



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

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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)**

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

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2	X	X				27						52						77					
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4	X	X				29						54						79					
5	X	X				30						55						80					
6	X	X				31						56						81					
7	X	X				32						57						82					
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12	X	X				37						62						87					
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16	X	X				41						66						91					
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					
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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.	: 02
Last modifications	:	2023-12-07		
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

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CHECKED BY	RBE	+
LAST MODIFICATION DATE	2023-12-07	
AIRPACK DWG NO.	17735-05	
REVISION	02	
TOTAL PAGE AMOUNT	1	

CURRENT PAGE	1
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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


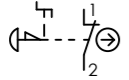


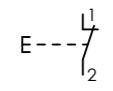
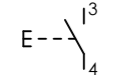


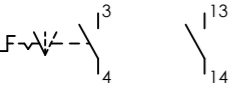
SIGNAL PAIRS

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	2023-12-07	CURRENT PAGE
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		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	02	
		AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	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		

320-LPS-8201

LOCAL PUSHBUTTON STATION

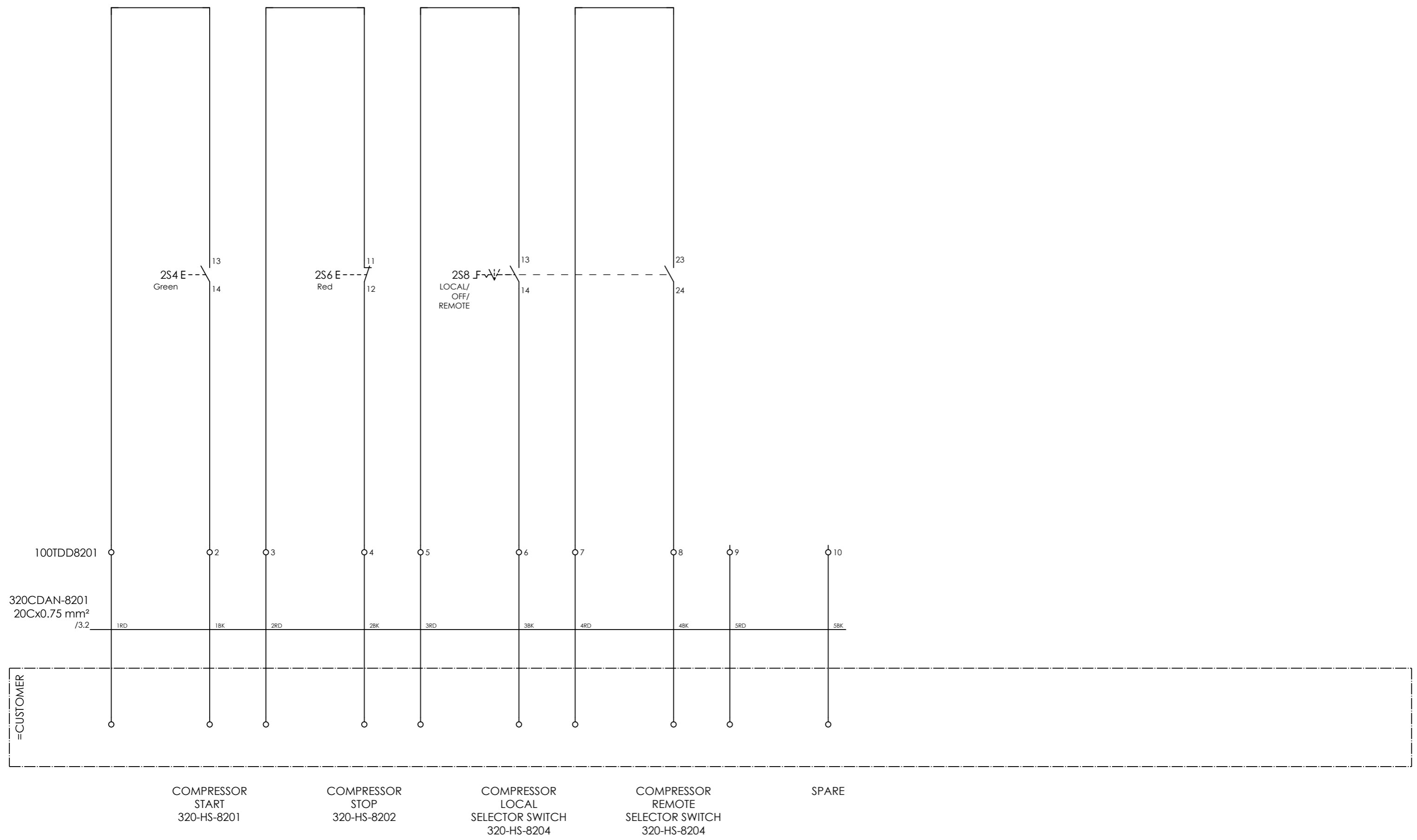
TERMINAL STRIP DEFINITION

100TDD8201 = CONNECTION PUSHBUTTONS AND LAMPS

400TED8201 = CONNECTION ESD PUSHBUTTON



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	EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	2023-12-07	CURRENT PAGE
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	AIRPACK REF.	17735-05 Wiring Diagram	REVISION	02	TOTAL PAGE AMOUNT	5	

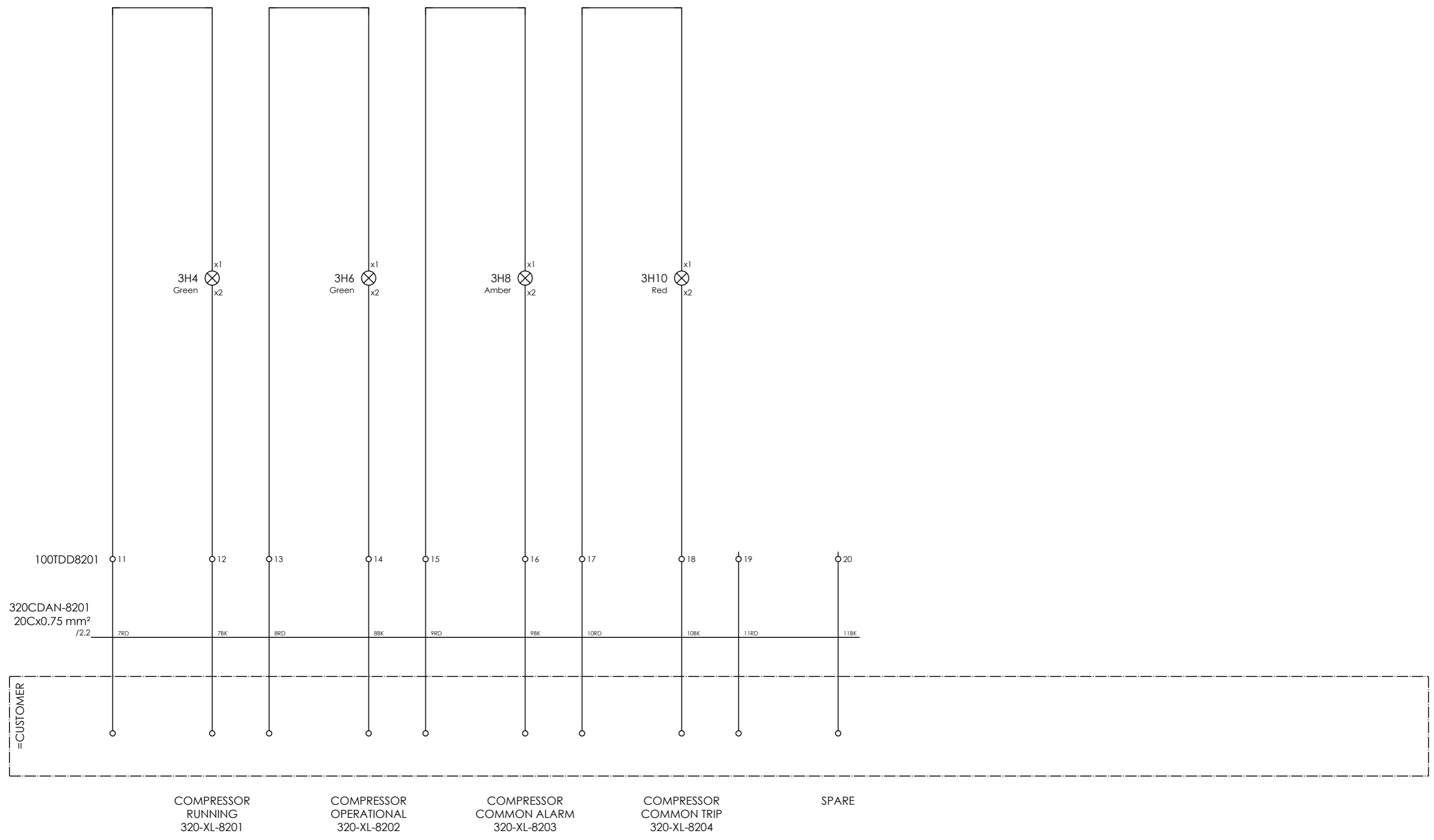


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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

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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LAST MODIFICATION DATE	2023-12-07
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REVISION	02
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+ 320-LPS-8201
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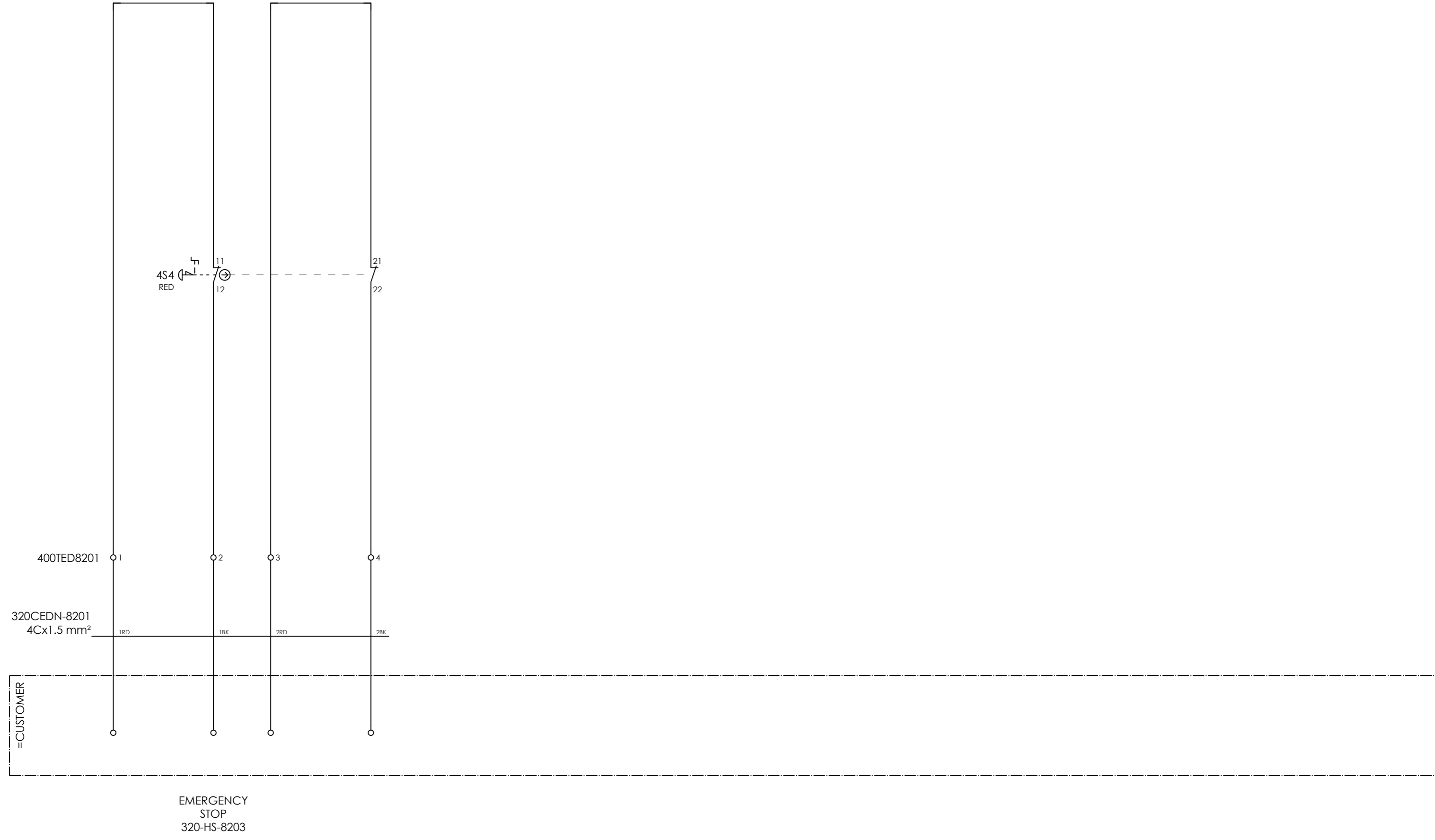


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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

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	2023-12-07
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REVISION	02
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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
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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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 AIRPACK DWG NO. 17735-05
 REVISION 02
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 + 320-LPS-8201
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320-JB-8201

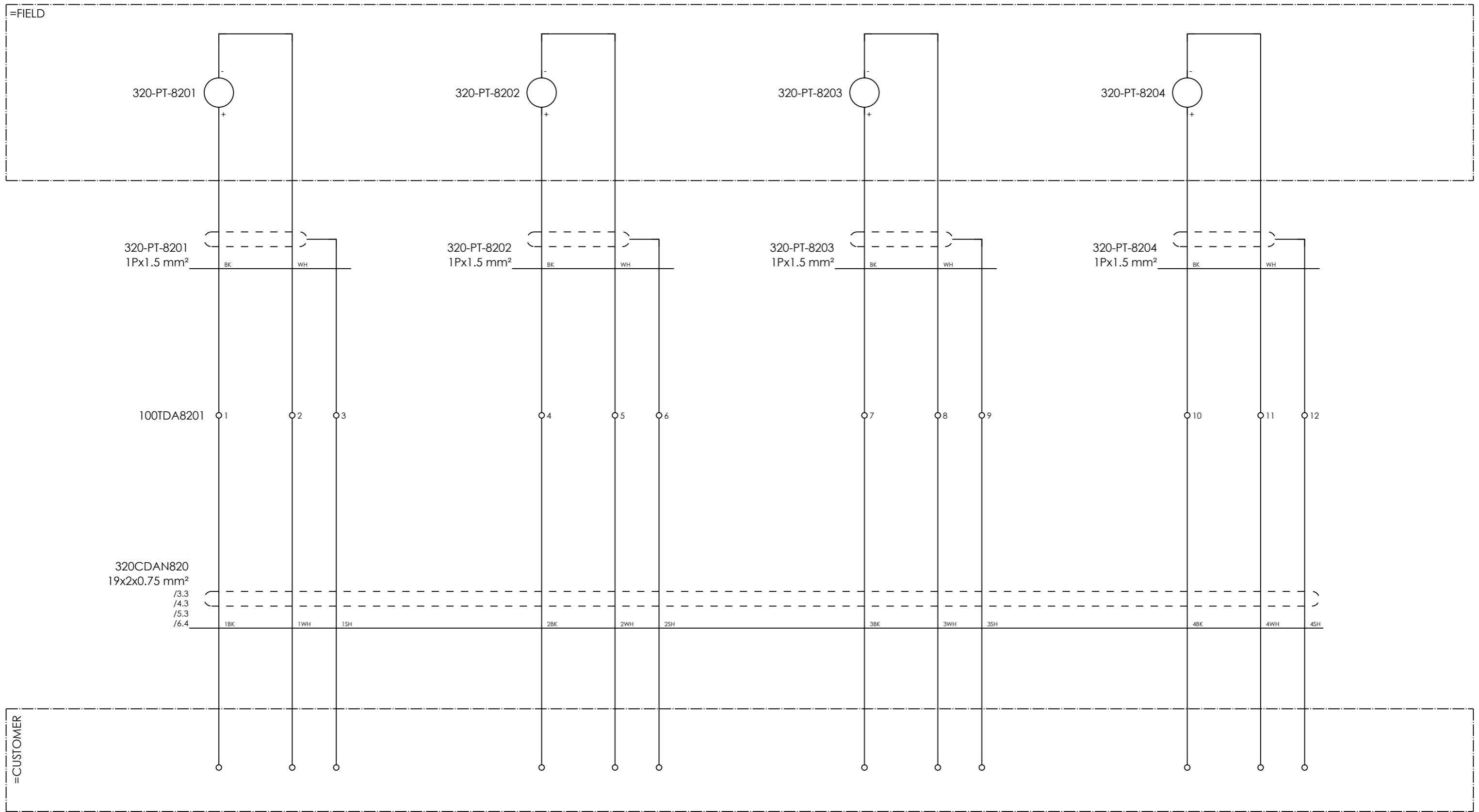
ANALOG JUNCTION BOX

TERMINAL STRIP DEFINITION

100TDA8201 = CONNECTION ANALOG TRANSMITTERS TO CLIENT

100TDA8202 = 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	
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			CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT		REVISION	02	
AIRPACK REF.	17735-05 Wiring Diagram		TOTAL PAGE AMOUNT	11				



PRESSURE TRANSMITTER
320-PT-8201

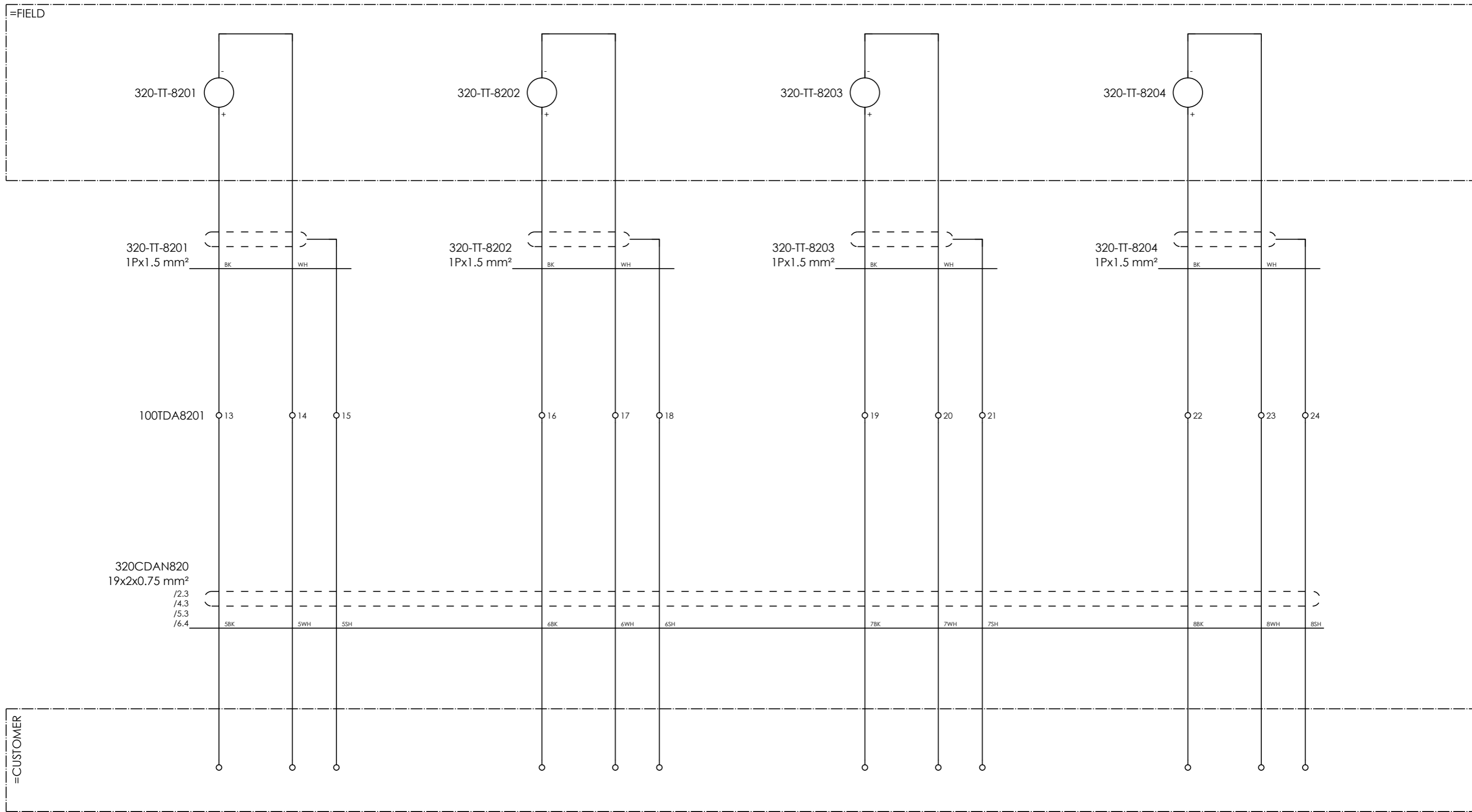
PRESSURE TRANSMITTER
320-PT-8202

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
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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

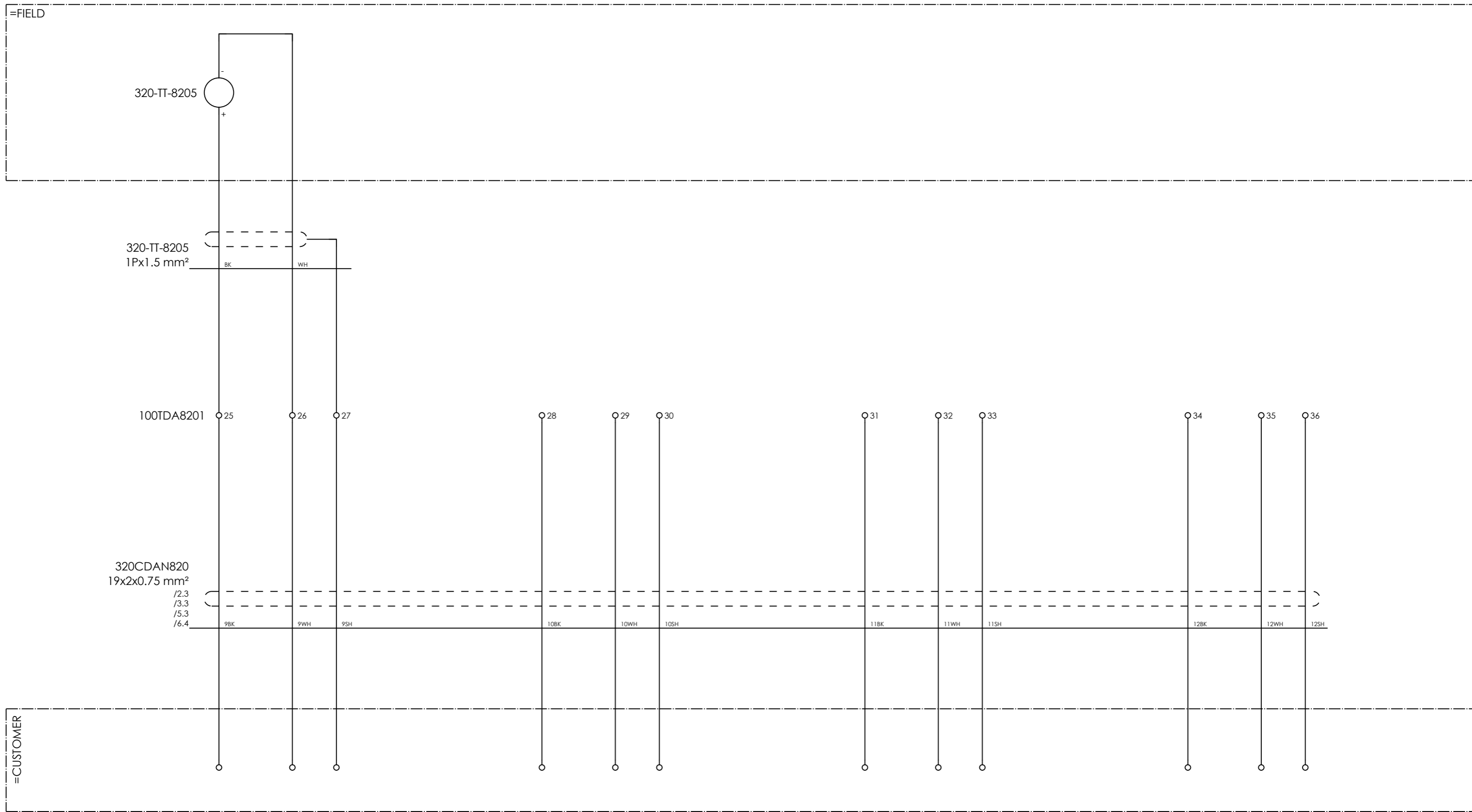


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SUBJECT ANALOG TRANSMITTERS	
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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LAST MODIFICATION DATE	2023-12-07
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= 320-K-020
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TEMPERATURE
TRANSMITTER
320-TT-8205

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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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
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AIRPACK REF.	17735-05 Wiring Diagram

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=FIELD

100TDA8201

○ 37

○ 38

○ 39

○ 40

○ 41

○ 42

○ 43

○ 44

○ 45

○ 46

○ 47

○ 48

320CDAN820
19x2x0.75 mm²

/2.3
/3.3
/4.3
/6.4

13BK

13WH

13SH

14BK

14WH

14SH

15BK

15WH

15SH

16BK

16WH

16SH

=CUSTOMER

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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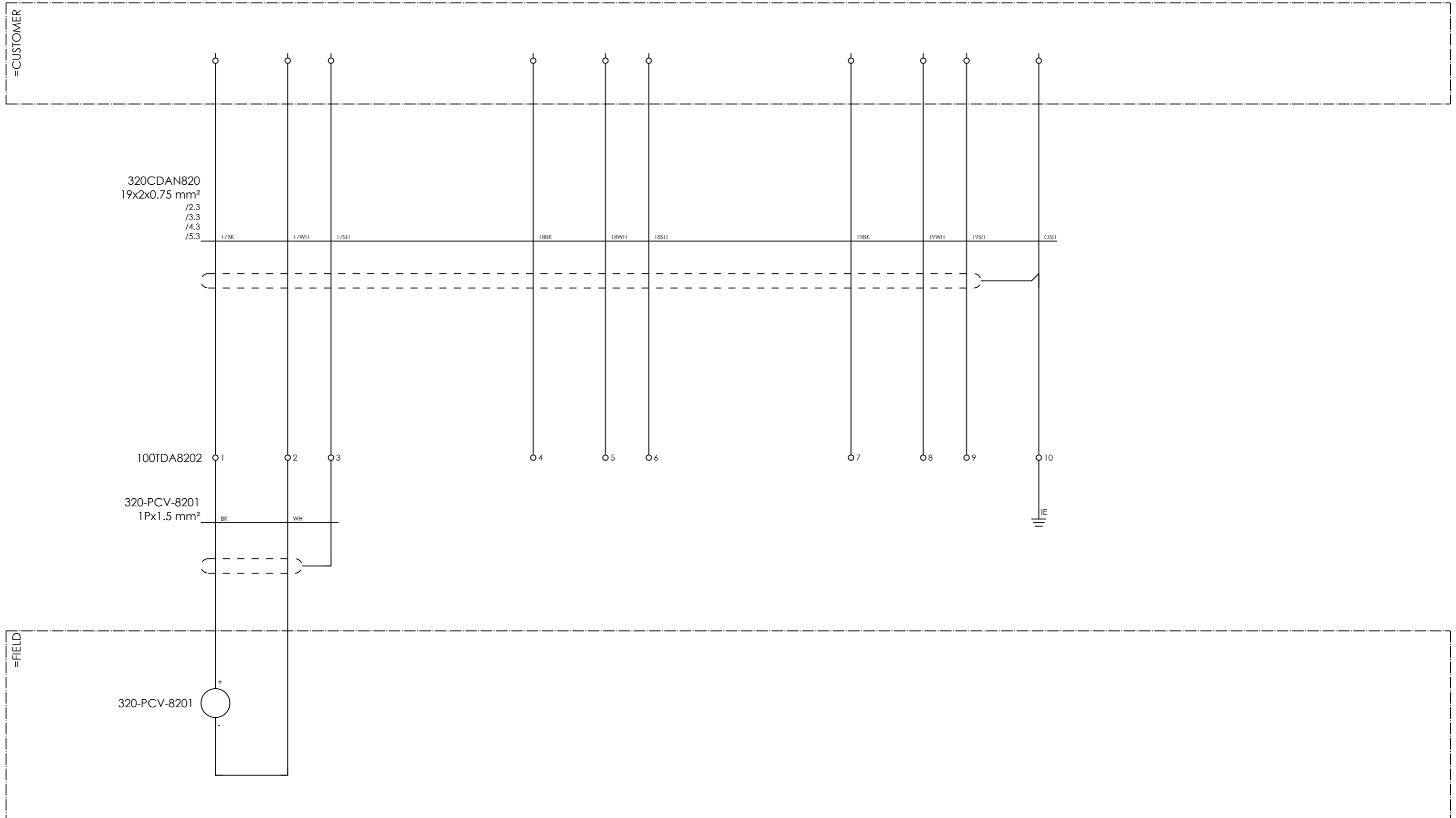
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
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PRESSURE CONTROL VALVE
320-PCV-8201

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	
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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
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