



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	01

Page 1 of 20

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

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
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	01	Page 2 of 20

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6	X					31						56						81					
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8	X					33						58						83					
9	X					34						59						84					
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18	X					43						68						ATTACHMENT					
19	X					44						69						1					
20	X					45						70						2					
21						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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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-0005-01	
Airpack reference	:	17735-05 Wiring Diagram	
Airpack dwg. no.	:	17735-05	
Generation date	:	2023-11-02	
E & I manager	:	RBE	Revision no. : 01
Last modifications	:	2023-11-03	
Last modifications by	:	RTR	



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	
Title page / cover sheet	
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	2023-11-03	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	01	
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 WITHOUT SHROUDS, IP-66
 CABLE TRAYS: 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	SUBJECT		DRAWN BY	RTR	=
EQUIPMENT NO.	320-K-020	Project description		CHECKED BY	RBE	+
EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	2023-11-03	CURRENT PAGE
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		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	01	
		AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	2	


320-LCP-8201

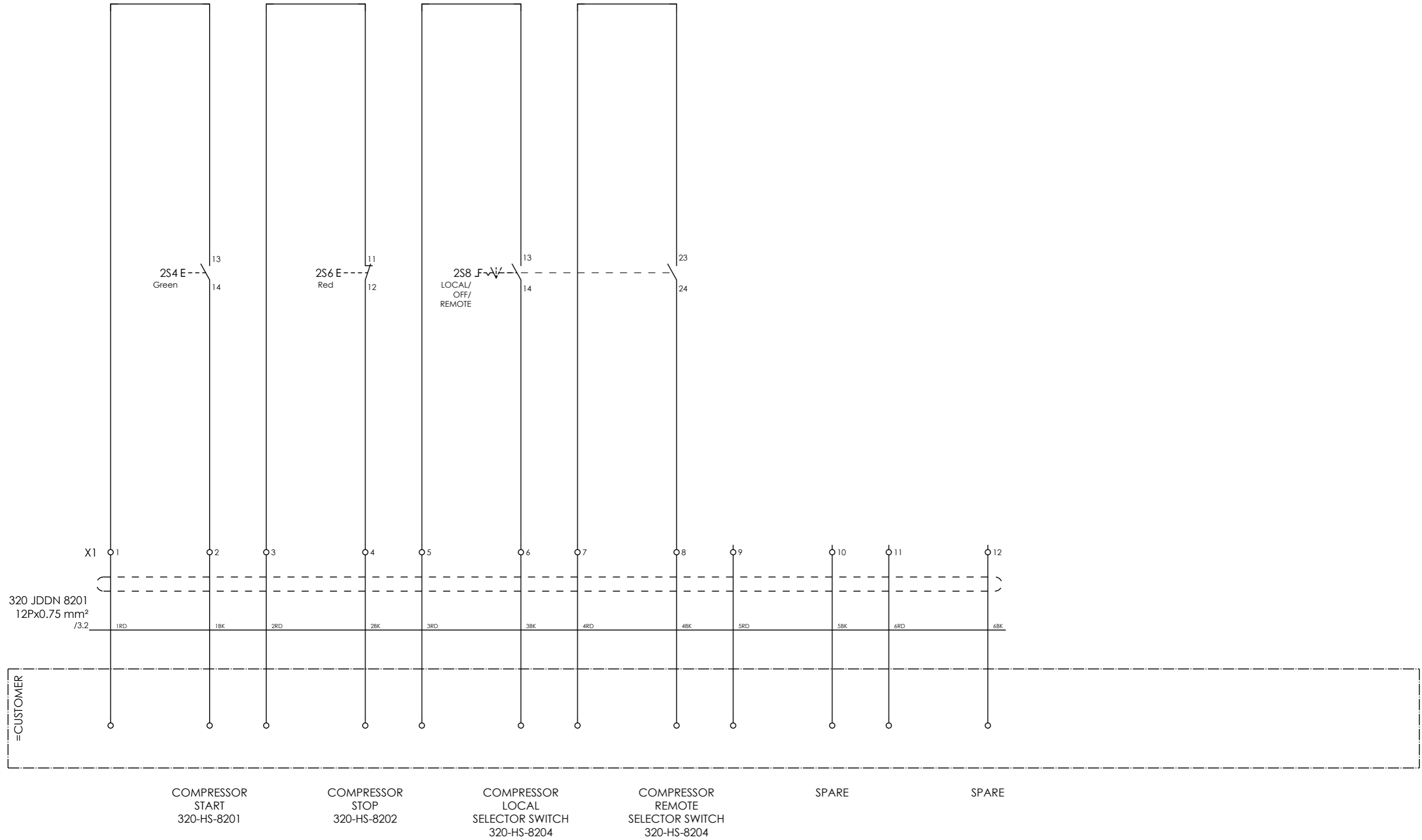
LOCAL PUSHBUTTON STATION

TERMINAL STRIP DEFINITION

X1 = CONNECTION PUSHBUTTONS AND LAMPS

X9 = CONNECTION ESD PUSHBUTTON

	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-LCP-8201
	EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	2023-11-03	CURRENT PAGE
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			CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	01	
AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	4				



320 JDDN 8201
12Px0.75 mm²
/3.2

=CUSTOMER

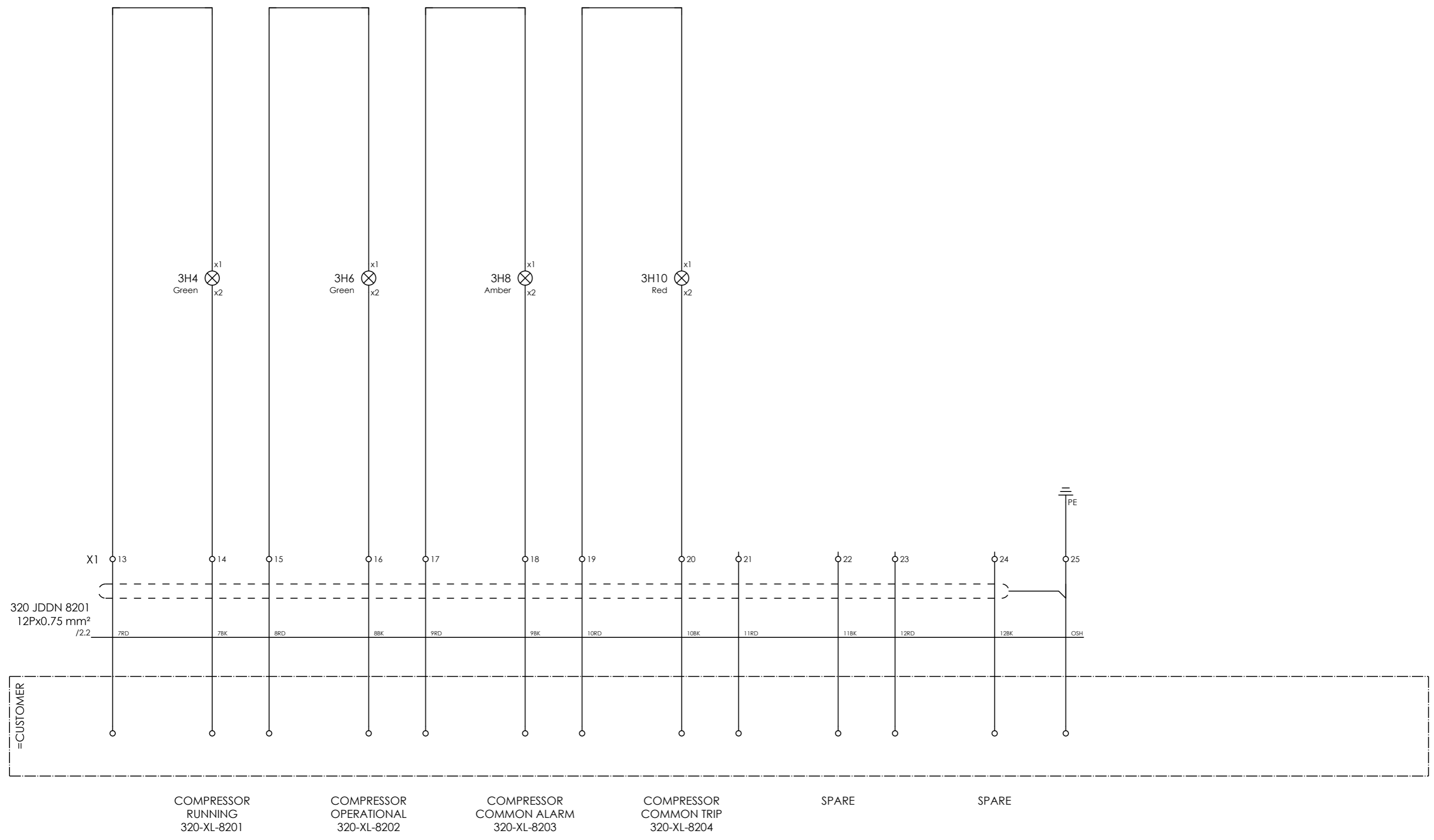


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EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT PUSHBUTTONS	
ADAPTED TO P&ID REVISION	02
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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CHECKED BY	RBE
LAST MODIFICATION DATE	2023-11-03
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REVISION	01
TOTAL PAGE AMOUNT	5

= 320-K-020
+ 320-LCP-8201
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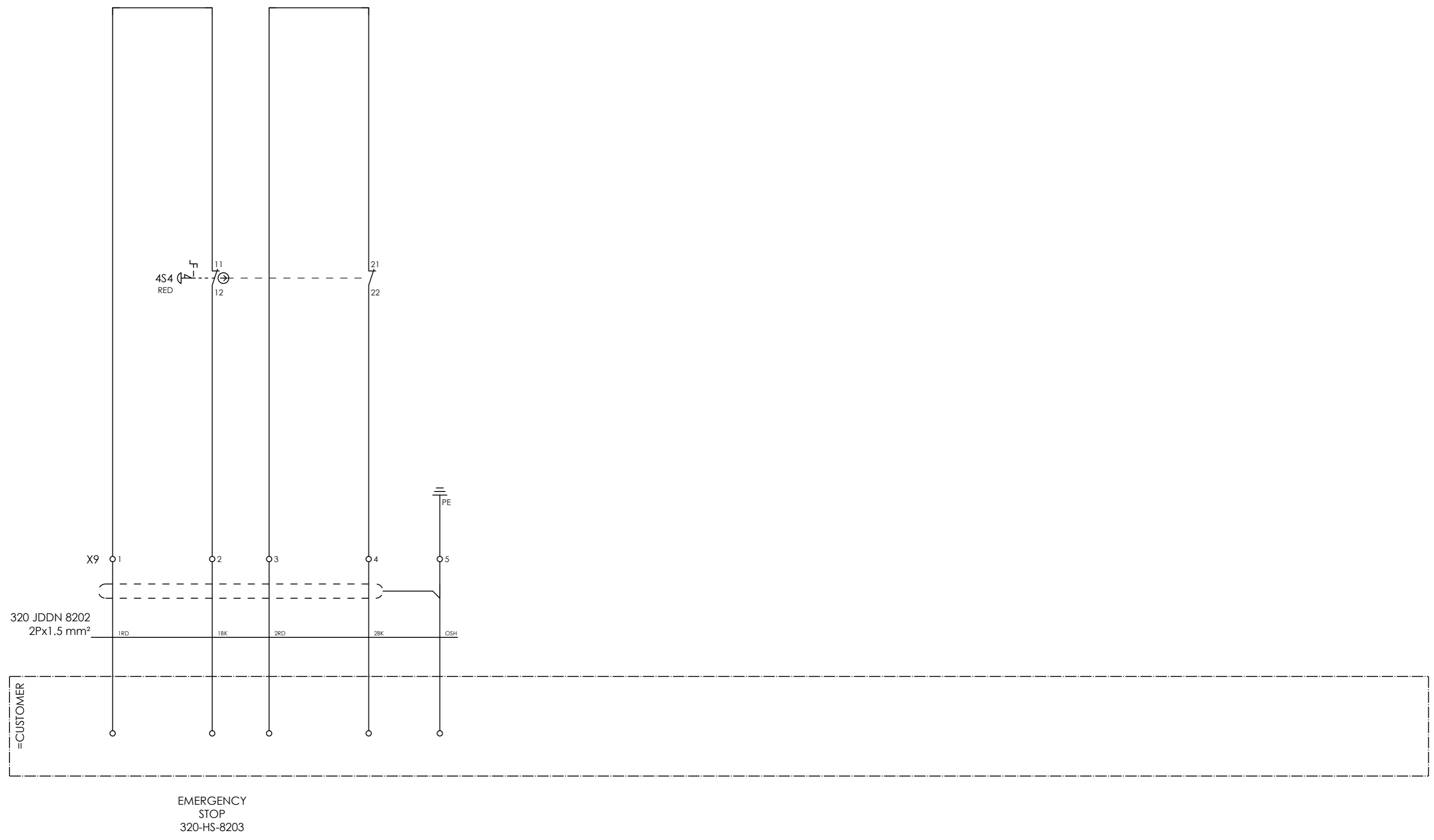


CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

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

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LAST MODIFICATION DATE	2023-11-03
AIRPACK DWG NO.	17735-05
REVISION	01
TOTAL PAGE AMOUNT	6

= 320-K-020
+ 320-LCP-8201
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320 JDDN 8202
2Px1.5 mm²

=CUSTOMER



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 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

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LAST MODIFICATION DATE	2023-11-03
AIRPACK DWG NO.	17735-05
REVISION	01
TOTAL PAGE AMOUNT	7

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

Terminal diagram

Cable name		Strip =320-K-020+320-LCP-8201-X1 CONNECTION PUSHBUTTONS AND LAMPS						Cable name	
Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Connection point
1	.	-2S4	13	1	.	-2S4	13	1RD	
2	.	-2S4	14	2	.	-2S4	14	1BK	
3	.	-2S6	11	3	.	-2S6	11	2RD	
4	.	-2S6	12	4	.	-2S6	12	2BK	
5	.	-2S8	13	5	.	-2S8	13	3RD	
6	.	-2S8	14	6	.	-2S8	14	3BK	
7	.	-2S8	23	7	.	-2S8	23	4RD	
8	.	-2S8	24	8	.	-2S8	24	4BK	
9	.			9	.			5RD	
10	.			10	.			5BK	
11	.			11	.			6RD	
12	.			12	.			6BK	
13	.	-3H4	x1	13	.	-3H4	x1	7RD	
14	.	-3H4	x2	14	.	-3H4	x2	7BK	
15	.	-3H6	x1	15	.	-3H6	x1	8RD	
16	.	-3H6	x2	16	.	-3H6	x2	8BK	
17	.	-3H8	x1	17	.	-3H8	x1	9RD	
18	.	-3H8	x2	18	.	-3H8	x2	9BK	
19	.	-3H10	x1	19	.	-3H10	x1	10RD	
20	.	-3H10	x2	20	.	-3H10	x2	10BK	
21	.			21	.			11RD	
22	.			22	.			11BK	
23	.			23	.			12RD	
24	.			24	.			12BK	
25	.		PE	25	.		PE	OSH	



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-LCP-8201-X1
 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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 AIRPACK DWG NO. 17735-05
 REVISION 01
 TOTAL PAGE AMOUNT 8

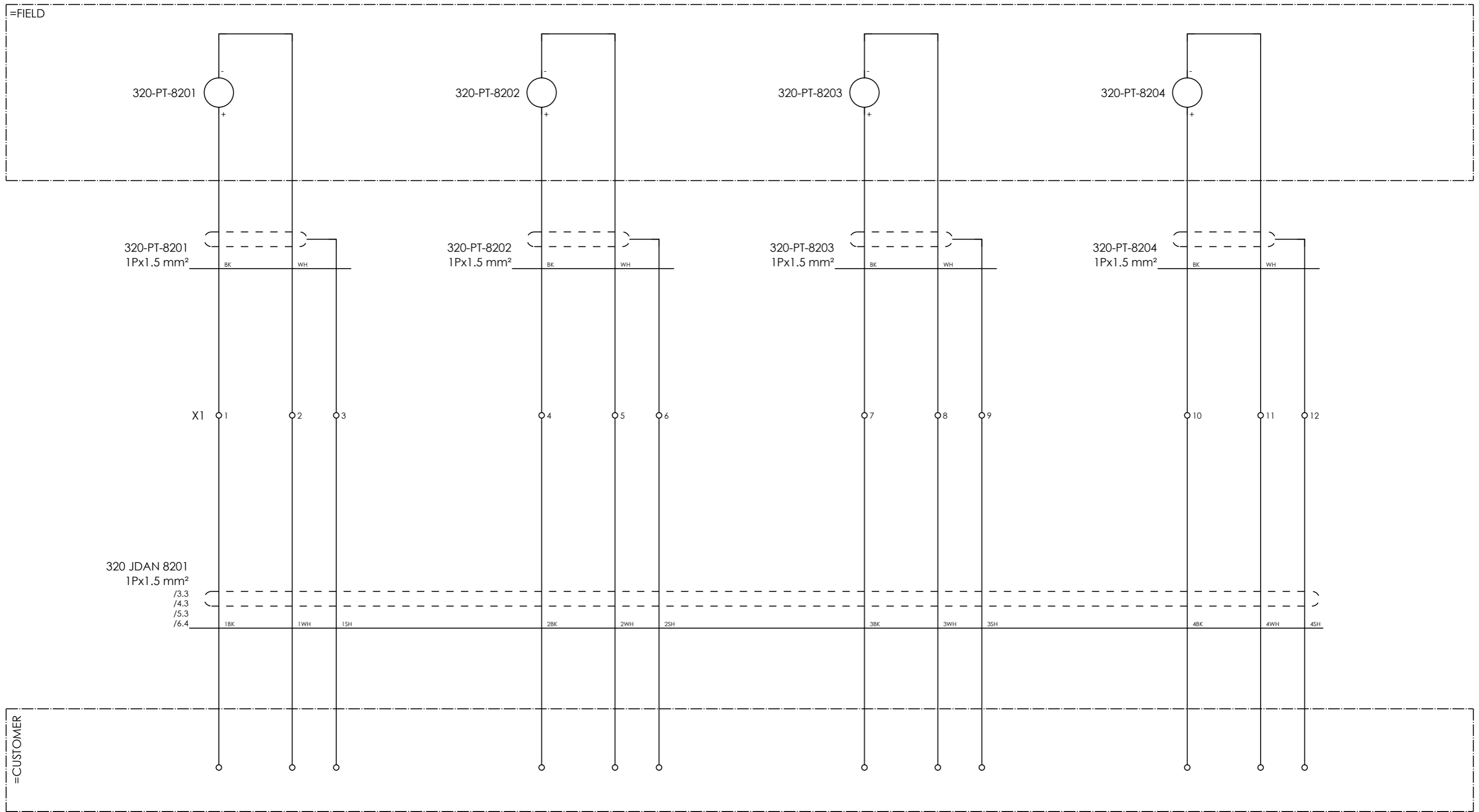
= 320-K-020
 + 320-LCP-8201
 CURRENT PAGE

320-JB-8201 ANALOG JUNCTION BOX

TERMINAL STRIP DEFINITION

- X1 = CONNECTION ANALOG TRANSMITTERS TO CLIENT
- X2 = 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	2023-11-03	CURRENT PAGE
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			CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	01	
AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	10				



PRESSURE TRANSMITTER
320-PT-8201

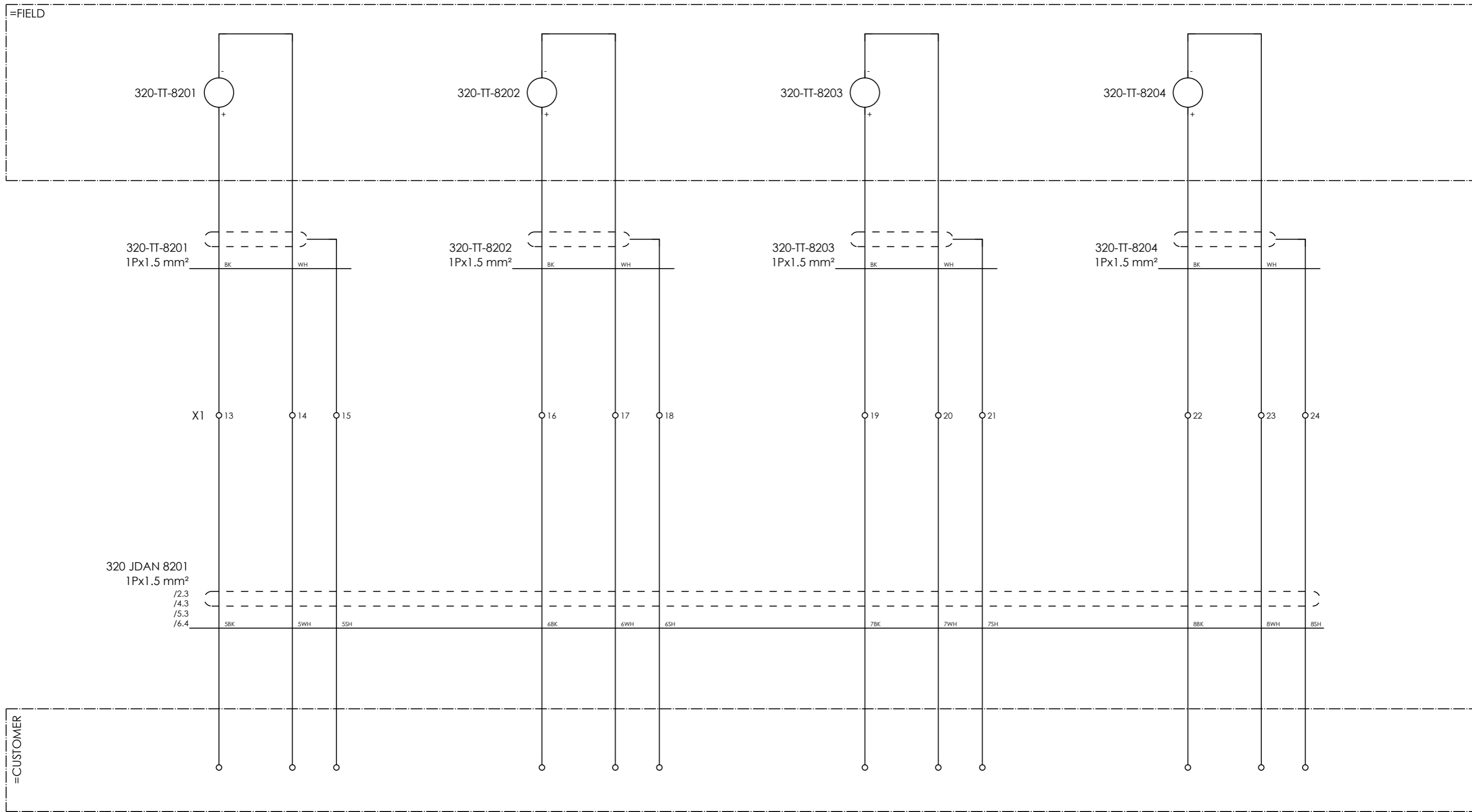
PRESSURE TRANSMITTER
320-PT-8202

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	2023-11-03	CURRENT PAGE
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		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	01	
		AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	11	



TEMPERATURE TRANSMITTER
320-TT-8201

TEMPERATURE TRANSMITTER
320-TT-8202

TEMPERATURE TRANSMITTER
320-TT-8203

TEMPERATURE TRANSMITTER
320-TT-8204



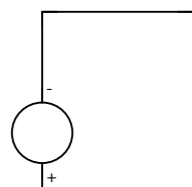
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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT ANALOG TRANSMITTERS	
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR	= 320-K-020
CHECKED BY	RBE	+ 320-JB-8201
LAST MODIFICATION DATE	2023-11-03	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	01	
TOTAL PAGE AMOUNT	12	

=FIELD

320-TT-8205



320-TT-8205
1Px1.5 mm²



X1

25

26

27

28

29

30

31

32

33

34

35

36

320 JDAN 8201
1Px1.5 mm²

/2.3
/3.3
/5.3
/6.4

9BK

9WH

9SH

10BK

10WH

10SH

11BK

11WH

11SH

12BK

12WH

12SH

=CUSTOMER

TEMPERATURE
TRANSMITTER
320-TT-8205

SPARE

SPARE

SPARE



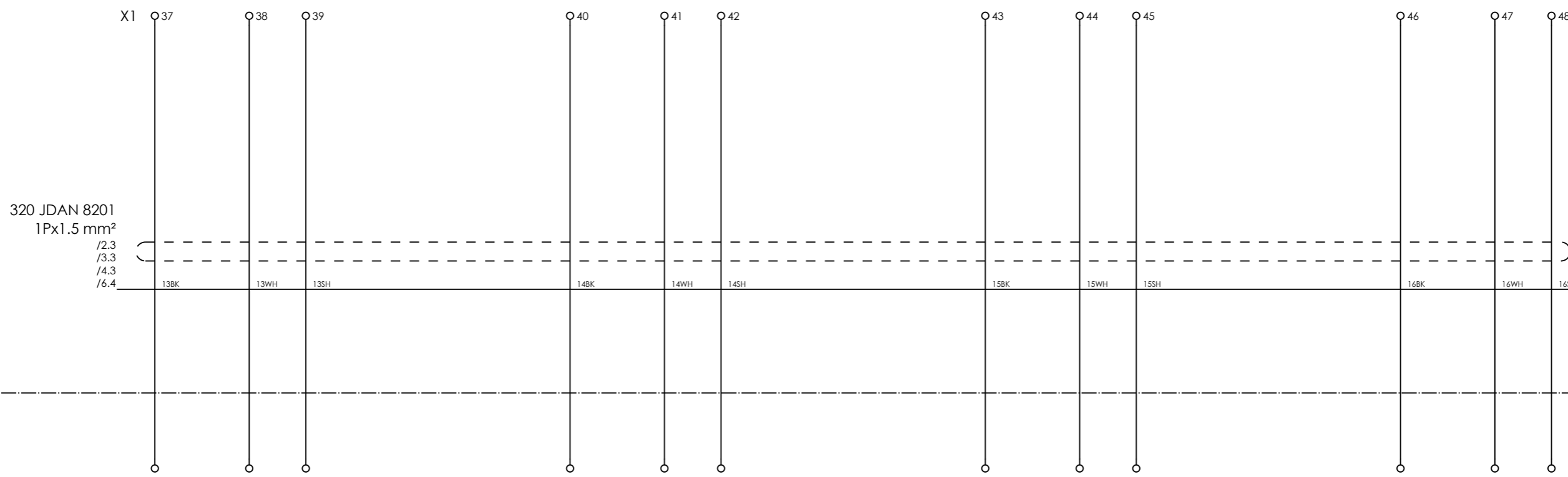
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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

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SUBJECT ANALOG TRANSMITTERS	
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR	= 320-K-020
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=FIELD



SPARE

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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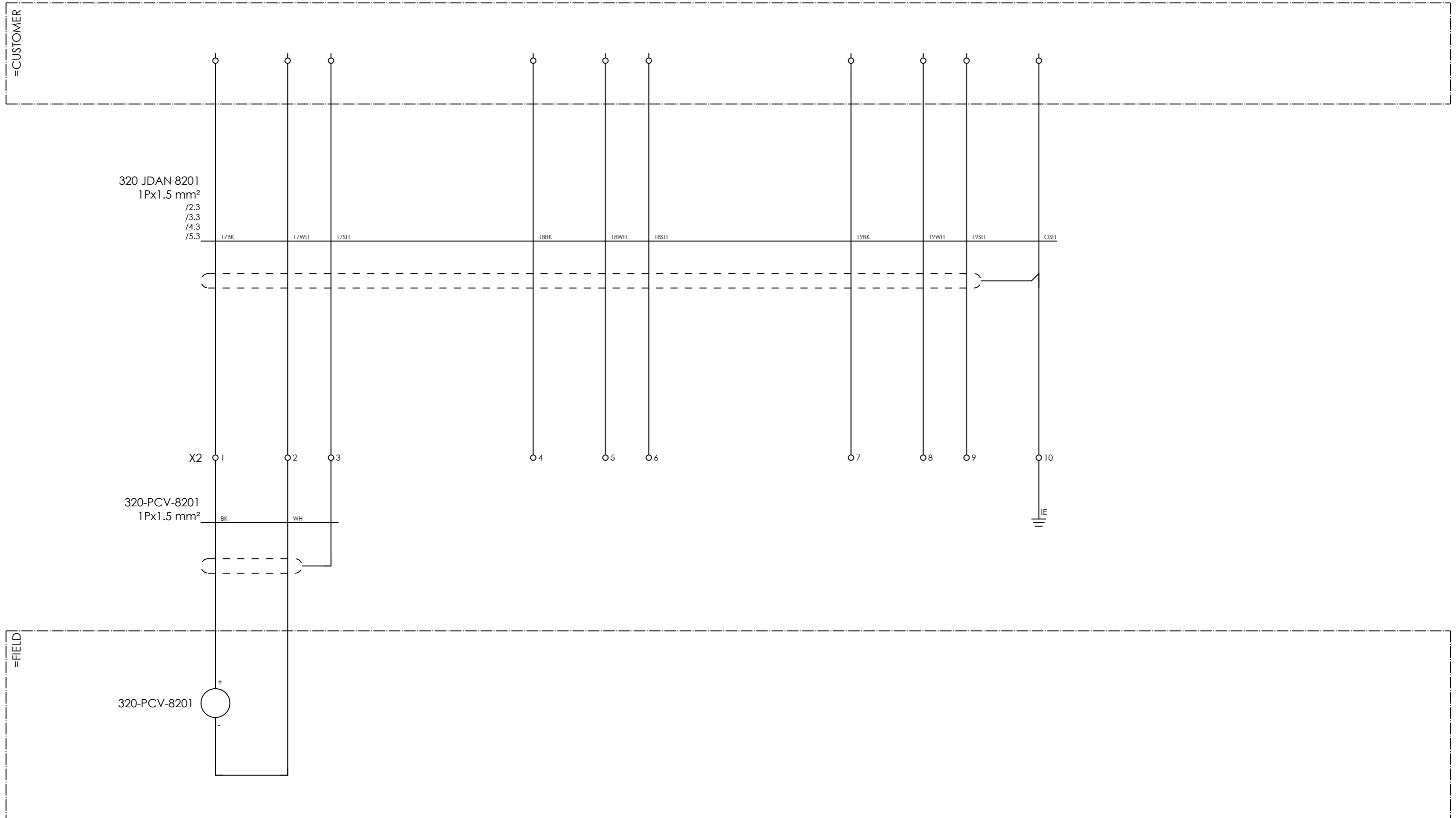
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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AIRPACK DWG NO.	17735-05	
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PRESSURE CONTROL VALVE
320-PCV-8201

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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AIRPACK REF.	17735-05 Wiring Diagram

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LAST MODIFICATION DATE	2023-11-03
AIRPACK DWG NO.	17735-05
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TOTAL PAGE AMOUNT	15

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

Terminal diagram

Cable name		Cable name		Terminal		Connection point		Jumper		Target designation		Connection point		Target designation	
-320JDAN8201	1Px1.5 mm²	-320-TT-8205	1Px1.5 mm²			16	+								
		-320-TT-8204	1Px1.5 mm²			17	-								
		-320-TT-8203	1Px1.5 mm²	BK	WH	18									
		-320-TT-8202	1Px1.5 mm²	BK	WH	19	+								
				SHLD		20	-								
						21									
						22	+								
						23	-								
						24									
						25	+								
						26	-								
						27									
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						46									
						47									
						48									

Strip
=320-K-020+320-JB-8201-X1
CONNECTION ANALOG TRANSMITTERS TO CLIENT



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-JB-8201-X1
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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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AIRPACK DWG NO. 17735-05
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