



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

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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)**

- This document should be submitted after finalizing P&ID, I/O List and Outline Dimensional Drawings documents .
- Plz find other comment in next pages.

code-3  
M. Vakili

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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4	X					29						54						79					
5	X					30						55						80					
6	X					31						56						81					
7	X					32						57						82					
8	X					33						58						83					
9	X					34						59						84					
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16	X					41						66						91					
17	X					42						67						92					
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.

4301 RN Zierikzee  
The Netherlands

PHONE: (31) (0) 111 - 415455

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-0005-01		
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	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	02	LAST MODIFICATION DATE	2023-11-03	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	01	
		AIRPACK REF.	17735-05 Wiring Diagram	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

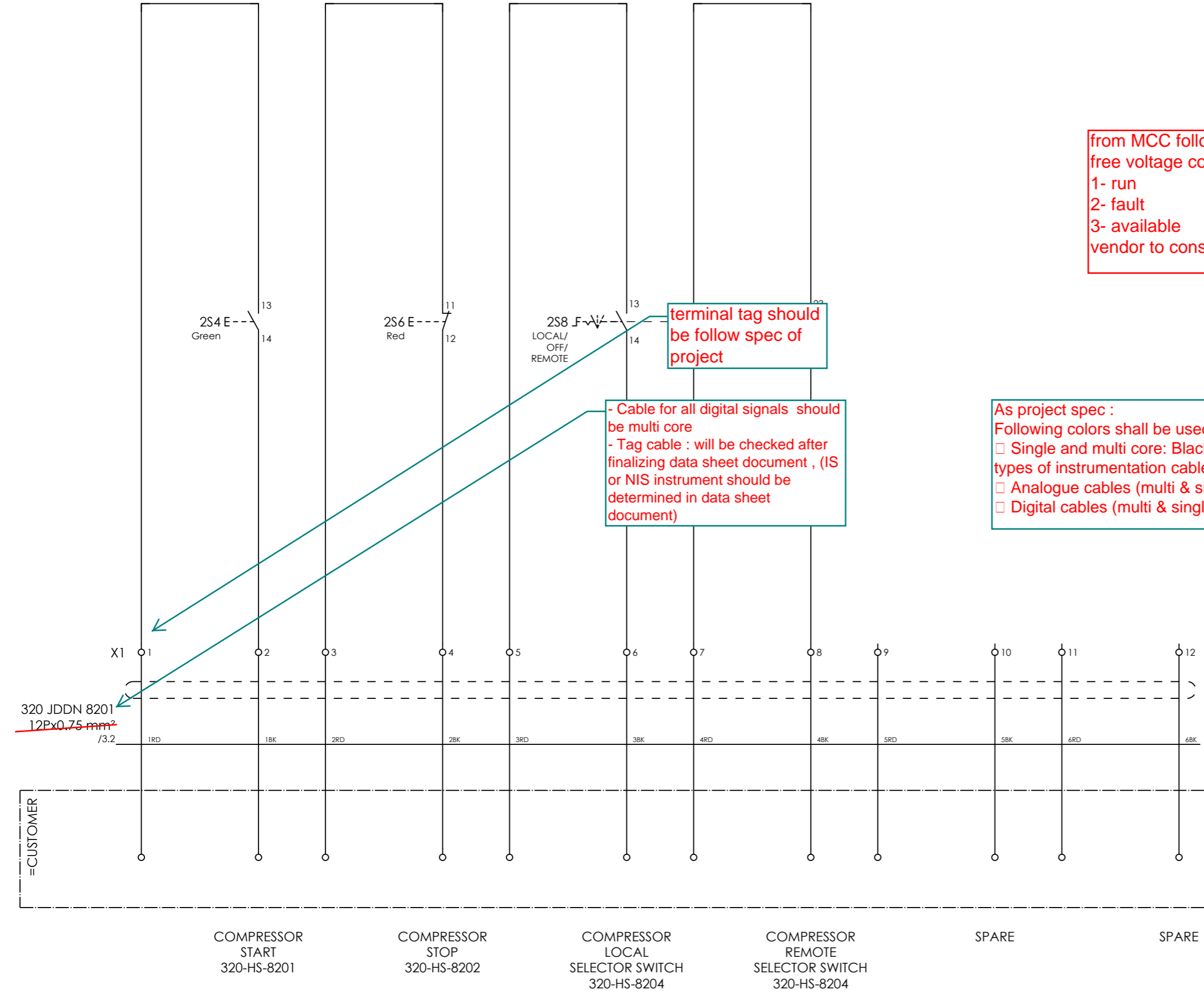
X9 = CONNECTION ESD PUSHBUTTON

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

symbol and legend should be added.



<small>THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!</small>	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
	CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)		AIRPACK DWG NO.	17735-05		
	CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT		REVISION	01		
AIRPACK REF.	17735-05 Wiring Diagram		TOTAL PAGE AMOUNT	4			



from MCC following signals will be sent to LCP via free voltage contact:  
 1- run  
 2- fault  
 3- available  
 vendor to consider them inside LCP

terminal tag should be follow spec of project

- Cable for all digital signals should be multi core  
 - Tag cable : will be checked after finalizing data sheet document , (IS or NIS instrument should be determined in data sheet document)

As project spec :  
 Following colors shall be used for identification:  
 Single and multi core: Black  
 types of instrumentation cables :  
 Analogue cables (multi & single pair)  
 Digital cables (multi & single core)

320 JDDN 8201  
~~12P x 0.75 mm<sup>2</sup>~~  
 /3.2

=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      SPARE



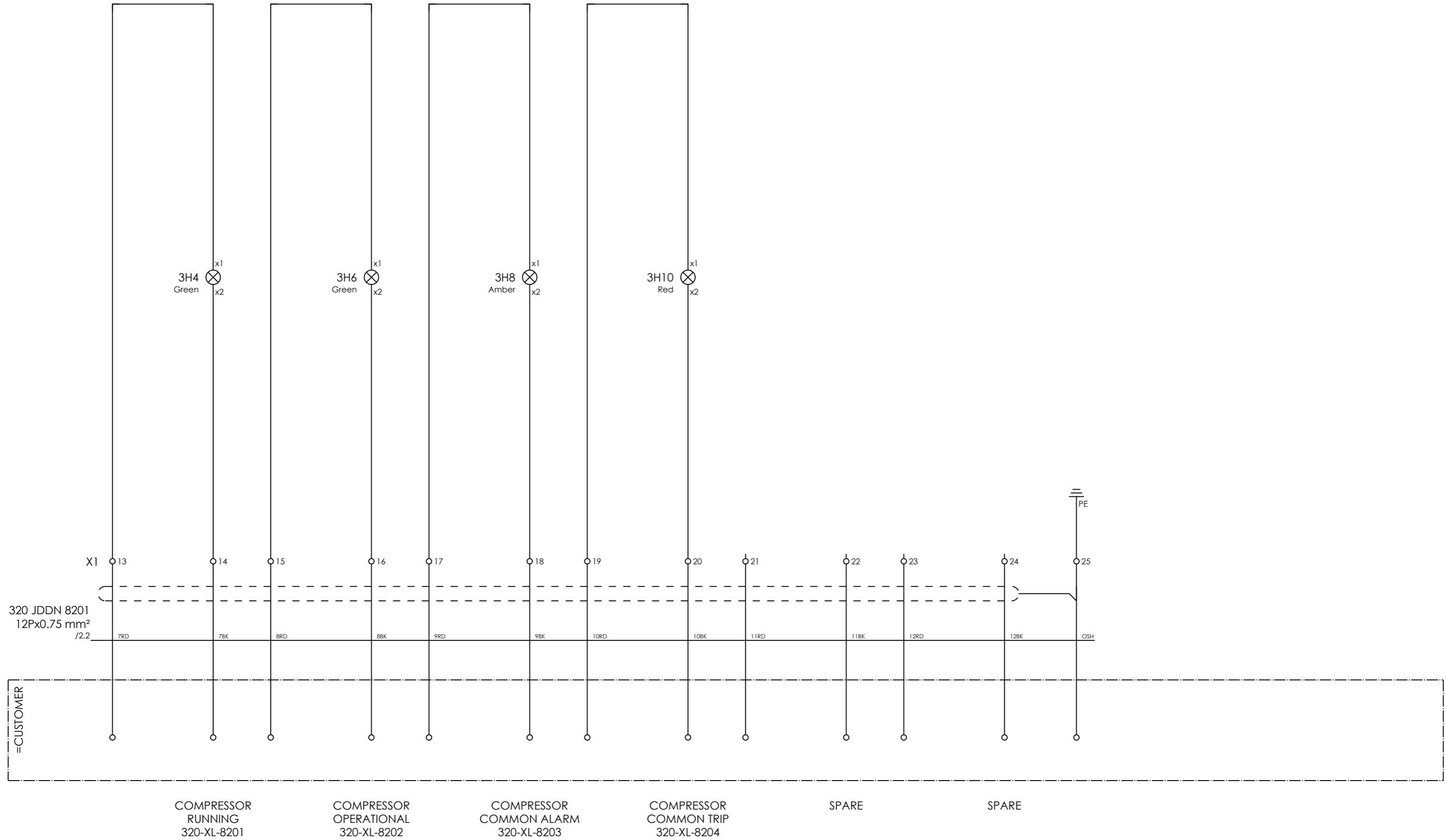
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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

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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

DRAWN BY	RTR
CHECKED BY	RBE
LAST MODIFICATION DATE	2023-11-03
AIRPACK DWG NO.	17735-05
REVISION	01
TOTAL PAGE AMOUNT	5

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

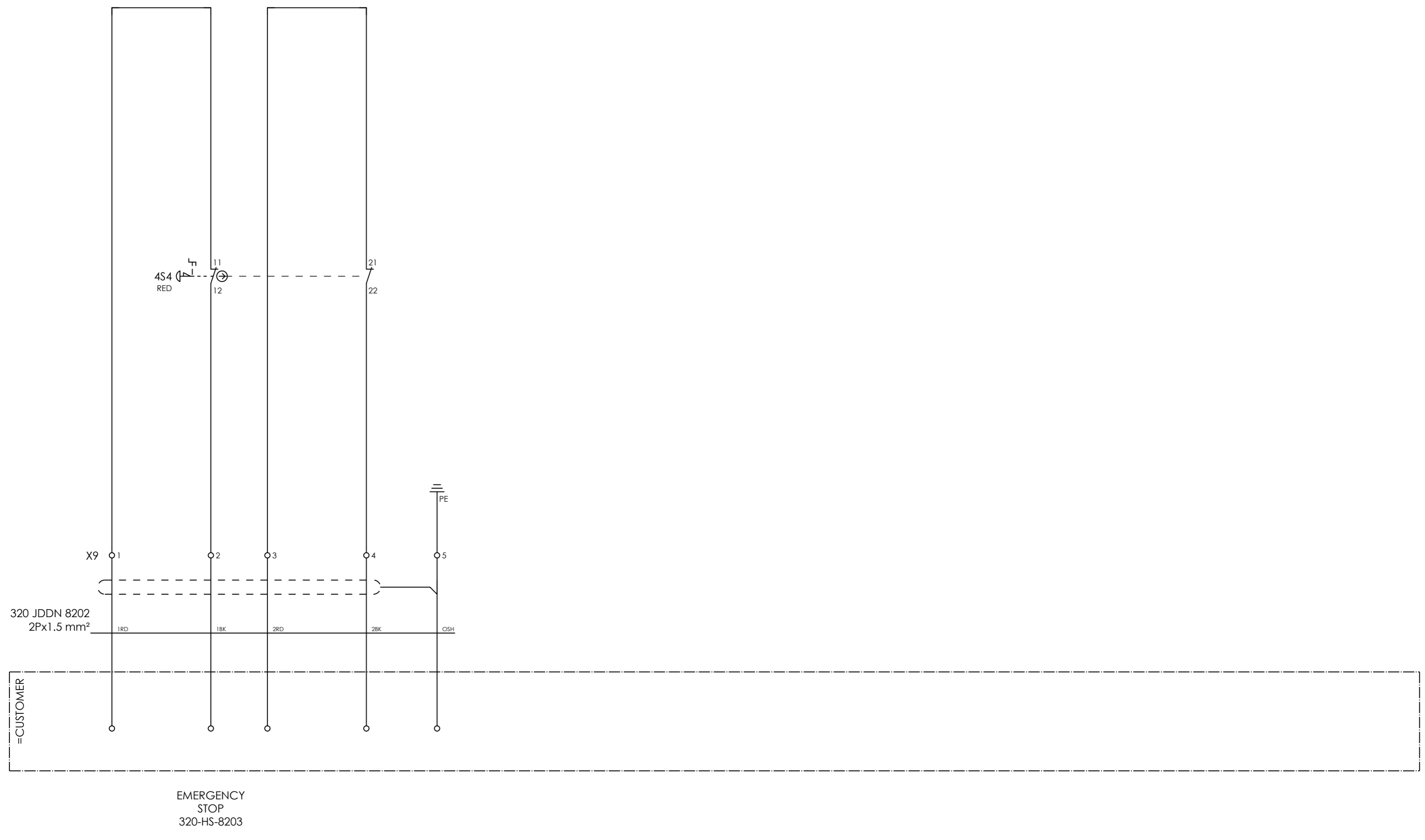


CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

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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CHECKED BY	RBE
LAST MODIFICATION DATE	2023-11-03
AIRPACK DWG NO.	17735-05
REVISION	01
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+ 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
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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
CHECKED BY	RBE
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-X9 CONNECTION ESD PUSHBUTTON					Cable name	
Terminal	Connection point	Jumper	Target designation	Connection point	Terminal	Target designation	Connection point	
1	11	.	-4S4		1RD			
2	12	.	-4S4		1BK			
3	21	.	-4S4		2RD			
4	22	.	-4S4		2BK			
5	PE	.			OSH			



CLIENT DWG NO. N-278-VD-6019-IN-DIA-0005-01  
 EQUIPMENT NO. 320-K-020  
 EQUIPMENT LOCATION IRAN, ONSHORE  
 THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!

SUBJECT Terminal diagram =320-K-020+320-LCP-8201-X9  
 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  
 AIRPACK DWG NO. 17735-05  
 REVISION 01  
 TOTAL PAGE AMOUNT 9


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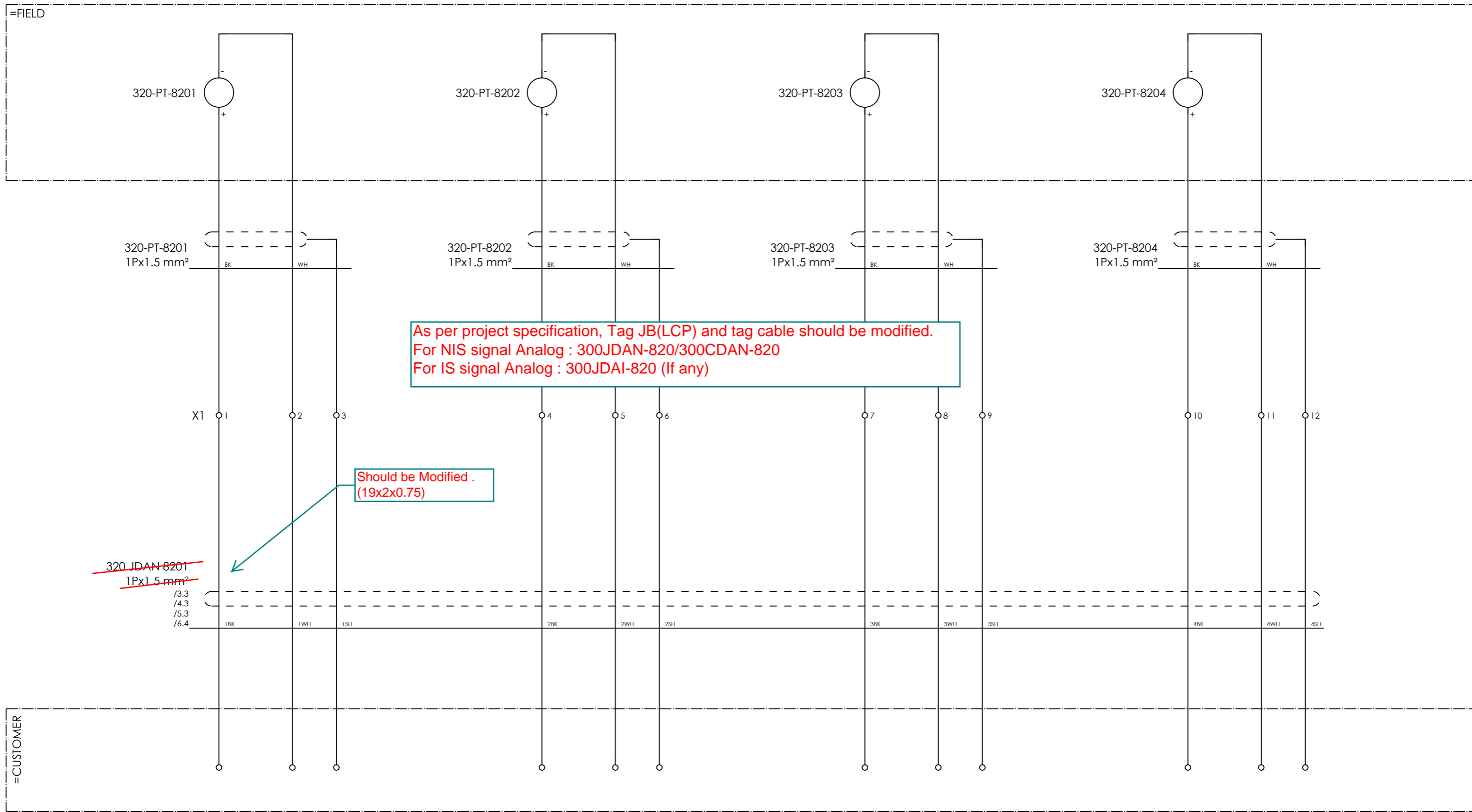
# 320-JB-8201

## 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	
	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	01	
AIRPACK REF.	17735-05 Wiring Diagram		TOTAL PAGE AMOUNT	10				



PRESSURE TRANSMITTER  
320-PT-8201

PRESSURE TRANSMITTER  
320-PT-8202

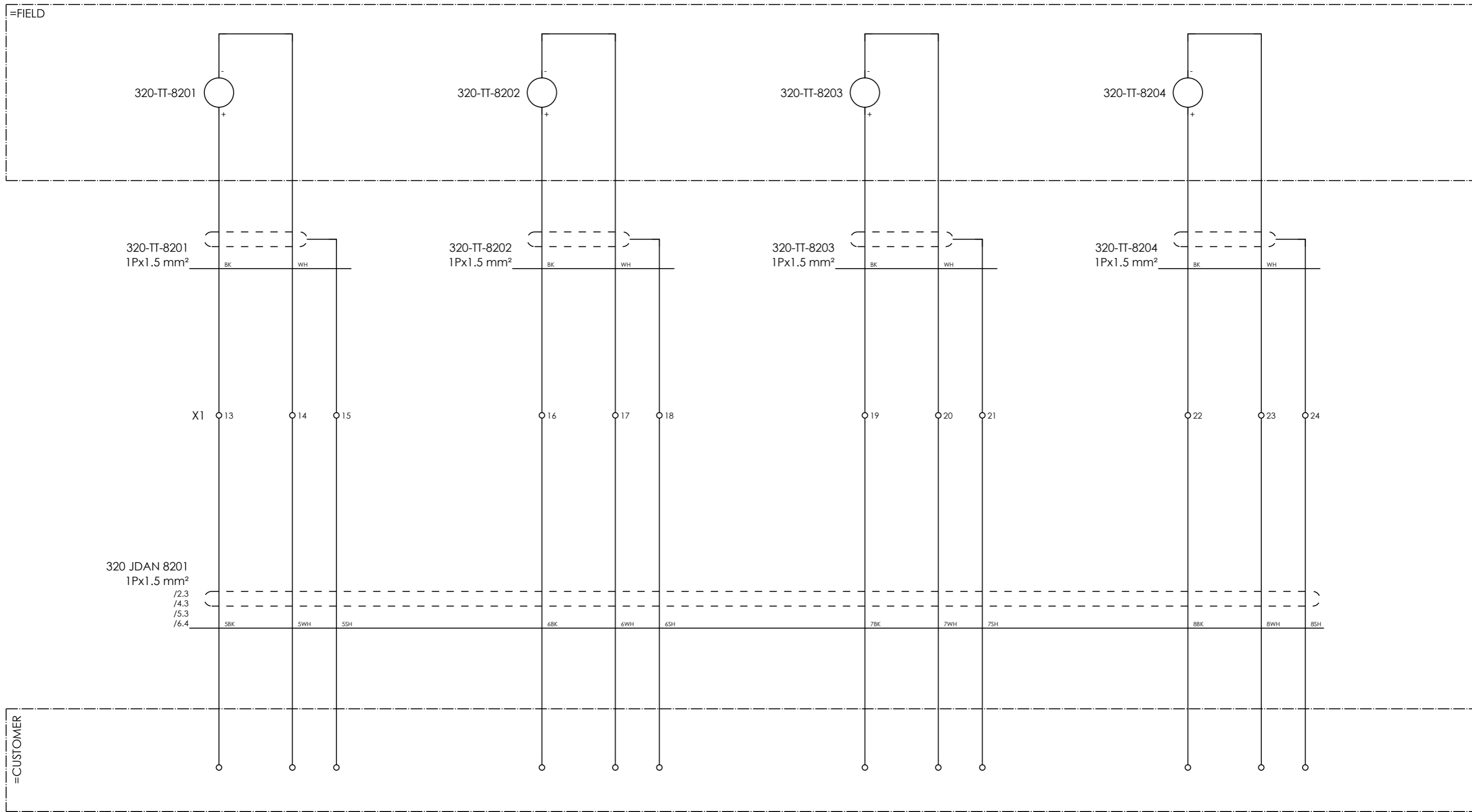
PRESSURE TRANSMITTER  
320-PT-8203

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	

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	11	



TEMPERATURE TRANSMITTER  
320-TT-8201

TEMPERATURE TRANSMITTER  
320-TT-8202

TEMPERATURE TRANSMITTER  
320-TT-8203

TEMPERATURE TRANSMITTER  
320-TT-8204

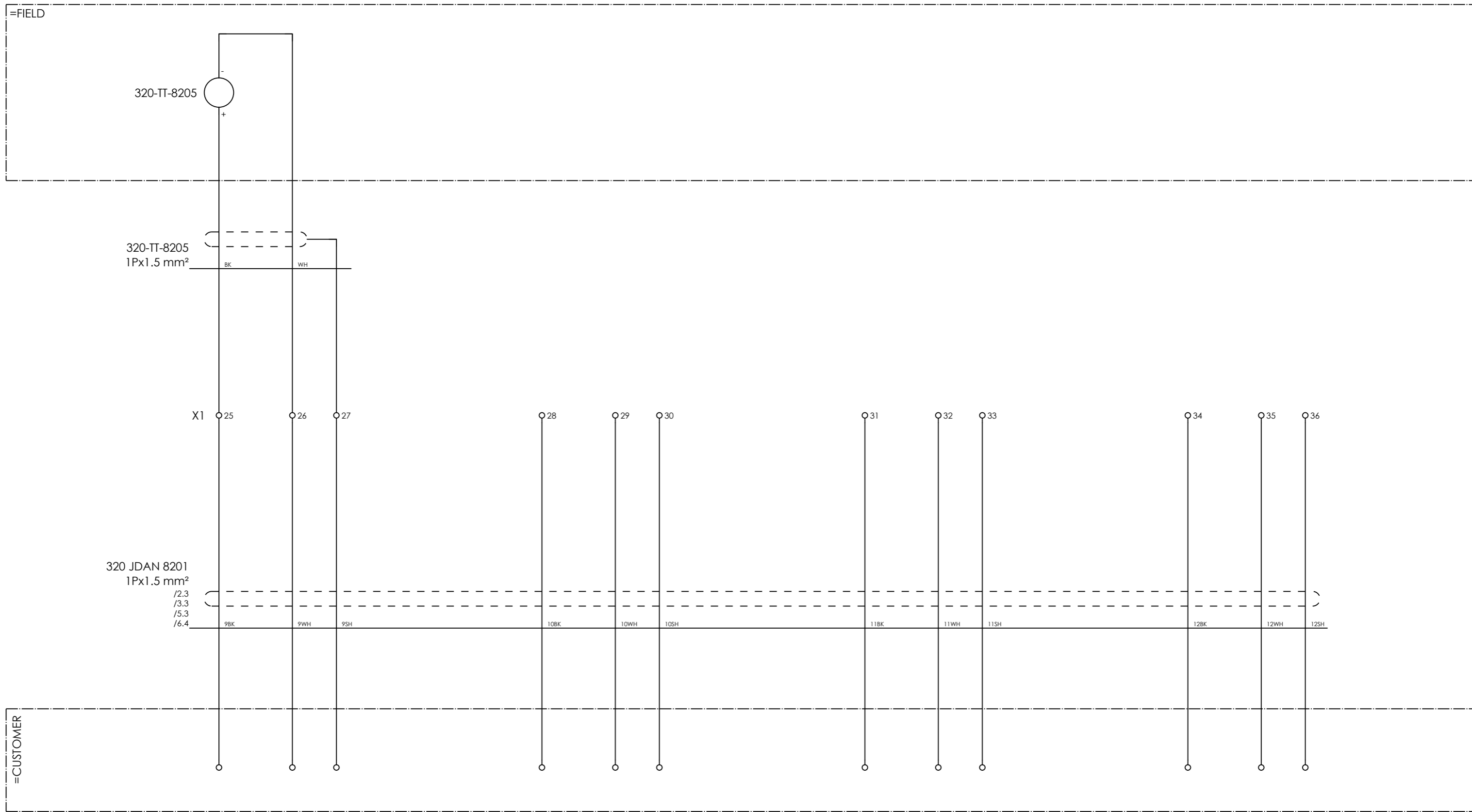


CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT ANALOG TRANSMITTERS	
ADAPTED TO P&ID REVISION	02
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA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

DRAWN BY	RTR
CHECKED BY	RBE
LAST MODIFICATION DATE	2023-11-03
AIRPACK DWG NO.	17735-05
REVISION	01
TOTAL PAGE AMOUNT	12

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



TEMPERATURE TRANSMITTER  
320-TT-8205

SPARE

SPARE

SPARE

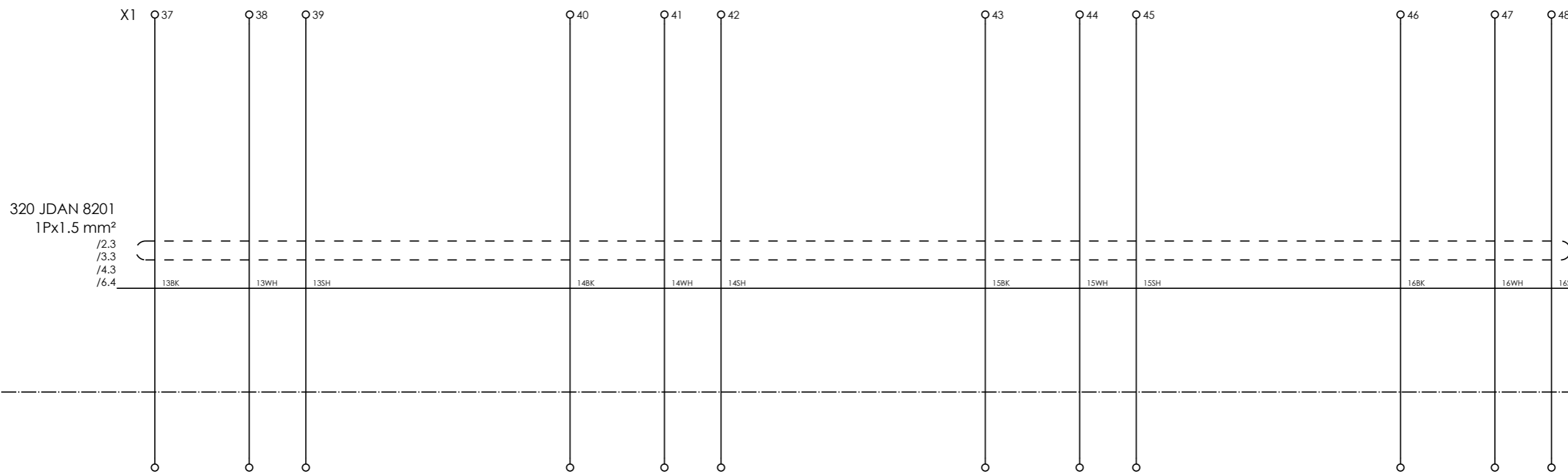


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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT ANALOG TRANSMITTERS	
ADAPTED TO P&ID REVISION	02
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL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

DRAWN BY	RTR	= 320-K-020
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AIRPACK DWG NO.	17735-05	
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=FIELD



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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	
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

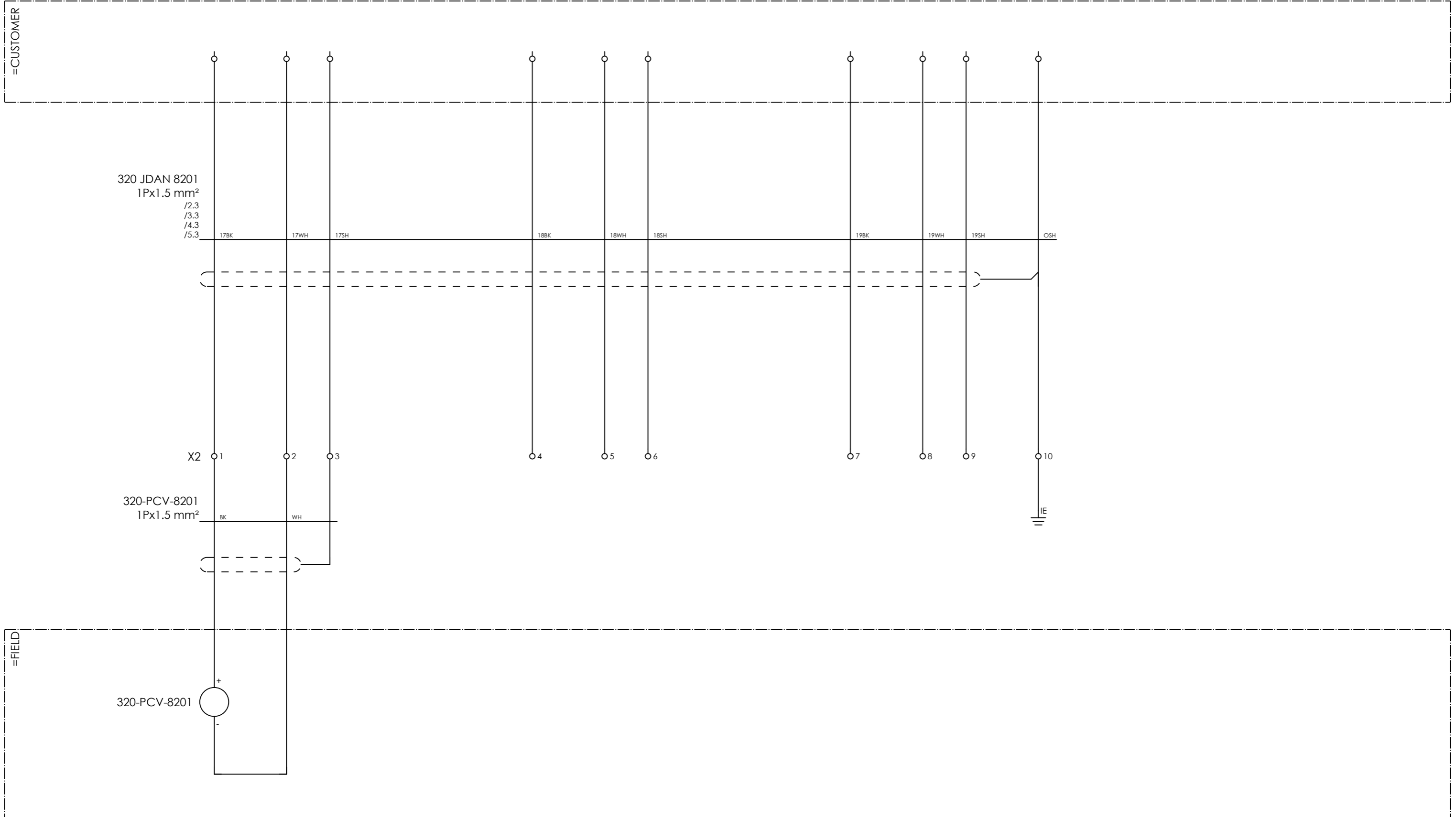
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LAST MODIFICATION DATE	2023-11-03
AIRPACK DWG NO.	17735-05
REVISION	01
TOTAL PAGE AMOUNT	14

= 320-K-020
+ 320-JB-8201
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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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SUBJECT PRESSURE CONTROL VALVE	
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
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LAST MODIFICATION DATE	2023-11-03
AIRPACK DWG NO.	17735-05
REVISION	01
TOTAL PAGE AMOUNT	15

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



# Terminal diagram

Cable name		Strip		Terminal		Jumper		Target designation		Connection point		Cable name	
-320-JDAN8201		1Px1.5 mm²		=320-K-020+320-JB-8201-X1		CONNECTION ANALOG TRANSMITTERS TO CLIENT		Connection point		Target designation		-320-TT-8205	
												1Px1.5 mm²	
												-320-TT-8204	
												1Px1.5 mm²	
												-320-TT-8203	
												1Px1.5 mm²	
												-320-TT-8202	
												BK	
												WH	
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