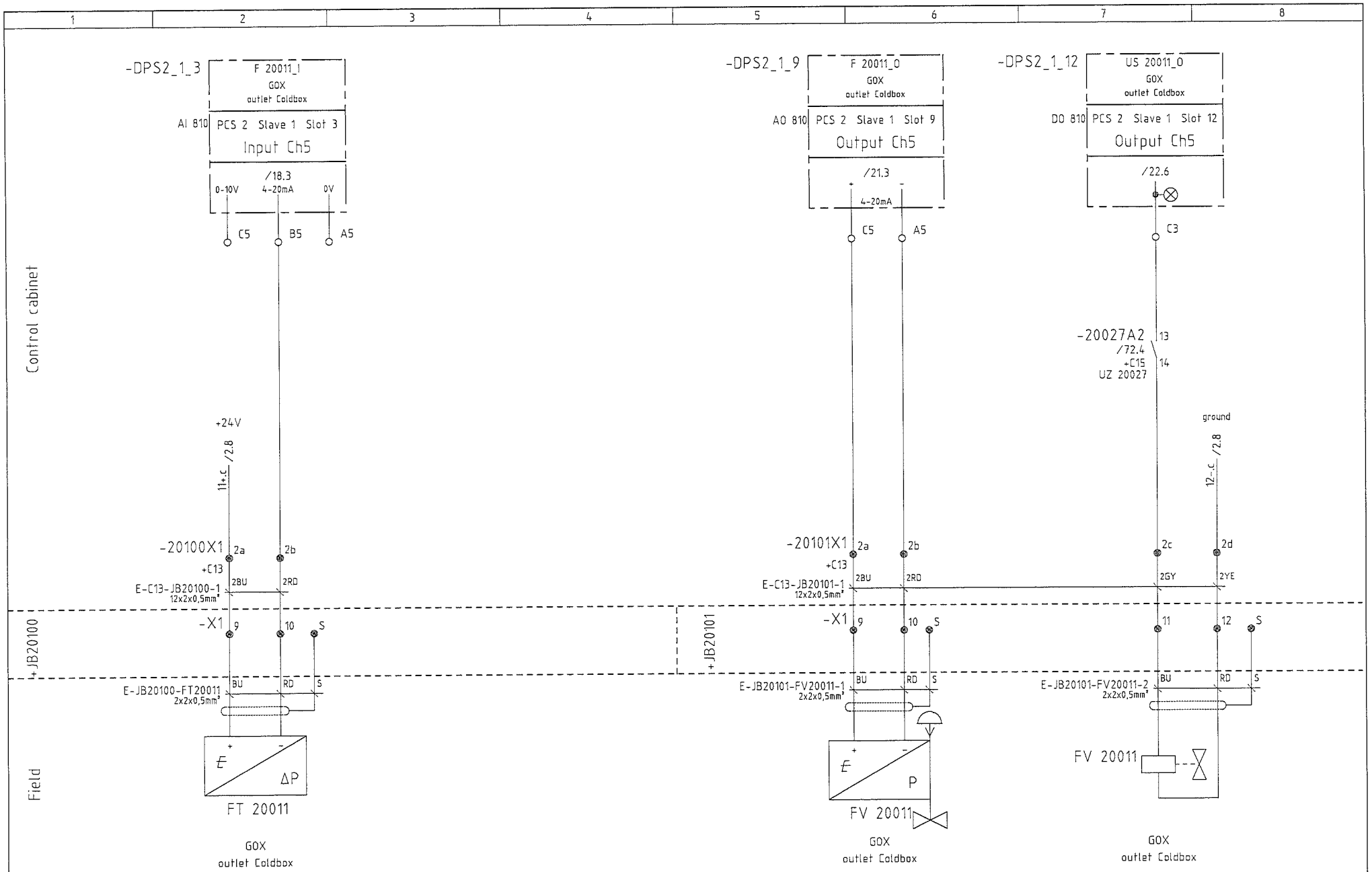
c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Main heat exchanger T 20009, P&I 9	K.70101	=
b				made	Meis					+C13
a		5.10.05	Kauven	check					C9792705-1	page 56
	revision	date	name	stand.		replaced:	replaced:	based:		sh.



ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Main heat exchanger T 20010, P&I 9
b				made	Meis			
a		5.10.05	Kauven	check				
	revision	date	name	stand.		replaced:	replaced:	based:

K.70101	= +C13
C9792705-1	page 57 sh.



ELCAD (R)

c				date	21.07.2005
b				made	Meis
a		5.10.05	Kauven	check	
	revision	date	name	stand.	

ASU Kosice

AIR LIQUIDE
Air Liquide AGS GmbH

Circuit diagram
Products
F 20011, P&I 10

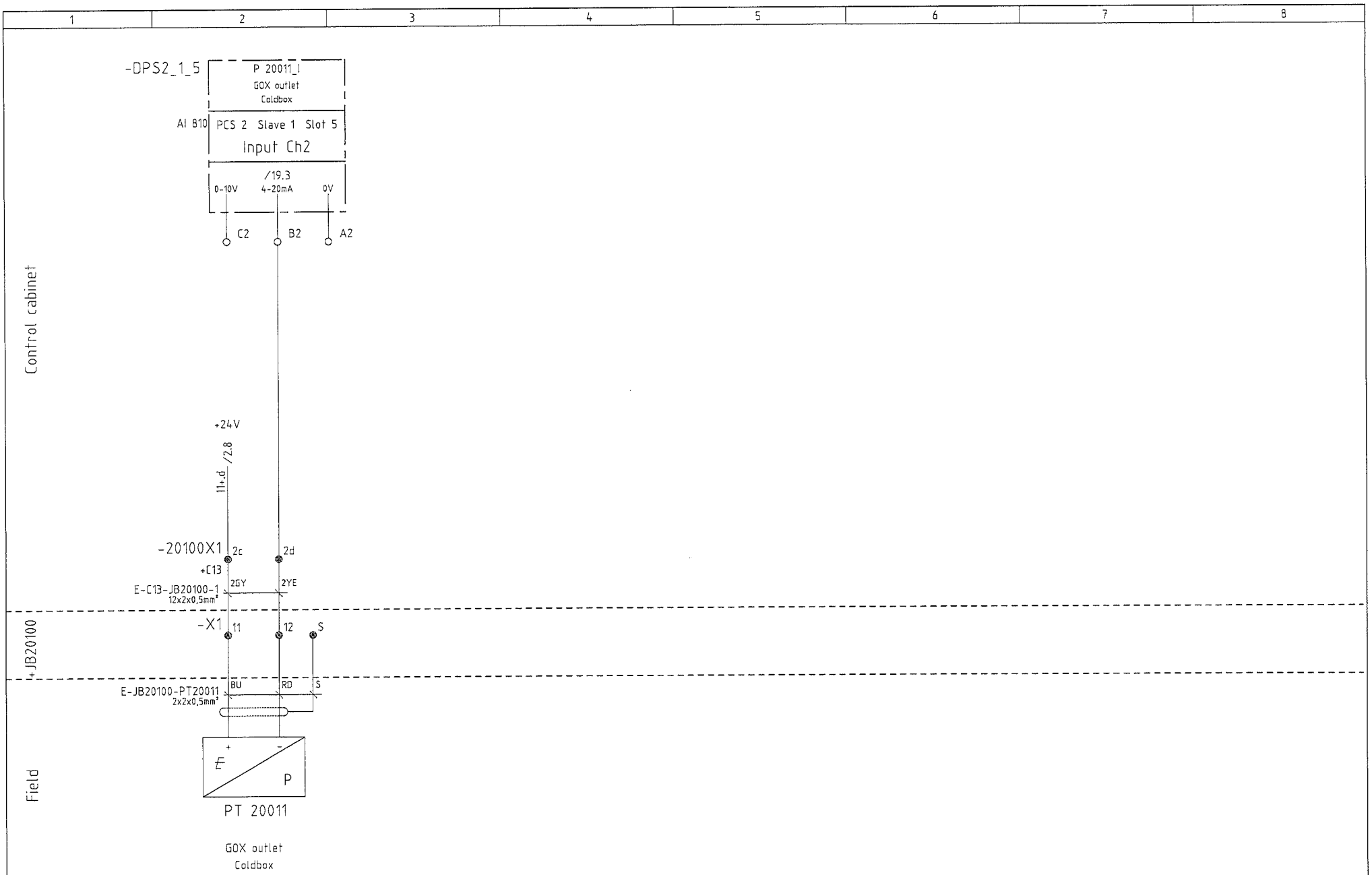
K.70101

=
+C13

C9792705-1

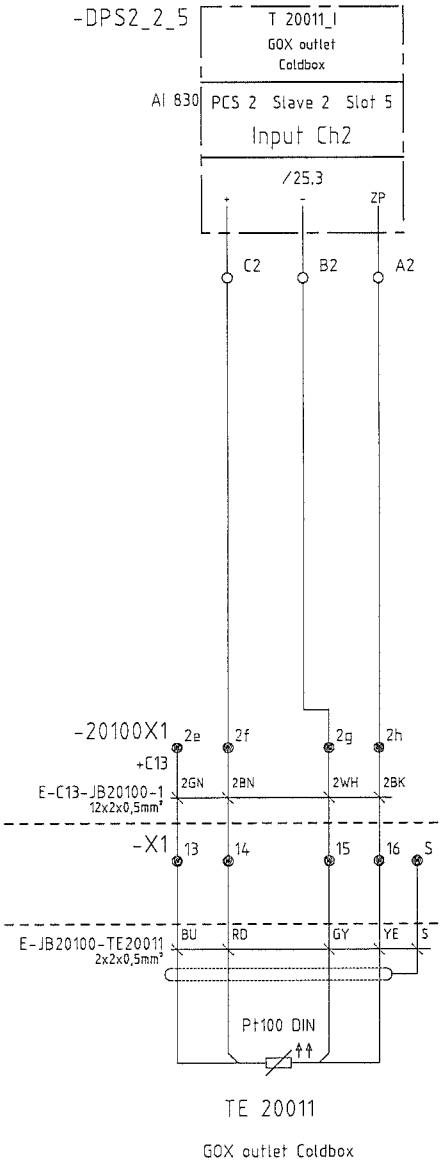
page 58
sh.

replaced:
replaced:
based:



ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Products P 20011, P&I10	K.70101 / +C13
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 / page 59 sh.
	revision	date	name	stand.		replaced:	replaced:	based:	



ELCAD (R)

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b				made	Meis				
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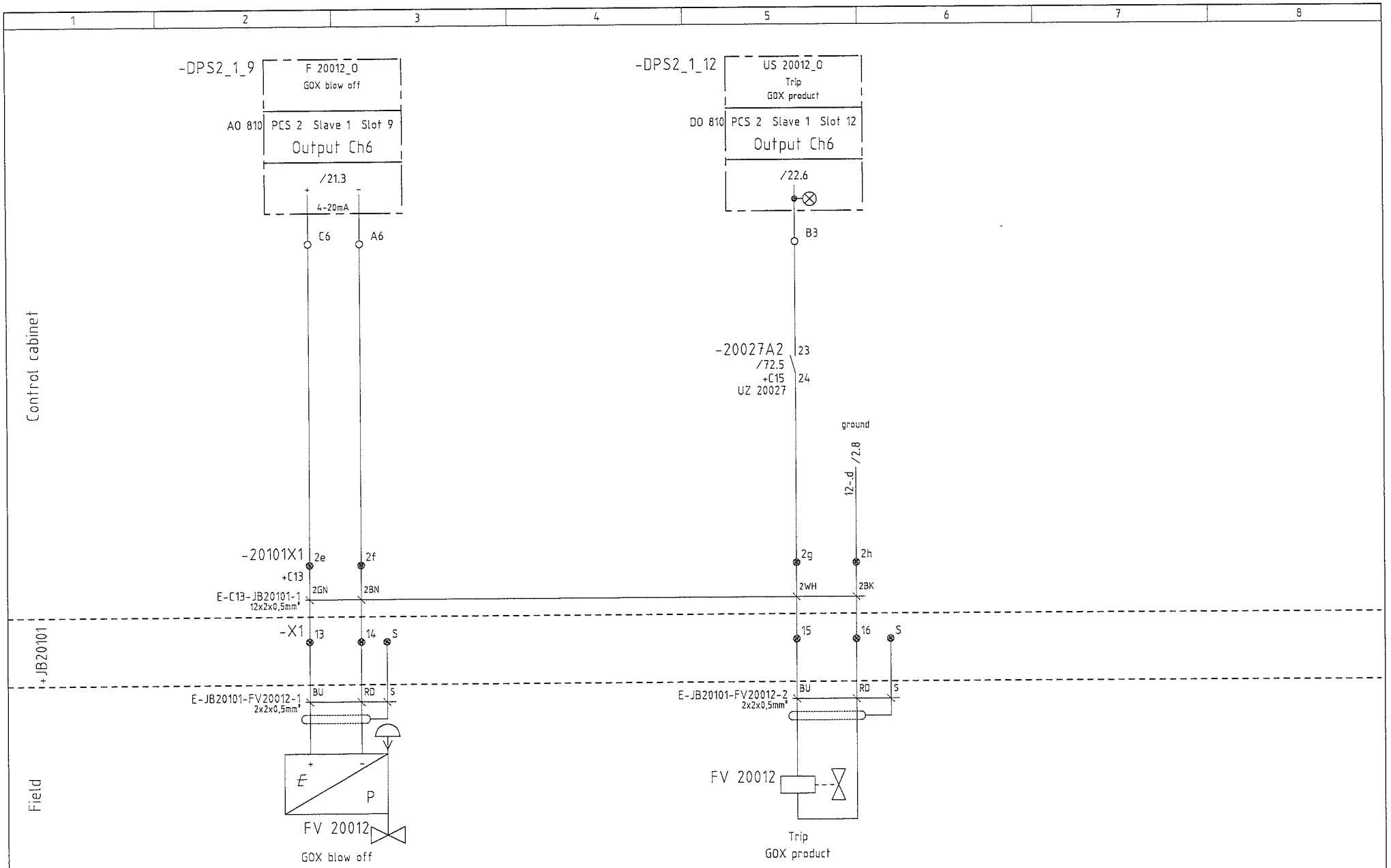
	revision	date	name	stand.		replaced:	replaced:	based:	sh.



ELCAD (R)

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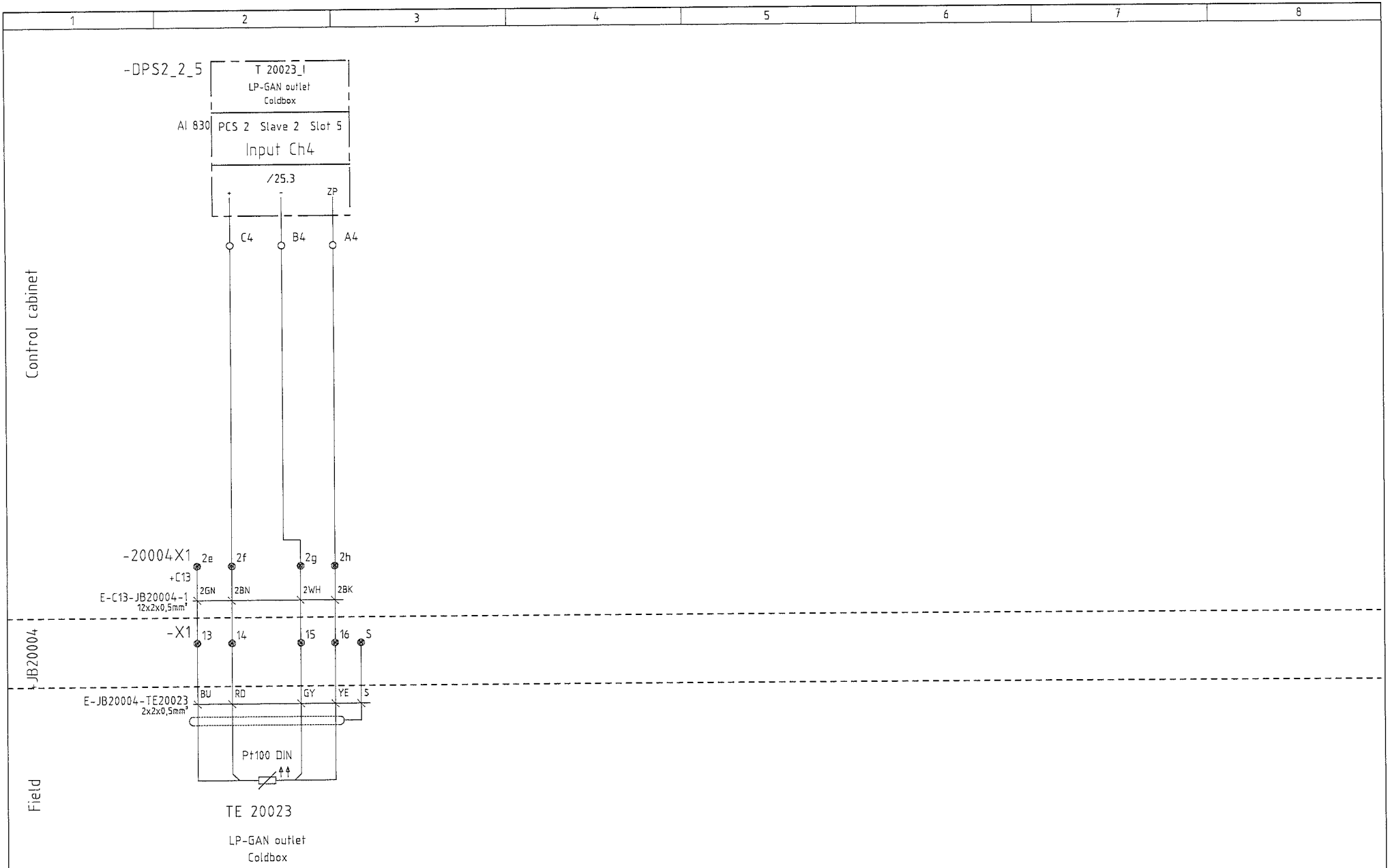
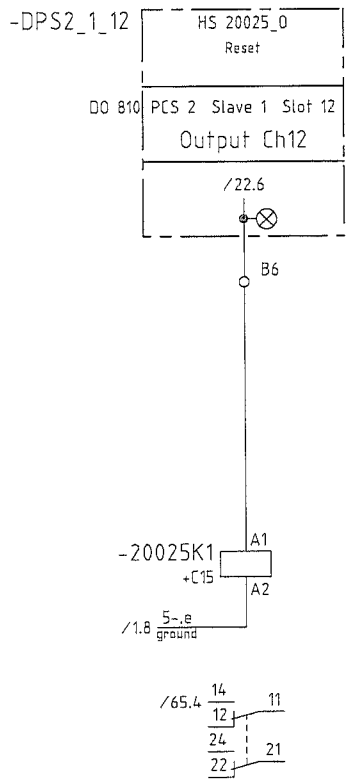
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 page 61 sh.
	revision	date	name	stand.		replaced:	replaced:	based:	



ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Main heat exchanger T 20023, P&I 9	K.70101 = +C13
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 page 62 sh.
	revision	date	name	stand.		replaced:	replaced:	based:	

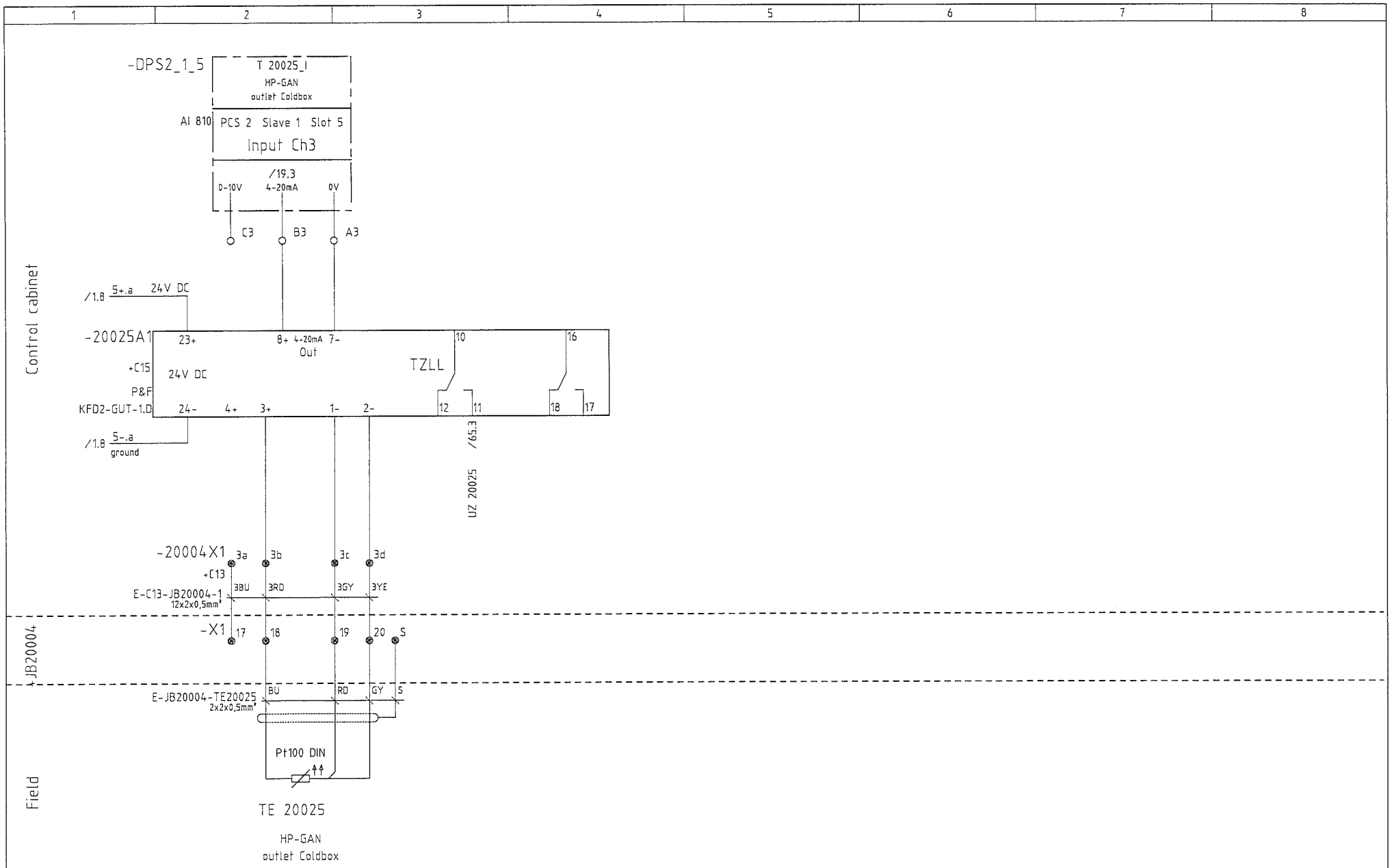


Control cabinet

ELCAD (R)

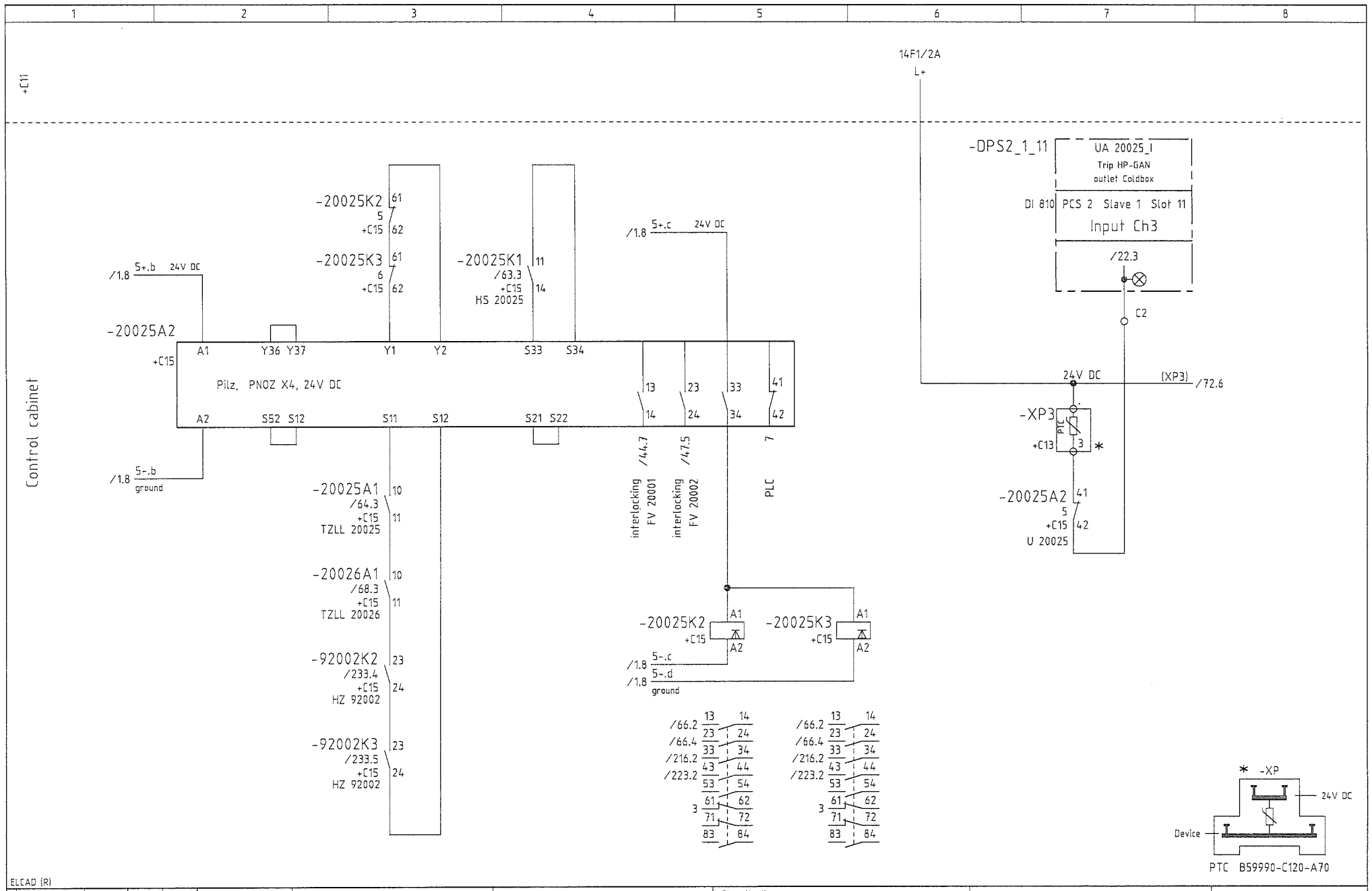
c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Main heat exchanger H 20025, P&I 9
b				made	Meis			
a				check				
	revision	date	name	stand.		replaced:	replaced: / based:	

K.70101	= +C13	
C9792705-1	page 63	sh.



ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Main heat exchanger T 20025, P&I 9	K.70101 = +C13
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 page 64 sh.
	revision	date	name	stand.		replaced:	replaced:	based:	



ELCAD (R)

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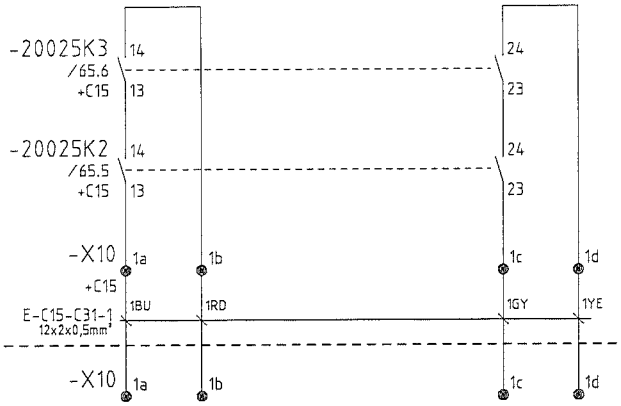
b				made	Meis					+C13
a		5.10.05	Kauven	check					C9792705-1	page 65
	revision	date	name	stand.		replaced:	replaced:	based:		sh.



ELCAD (R)

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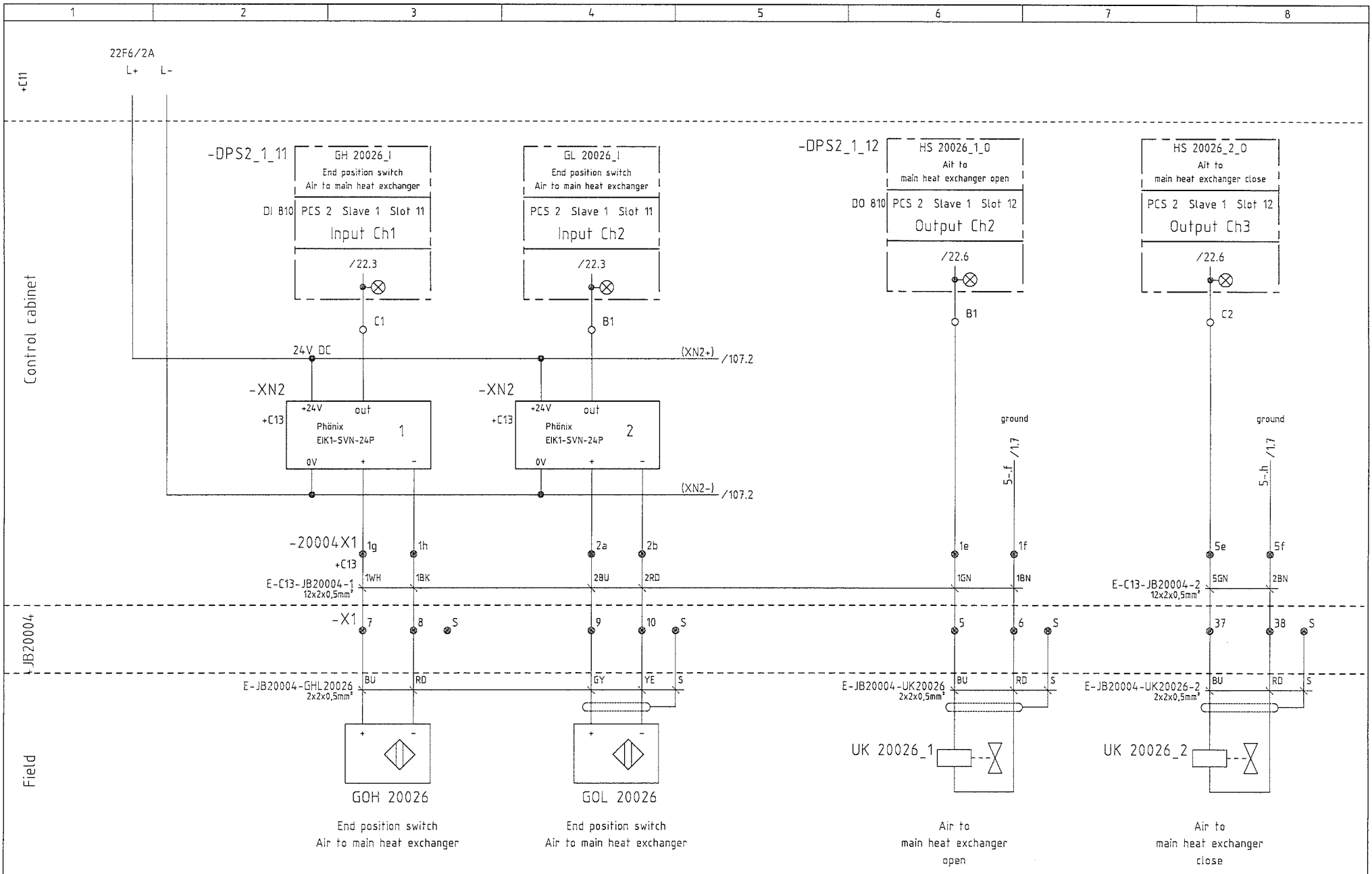
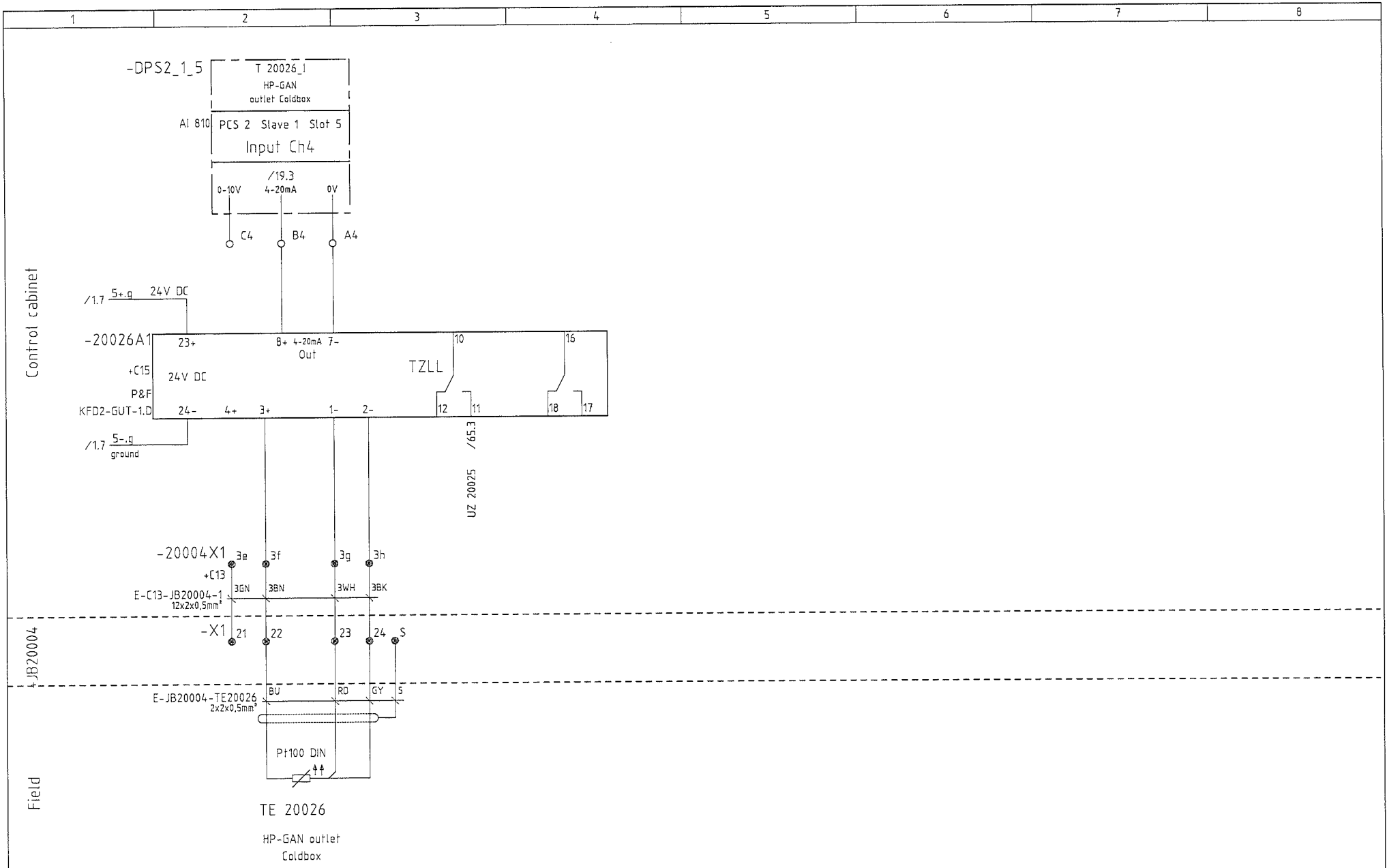
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 page 66 sh.
	revision	date	name	stand.		replaced:	replaced: based:		



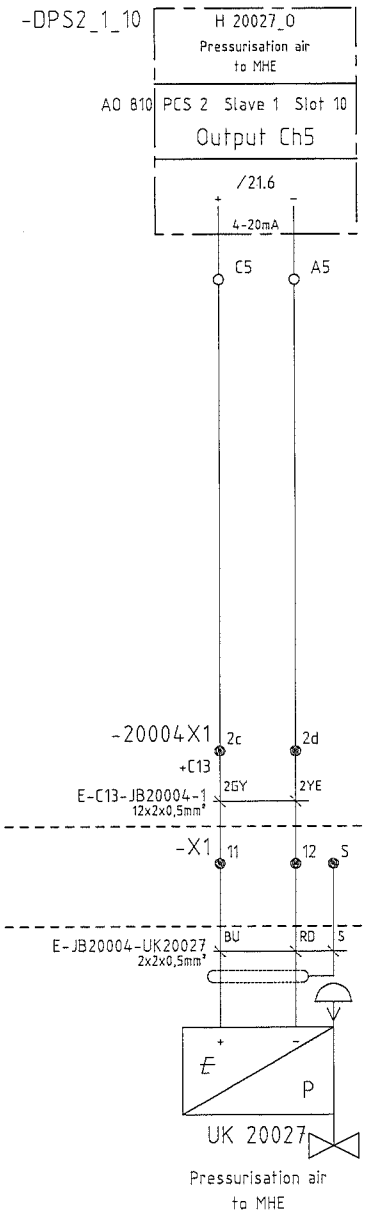
ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram	K.70101	=	
b	As built	24.11.06	Kauven	made	Meis			Booster air compressor		+C13	
a		5.10.05	Kauven	check				G/H 20026, P&I 6	C9792705-1	page 67	
	revision	date	name	stand.		replaced:	replaced:	based:		sh.	



ELCAD (R)

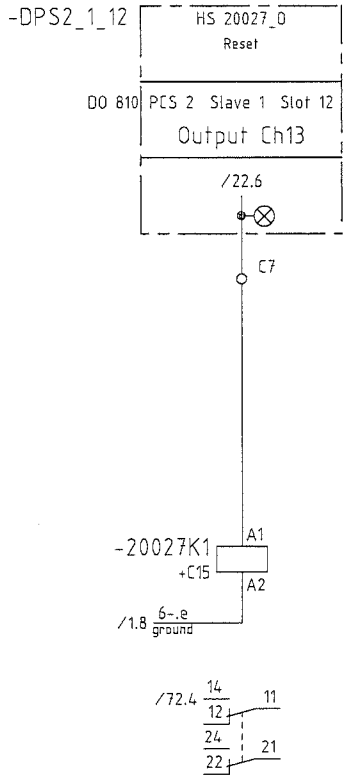
c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Main heat exchanger T 20026, P&I 9	K.70101	=
b				made	Meis					+C13
a		5.10.05	Kauven	check					C9792705-1	page 68
	revision	date	name	stand.		replaced:	replaced:	based:		sh.



ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Booster air compressor H 20027, P&I 6
b				made	Meis			
a		5.10.05	Kauven	check				
	revision	date	name	stand.		replaced:	replaced:	based:

K.70101	= +C13
C9792705-1	page 69 sh.

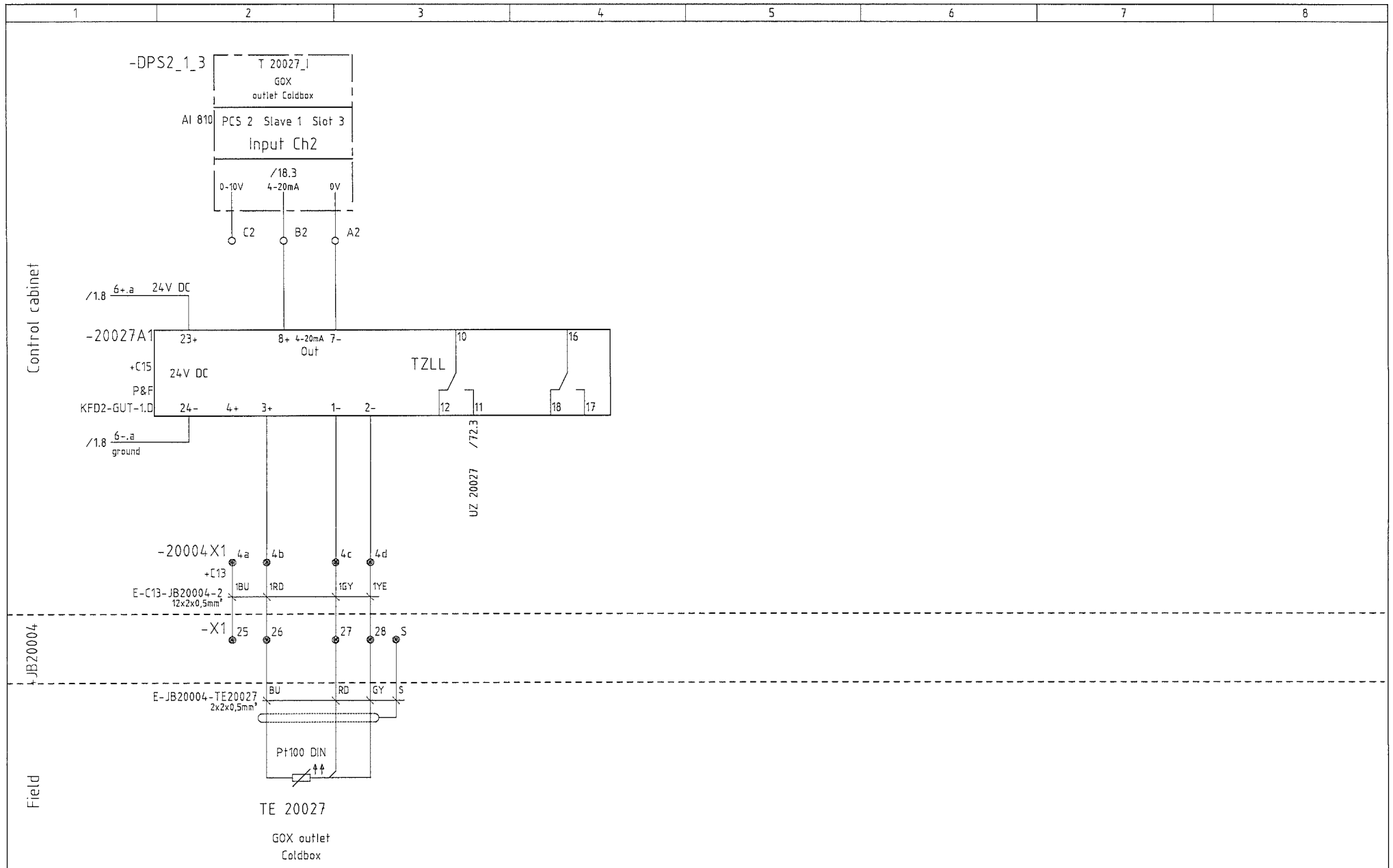


Control cabinet

ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Main heat exchanger H 20027, P&I 9
b				made	Meis			
a				check				
	revision	date	name	stand.		replaced:	replaced:	based:

K.70101	= +C13
C9792705-1	page 70 sh.



ELCAD (R)

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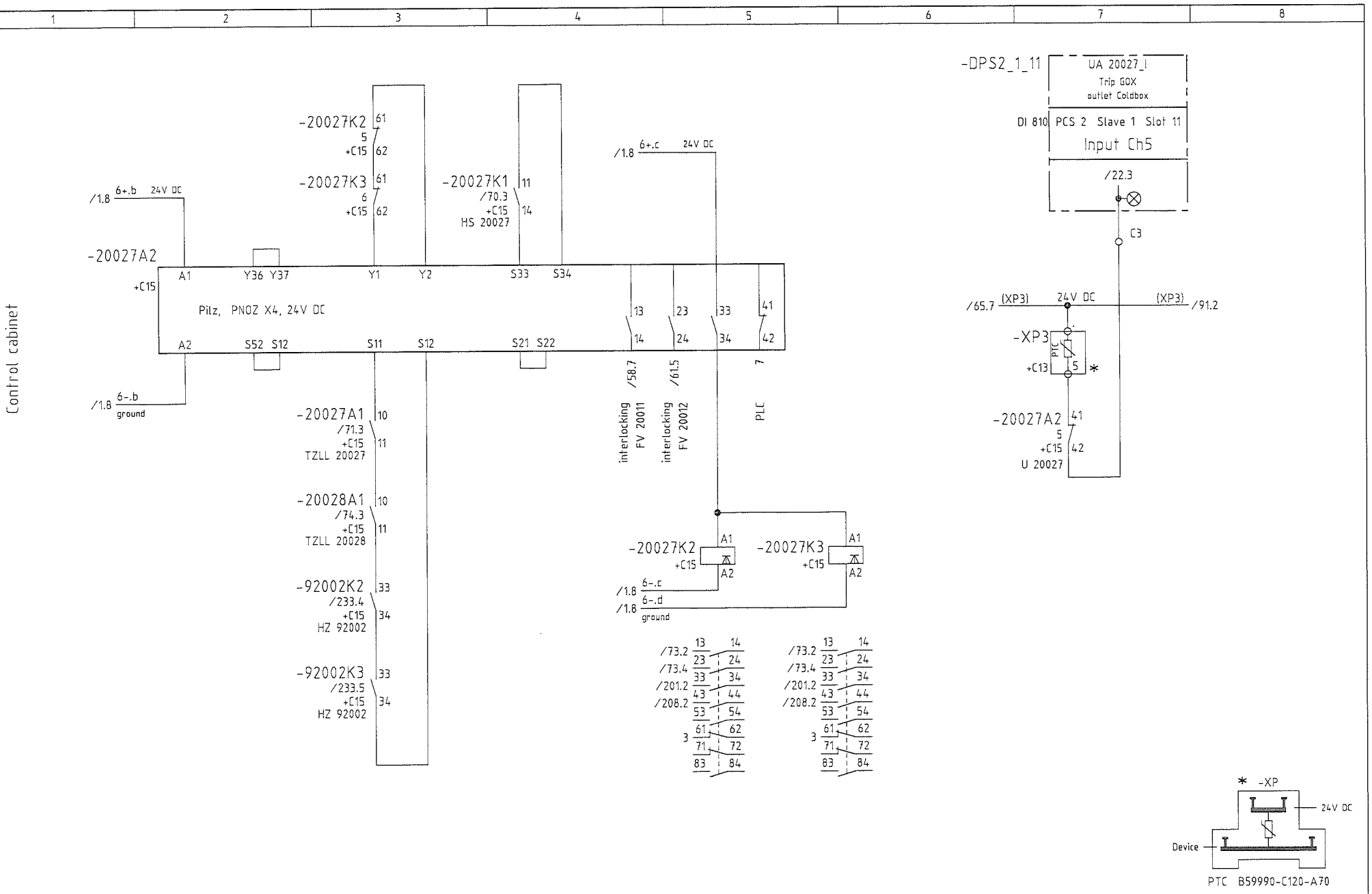
b				made	Meis			
a		5.10.05	Kauven	check				
	revision	date	name	stand.		replaced:	replaced:	based:

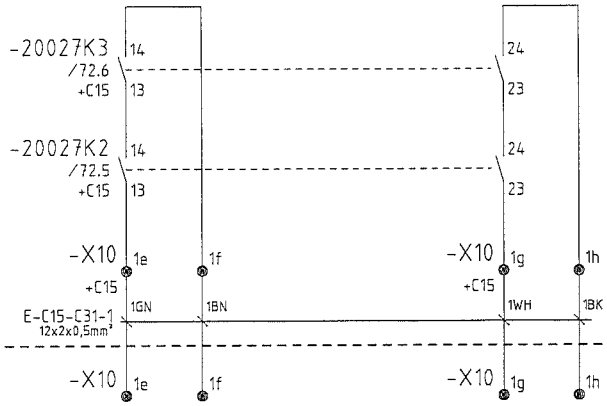
K.70101	=	
	+C13	
C9792705-1	page 71	sh.



ELCAD (R)

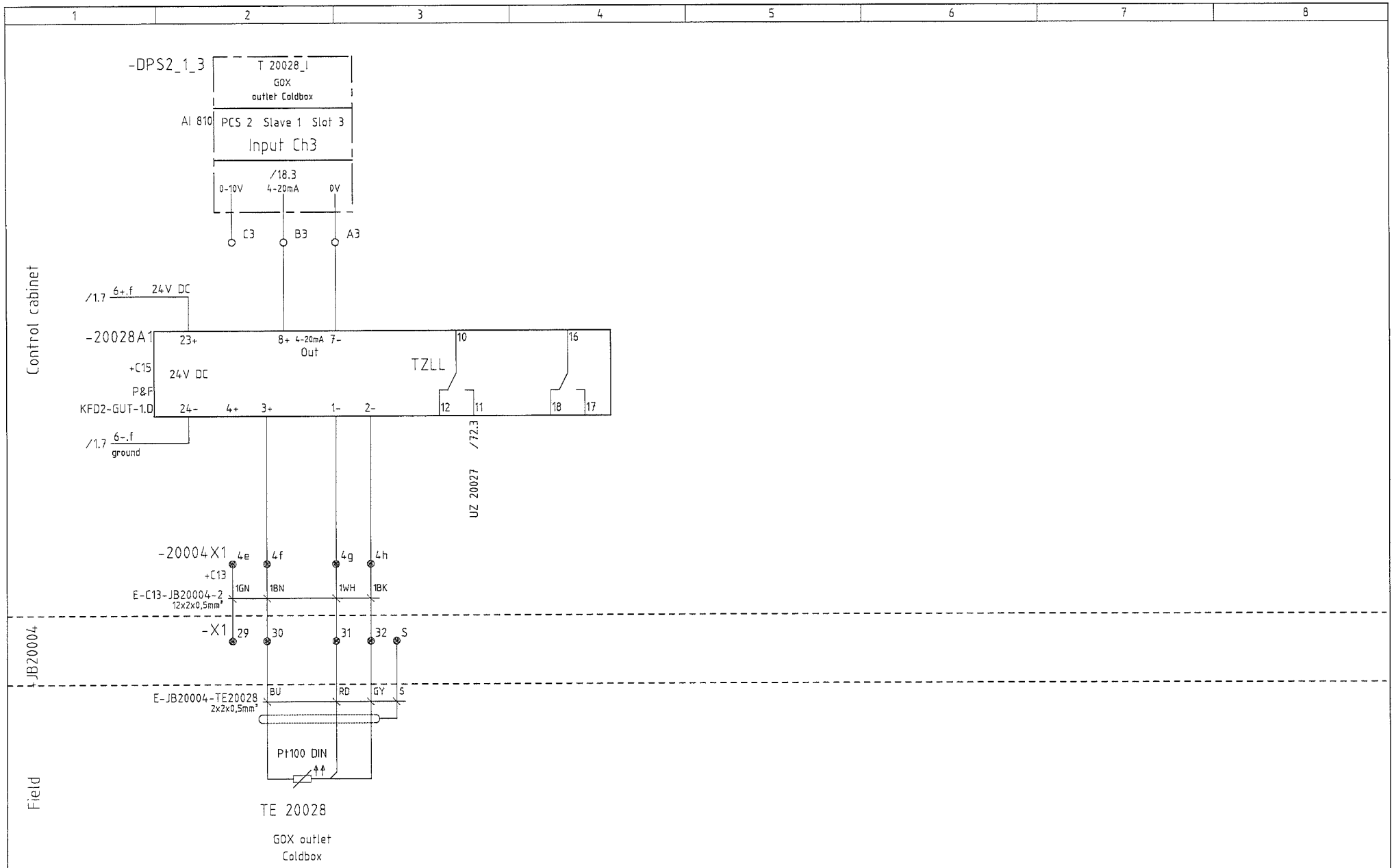
c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Main heat exchanger U 20027, P&I 9
b				made	Meis			
a		5.10.05	Kauven	check				
	revision	date	name	stand.		replaced:	replaced:	based:

K.70101	=	
	+C13	
C9792705-1	page 72	sh.



ELCAD (R)

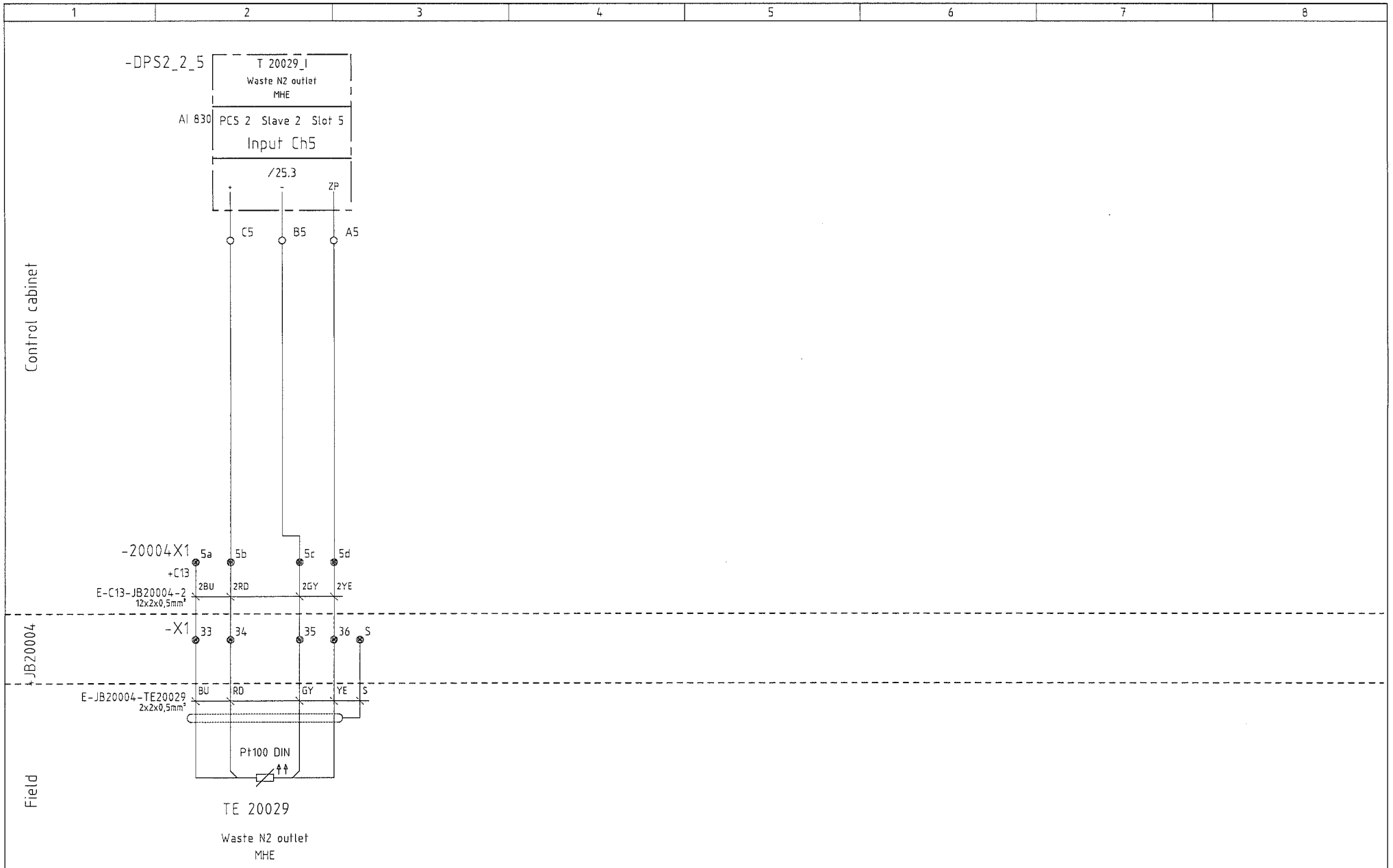
c				date	21.07.2005	ASU Kosice	Circuit diagram Main heat exchanger U 20027, P&I 9	K.70101 = +C13
b				made	Meis			
a		5.10.05	Kauven	check		AIR LIQUIDE Air Liquide AGS GmbH		C9792705-1 page 73 sh.
	revision	date	name	stand.		replaced: / replaced: / based:		



ELCAD (R)

c				date	21.07.2005	ASU Kosice	Circuit diagram Main heat exchanger T 20028, P&I 9	K.70101
b				made	Meis			= +C13
a		5.10.05	Kauven	check				page 74
	revision	date	name	stand.		replaced: replaced: based:		C9792705-1 sh.

AIR LIQUIDE
Air Liquide AGS GmbH



ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE	Circuit diagram	K.70101	=
b				made	Meis			Main heat exchanger		+C13
a		5.10.05	Kauven	check			Air Liquide AGS GmbH	T 20029, P&I 9	C9792705-1	page 75
	revision	date	name	stand.		replaced:	replaced:	based:		sh.

1	2	3	4	5	6	7	8

ELCAD (R)

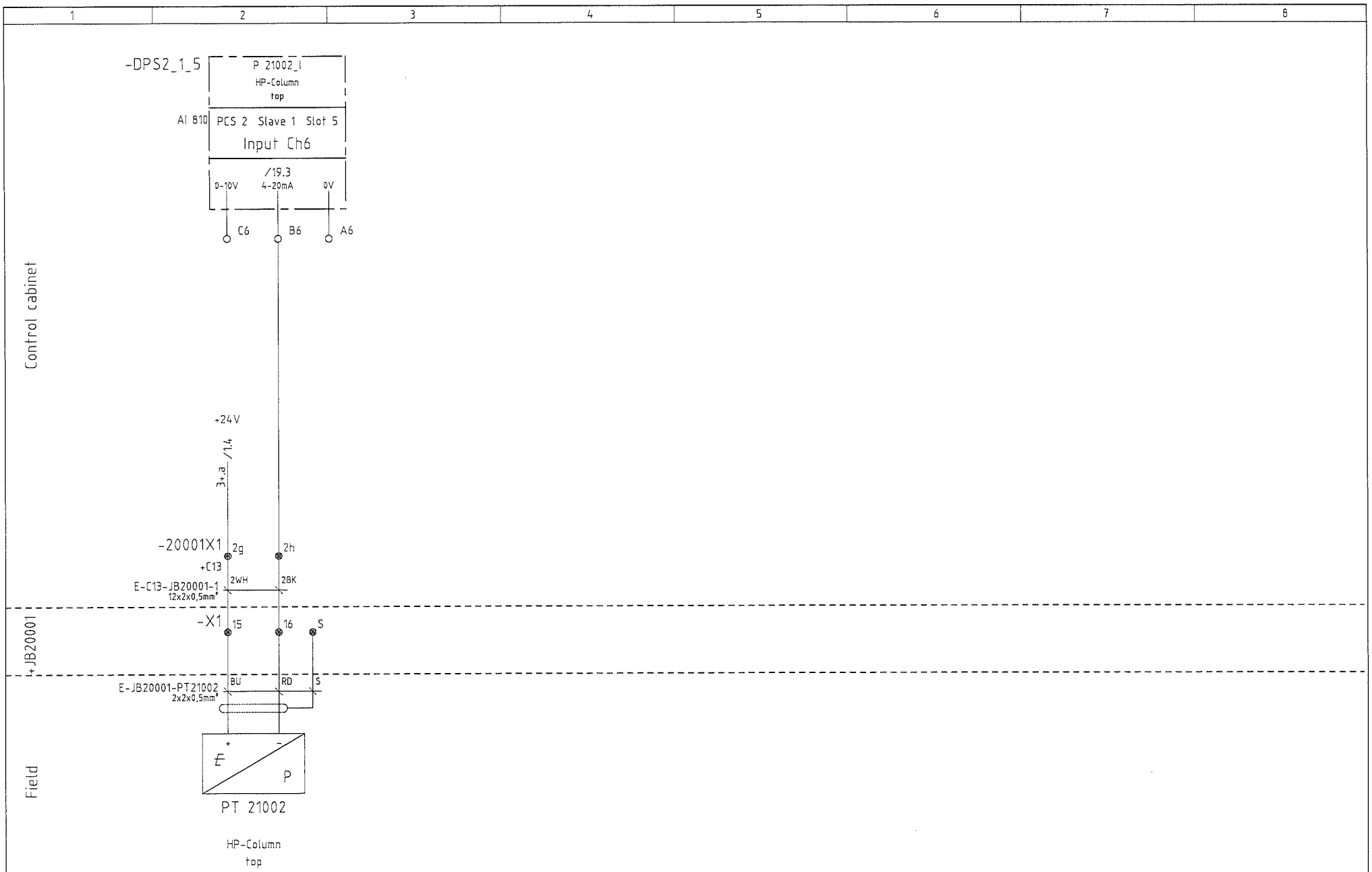
c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram
b				made	Meis			
a				check				Spare
	revision	date	name	stand.		replaced:	replaced:	based:

K.70101	=	
	+C13	
C9792705-1	page 76	
	sh.	

1	2	3	4	5	6	7	8

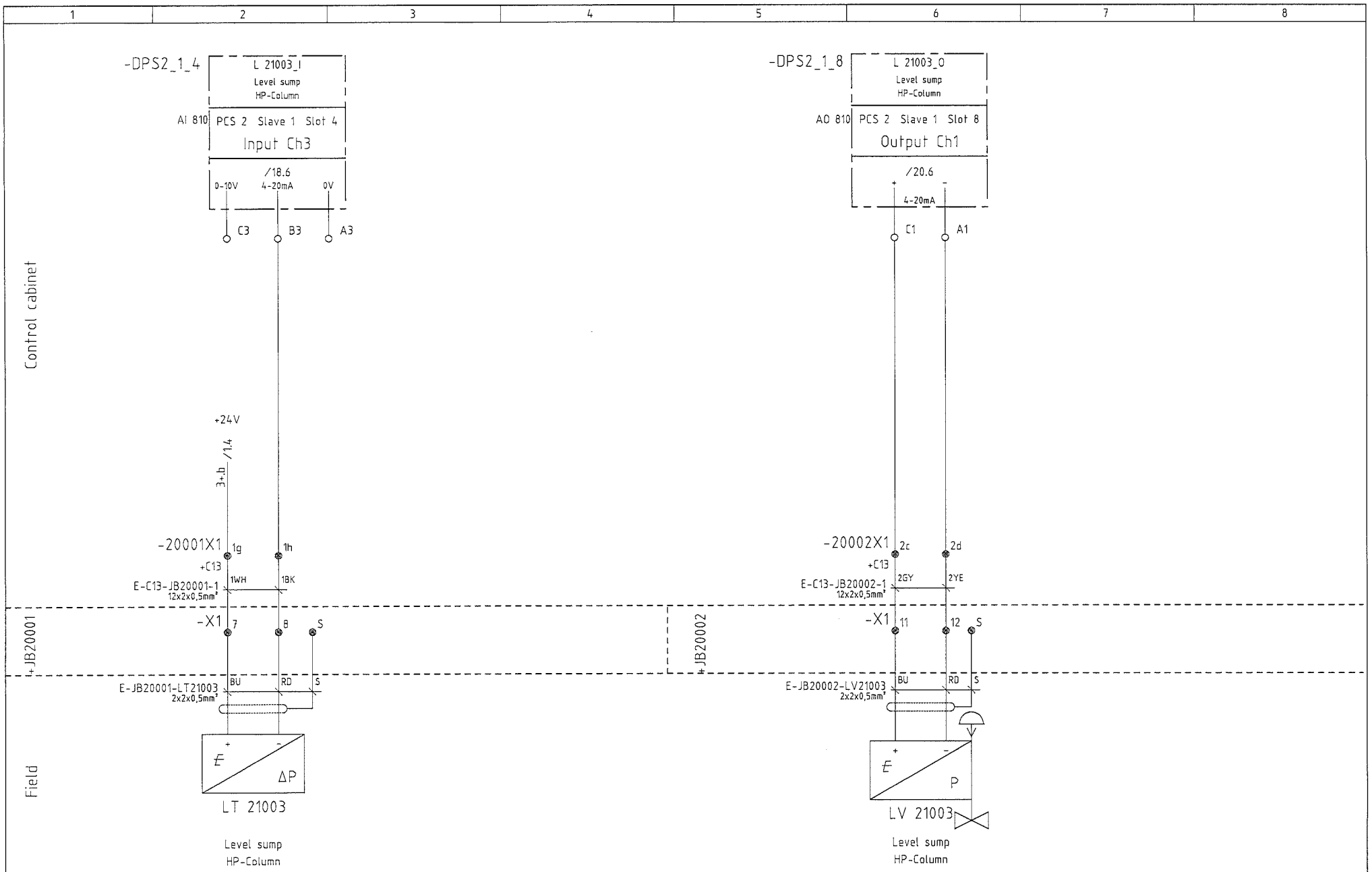
ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram	K.70101	=	
b				made	Meis					+C13	
a				check							
	revision	date	name	stand.		replaced:	replaced: based:	Spare	C9792705-1	page 77	sh.



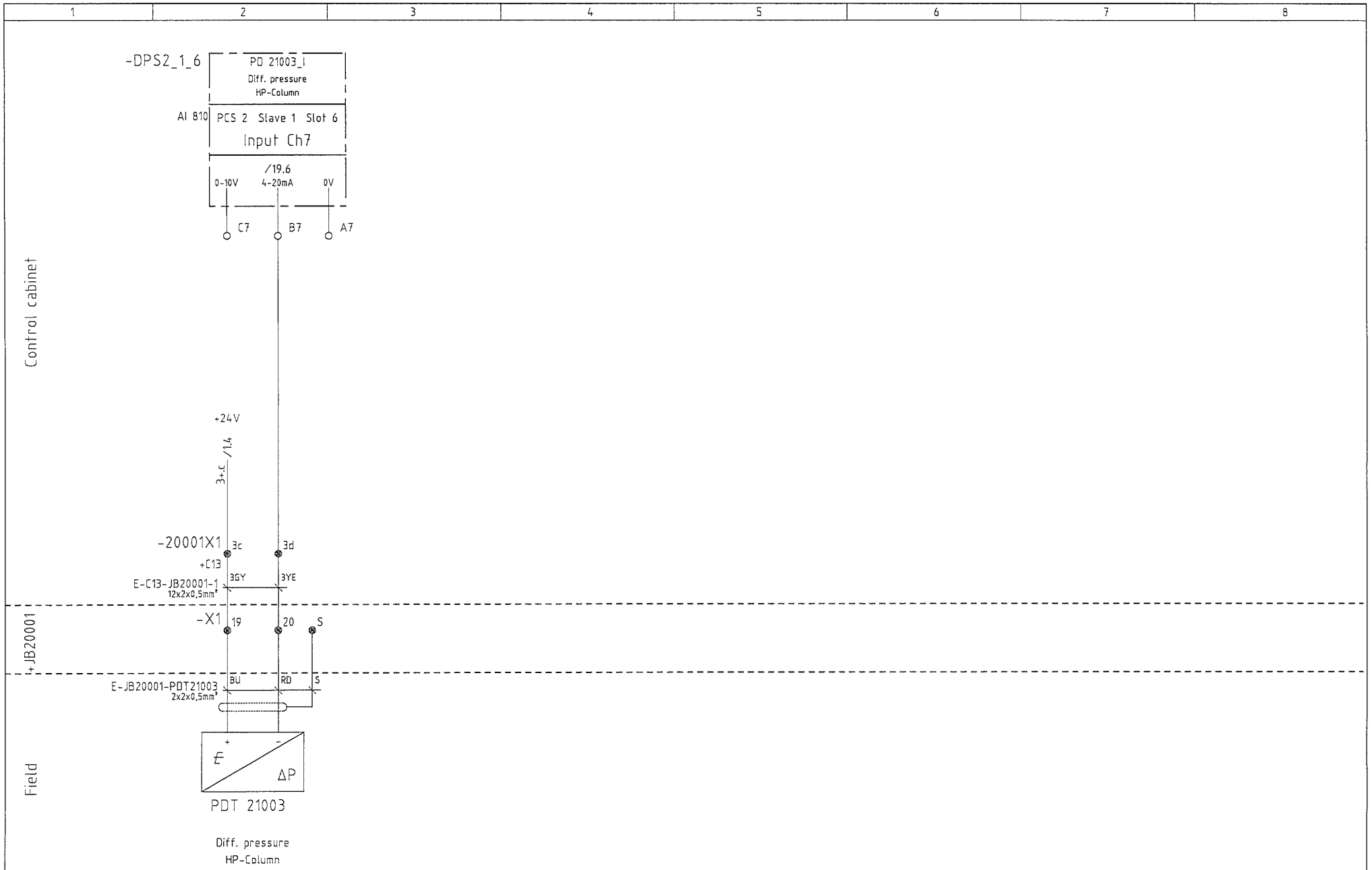
ELCAD (R)

c				date	21.07.2005	ASU Kosice	Circuit diagram HP-Column P 21002, P&I 14	K.70101 = +C13
b				made	Meis			
a		5.10.05	Kauven	check		AIR LIQUIDE Air Liquide AGS GmbH		C9792705-1 page 78 sh.
	revision	date	name	stand.		replaced: replaced: based:		



ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram HP-Column L 21003, P&I 14/17	K.70101	= +C13
b				made	Meis					
a		5.10.05	Kauven	check					C9792705-1	page 79 sh.
	revision	date	name	stand.		replaced:	replaced:	based:		

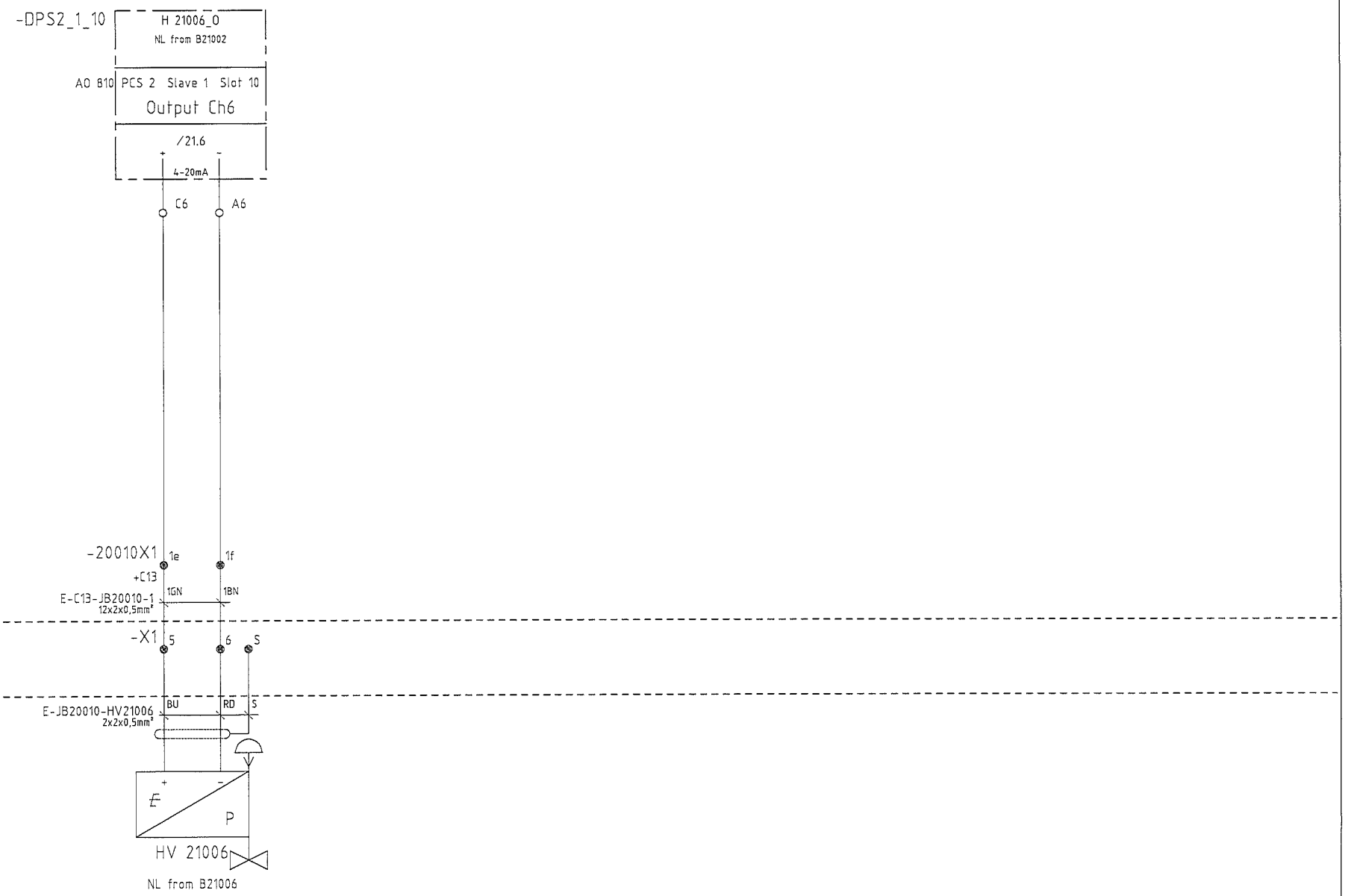


ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram HP-Column PD 21003, P&I 14
b				made	Meis			
a		5.10.05	Kauven	check				
	revision	date	name	stand.		replaced:	replaced: based:	

K.70101 | = | +C13

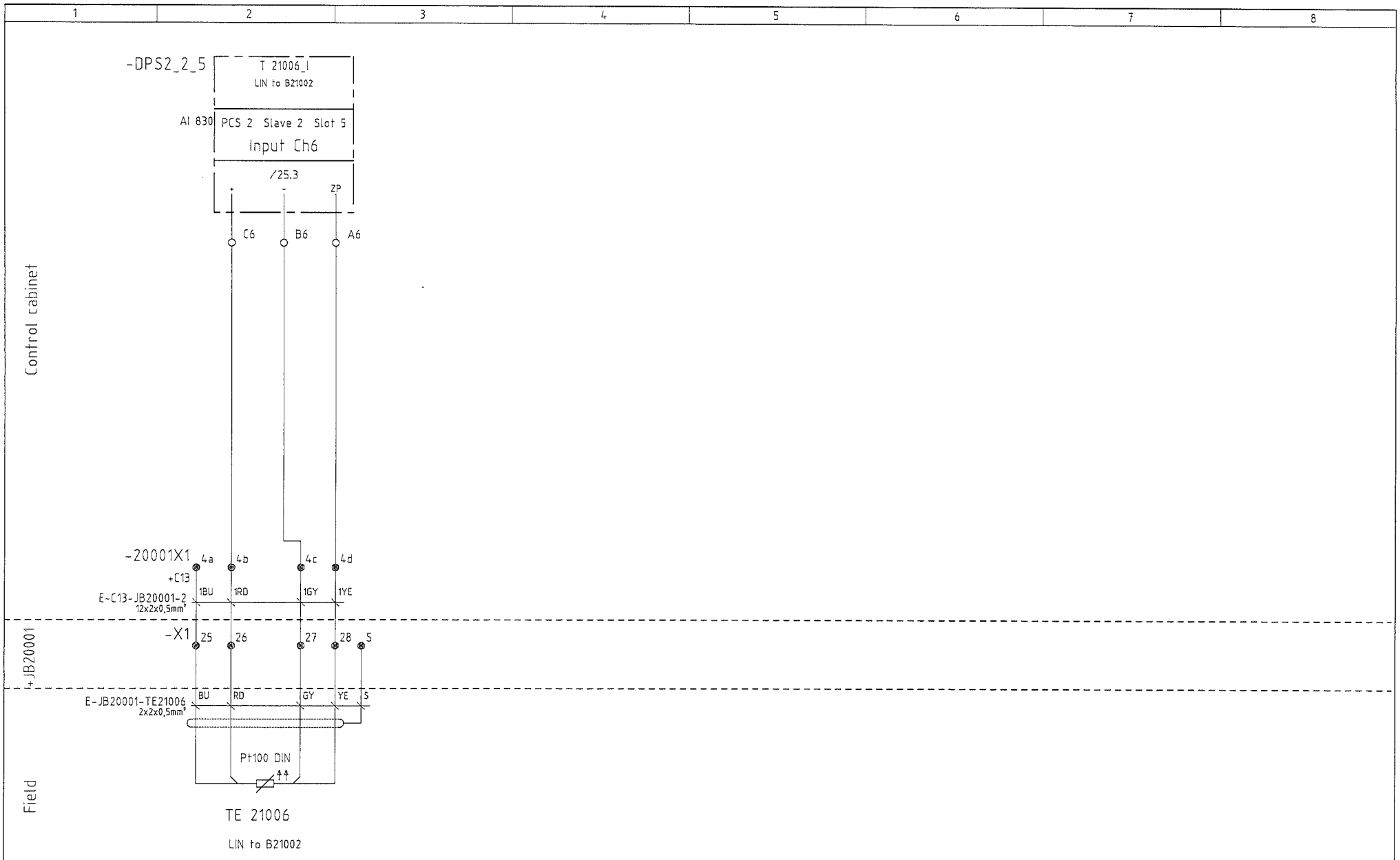
C9792705-1 | page 80 | sh.



ELCAD (R)

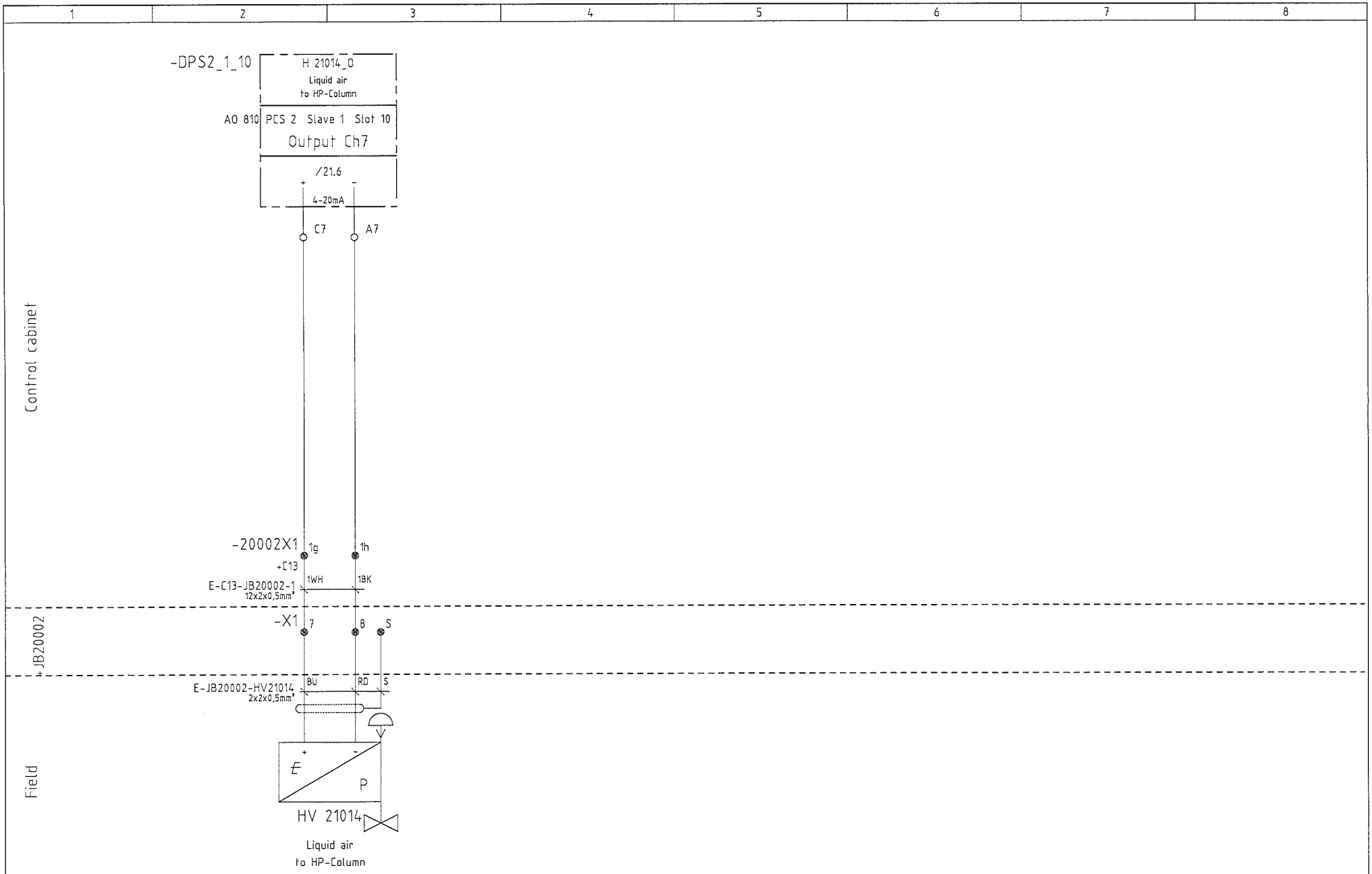
c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram HP-Column H 21006, P&I 14
b				made	Meis			
a		5.10.05	Kauven	check				
	revision	date	name	stand.		replaced: replaced	based:	

K.70101 | = +C13 | C9792705-1 | page 81 sh.



ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram HP-Column T 21006, P&I 14	K.70101 = +C13
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 page 82 sh.
	revision	date	name	stand.		replaced:	replaced:	based:	


1
2
3
4
5
6
7
8
-DPS2_1_10
H 21014_0
Liquid air
to HP-Column
AO 810 PCS 2 Slave 1 Slot 10
Output Ch7
/21.6
+
-
4-20mA
C7
A7
Control cabinet
-20002X1
1g
1h
+C13
E-C13-JB20002-1
12x2x0,5mm²
1WH
1BK
+JB20002
-X1
7
8
S
E-JB20002-HV21014
2x2x0,5mm²
BU
RD
S
E
P
HV 21014
Liquid air
to HP-Column
Field
ELCAD (R)
c
b
a
date
21.07.2005
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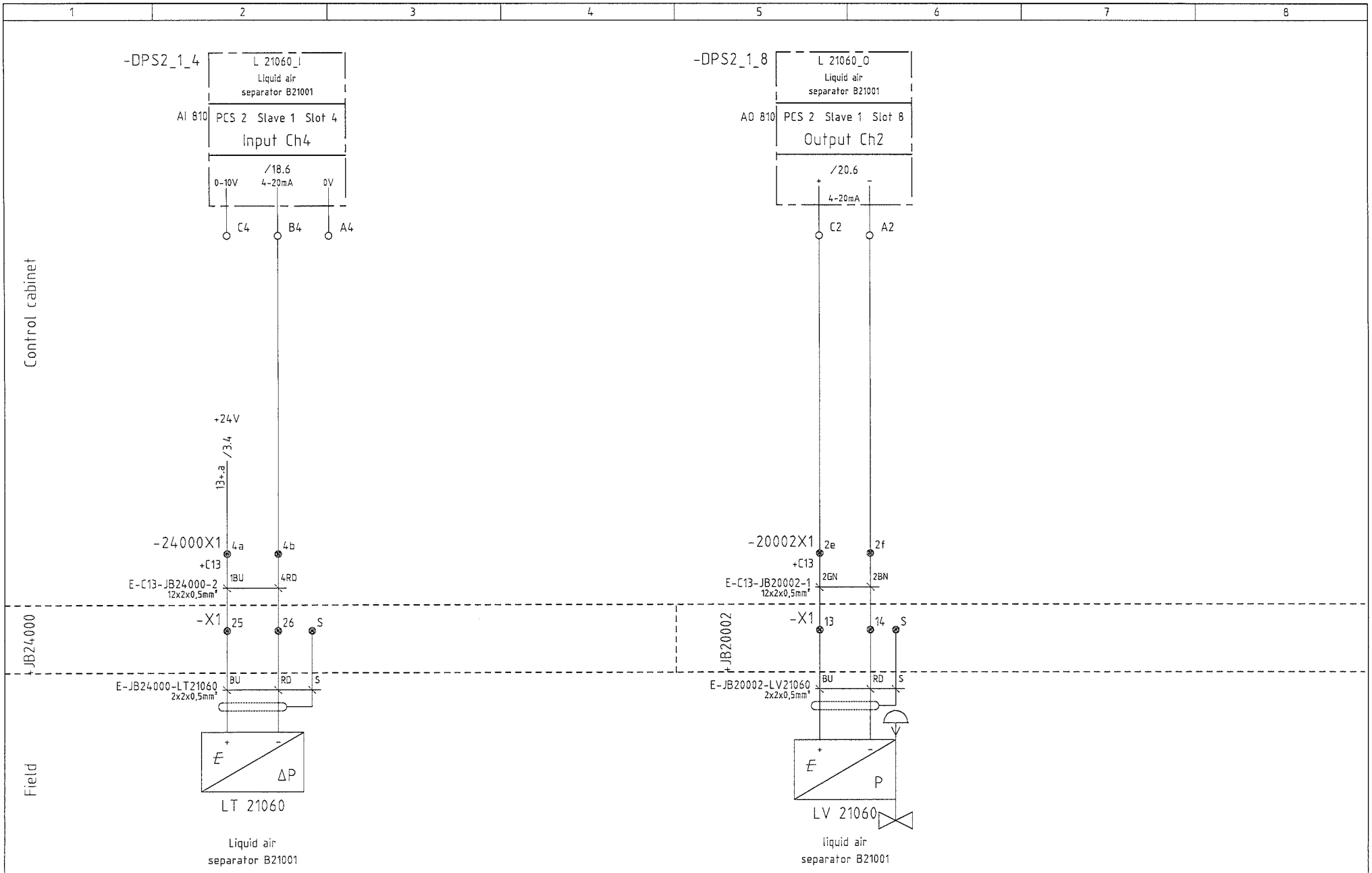
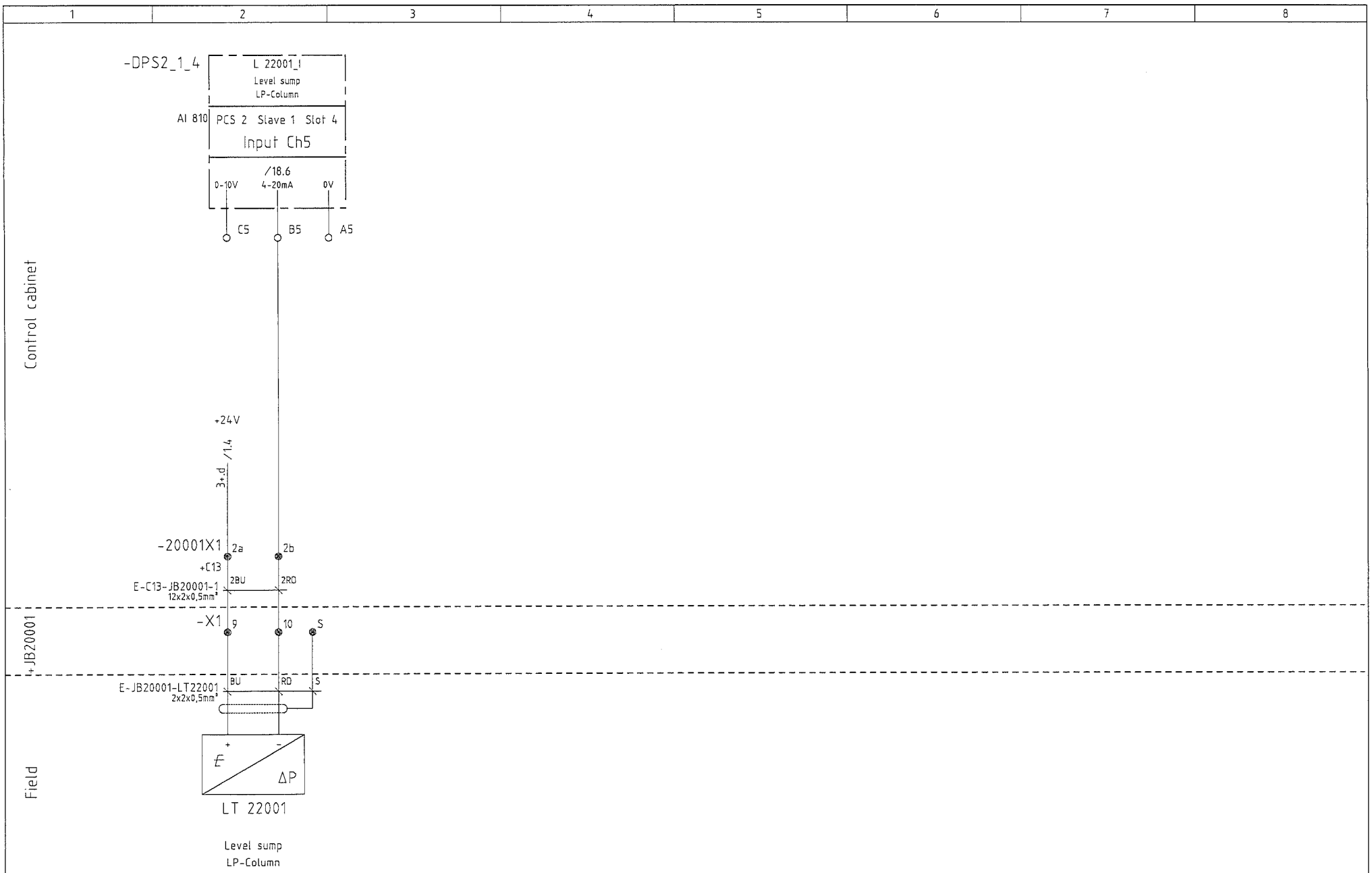
Meis
5.10.05
Kauven
check
revision
date
name
stand.
ASU Kosice
replaced:
replaced:
based:
AIR LIQUIDE
Air Liquide AGS GmbH
Circuit diagram
HP-Column
H 21014, P&I 14
K.70101
=
+C13
C9792705-1
page 83
sh.



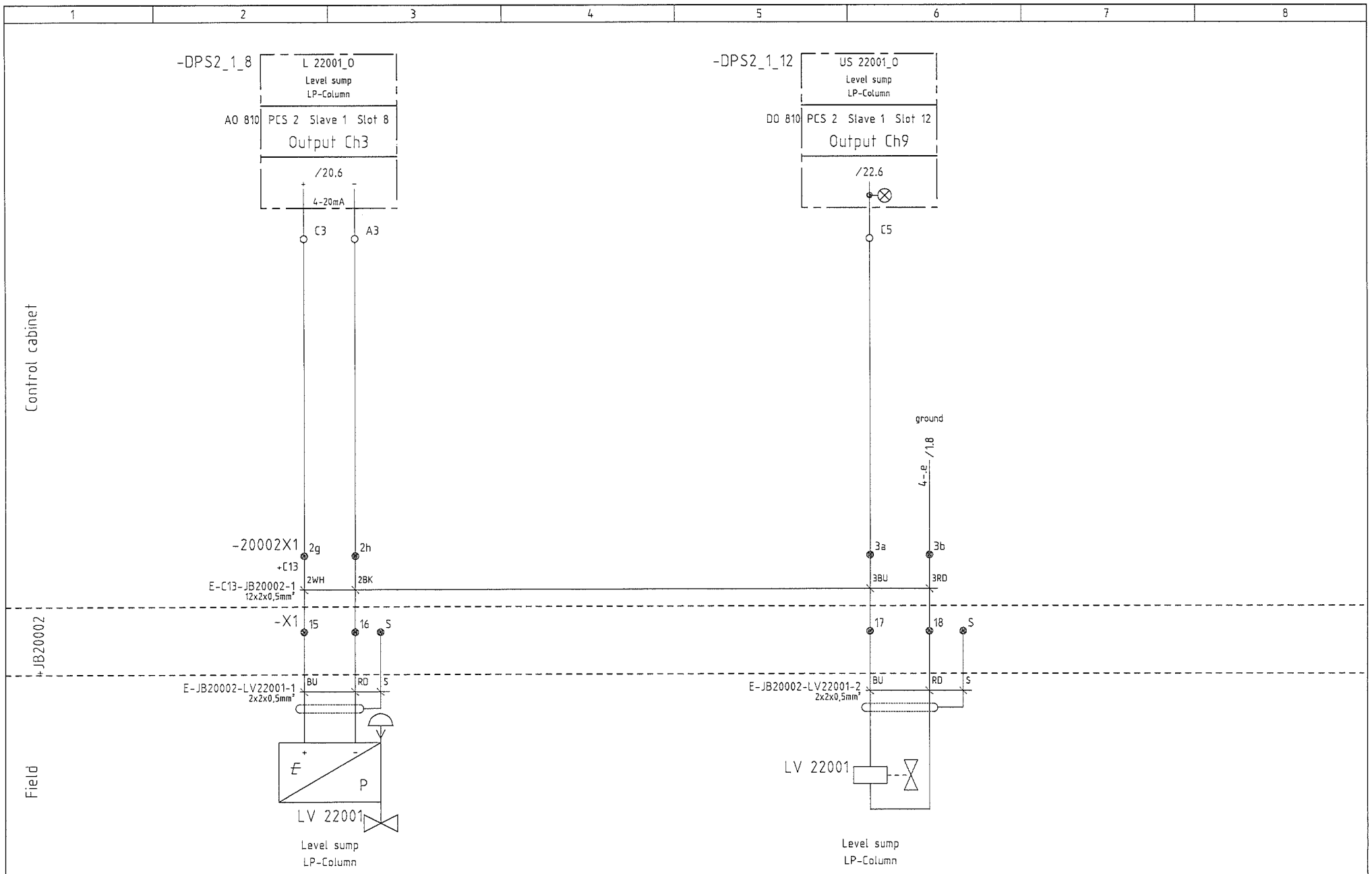
ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram MHE/LP-Column L 21060, P&I 9/13	K.70101 = +C13
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 page 84
	revision	date	name	stand.		replaced:	replaced:	based:	sh.



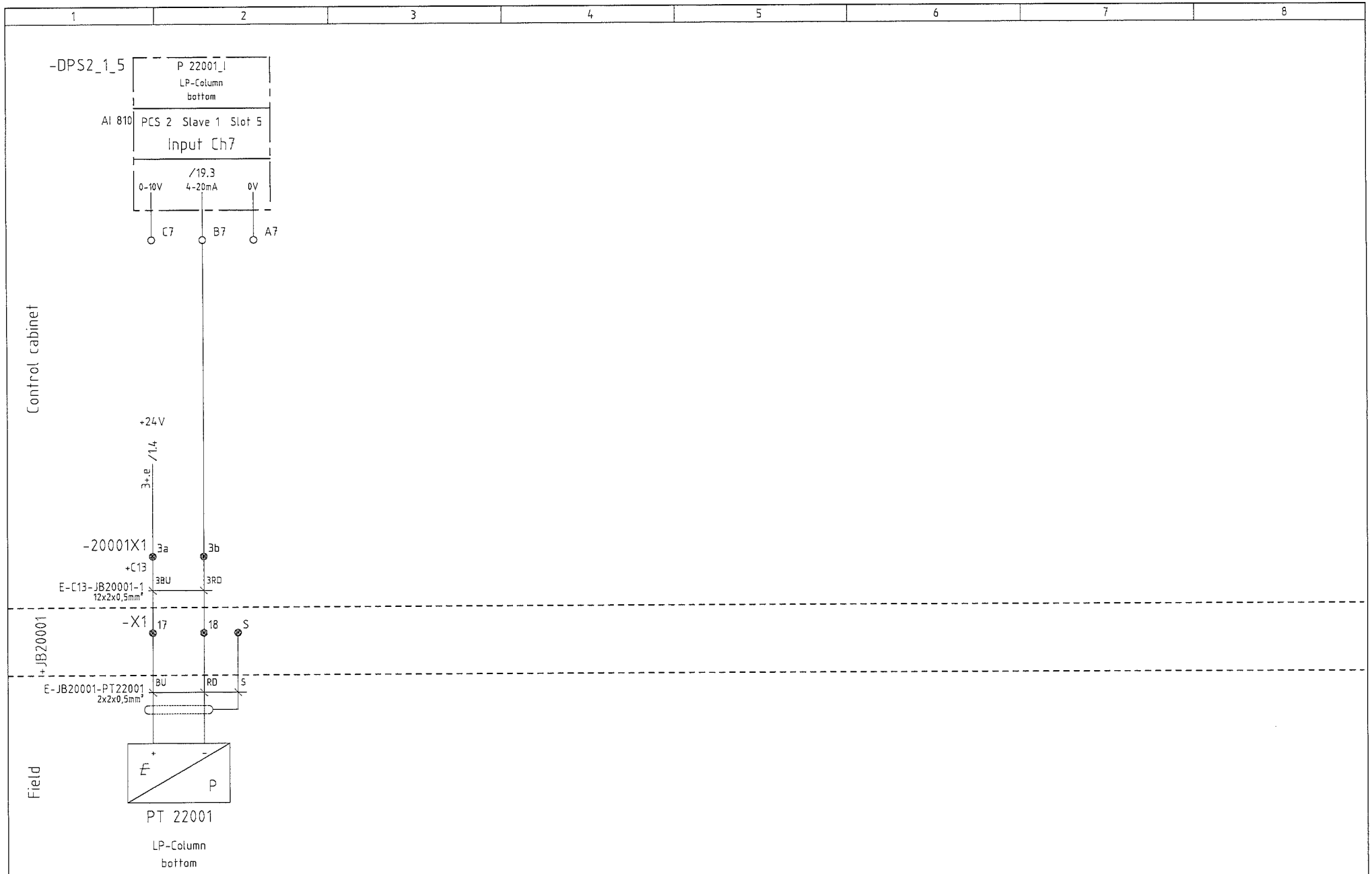
ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram HP-Column L 22001, P&I 14	K.70101	= +C13
b				made	Meis					
a		5.10.05	Kauven	check					C9792705-1	page 85
	revision	date	name	stand.		replaced:	replaced:	based:		sh.



ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram Subcooler L 22001, P&I 11	K.70101 = +C13
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 page 86 sh.
	revision	date	name	stand.		replaced:	replaced:	based:	



ELCAD (R)

c			date	21.07.2005	ASU Kosice
b			made	Meis	
a		5.10.05	check	Kauven	
	revision	date	stand.	name	replaced: / replaced: / based:

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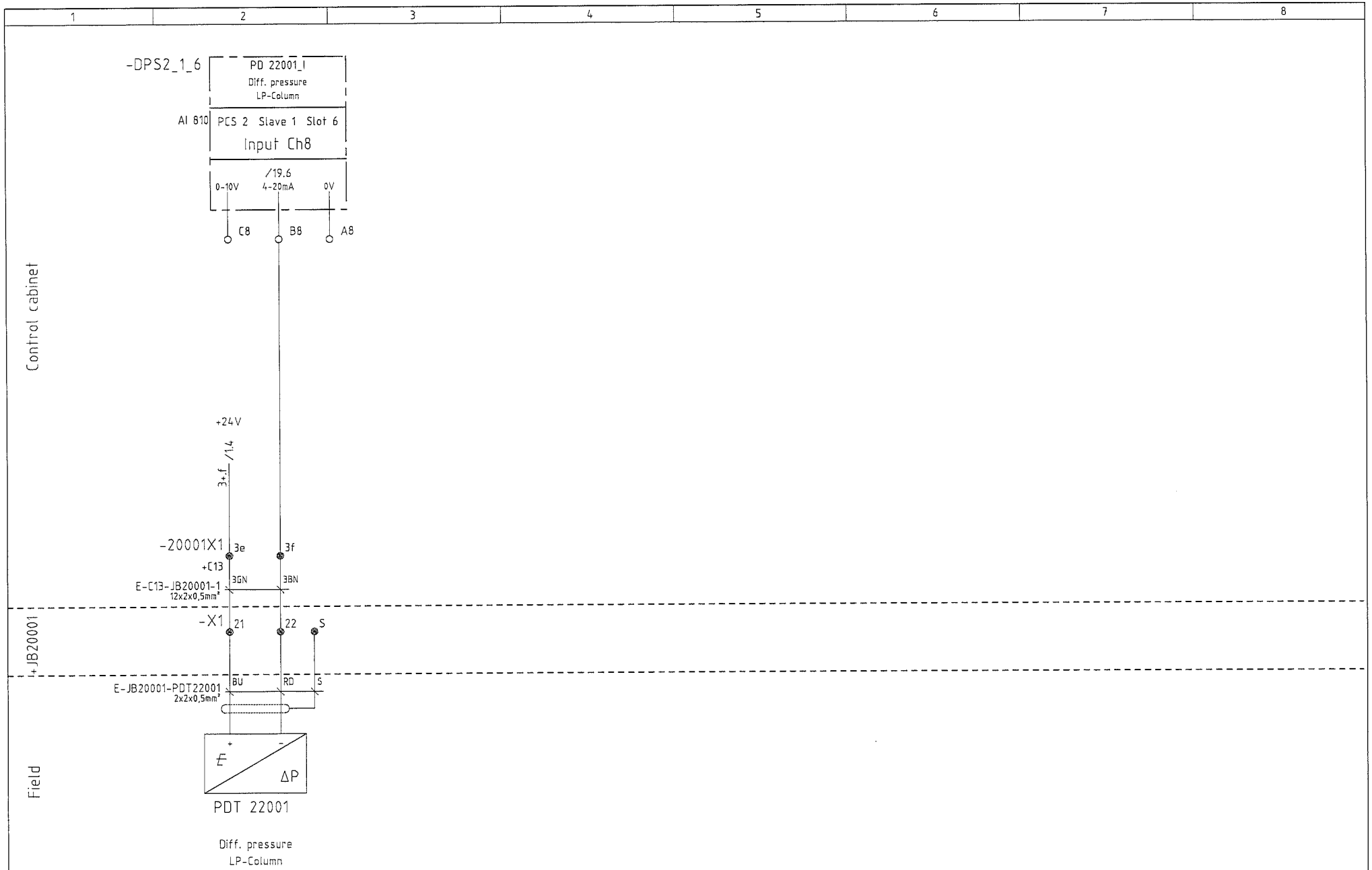
Circuit diagram
LP-Column
P 22001, P&I 13

K.70101

=
+C13

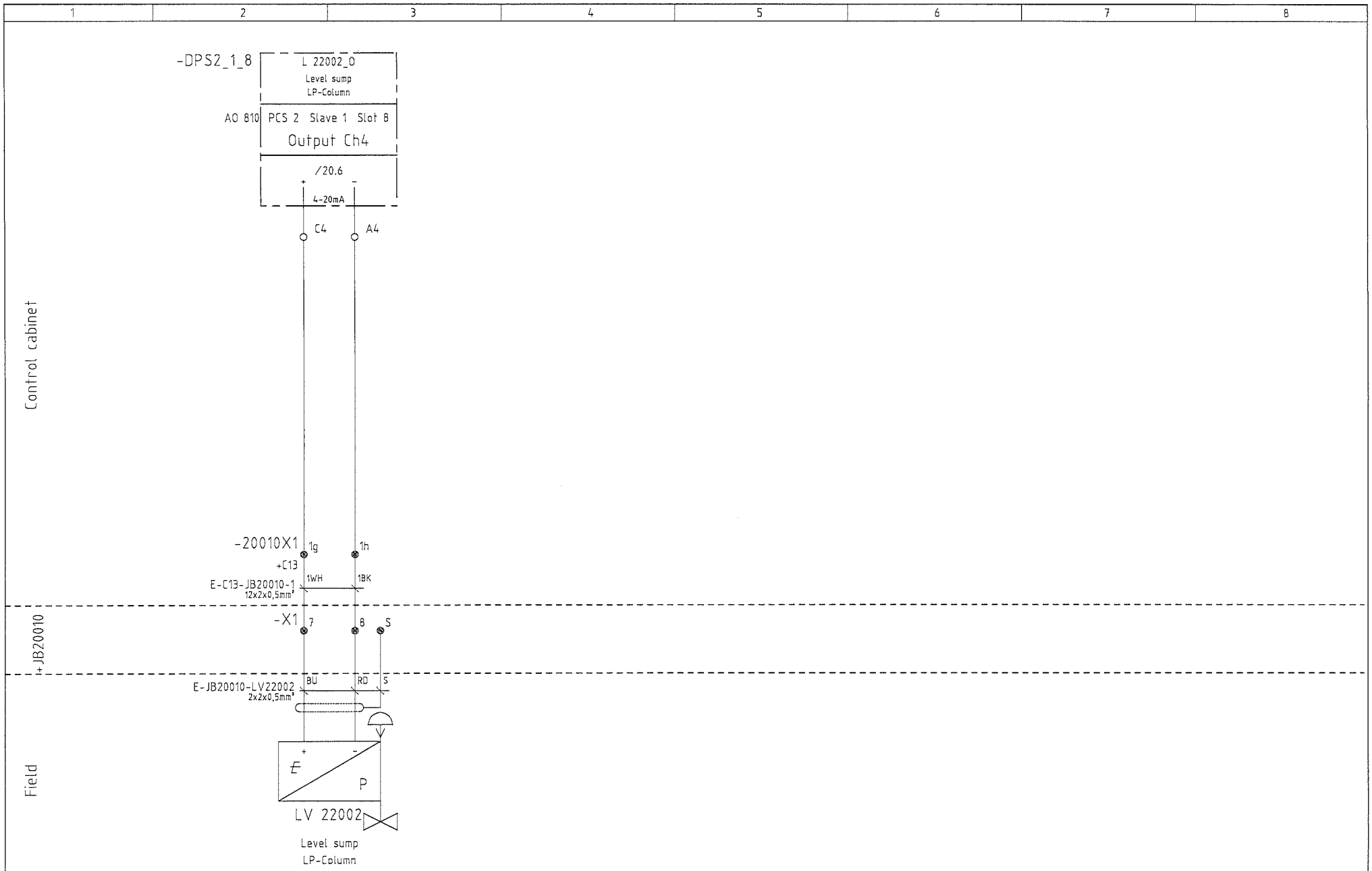
C9792705-1

page B7
sh.



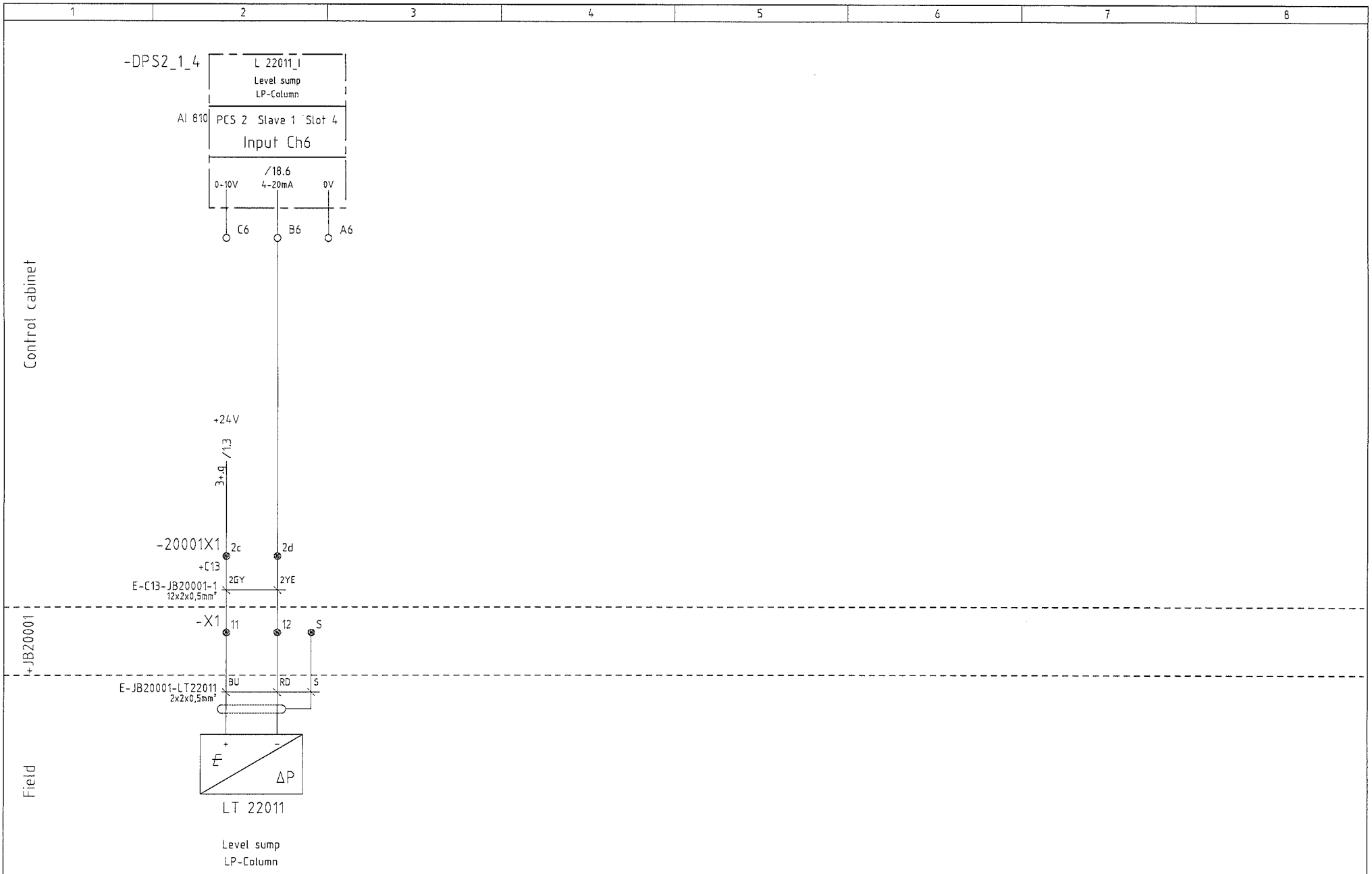
ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram LP-Column PD 22001, P&I 13	K.70101 = +C13
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 page 88 sh.
	revision	date	name	stand.		replaced:	replaced:	based:	



ELCAD (R)

c				date	21.07.2005	ASU Kosice	Circuit diagram HP-Column L 22002/30, P&I 14	K.70101 = +C13
b	As built	24.11.06	Kauven	made	Meis	AIR LIQUIDE Air Liquide AGS GmbH		
a		5.10.05	Kauven	check				C9792705-1 page 89
	revision	date	name	stand.		replaced: / replaced: / based:		sh.



ELCAD (R)

c				date	21.07.2005	ASU Kosice	AIR LIQUIDE Air Liquide AGS GmbH	Circuit diagram HP-Column L 22011, P&I 14	K.70101 = +C13
b				made	Meis				
a		5.10.05	Kauven	check					C9792705-1 page 90
	revision	date	name	stand.		replaced:	replaced:	based:	sh.