



LIDCO, Pars SEE Zone, Assaluyeh,
Integrated Methanol and Ammonia
Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT



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

Document No. 17735-05

Page

Project No.	Vendor Doc.	P.O. No.	Department	Document Type	Serial No	Revision
N278	VD	6019	IN	DIA	0005	06

Page 1 of 21

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

Code 2
M.Dalakeh

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

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

Document No. 17735-05

Project No.	Vendor Doc.	P.O. No.	Department	Document Type	Serial No	Revision	Page
N278	VD	6019	IN	DIA	0005	06	Page 2 of 21

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



Airpack B.V.

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The Netherlands

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FAX: (31) (0) 111 - 413338

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.	: 06
Last modifications	:	2024-05-02		
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
AIRPACK DWG NO.	17735-05
REVISION	06
TOTAL PAGE AMOUNT	1

=
+
CURRENT PAGE

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


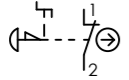


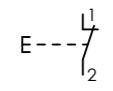
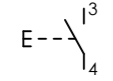


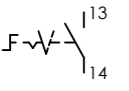
SIGNAL PAIRS

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



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005	SUBJECT		DRAWN BY	RTR	=
EQUIPMENT NO.	320-K-020	Project description		CHECKED BY	RBE	+
EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	08	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.	17735-05	2
		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	06	
		AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	2	

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		

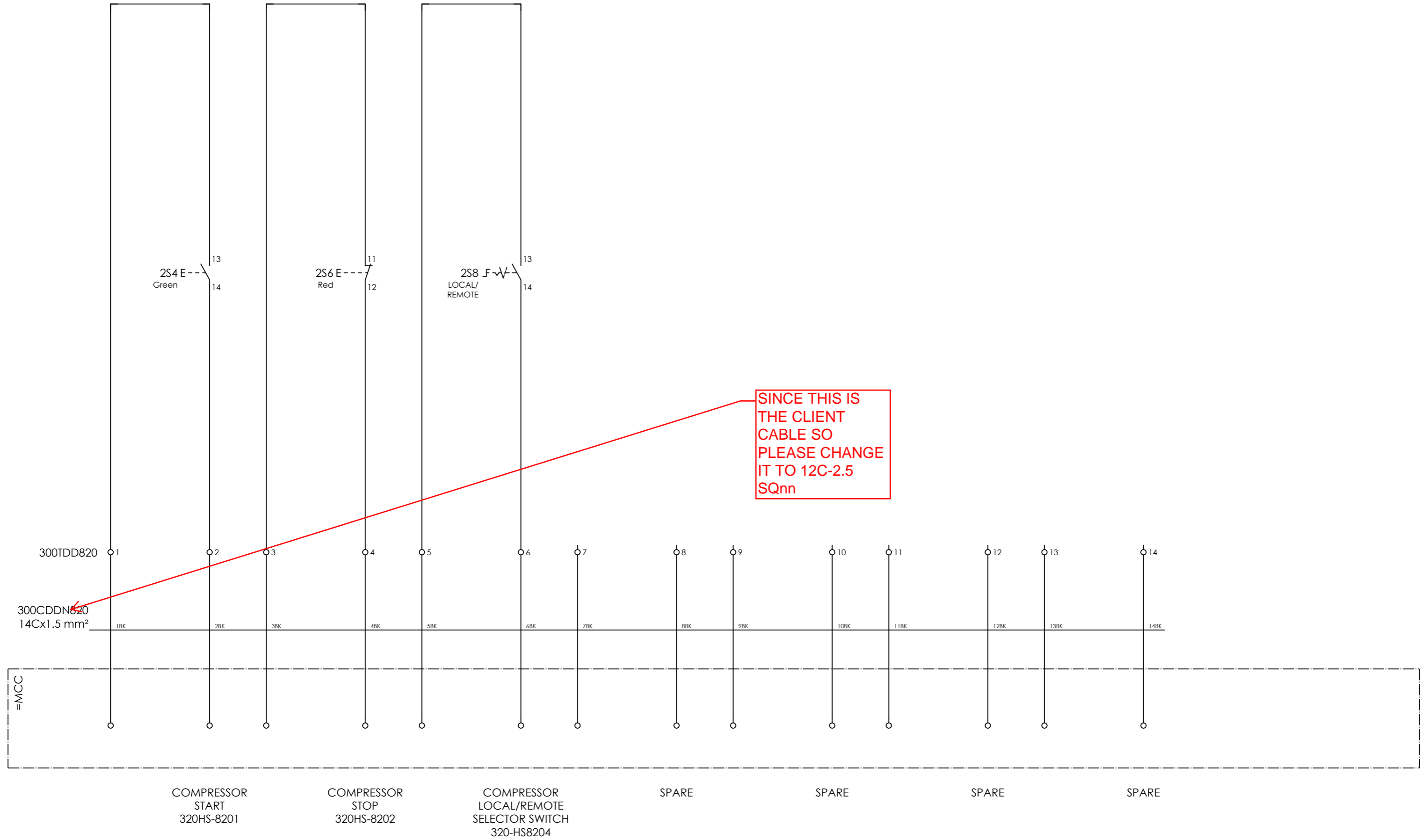
300LP-820 LOCAL PUSHBUTTON STATION

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	06	
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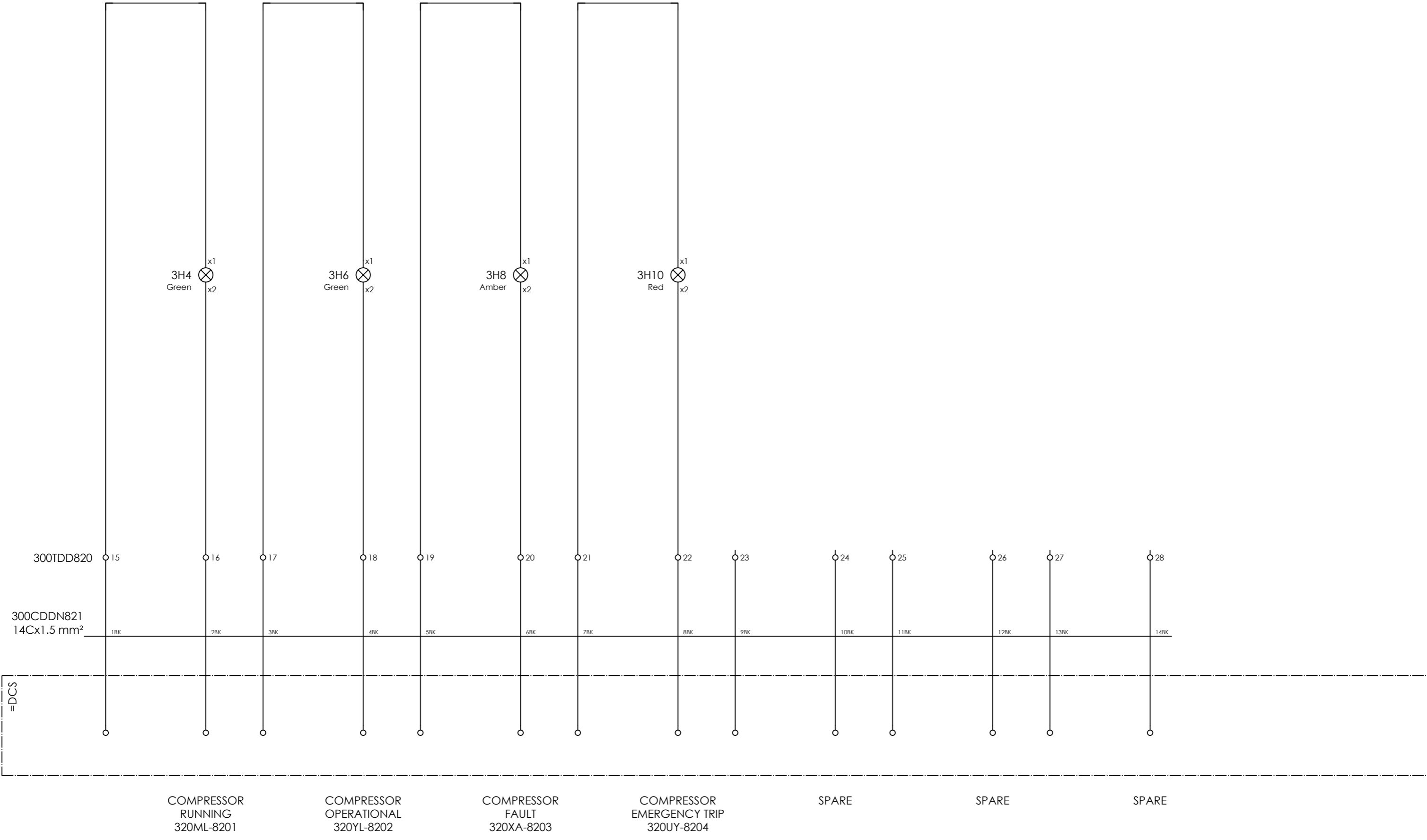


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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT PUSHBUTTONS	
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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LAST MODIFICATION DATE	2023-12-18
AIRPACK DWG NO.	17735-05
REVISION	06
TOTAL PAGE AMOUNT	6

= 320-K-020
+ 300LP-820
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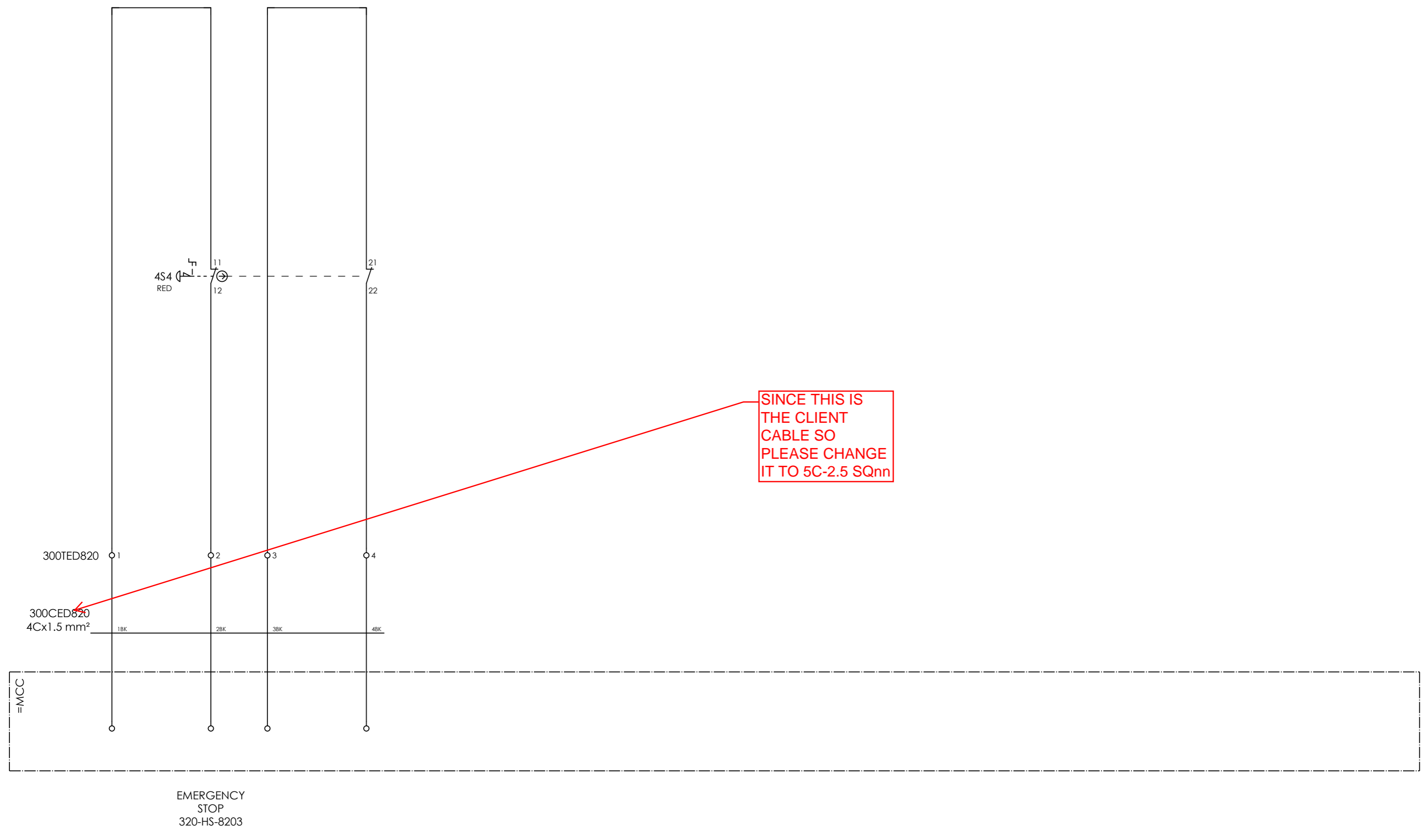


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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT LAMPS	
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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LAST MODIFICATION DATE	2023-12-18
AIRPACK DWG NO.	17735-05
REVISION	06
TOTAL PAGE AMOUNT	7

= 320-K-020
+ 300LP-820
CURRENT PAGE



SINCE THIS IS THE CLIENT CABLE SO PLEASE CHANGE IT TO 5C-2.5 SQmm



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT ESD PUSHBUTTON	
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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CHECKED BY	RBE	+ 300LP-820
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	06	
TOTAL PAGE AMOUNT	8	

Terminal diagram

Cable name		Strip =320-K-020+300LP-820-300TDD820 CONNECTION PUSHBUTTONS AND LAMPS										Cable name	
Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point
-300CDDN821	14Cx1.5 mm ²	1BK				1	.	-2S4	13				
-300CDDN820	14Cx1.5 mm ²	2BK				2	.	-2S4	14				
		3BK				3	.	-2S6	11				
		4BK				4	.	-2S6	12				
		5BK				5	.	-2S8	13				
		6BK				6	.	-2S8	14				
		7BK				7	.						
		8BK				8	.						
		9BK				9	.						
		10BK				10	.						
		11BK				11	.						
		12BK				12	.						
		13BK				13	.						
		14BK				14	.						
						15	.	-3H4	x1				
						16	.	-3H4	x2				
						17	.	-3H6	x1				
						18	.	-3H6	x2				
						19	.	-3H8	x1				
						20	.	-3H8	x2				
						21	.	-3H10	x1				
						22	.	-3H10	x2				
						23	.						
						24	.						
						25	.						
						26	.						
						27	.						
						28	.						



CLIENT DWG NO. N-278-VD-6019-IN-DIA-0005
 EQUIPMENT NO. 320-K-020
 EQUIPMENT LOCATION IRAN, ONSHORE
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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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 AIRPACK DWG NO. 17735-05
 REVISION 06
 TOTAL PAGE AMOUNT 9

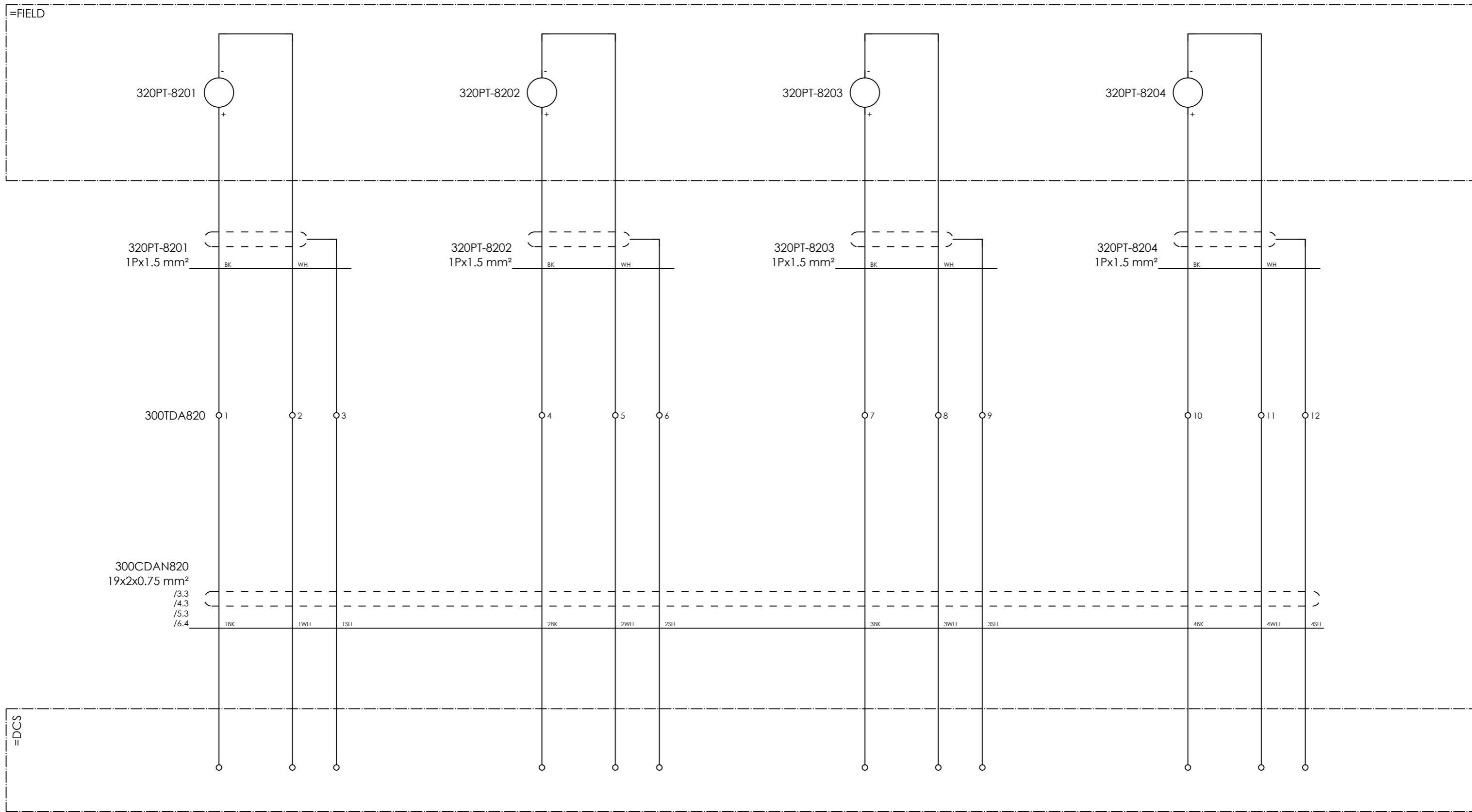
= 320-K-020
 + 300LP-820
 CURRENT PAGE

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	
	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	06			
AIRPACK REF.	17735-05 Wiring Diagram		TOTAL PAGE AMOUNT	11				



PRESSURE TRANSMITTER
320PT-8201

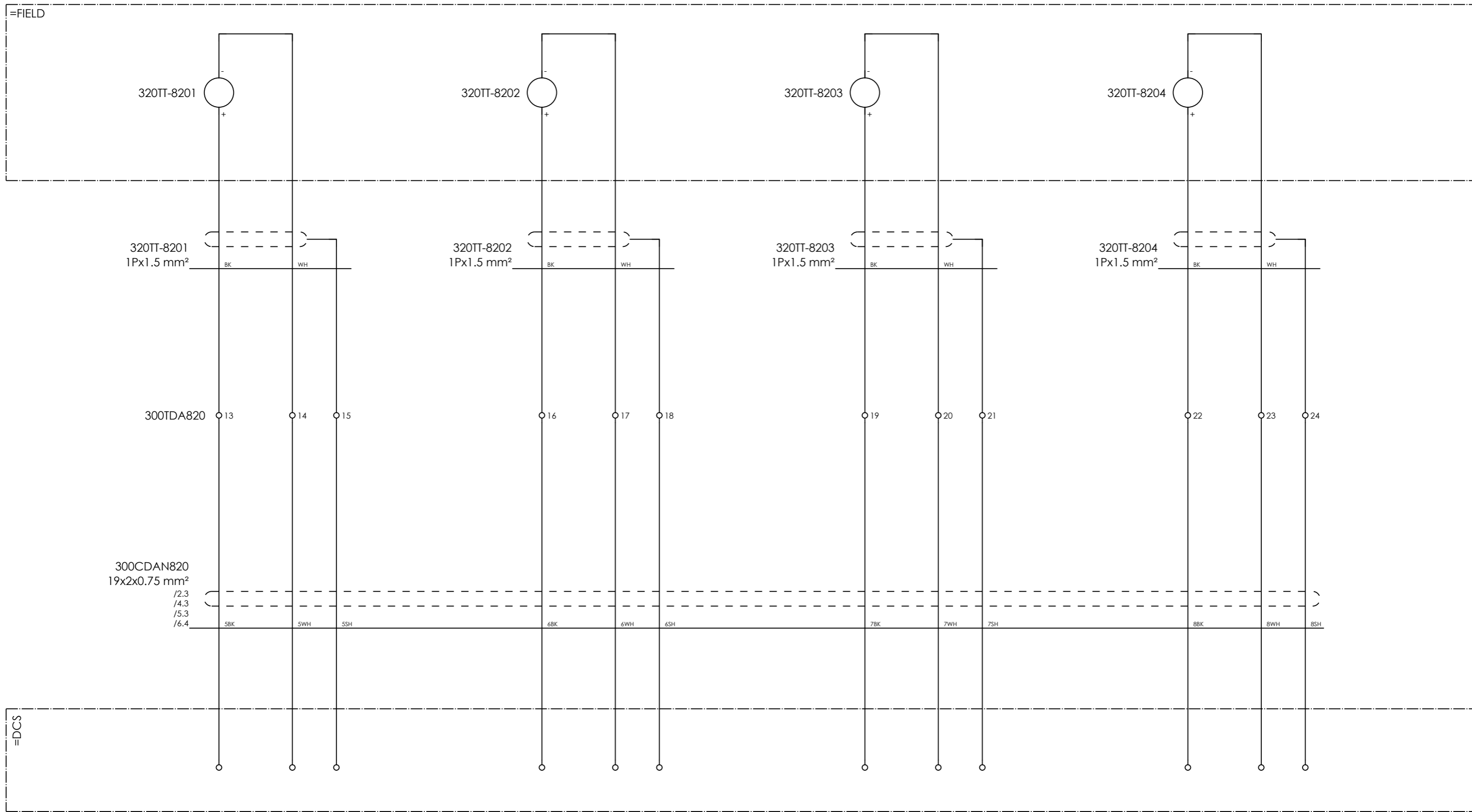
PRESSURE TRANSMITTER
320PT-8202

PRESSURE TRANSMITTER
320PT-8203

PRESSURE TRANSMITTER
320PT-8204



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005	SUBJECT		DRAWN BY	RTR	= 320-K-020
EQUIPMENT NO.	320-K-020	ANALOG TRANSMITTERS		CHECKED BY	RBE	+ 300JDAN-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	06	
		AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	12	



TEMPERATURE TRANSMITTER 320TT-8201

TEMPERATURE TRANSMITTER 320TT-8202

TEMPERATURE TRANSMITTER 320TT-8203

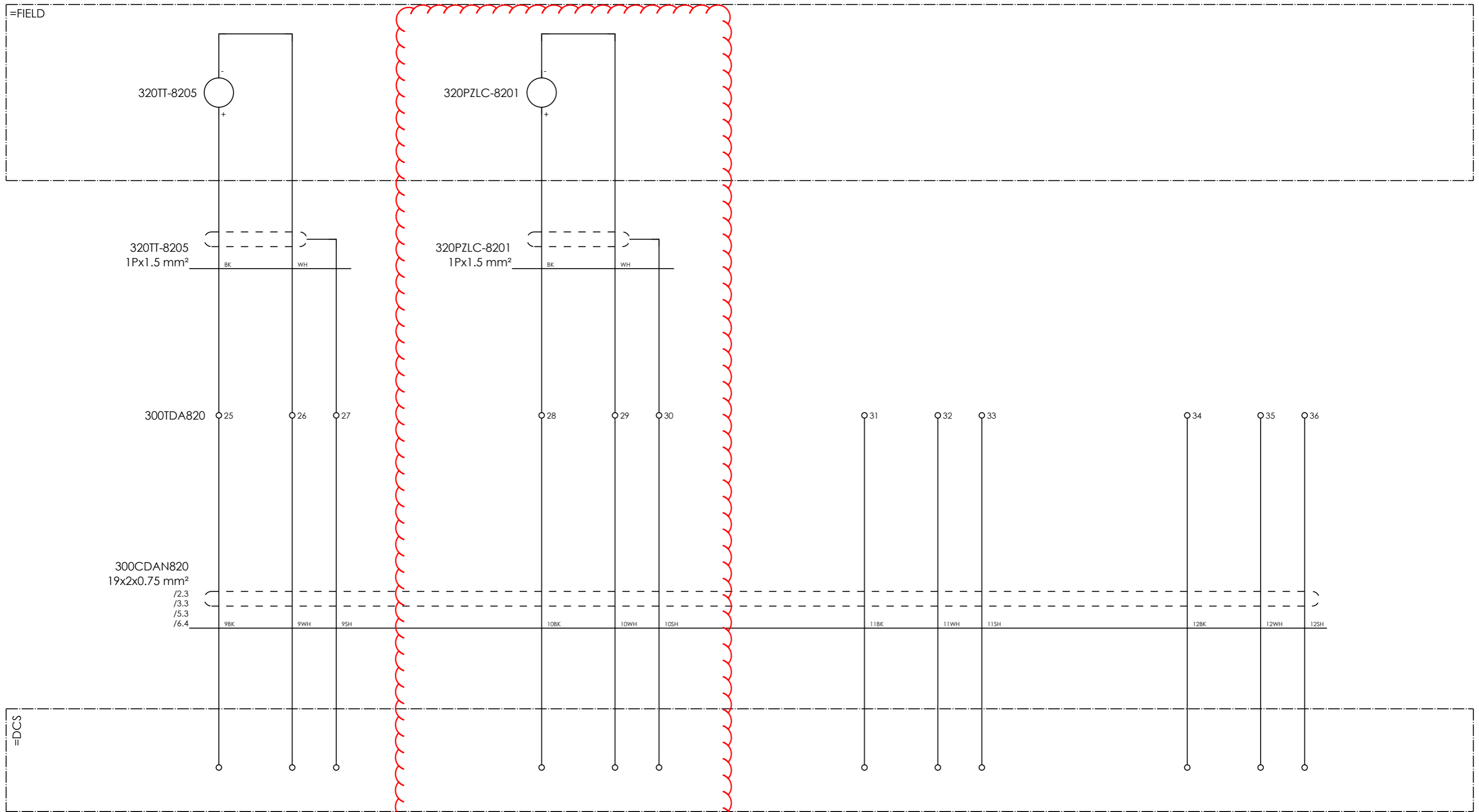
TEMPERATURE TRANSMITTER 320TT-8204



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

DRAWN BY	RTR	= 320-K-020
CHECKED BY	RBE	+ 300JDAN-820
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	06	
TOTAL PAGE AMOUNT	13	



TEMPERATURE
TRANSMITTER
320TT-8205

PRESSURE
CONTROL VALVE
320PCV-8201
POSITION FEEDBACK

SPARE

SPARE

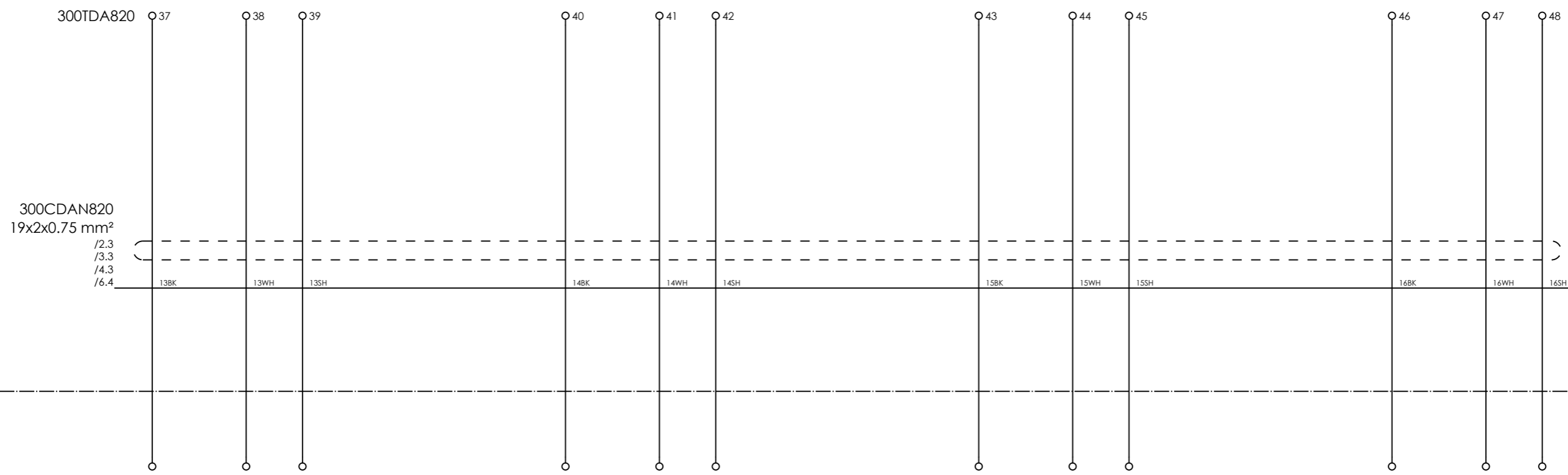


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SUBJECT ANALOG TRANSMITTERS	
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
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CHECKED BY	RBE	+ 300JDAN-820
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	06	
TOTAL PAGE AMOUNT	14	

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CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005
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SUBJECT ANALOG TRANSMITTERS	
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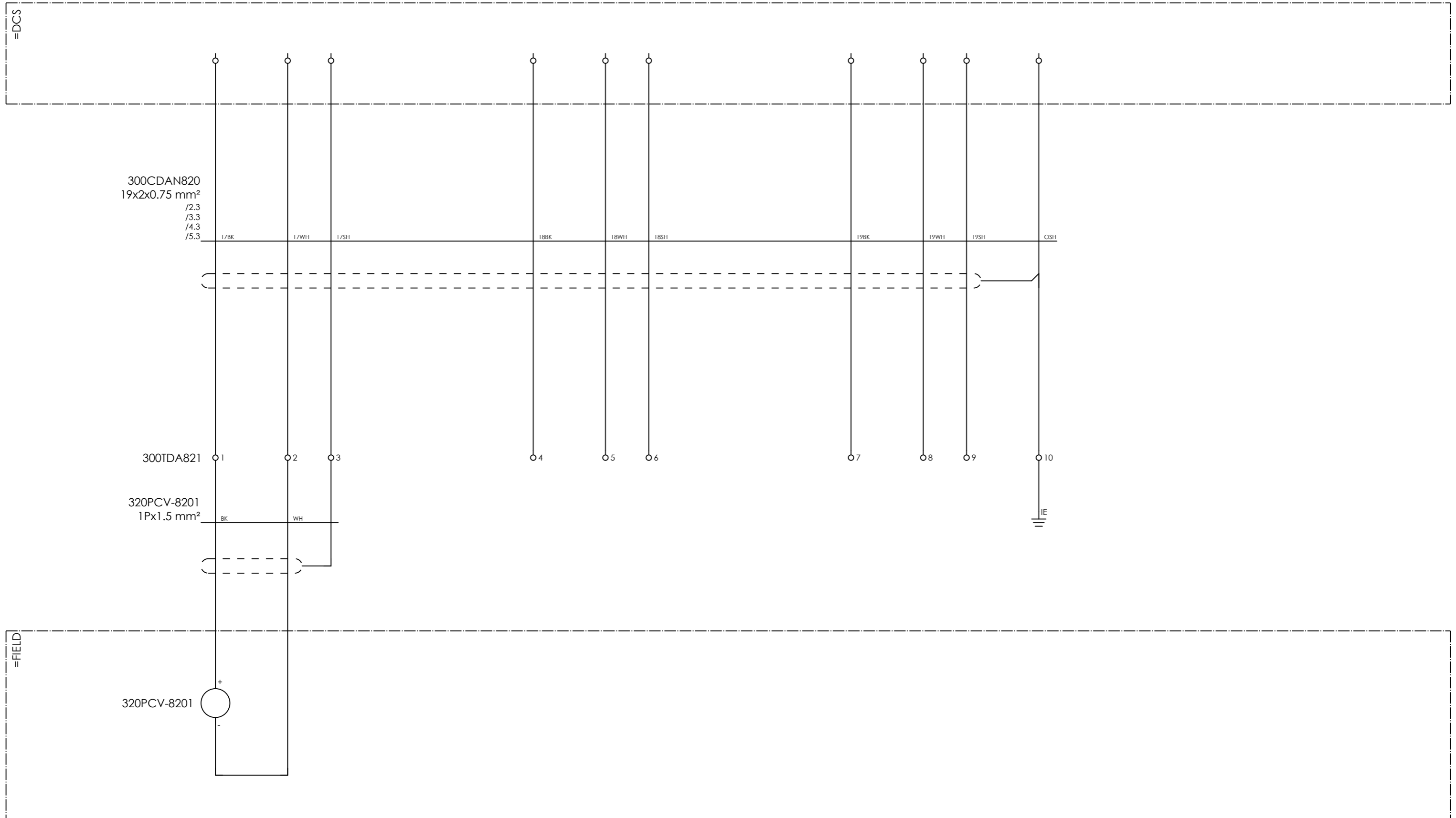
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LAST MODIFICATION DATE	2023-12-18
AIRPACK DWG NO.	17735-05
REVISION	06
TOTAL PAGE AMOUNT	15

= 320-K-020
+ 300JDAN-820
CURRENT PAGE

PRESSURE CONTROL VALVE
320PCV-8201

SPARE

SPARE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT PRESSURE CONTROL VALVE	
ADAPTED TO P&ID REVISION	08
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
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LAST MODIFICATION DATE	2023-12-18
AIRPACK DWG NO.	17735-05
REVISION	06
TOTAL PAGE AMOUNT	16

= 320-K-020
+ 300JDAN-820
CURRENT PAGE

