

Wiring Diagram (including Terminal Diagram) for
LCP Panel and Junction Box

Document No. 17735-05

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**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM Wiring Diagram (including Terminal Diagram) for
LCP Panel and Junction Box (K020)**

Sorry for inconvenience
There was a discrepancy between Nargan Elec. and CNI Dpt. understanding of control philosophy
Please implement our minor comment on page No. 8 & 10

Code 2
M.Dalakeh

07	08-05-2024	Issued for Approval	R.T.	S.K.	J.J.
06	02-05-2024	Issued for Approval	R.T.	S.K.	J.J.
05	20-03-2024	Issued for Approval	R.T.	S.K.	J.J.
04	14-02-2024	Issued for Approval	R.T.	S.K.	J.J.
03	21-12-2023	Issued for Approval	R.T.	S.K.	J.J.
02	07-12-2023	Issued for Approval	R.T.	S.K.	J.J.
01	03-11-2023	Issued for Approval	R.T.	S.K.	J.J.
REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED

Wiring Diagram (including Terminal Diagram) for
LCP Panel and Junction Box

Document No. 17735-05

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LIST OF REVISED PAGES

Rev. Page	01	02	03	04	05	06	07	08	09	10	Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05
1	X	X	X	X	X	X	X				51						76					
2	X	X	X	X	X	X	X				52						77					
3	X	X	X	X	X	X	X				53						78					
4	X	X	X	X	X	X	X				54						79					
5	X	X	X	X	X	X	X				55						80					
6	X	X	X	X	X	X	X				56						81					
7	X	X	X	X	X	X	X				57						82					
8	X	X	X	X	X	X	X				58						83					
9	X	X	X	X	X	X	X				59						84					
10	X	X	X	X	X	X	X				60						85					
11	X	X	X	X	X	X	X				61						86					
12	X	X	X	X	X	X	X				62						87					
13	X	X	X	X	X	X	X				63						88					
14	X	X	X	X	X	X	X				64						89					
15	X	X	X	X	X	X	X				65						90					
16	X	X	X	X	X	X	X				66						91					
17	X	X		X	X	X	X				67						92					
18	X	X		X	X	X	X				68							ATTACHMENT				
19	X	X		X	X	X	X				69						1					
20	X	X			X	X	X				70						2					
21		X			X	X	X				71						3					
22											72						4					
23											73						5					
24											74						6					
25											75						7					



Airpack B.V.

4301 RN Zierikzee
The Netherlands

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E-MAIL : AIRPACK@AIRPACK.NL

WEBPAGE : WWW.AIRPACK.NL

Client	:	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)		
Equipment location	:	IRAN, ONSHORE		
Client reference	:	INTEGRATED METHANOL AND AMMONIA PLANT		
Client dwg. no.	:	N-278-VD-6019-IN-DIA-0005		
Airpack reference	:	17735-05 Wiring Diagram		
Airpack dwg. no.	:	17735-05		
Generation date	:	2023-11-02		
E & I manager	:	RBE	Revision no.	: 07
Last modifications	:	2024-05-08		
Last modifications by	:	RTR		



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT	
Title page / cover sheet	
ADAPTED TO P&ID REVISION	08
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR	=
CHECKED BY	RBE	+
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	07	
TOTAL PAGE AMOUNT	1	

COMMENTS ON ELECTRICAL DRAWINGS

LPS AND JB MOUNTED ON SKID
 MATERIAL: SHEET STEEL
 INGRESS. PROTECTION: IP-65
 AREA CLASSIFICATION: SAFE

GLANDS: SS316 GLANDS WITH SHROUDS, IP-66
 CABLE TRAYS: HOT-DIP GALVANIZED

AMBIENT TEMPERATURE: 0 / 49 °C

ALL "IE" CONNECTIONS WILL BE CONNECTED ON A "IE"-BAR

REFERENCE DOCUMENTS:

- 17735-03 - N-278-VD-6019-PR-PID-0002 - P&ID
- 17735-06 - N-278-VD-6019-IN-LIS-0006 - I/O List
- 17735-07 - N-278-VD-6019-IN-DWG-0007 - Outline Dimensional Drawings for LCP Panel and Junction Box
- 17735-21 - N-278-VD-6019-GN-PRO-0022 - Control Philosophy

SIGNAL PAIRS

CURRENT LOOPS	POSITIVE: BLACK NEGATIVE: WHITE
VOLT [FREE] CONTACTS	POSITIVE: BLACK NEGATIVE: BLACK




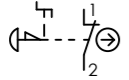


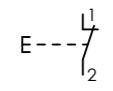
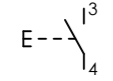


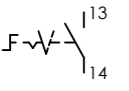
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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT Project description	
ADAPTED TO P&ID REVISION	08
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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TOTAL PAGE AMOUNT	2	

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SYMBOL LEGEND


SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CABLE SHIELD		
	EMERGENCY STOP		
	INDICATION LAMP		
	INSTRUMENT EARTH CONNECTION POINT		
	N/C PUSHBUTTON		
	N/O PUSHBUTTON		
	TERMINAL CONNECTION POINT		
	TRANSMITTER CONNECTION POINT		
	TWO-POSITION SELECTOR SWITCH		

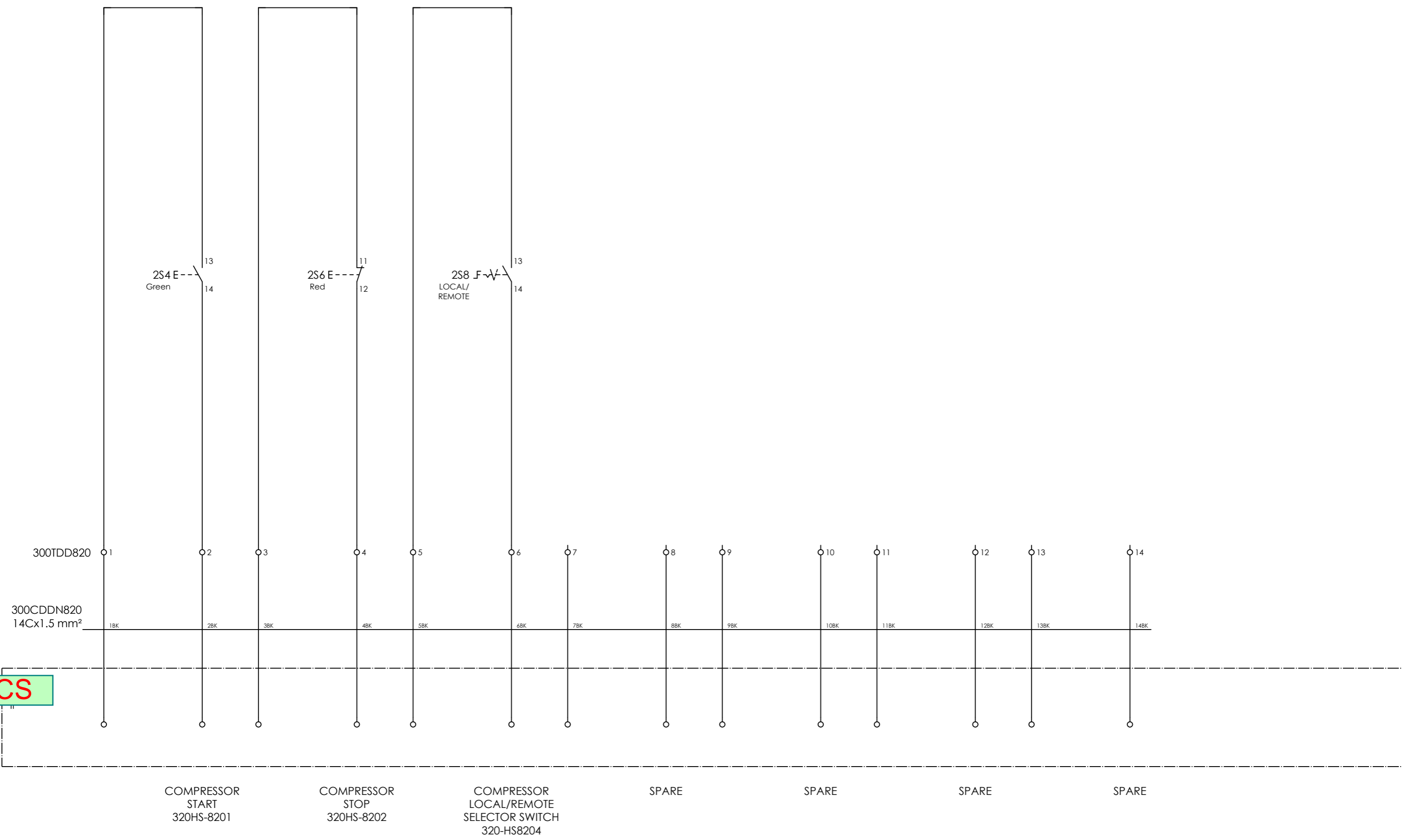
300LP-820 LOCAL PUSHBUTTON STATION

TERMINAL STRIP DEFINITION

300TDD820 = CONNECTION PUSHBUTTONS AND LAMPS

300TED820 = CONNECTION ESD PUSHBUTTON

	CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005	SUBJECT		DRAWN BY	RTR	= 320-K-020
	EQUIPMENT NO.	320-K-020	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ 300LP-820
	EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	08	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
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			CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	07	
AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	5				



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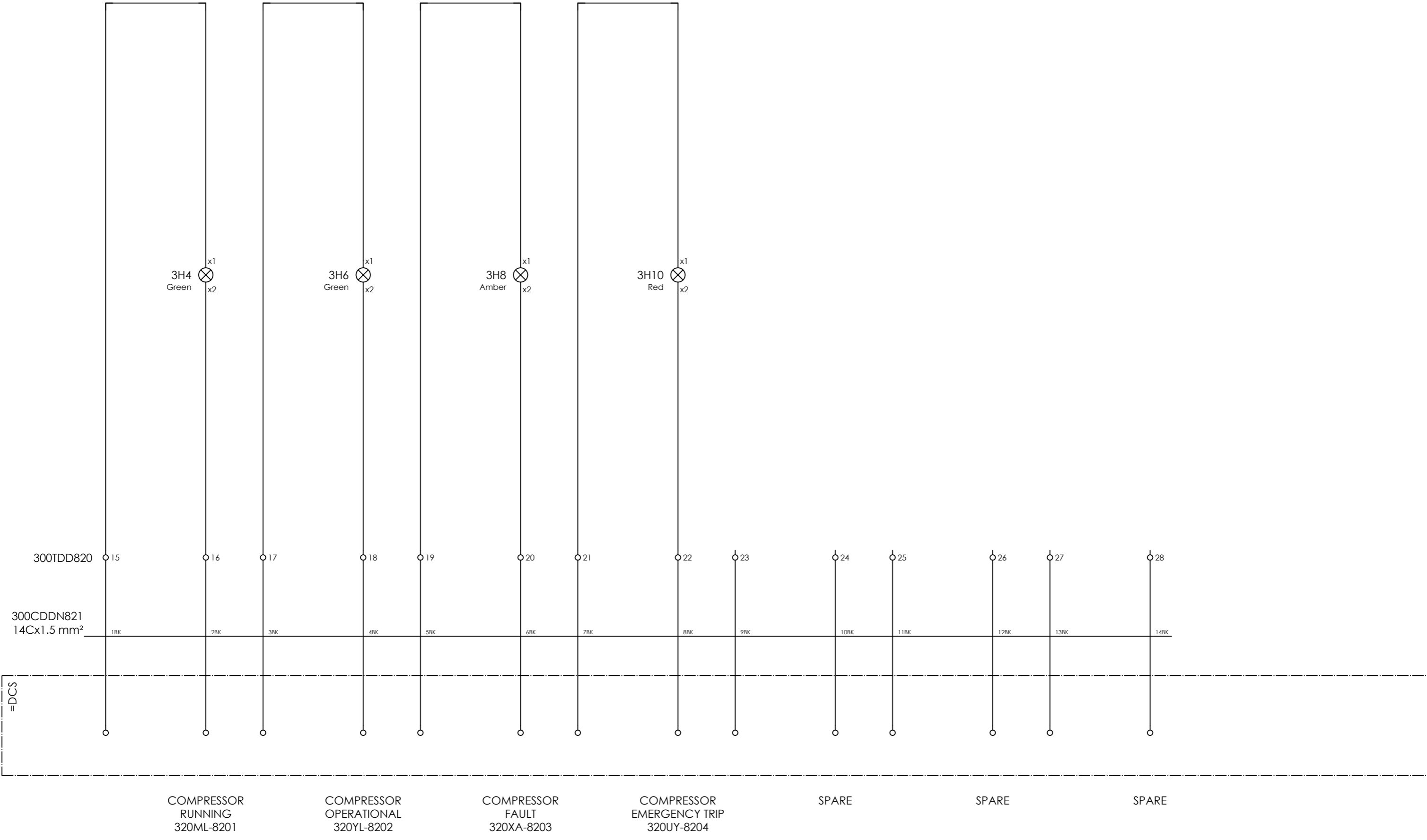


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SUBJECT PUSHBUTTONS	
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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AIRPACK DWG NO.	17735-05
REVISION	07
TOTAL PAGE AMOUNT	6

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+ 300LP-820
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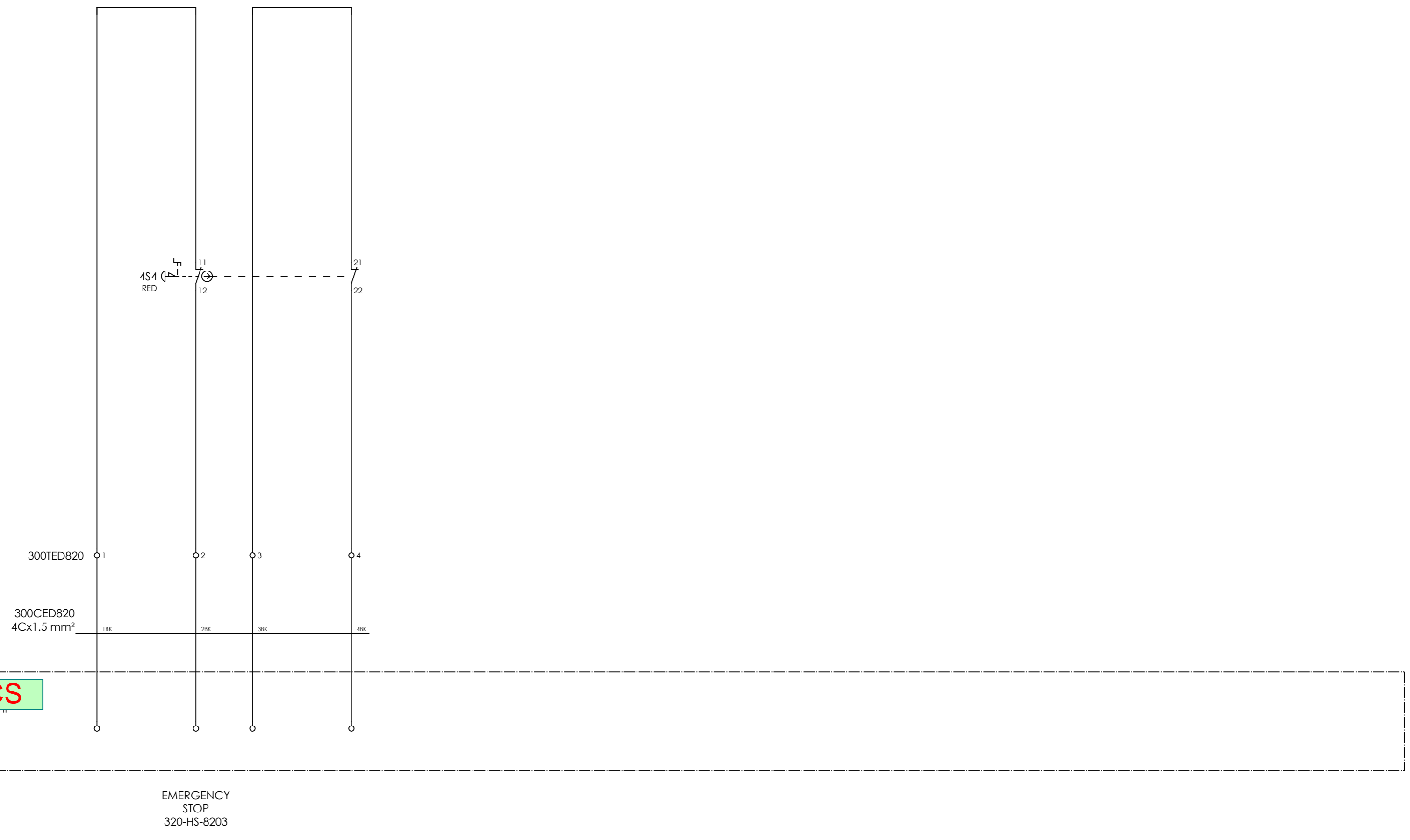


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SUBJECT ESD PUSHBUTTON	
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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TOTAL PAGE AMOUNT	8	

Terminal diagram

Cable name		Strip =320-K-020+300LP-820-300TDD820 CONNECTION PUSHBUTTONS AND LAMPS										Cable name			
Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point
1	.	-2S4	13	1	.	-2S4	13	1BK							
2	.	-2S4	14	2	.	-2S4	14	2BK							
3	.	-2S6	11	3	.	-2S6	11	3BK							
4	.	-2S6	12	4	.	-2S6	12	4BK							
5	.	-2S8	13	5	.	-2S8	13	5BK							
6	.	-2S8	14	6	.	-2S8	14	6BK							
7	.			7	.			7BK							
8	.			8	.			8BK							
9	.			9	.			9BK							
10	.			10	.			10BK							
11	.			11	.			11BK							
12	.			12	.			12BK							
13	.			13	.			13BK							
14	.			14	.			14BK							
15	.	-3H4	x1	15	.	-3H4	x1	1BK							
16	.	-3H4	x2	16	.	-3H4	x2	2BK							
17	.	-3H6	x1	17	.	-3H6	x1	3BK							
18	.	-3H6	x2	18	.	-3H6	x2	4BK							
19	.	-3H8	x1	19	.	-3H8	x1	5BK							
20	.	-3H8	x2	20	.	-3H8	x2	6BK							
21	.	-3H10	x1	21	.	-3H10	x1	7BK							
22	.	-3H10	x2	22	.	-3H10	x2	8BK							
23	.			23	.			9BK							
24	.			24	.			10BK							
25	.			25	.			11BK							
26	.			26	.			12BK							
27	.			27	.			13BK							
28	.			28	.			14BK							



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SUBJECT Terminal diagram =320-K-020+300LP-820-300TDD820
 ADAPTED TO P&ID REVISION 08
 CLIENT LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
 CLIENT REF. INTEGRATED METHANOL AND AMMONIA PLANT
 AIRPACK REF. 17735-05 Wiring Diagram


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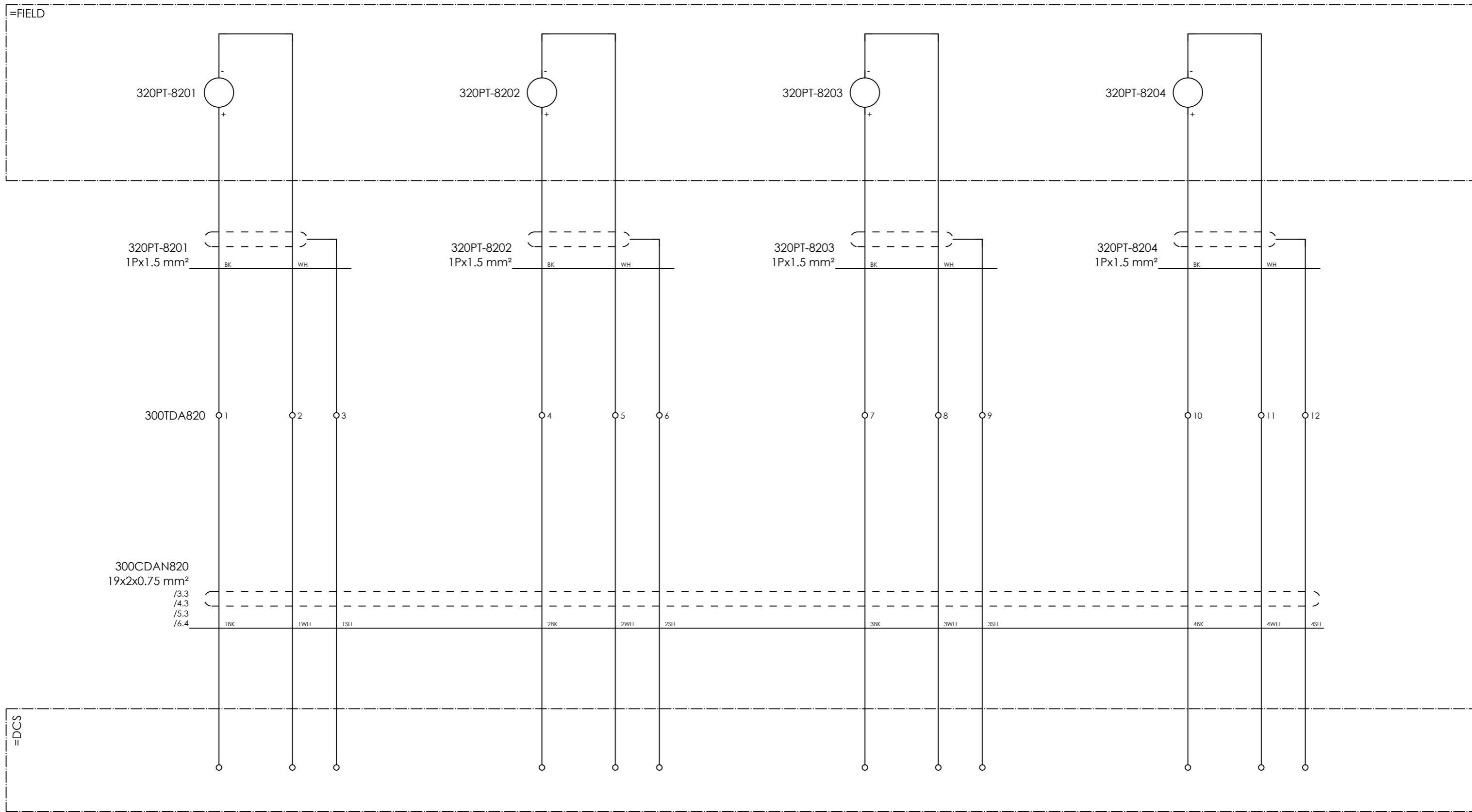
= 320-K-020
 + 300LP-820
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300JDAN-820 ANALOG JUNCTION BOX

TERMINAL STRIP DEFINITION

300TDA820 = CONNECTION ANALOG TRANSMITTERS TO CLIENT
 300TDA821 = CONNECTION PRESSURE CONTROL VALVE TO CLIENT

	CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005	SUBJECT		DRAWN BY	RTR	= 320-K-020
	EQUIPMENT NO.	320-K-020	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ 300JDAN-820
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	CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	AIRPACK REF.	17735-05 Wiring Diagram	REVISION	07	
				TOTAL PAGE AMOUNT	11		



PRESSURE TRANSMITTER
320PT-8201

PRESSURE TRANSMITTER
320PT-8202

PRESSURE TRANSMITTER
320PT-8203

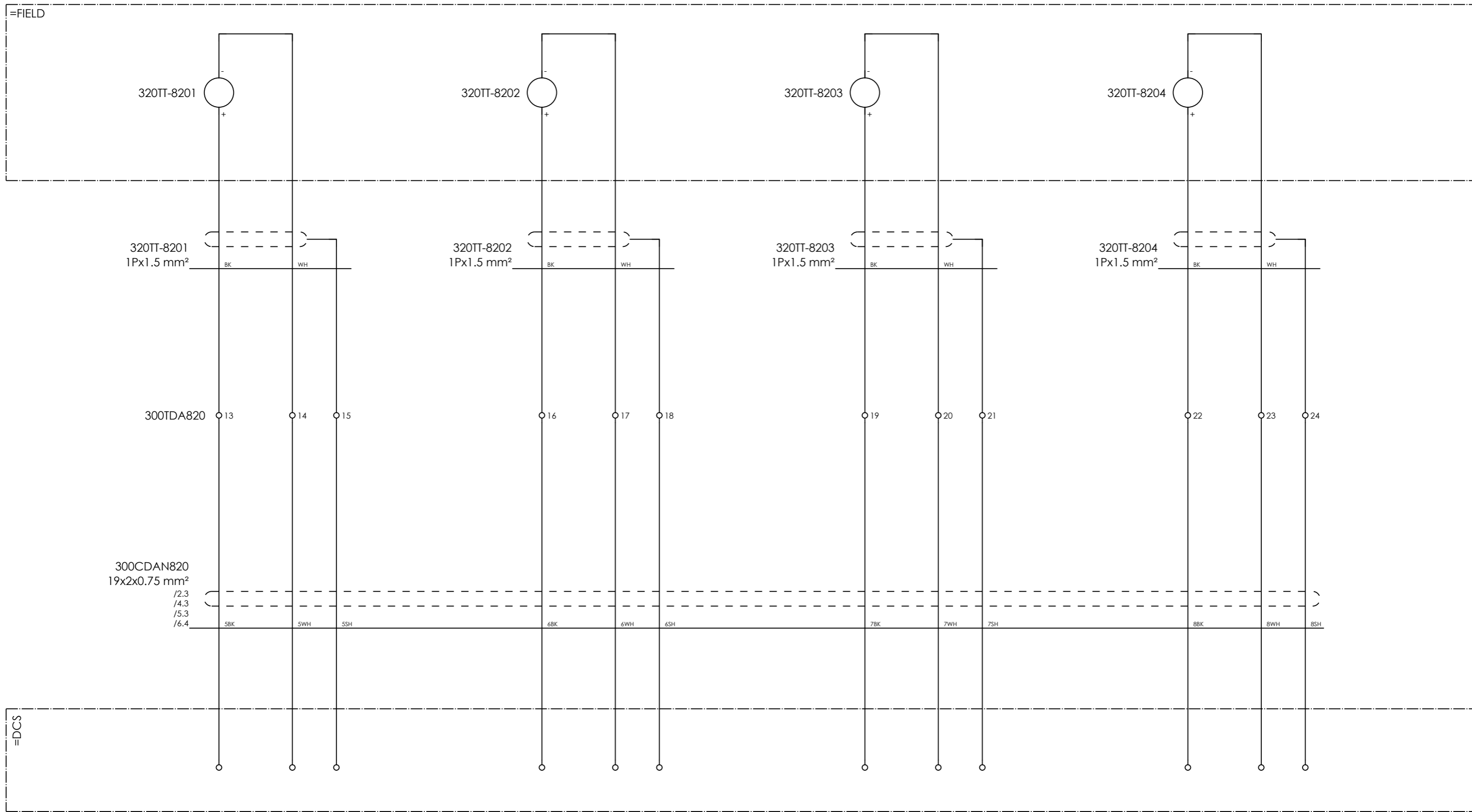
PRESSURE TRANSMITTER
320PT-8204



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005
EQUIPMENT NO.	320-K-020
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SUBJECT ANALOG TRANSMITTERS	
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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TOTAL PAGE AMOUNT	12	



TEMPERATURE TRANSMITTER 320TT-8201

TEMPERATURE TRANSMITTER 320TT-8202

TEMPERATURE TRANSMITTER 320TT-8203

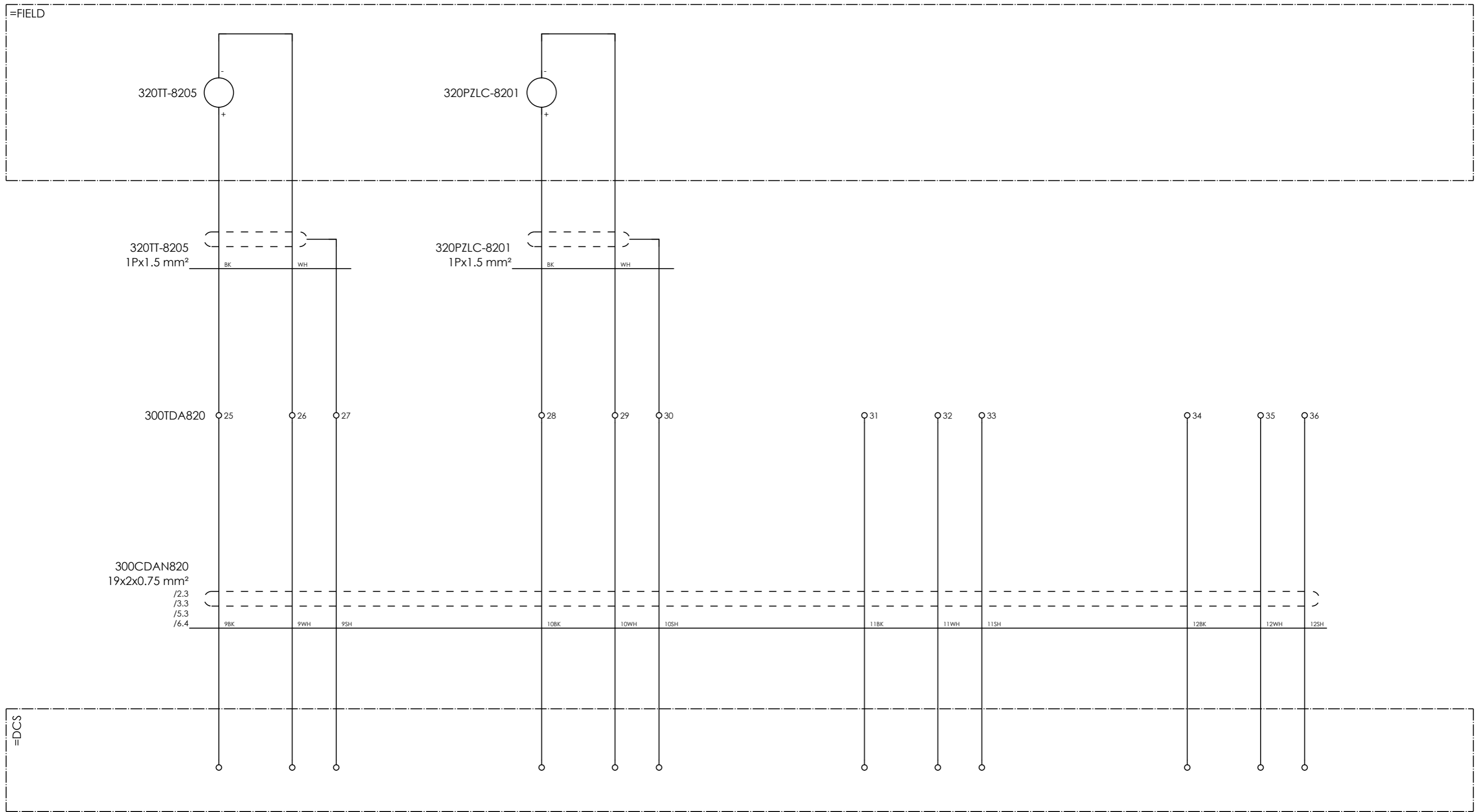
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TEMPERATURE
TRANSMITTER
320TT-8205

PRESSURE
CONTROL VALVE
320PCV-8201
POSITION FEEDBACK

SPARE

SPARE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005
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=FIELD

300TDA820

○ 37

○ 38

○ 39

○ 40

○ 41

○ 42

○ 43

○ 44

○ 45

○ 46

○ 47

○ 48

300CDAN820
19x2x0.75 mm²

/2.3
/3.3
/4.3
/6.4

13BK

13WH

13SH

14BK

14WH

14SH

15BK

15WH

15SH

16BK

16WH

16SH

=DCS

SPARE

SPARE

SPARE

SPARE



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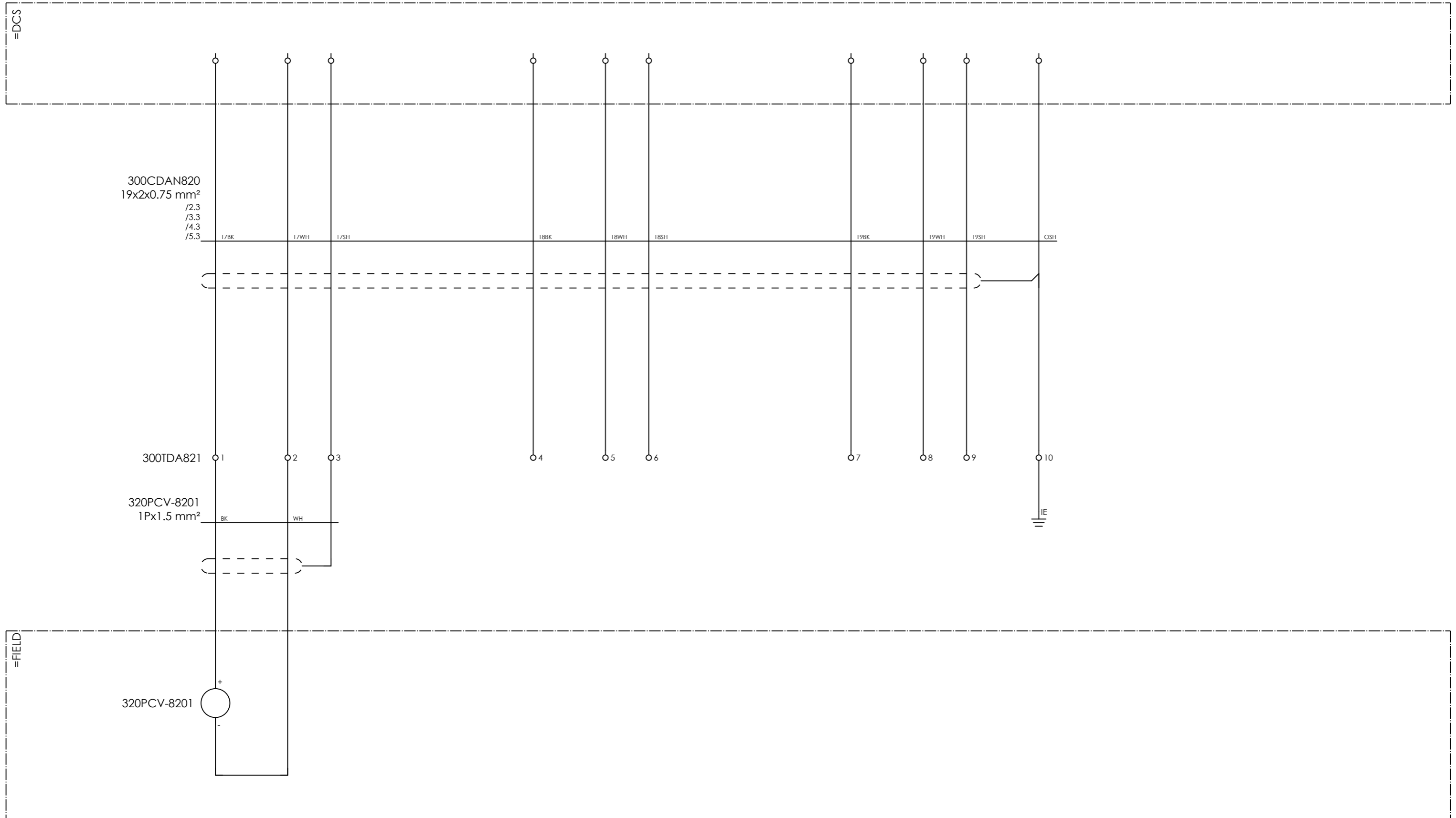
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PRESSURE CONTROL VALVE
320PCV-8201

SPARE

SPARE



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