



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	02

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. Vakili

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
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.

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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	02	Page 2 of 21

LIST OF REVISED PAGES

Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05
1	X	X				26						51						76					
2	X	X				27						52						77					
3	X	X				28						53						78					
4	X	X				29						54						79					
5	X	X				30						55						80					
6	X	X				31						56						81					
7	X	X				32						57						82					
8	X	X				33						58						83					
9	X	X				34						59						84					
10	X	X				35						60						85					
11	X	X				36						61						86					
12	X	X				37						62						87					
13	X	X				38						63						88					
14	X	X				39						64						89					
15	X	X				40						65						90					
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17	X	X				42						67						92					
18	X	X				43						68						ATTACHMENT					
19	X	X				44						69						1					
20	X	X				45						70						2					
21		X				46						71						3					
22						47						72						4					
23						48						73						5					
24						49						74						6					
25						50						75						7					



Airpack B.V.

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The Netherlands

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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-0005-01		
Airpack reference	:	17735-05 Wiring Diagram		
Airpack dwg. no.	:	17735-05		
Generation date	:	2023-11-02		
E & I manager	:	RBE	Revision no.	: 02
Last modifications	:	2023-12-07		
Last modifications by	:	RTR		



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT	DRAWN BY	RTR	=
EQUIPMENT NO.	320-K-020	Title page / cover sheet	CHECKED BY	RBE	+
EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	LAST MODIFICATION DATE	2023-12-07	CURRENT PAGE
		02	AIRPACK DWG NO.	17735-05	
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	REVISION	02	
		LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	TOTAL PAGE AMOUNT	1	
		CLIENT REF.			
		INTEGRATED METHANOL AND AMMONIA PLANT			
		AIRPACK REF.			
		17735-05 Wiring Diagram			

COMMENTS ON ELECTRICAL DRAWINGS

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

with

GLANDS: SS316 GLANDS WITHOUT SHROUDS, IP-66
 CABLE TRAYS: GALVANIZED

hot dipp 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-0002-01 - P&ID
- 17735-06 - N-278-VD-6019-IN-LIS-0006-01 - I/O List
- 17735-07 - N-278-VD-6019-IN-DWG-0007-01 - Outline Dimensional Drawings for LCP Panel and Junction Box
- 17735-21 - N-278-VD-6019-GN-PRO-0022-01 - Control Philosophy

SIGNAL PAIRS

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


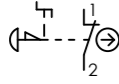






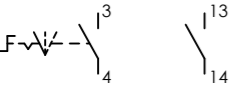


CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT Project description	
ADAPTED TO P&ID REVISION	02
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	+
LAST MODIFICATION DATE	2023-12-07	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	02	
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		



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SUBJECT
Symbol Legend
 ADAPTED TO P&ID REVISION 02
 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
 LAST MODIFICATION DATE 2023-12-07
 AIRPACK DWG NO. 17735-05
 REVISION 02
 TOTAL PAGE AMOUNT 3

=
 +
 CURRENT PAGE
 3

~~320-LPS-8201~~
LOCAL PUSHBUTTON STATION

RE-comment: As per project specification, Tag LCP should be modified to "300LP-820"

TERMINAL STRIP DEFINITION

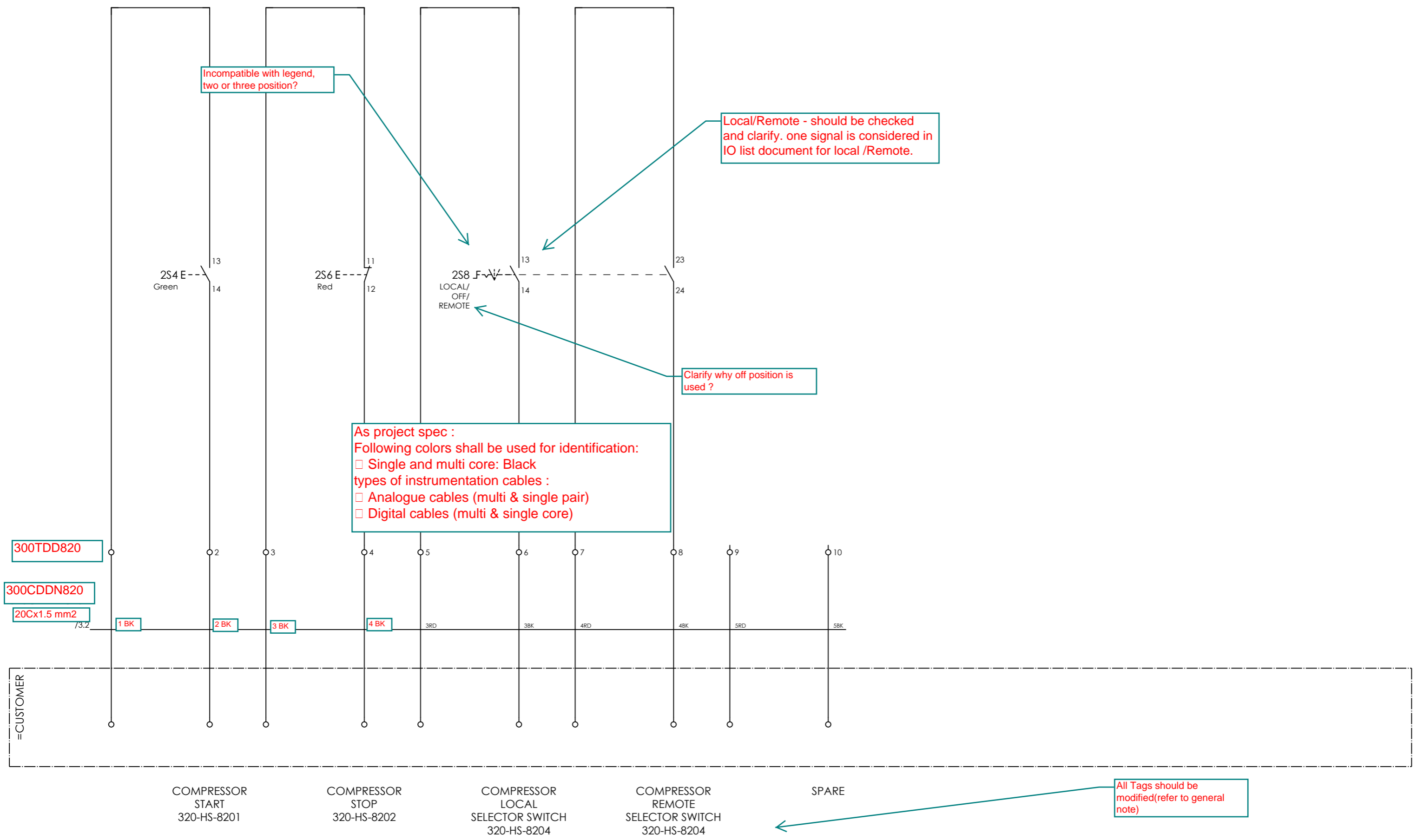
300TDD820 = CONNECTION PUSHBUTTONS AND LAMPS

300TED820 = CONNECTION ESD PUSHBUTTON

General Note:
General Comment:
 1- Any changes in next revision to be marked with revision mark.
 2- If any comments is not applicable please send reply sheet.
 3- Compatibility with project requirement is vendor responsibility and scope, and next comments are just for hint.
 4- Compatibility with other vendor documents including PID, IO List, Outline Dimensional Drawings, ...is vendor responsibility and scope.
 5- This document will be checked again after finalizing PID document.
 6- all Tag name in **all documents** should be same format. no needs "-" after prefix 320. example correct format is 320TT-8201,



<small>CLIENT DWG NO.</small>	<small>N-278-VD-6019-IN-DIA-0005-01</small>	<small>SUBJECT</small>	<small>DRAWN BY</small>	<small>RTR</small>	= 320-K-020
<small>EQUIPMENT NO.</small>	<small>320-K-020</small>	<small>TERMINAL STRIP DEFINITION</small>	<small>CHECKED BY</small>	<small>RBE</small>	+ 320-LPS-8201
<small>EQUIPMENT LOCATION</small>	<small>IRAN, ONSHORE</small>	<small>ADAPTED TO P&ID REVISION</small>	<small>LAST MODIFICATION DATE</small>	<small>2023-12-07</small>	CURRENT PAGE
<small>THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!</small>		<small>CLIENT</small>	<small>LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)</small>	<small>AIRPACK DWG NO.</small>	<small>17735-05</small>
		<small>CLIENT REF.</small>	<small>INTEGRATED METHANOL AND AMMONIA PLANT</small>	<small>REVISION</small>	<small>02</small>
		<small>AIRPACK REF.</small>	<small>17735-05 Wiring Diagram</small>	<small>TOTAL PAGE AMOUNT</small>	<small>5</small>



300TDD820

300CDDN820

20Cx1.5 mm2

=CUSTOMER

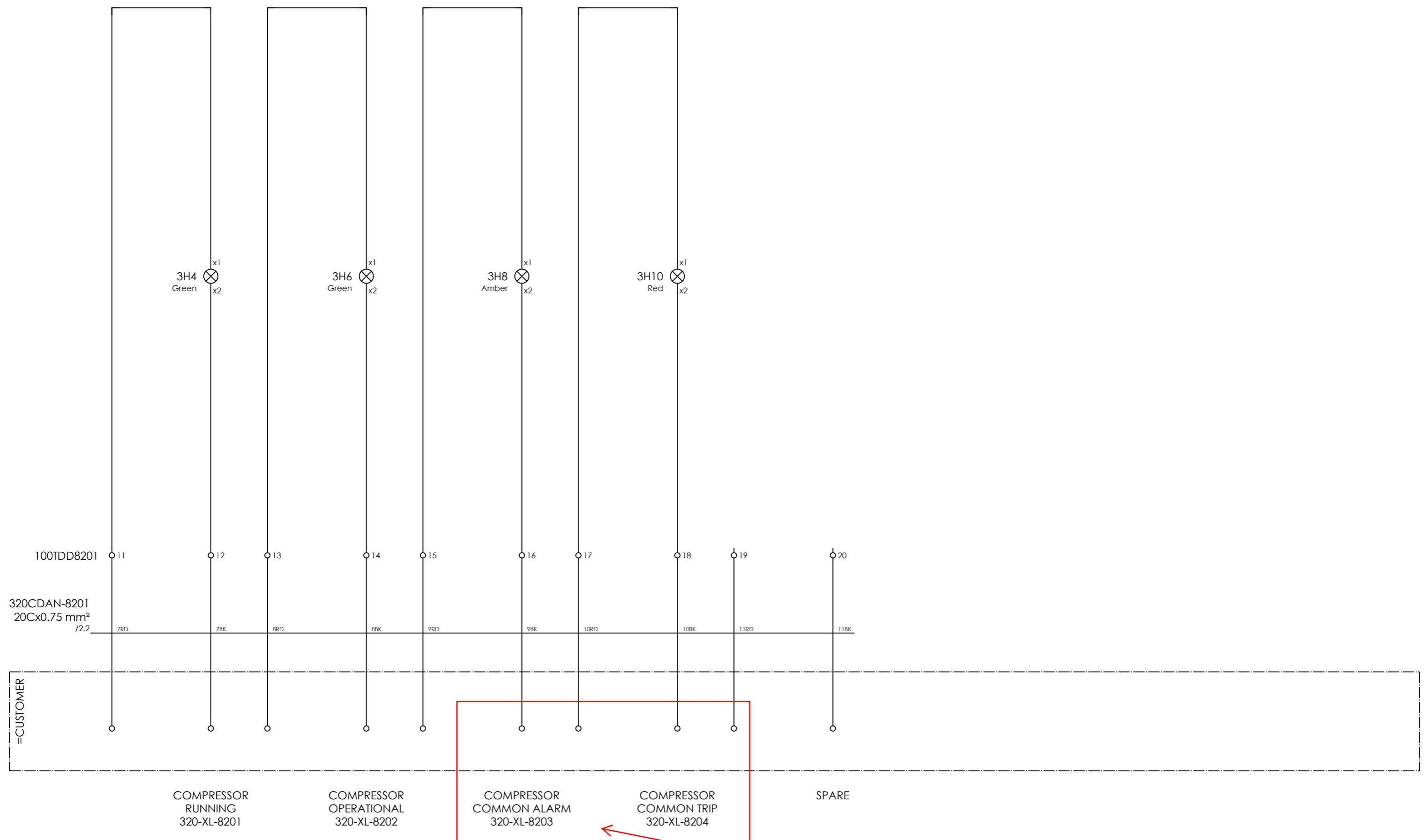
COMPRESSOR START 320-HS-8201
 COMPRESSOR STOP 320-HS-8202
 COMPRESSOR LOCAL SELECTOR SWITCH 320-HS-8204
 COMPRESSOR REMOTE SELECTOR SWITCH 320-HS-8204
 SPARE

All Tags should be modified(refer to general note)



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT PUSHBUTTONS	
EQUIPMENT NO.	320-K-020	ADAPTED TO P&ID REVISION	02
EQUIPMENT LOCATION	IRAN, ONSHORE	CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
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		AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR	= 320-K-020
CHECKED BY	RBE	+ 320-LPS-8201
LAST MODIFICATION DATE	2023-12-07	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	02	
TOTAL PAGE AMOUNT	6	



we do not have such a signal in MCC , only run , fault and available can be sent to package

these two signals are combined in MCC as fault

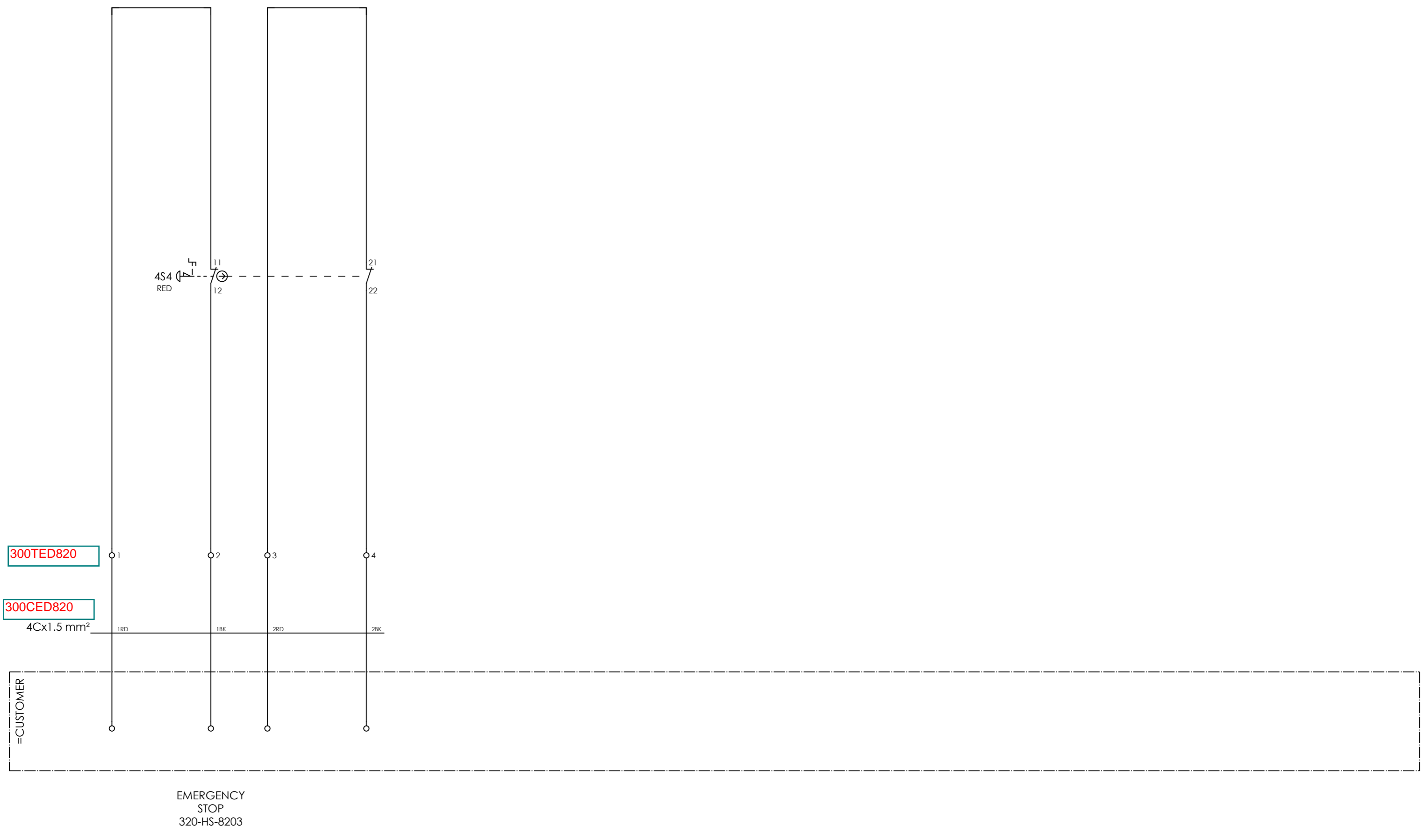


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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT	LAMPS
ADAPTED TO P&ID REVISION	02
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR
CHECKED BY	RBE
LAST MODIFICATION DATE	2023-12-07
AIRPACK DWG NO.	17735-05
REVISION	02
TOTAL PAGE AMOUNT	7

= 320-K-020
+ 320-LPS-8201
CURRENT PAGE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
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EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT ESD PUSHBUTTON	
ADAPTED TO P&ID REVISION	02
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	+ 320-LPS-8201
LAST MODIFICATION DATE	2023-12-07	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	02	
TOTAL PAGE AMOUNT	8	

Terminal diagram

Cable name		Strip =320-K-020+320-LPS-8201-100TDD8201 CONNECTION PUSHBUTTONS AND LAMPS						Cable name	
Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point
-320CDAN-8201	20Cx0.75 mm ²	1RD	.	-2S4			.		13
		1BK	.	-2S4		2	.		14
		2RD	.	-2S6		3	.		11
		2BK	.	-2S6		4	.		12
		3RD	.	-2S8		5	.		13
		3BK	.	-2S8		6	.		14
		4RD	.	-2S8		7	.		23
		4BK	.	-2S8		8	.		24
		5RD	.			9	.		
		5BK	.			10	.		
		7RD	.	-3H4		11	.		x1
		7BK	.	-3H4		12	.		x2
		8RD	.	-3H6		13	.		x1
		8BK	.	-3H6		14	.		x2
		9RD	.	-3H8		15	.		x1
		9BK	.	-3H8		16	.		x2
		10RD	.	-3H10		17	.		x1
		10BK	.	-3H10		18	.		x2
		11RD	.			19	.		
		11BK	.			20	.		



CLIENT DWG NO. N-278-VD-6019-IN-DIA-0005-01
 EQUIPMENT NO. 320-K-020
 EQUIPMENT LOCATION IRAN, ONSHORE
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SUBJECT Terminal diagram =320-K-020+320-LPS-8201-100TDD8201
 ADAPTED TO P&ID REVISION 02
 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 2023-12-07
 AIRPACK DWG NO. 17735-05
 REVISION 02
 TOTAL PAGE AMOUNT 9

= 320-K-020
 + 320-LPS-8201
 CURRENT PAGE

320-JB-8201

ANALOG JUNCTION BOX

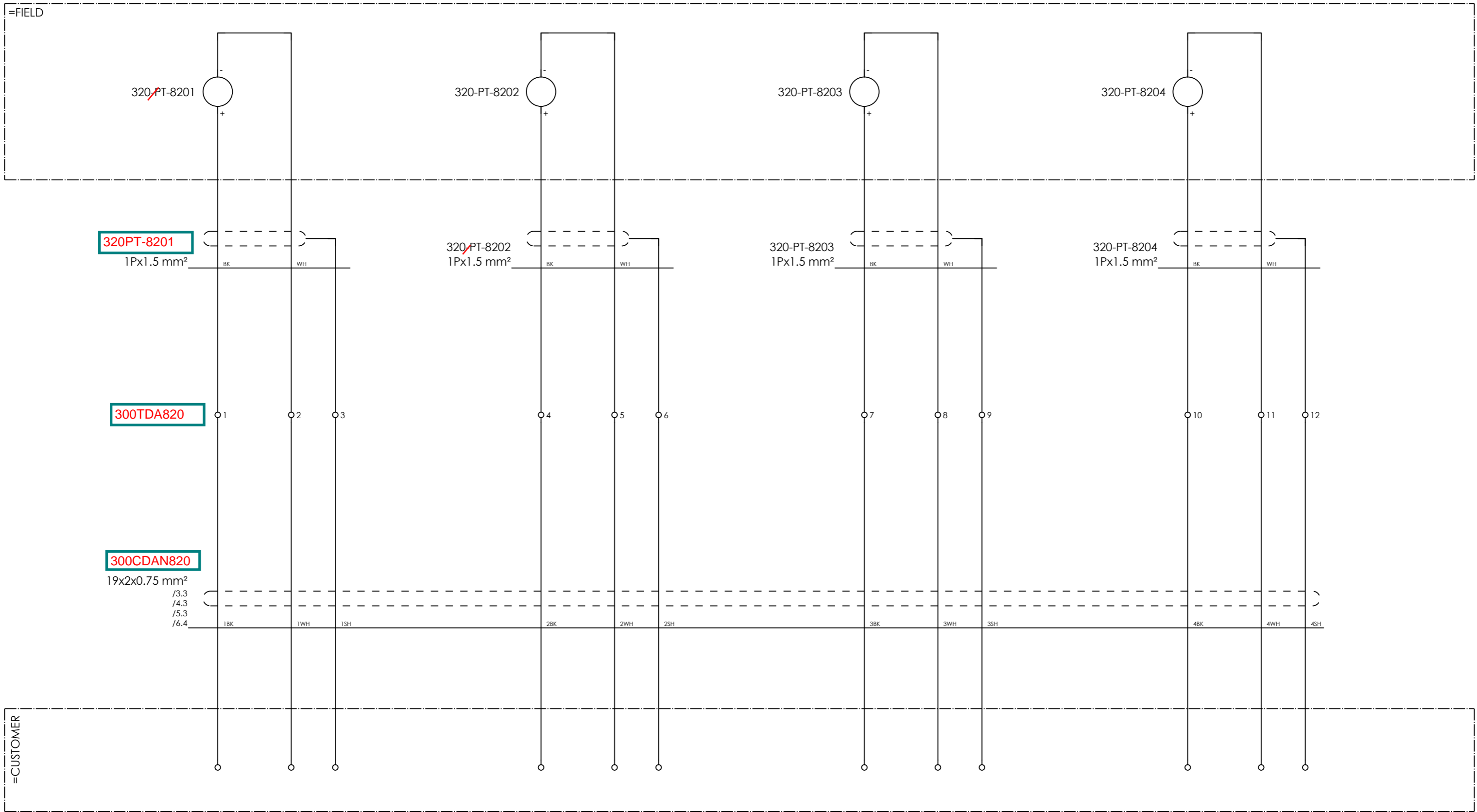
TERMINAL STRIP DEFINITION

300TDA820 = CONNECTION ANALOG TRANSMITTERS TO CLIENT

300TDA821 = CONNECTION PRESSURE CONTROL VALVE TO CLIENT



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT		DRAWN BY	RTR	= 320-K-020
EQUIPMENT NO.	320-K-020	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ 320-JB-8201
EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	2023-12-07	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	
		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	02	
		AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	11	

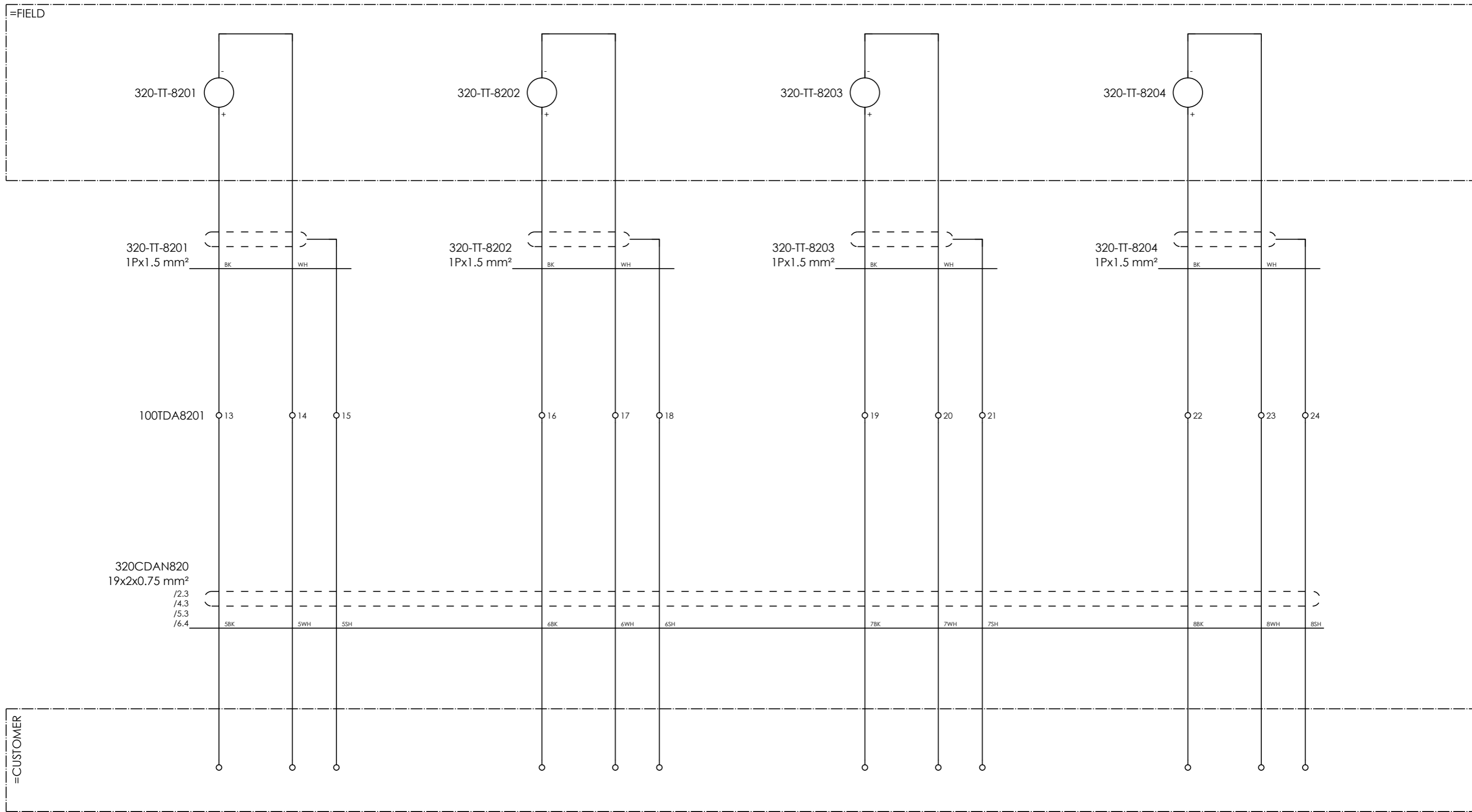


should be modified
(refer to general note)

PRESSURE TRANSMITTER 320-PT-8201 PRESSURE TRANSMITTER 320-PT-8202 PRESSURE TRANSMITTER 320-PT-8203 PRESSURE TRANSMITTER 320-PT-8204



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT		DRAWN BY	RTR	= 320-K-020
EQUIPMENT NO.	320-K-020	ANALOG TRANSMITTERS		CHECKED BY	RBE	+ 320-JB-8201
EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	2023-12-07	CURRENT PAGE
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		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	02	
		AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	12	



TEMPERATURE TRANSMITTER
320-TT-8201

TEMPERATURE TRANSMITTER
320-TT-8202

TEMPERATURE TRANSMITTER
320-TT-8203

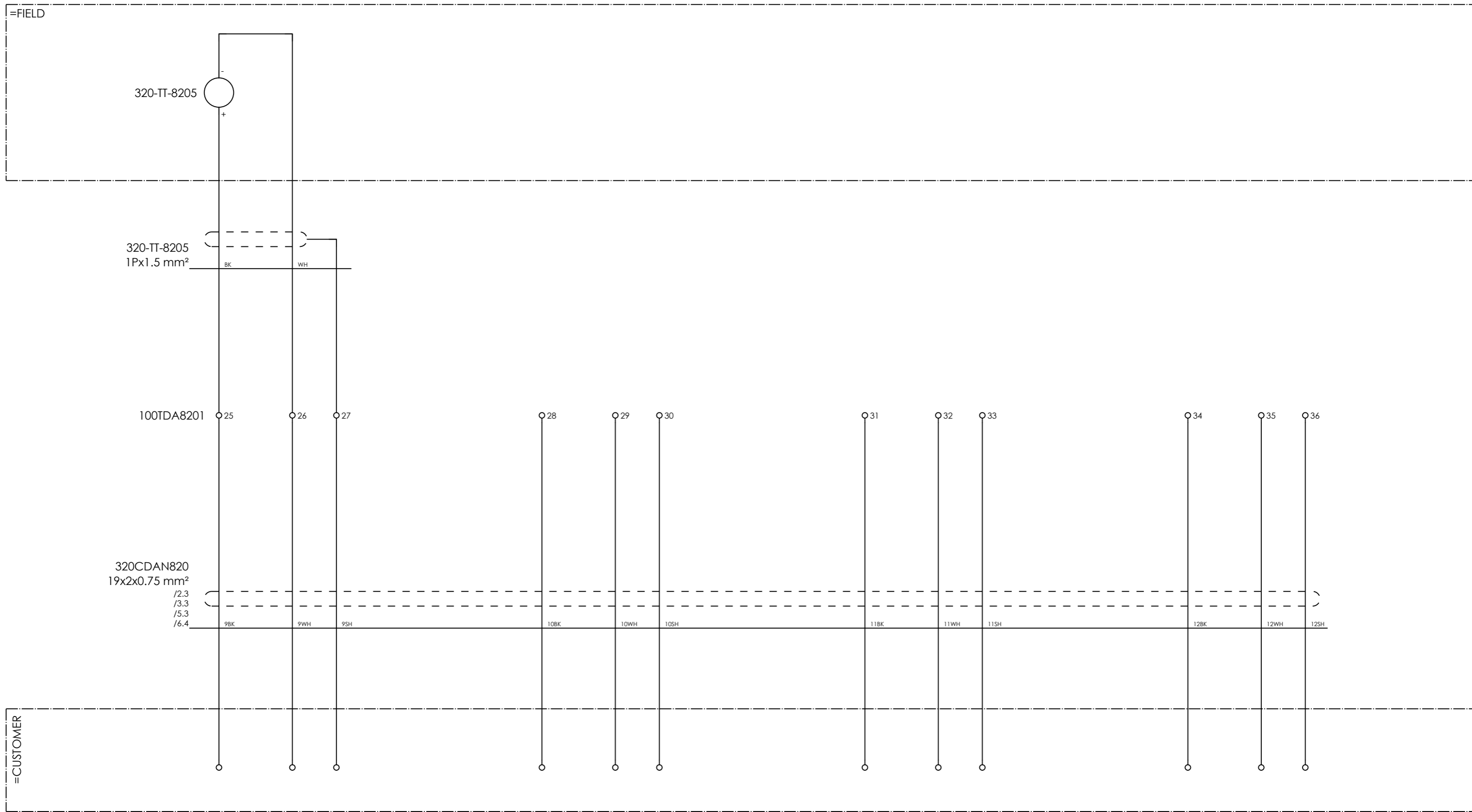
TEMPERATURE TRANSMITTER
320-TT-8204



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
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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LAST MODIFICATION DATE	2023-12-07	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	02	
TOTAL PAGE AMOUNT	13	



TEMPERATURE
TRANSMITTER
320-TT-8205

SPARE

SPARE

SPARE

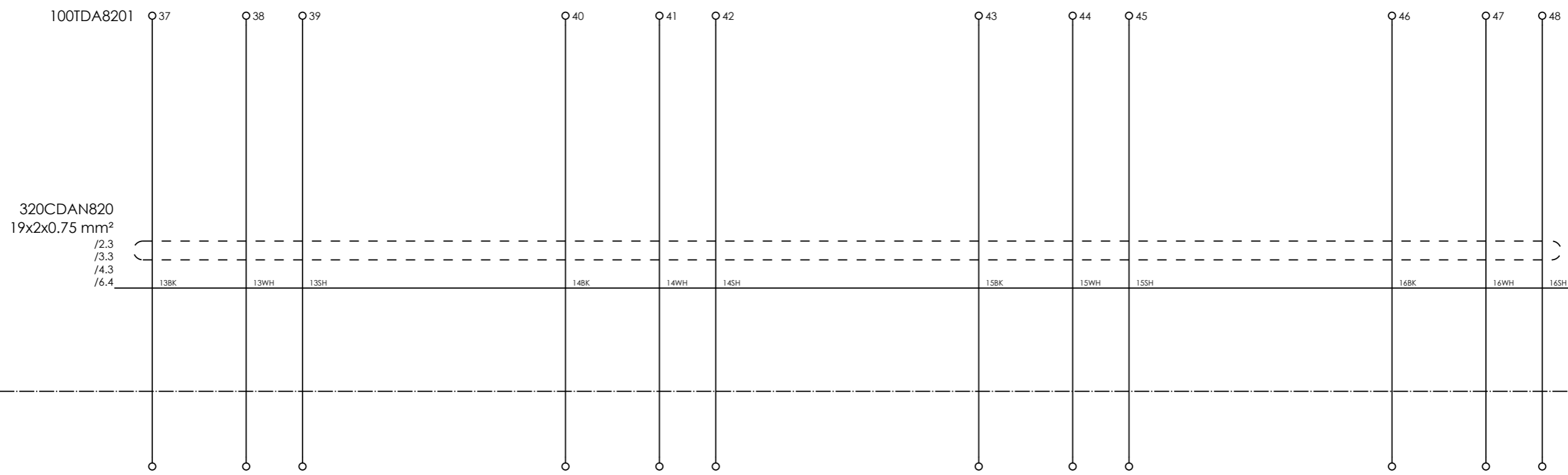


CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT ANALOG TRANSMITTERS	
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
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AIRPACK DWG NO.	17735-05	
REVISION	02	
TOTAL PAGE AMOUNT	14	

=FIELD



=CUSTOMER

SPARE

SPARE

SPARE

SPARE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
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SUBJECT ANALOG TRANSMITTERS	
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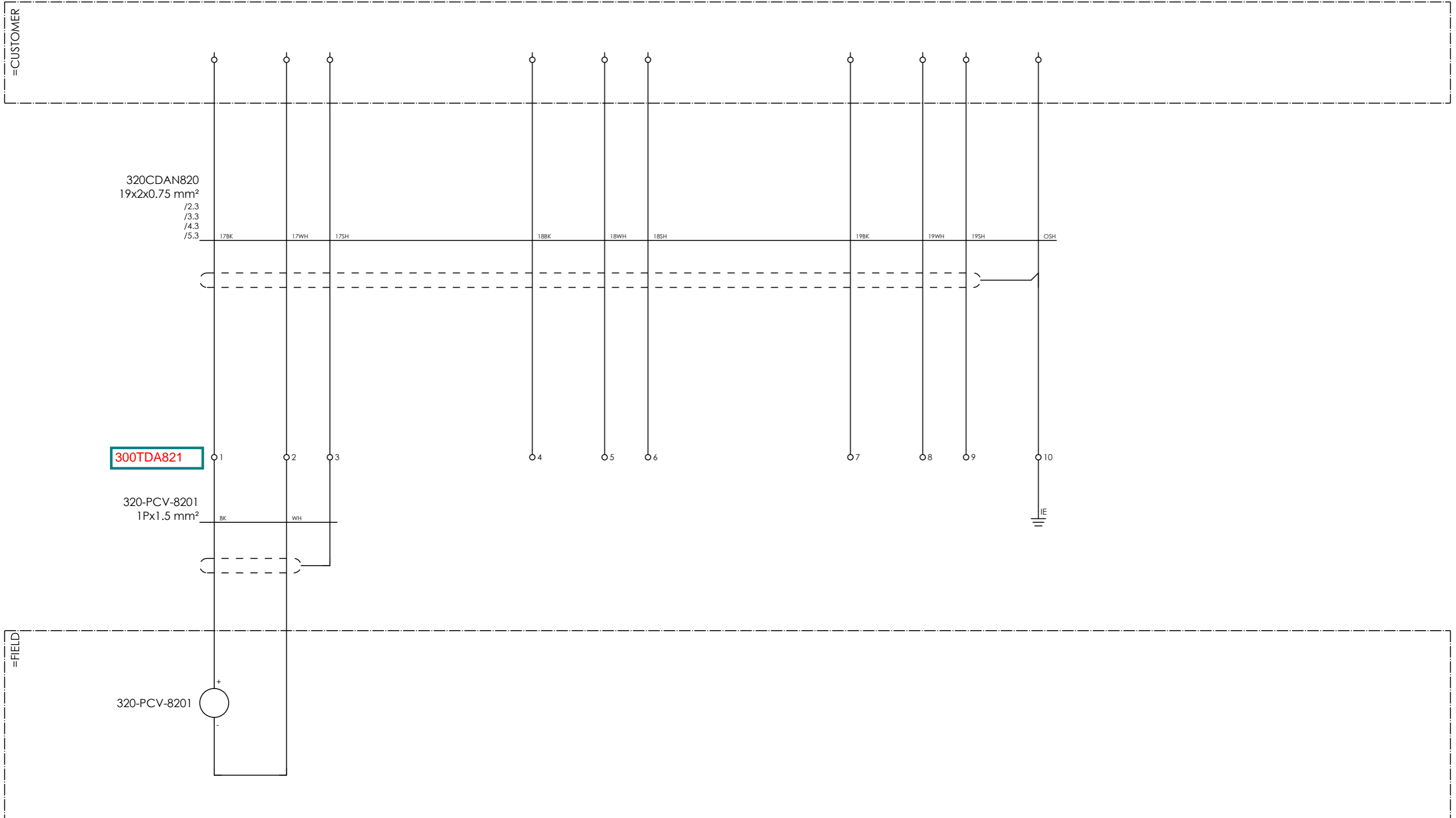
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AIRPACK DWG NO.	17735-05
REVISION	02
TOTAL PAGE AMOUNT	15

= 320-K-020
+ 320-JB-8201
CURRENT PAGE

PRESSURE CONTROL VALVE
320-PCV-8201

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SPARE



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SUBJECT PRESSURE CONTROL VALVE	
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AIRPACK REF.	17735-05 Wiring Diagram

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LAST MODIFICATION DATE	2023-12-07
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REVISION	02
TOTAL PAGE AMOUNT	16

= 320-K-020
+ 320-JB-8201
CURRENT PAGE

