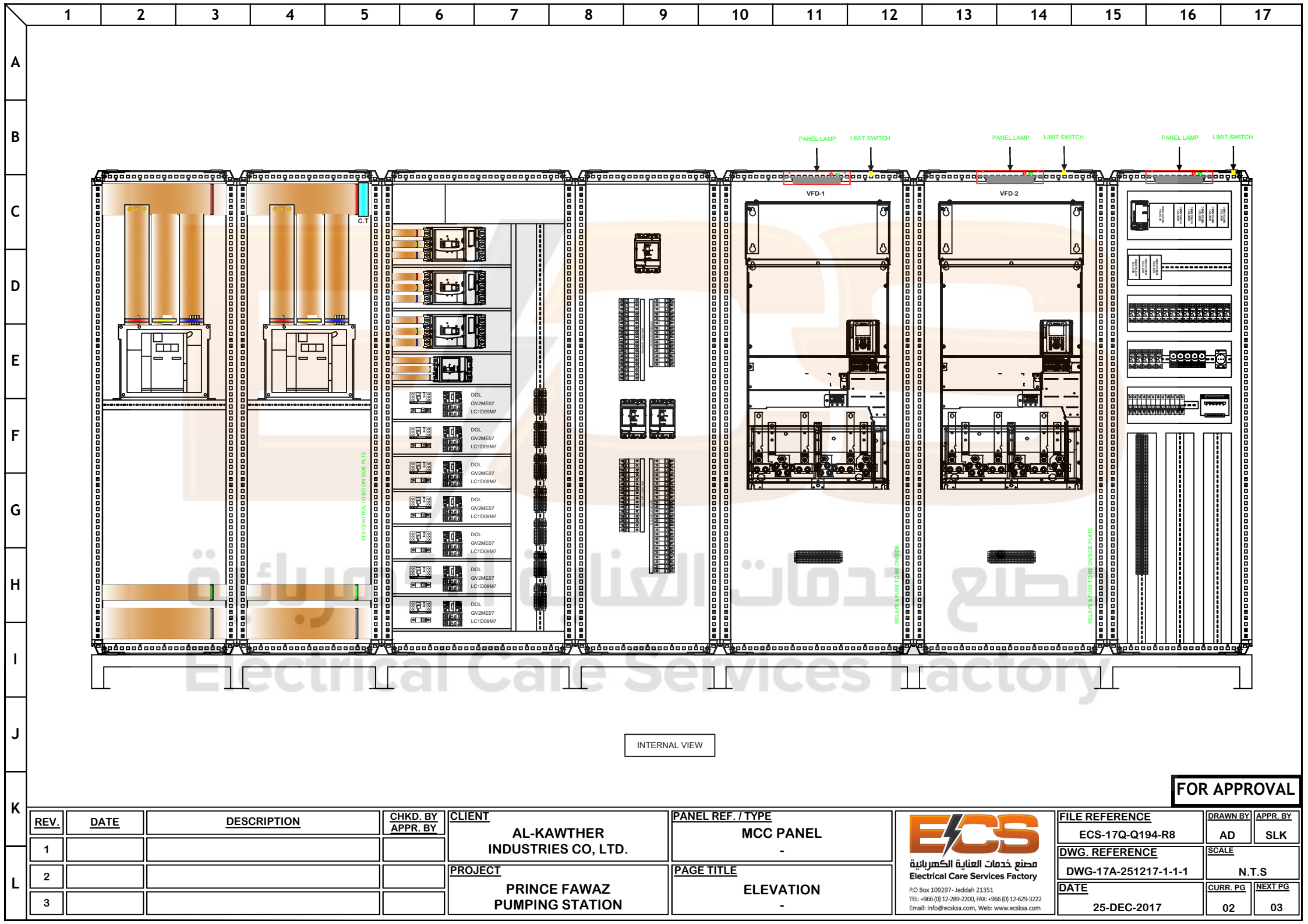




INTERNAL VIEW

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CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

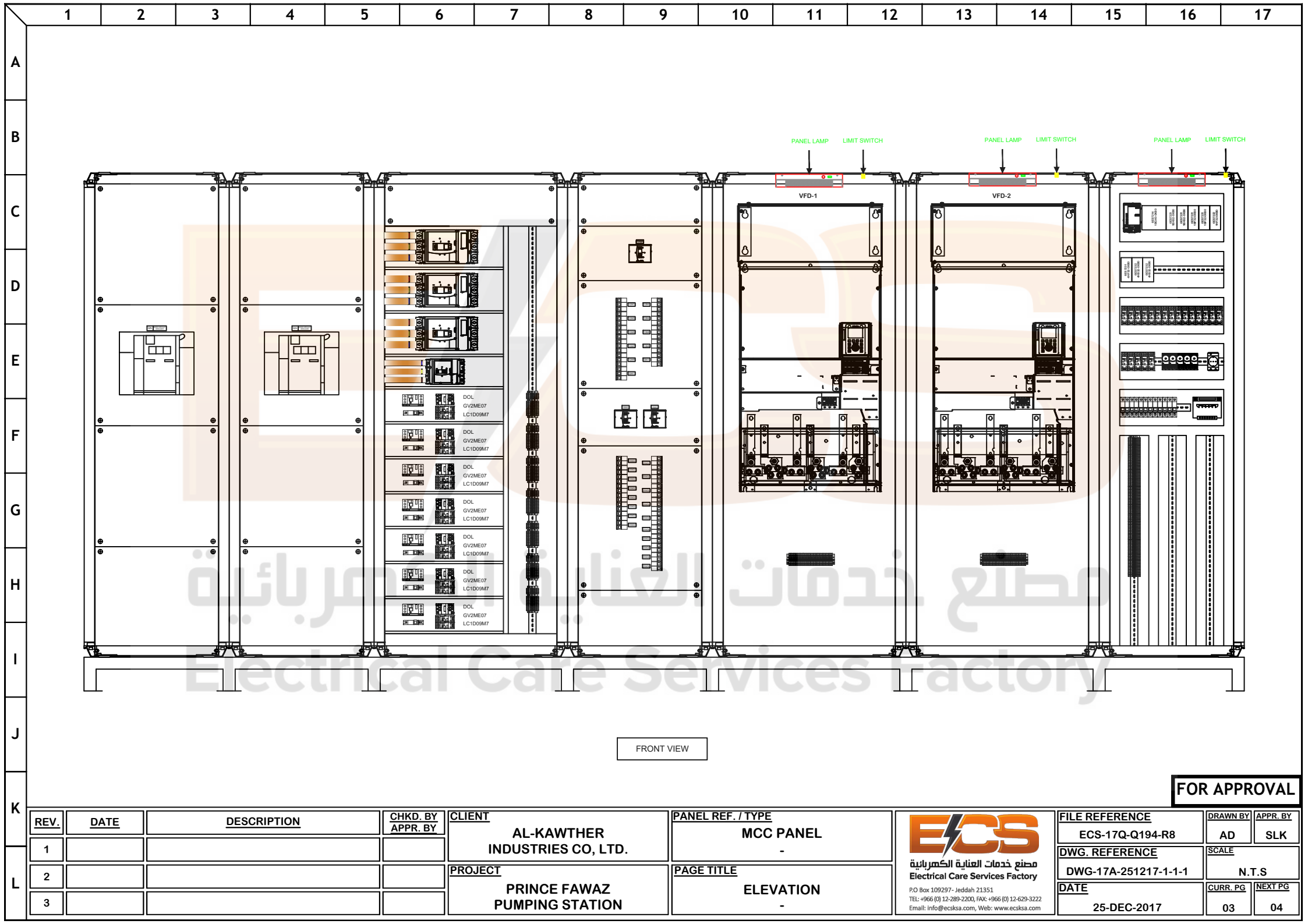
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PAGE TITLE	ELEVATION -



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DATE	25-DEC-2017	CURR. PG	02	NEXT PG	03



FRONT VIEW

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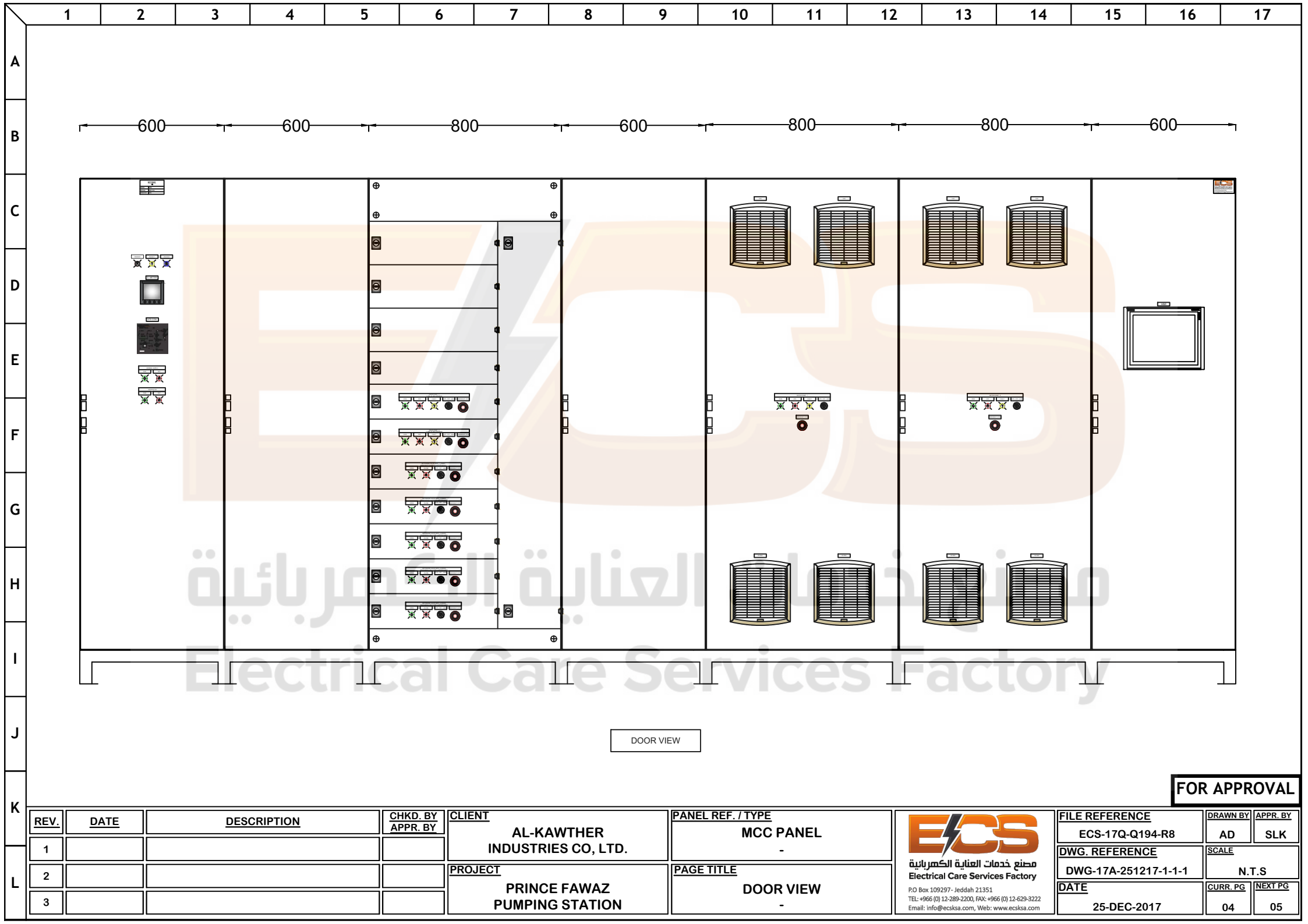
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PROJECT	PRINCE FAWAZ PUMPING STATION

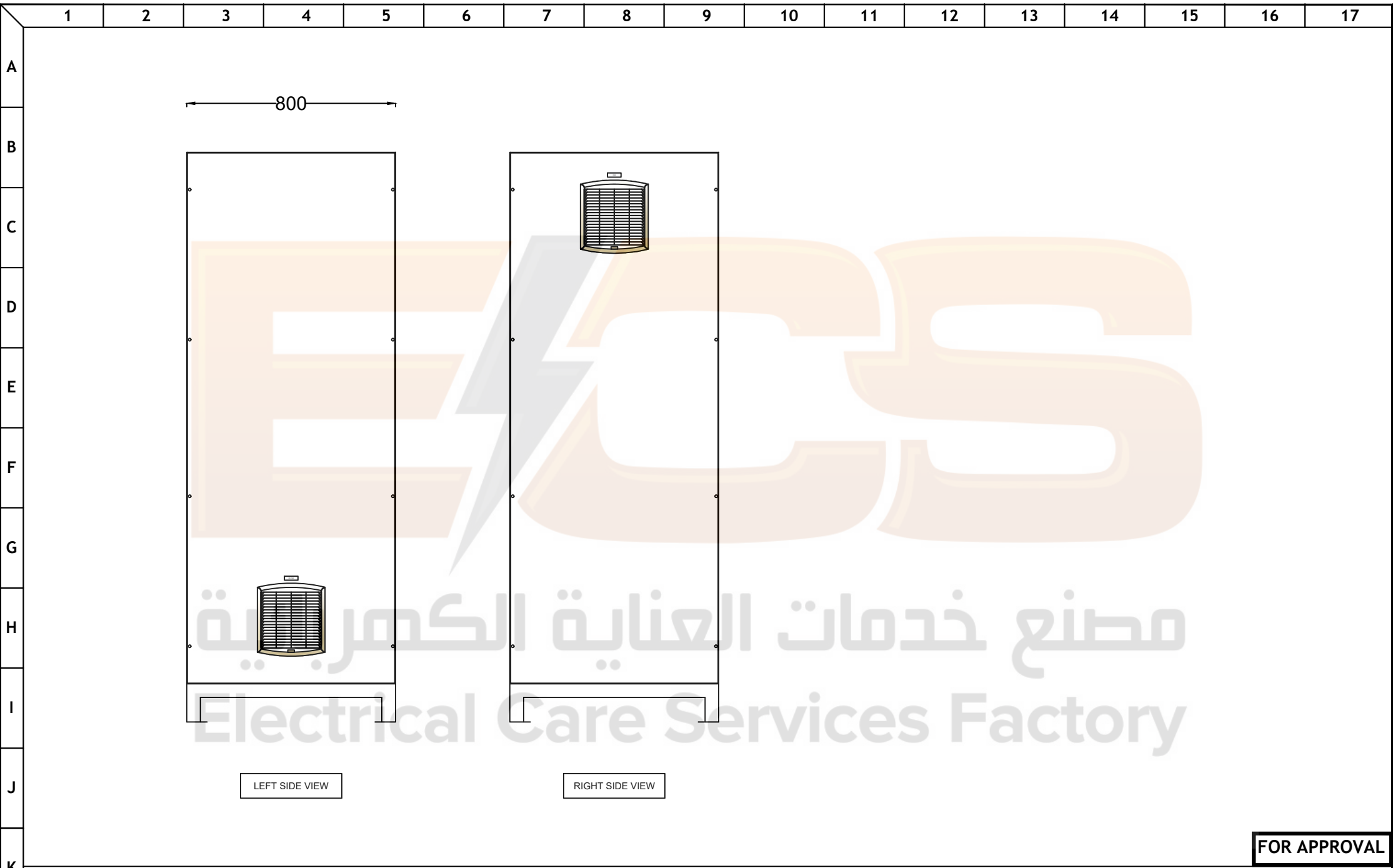
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DATE	25-DEC-2017	CURR. PG	03	NEXT PG	04





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PANEL REF. / TYPE	MCC PANEL -
PAGE TITLE	SIDE VIEW -



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DWG. REFERENCE	DWG-17A-251217-1-1-1	SCALE	N.T.S		
DATE	25-DEC-2017	CURR. PG	05	NEXT PG	06

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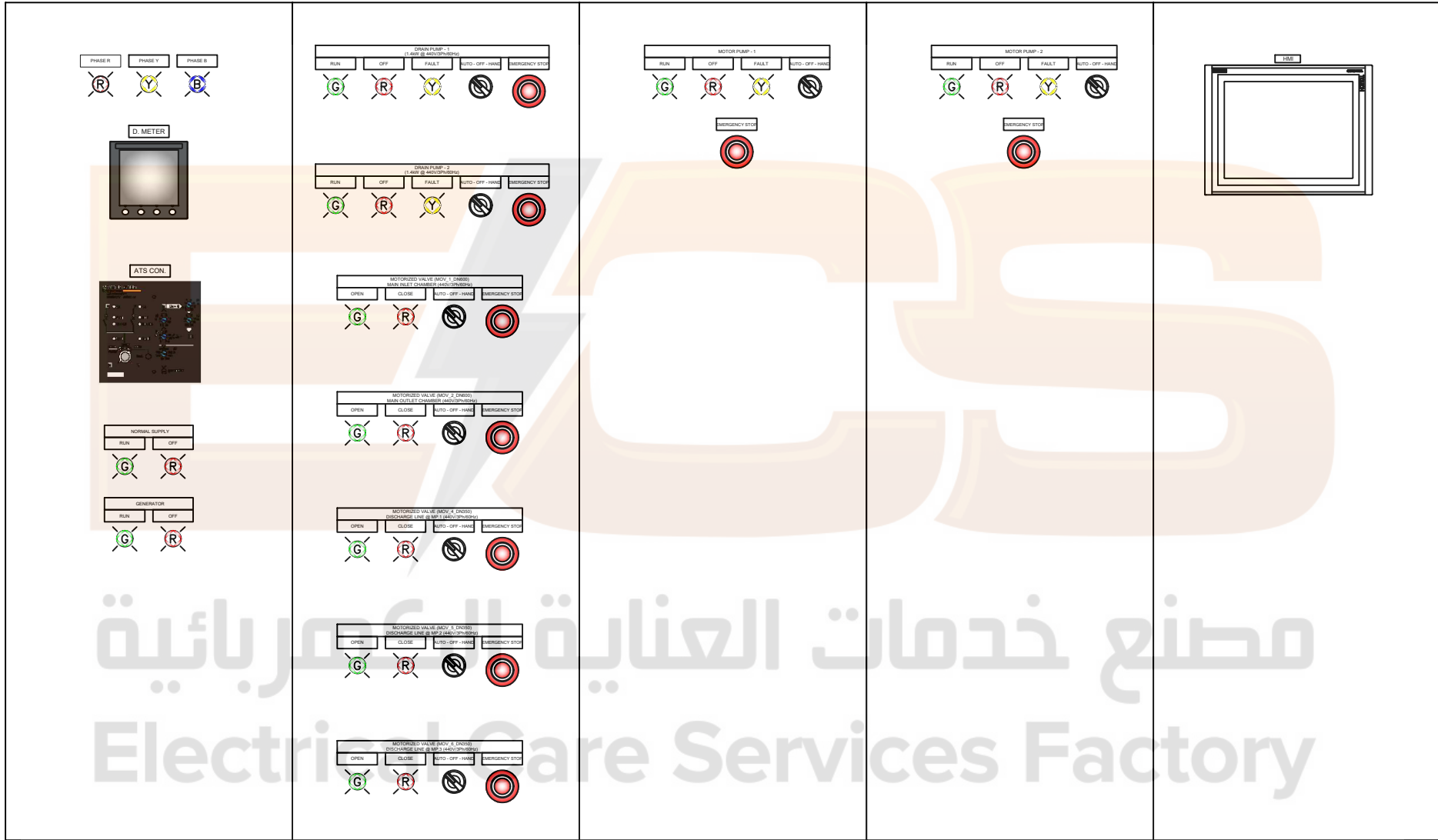
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PROJECT	PRINCE FAWAZ PUMPING STATION

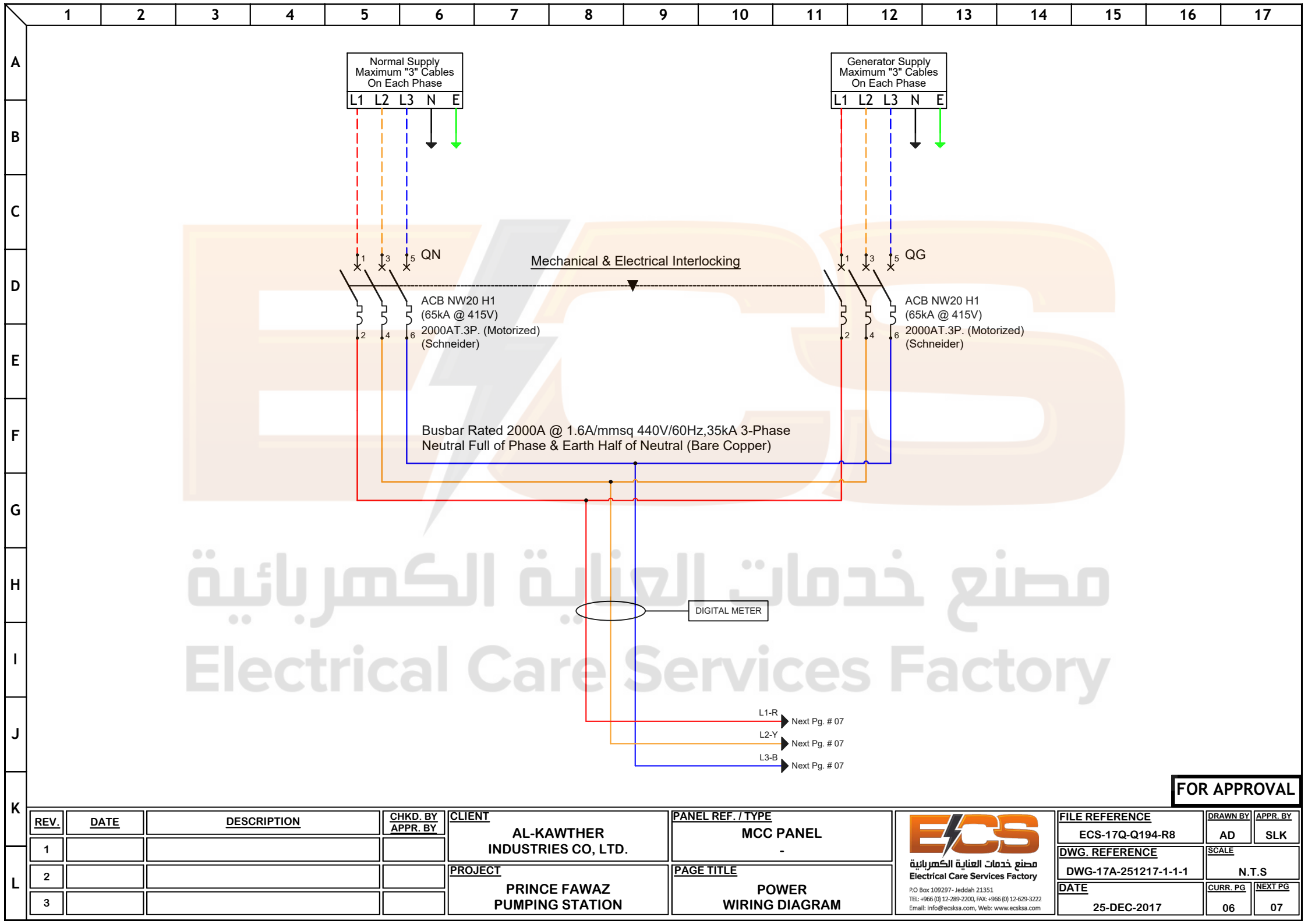
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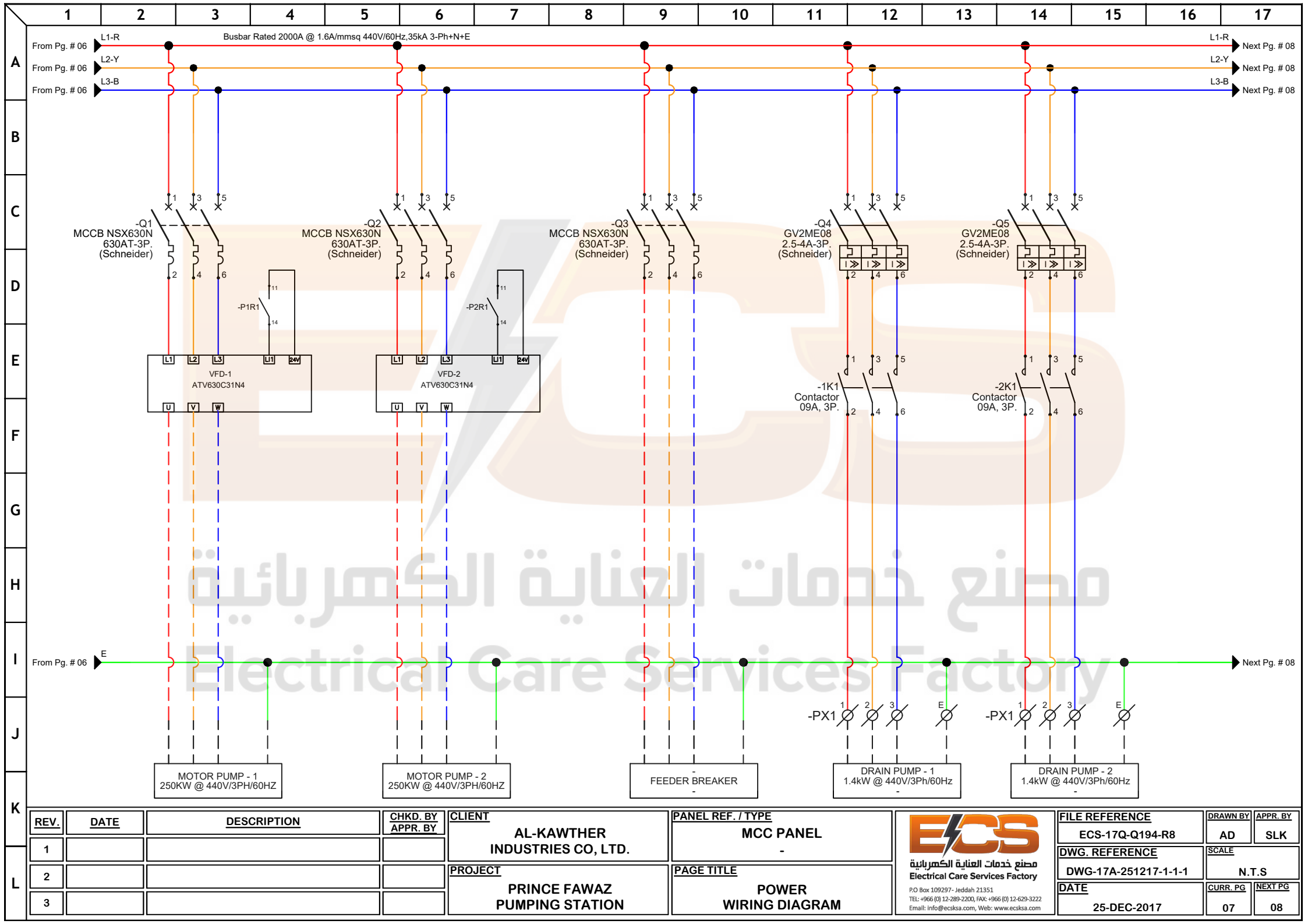


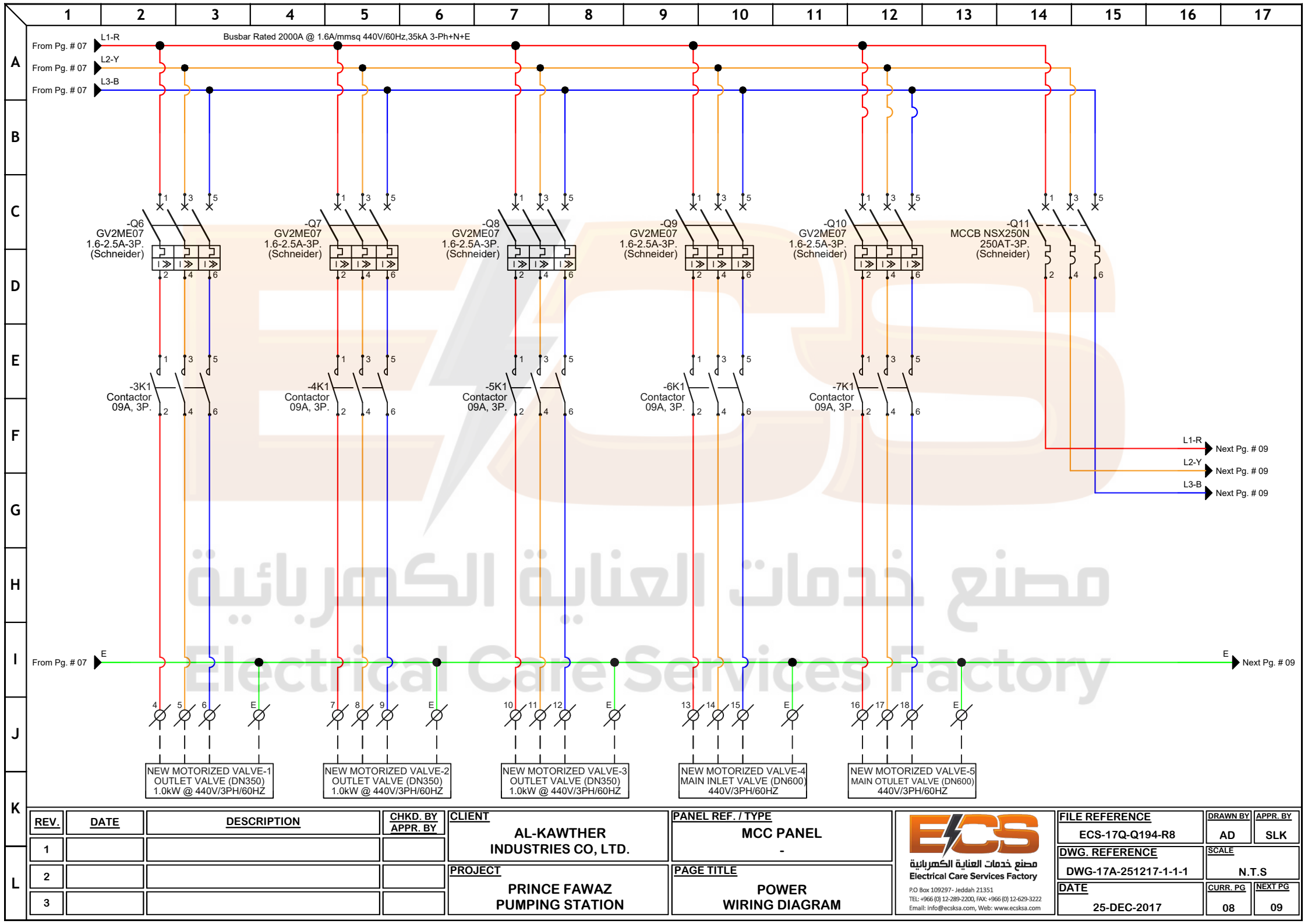
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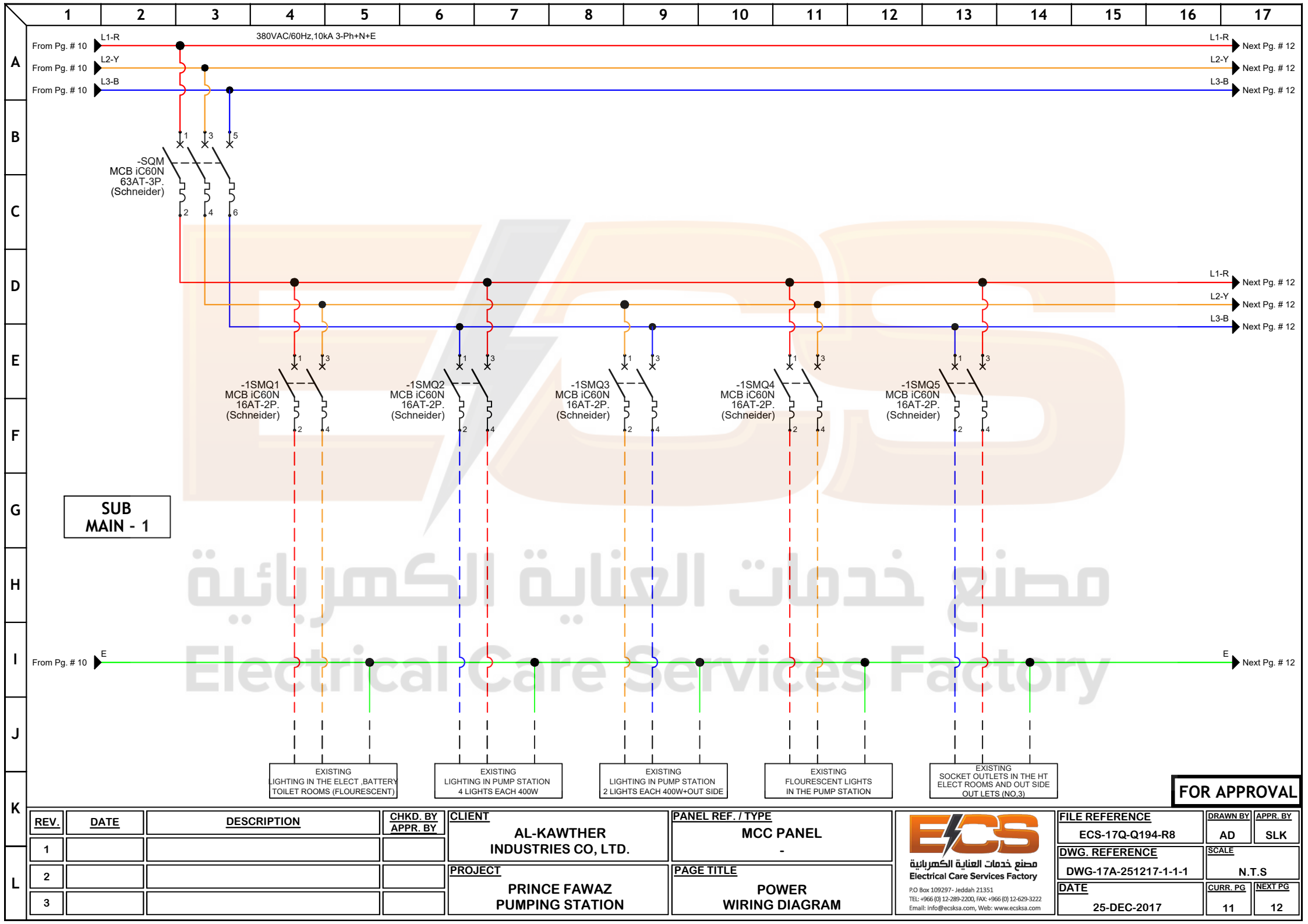
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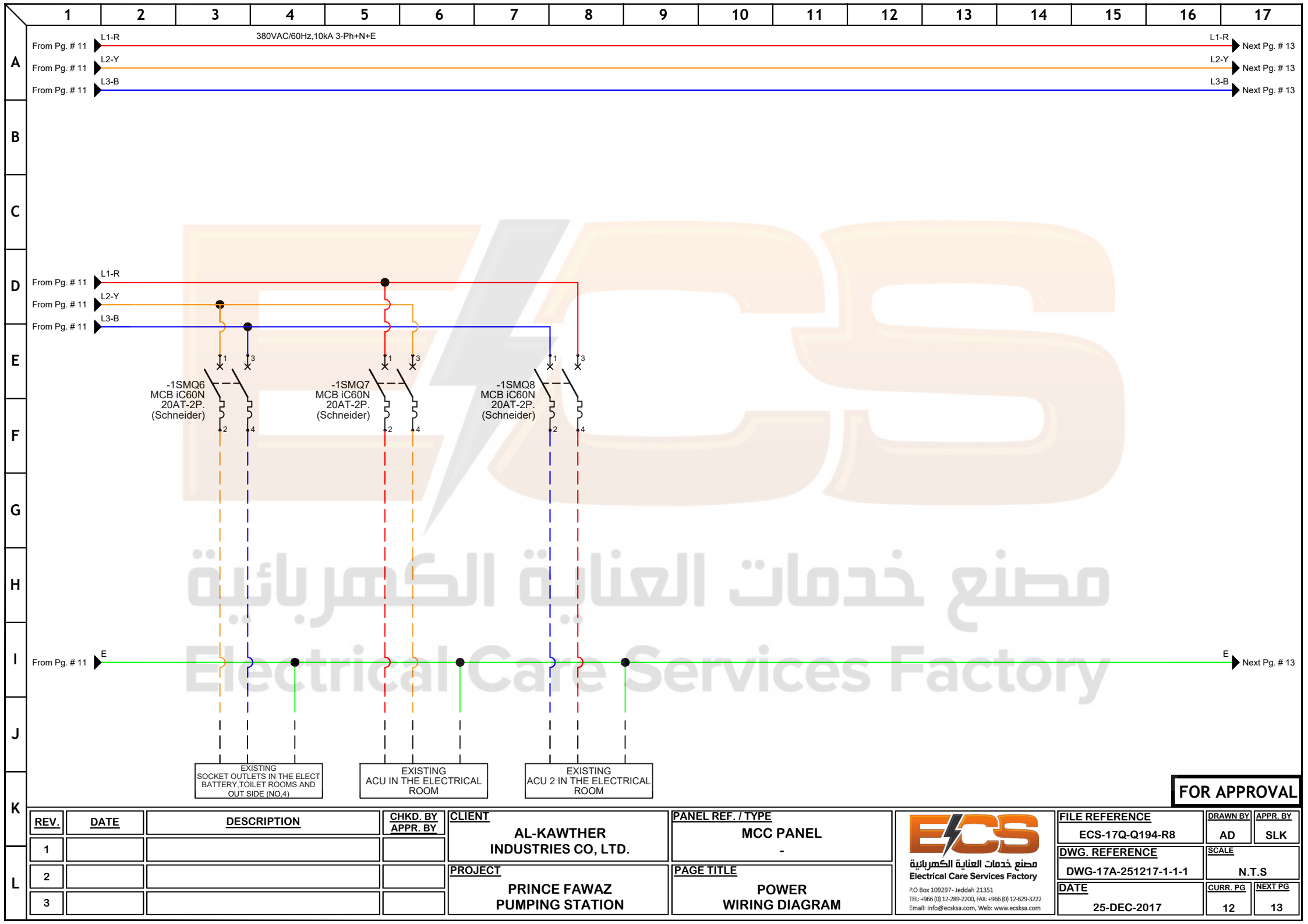
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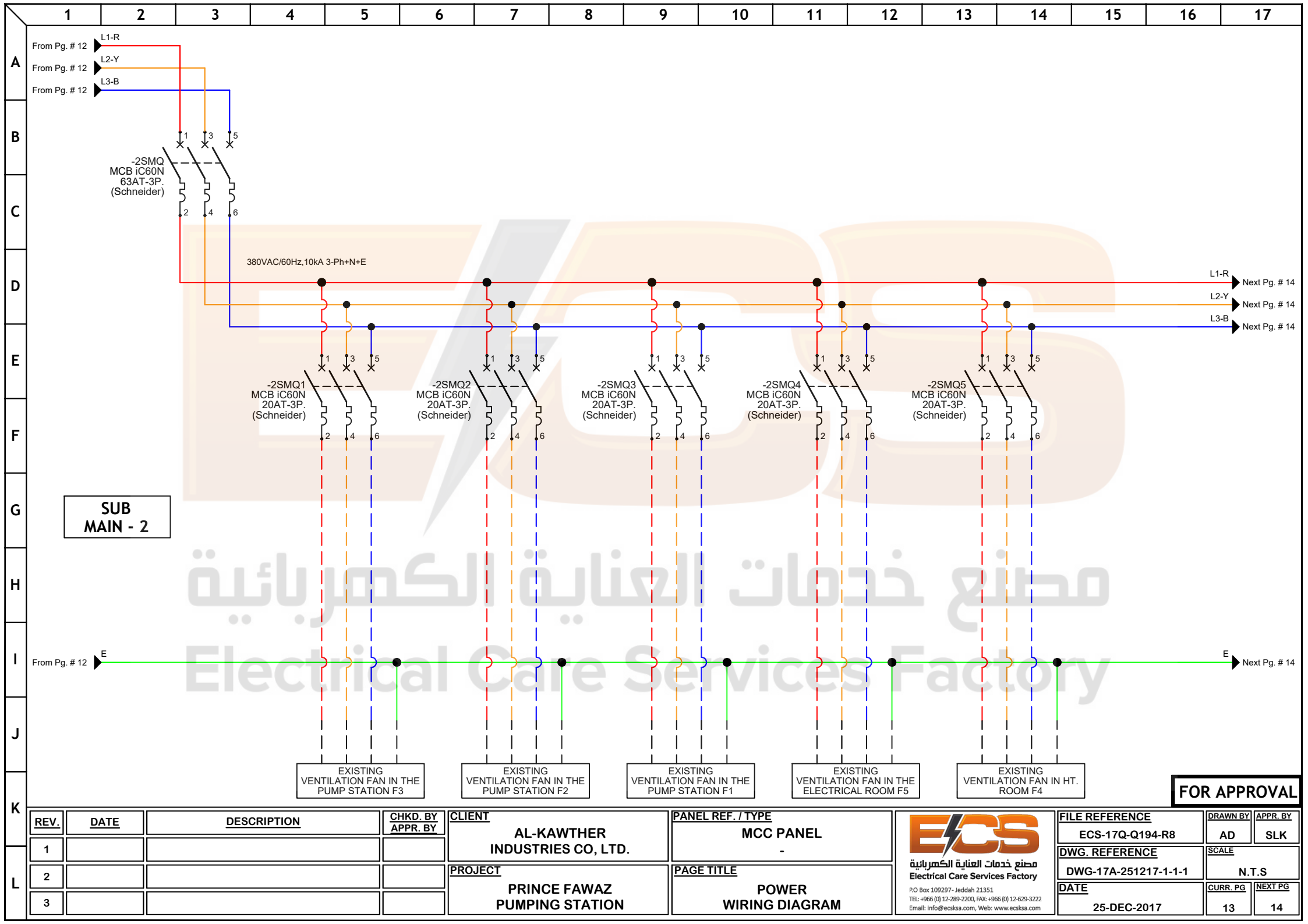
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PANEL REF. / TYPE	PAGE TITLE
MCC PANEL -	POWER WIRING DIAGRAM

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DATE	CURR. PG	NEXT PG
25-DEC-2017	11	12





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CLIENT	PROJECT
AL-KAWTHER INDUSTRIES CO, LTD.	PRINCE FAWAZ PUMPING STATION

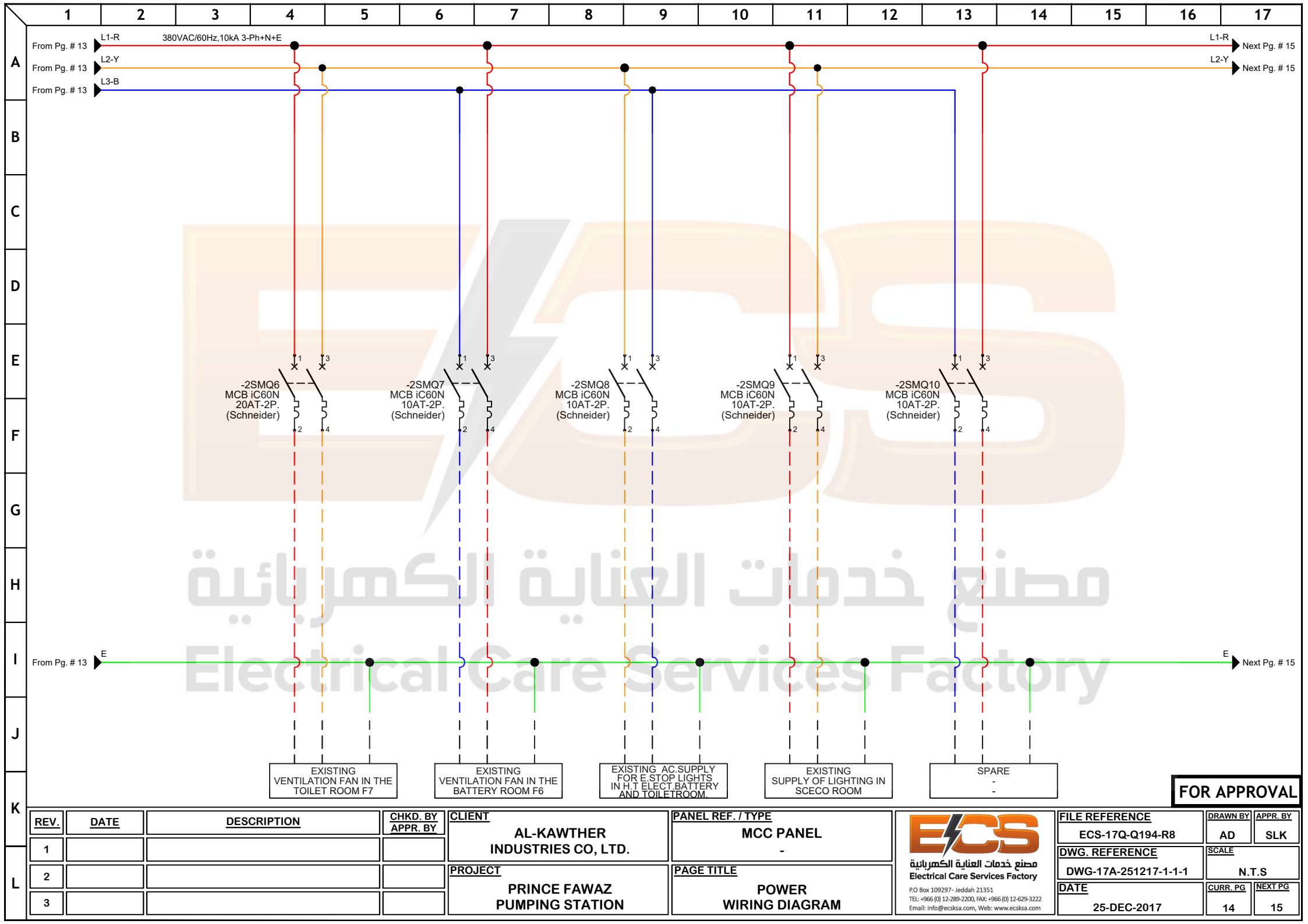
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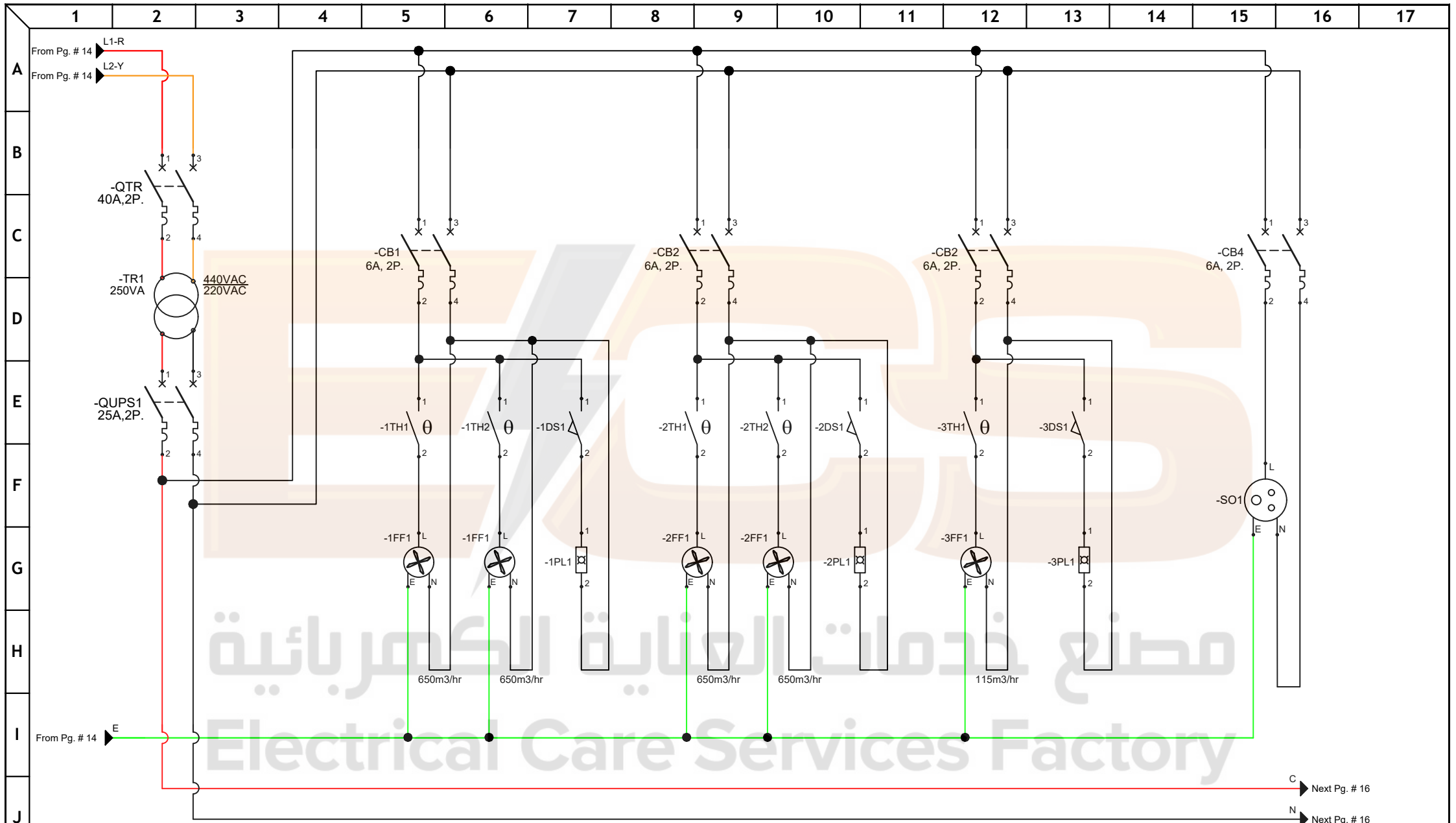


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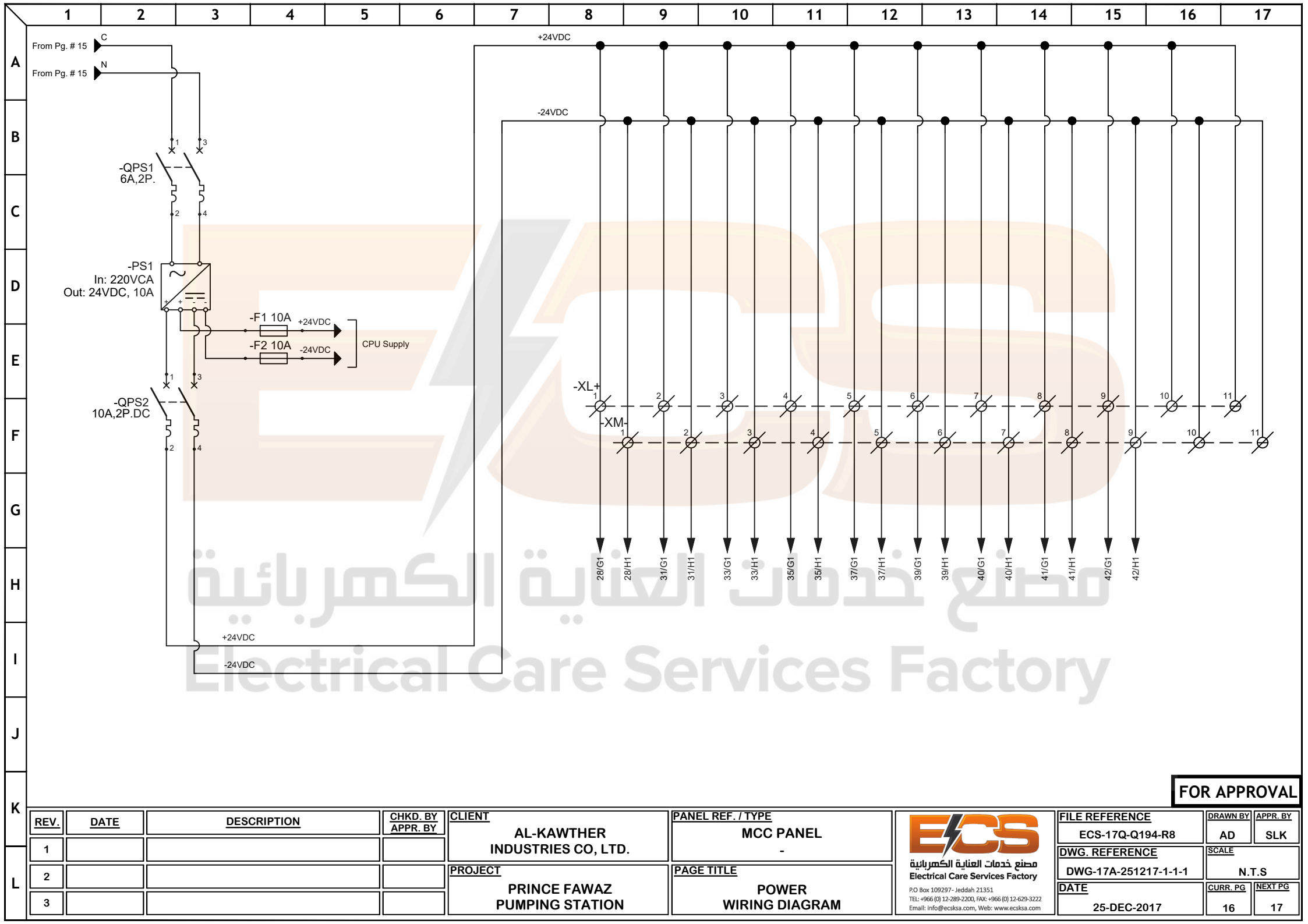
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CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

PANEL REF. / TYPE	MCC PANEL -
PAGE TITLE	POWER WIRING DIAGRAM

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DATE	25-DEC-2017	CURR. PG	15	NEXT PG	16



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CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

PANEL REF. / TYPE	MCC PANEL -
PAGE TITLE	POWER WIRING DIAGRAM



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DATE	25-DEC-2017	CURR. PG	16	NEXT PG	17

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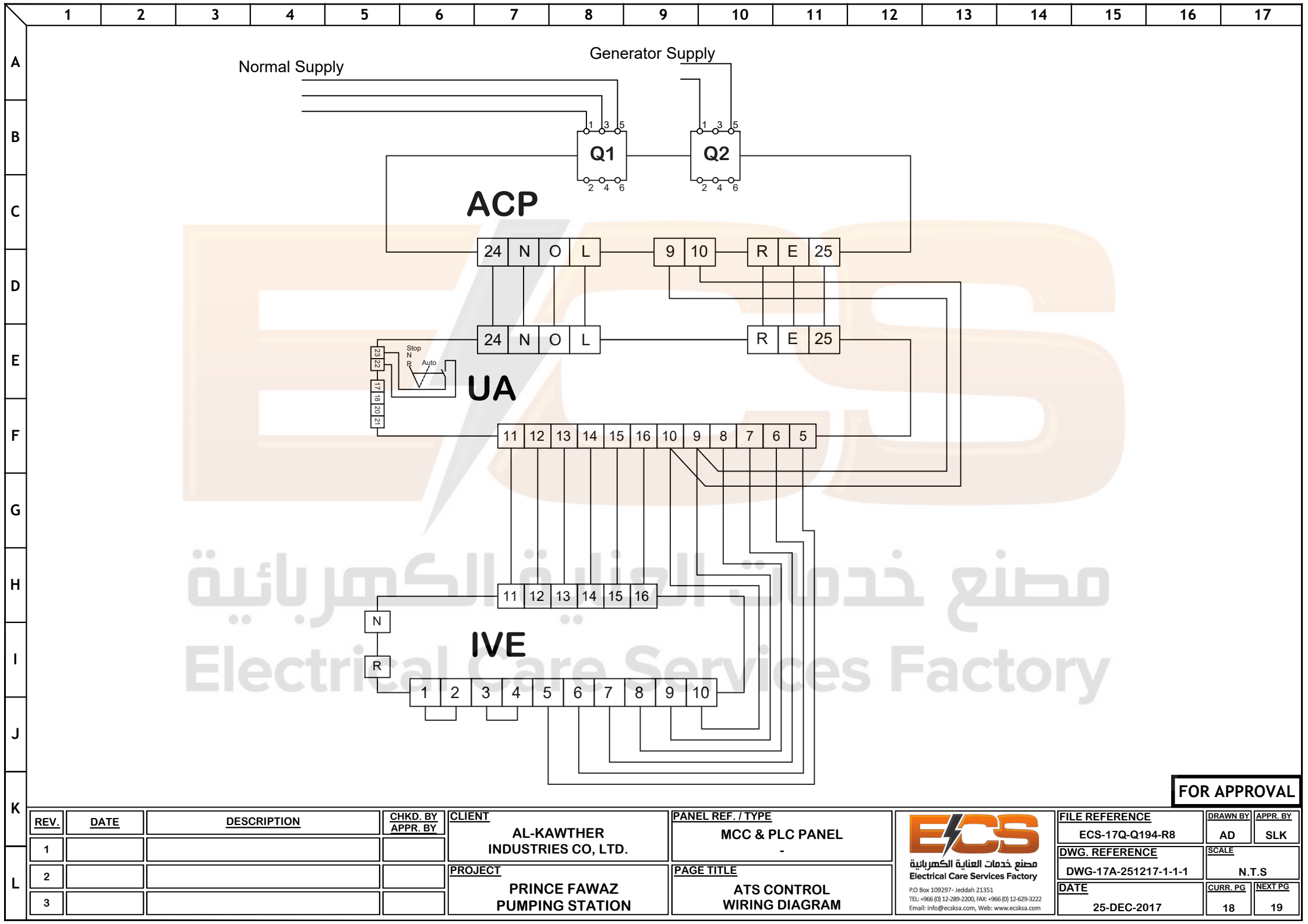
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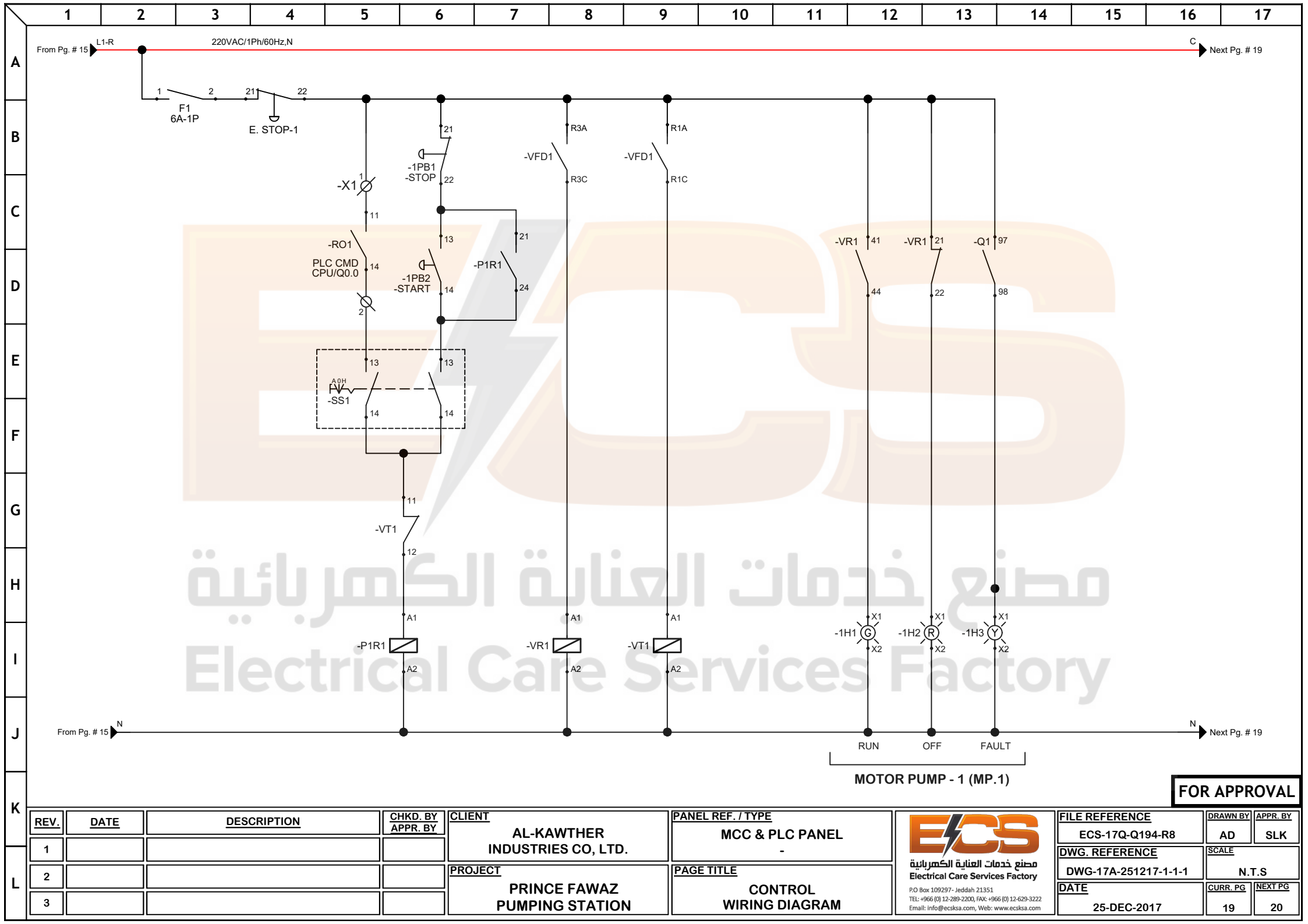
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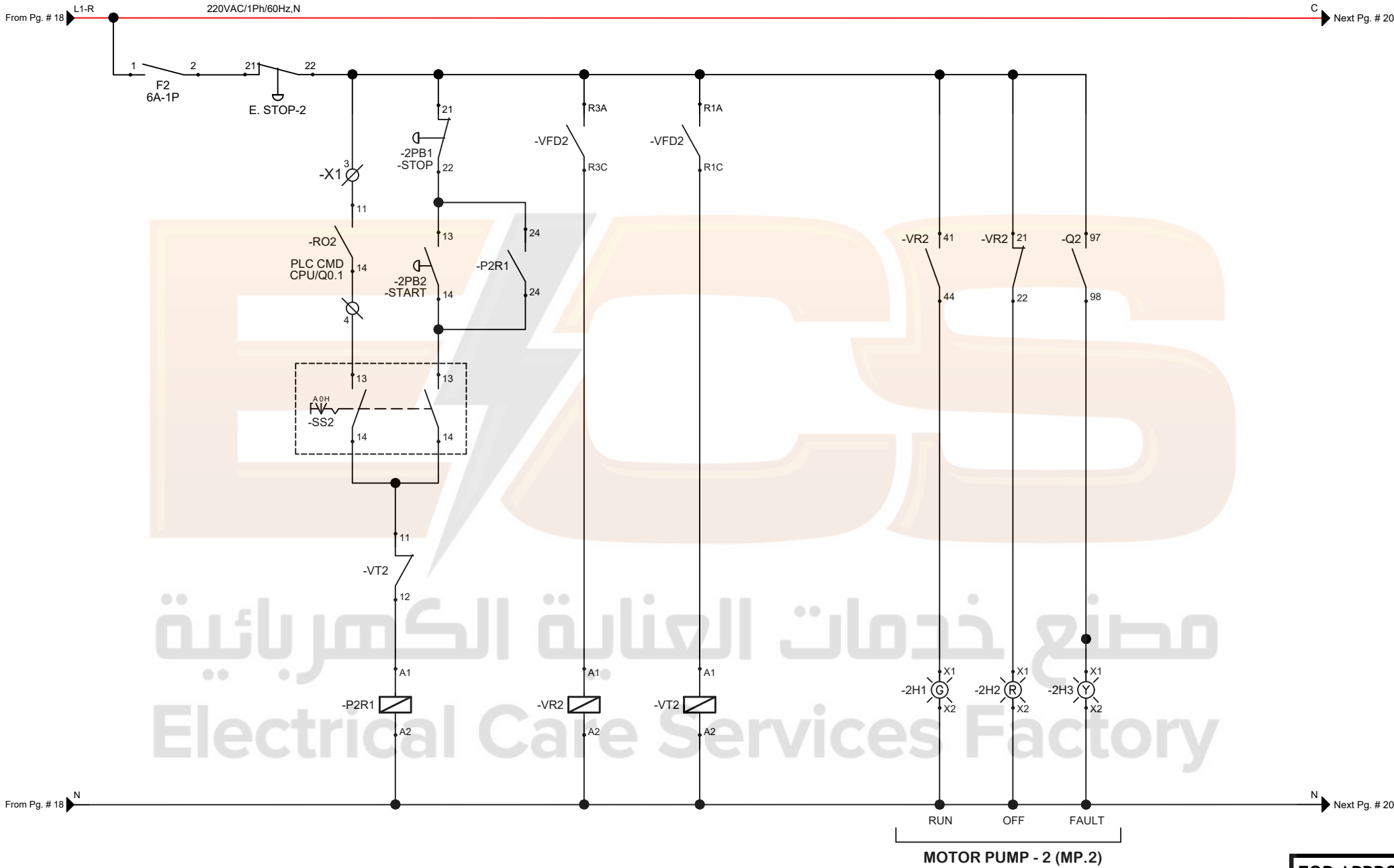
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2				PROJECT	PAGE TITLE		DWG. REFERENCE	SCALE	
3				PRINCE FAWAZ PUMPING STATION	CONTROL WIRING DIAGRAM		DWG-17Q-161217-1-1-0	N.T.S	
							DATE	CURR. PG	NEXT PG
							25-DEC-2017	17	18







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REV.	DATE	DESCRIPTION	CHKD. BY APPR. BY
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CLIENT	PROJECT
AL-KAWTHER INDUSTRIES CO, LTD.	PRINCE FAWAZ PUMPING STATION

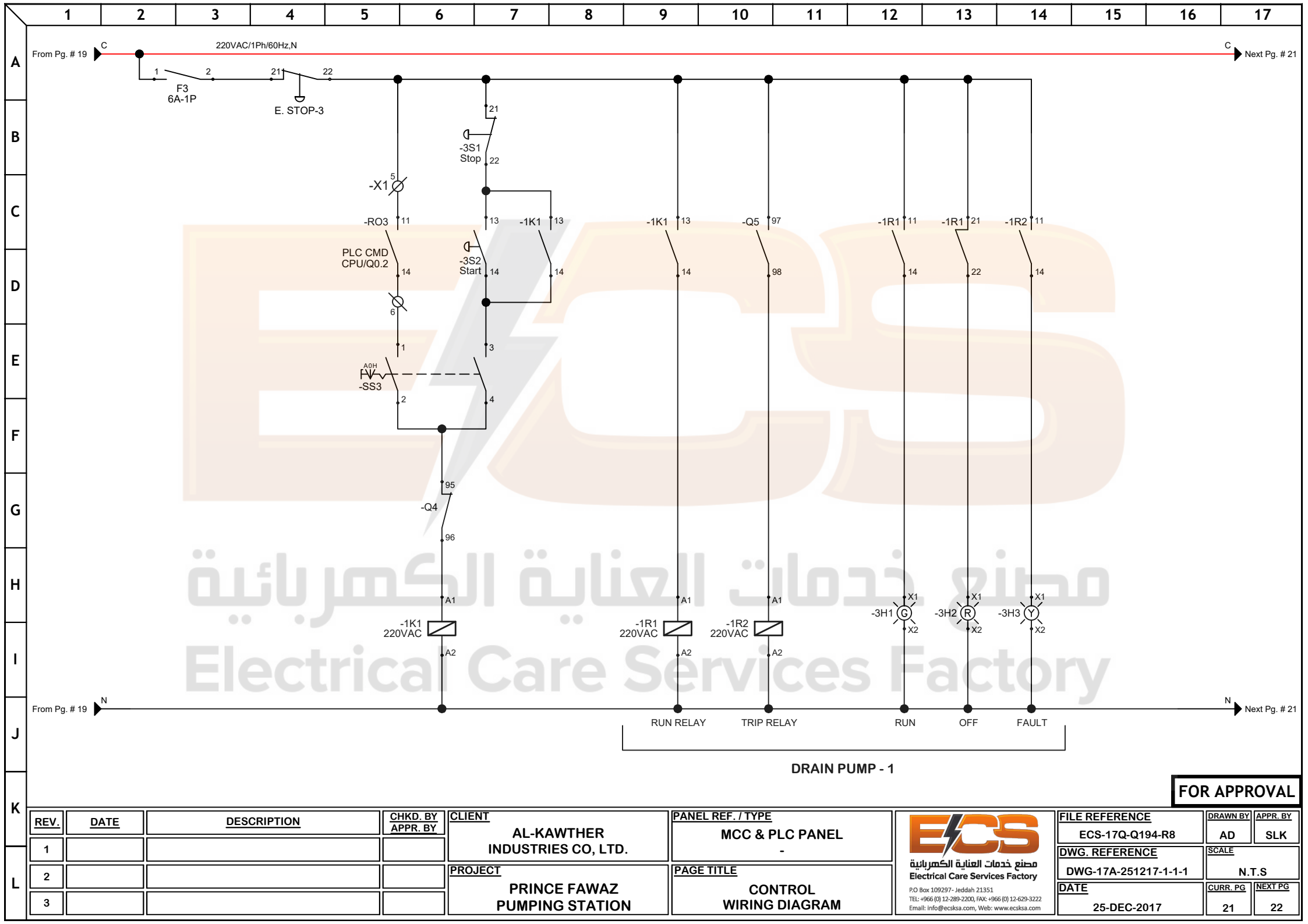
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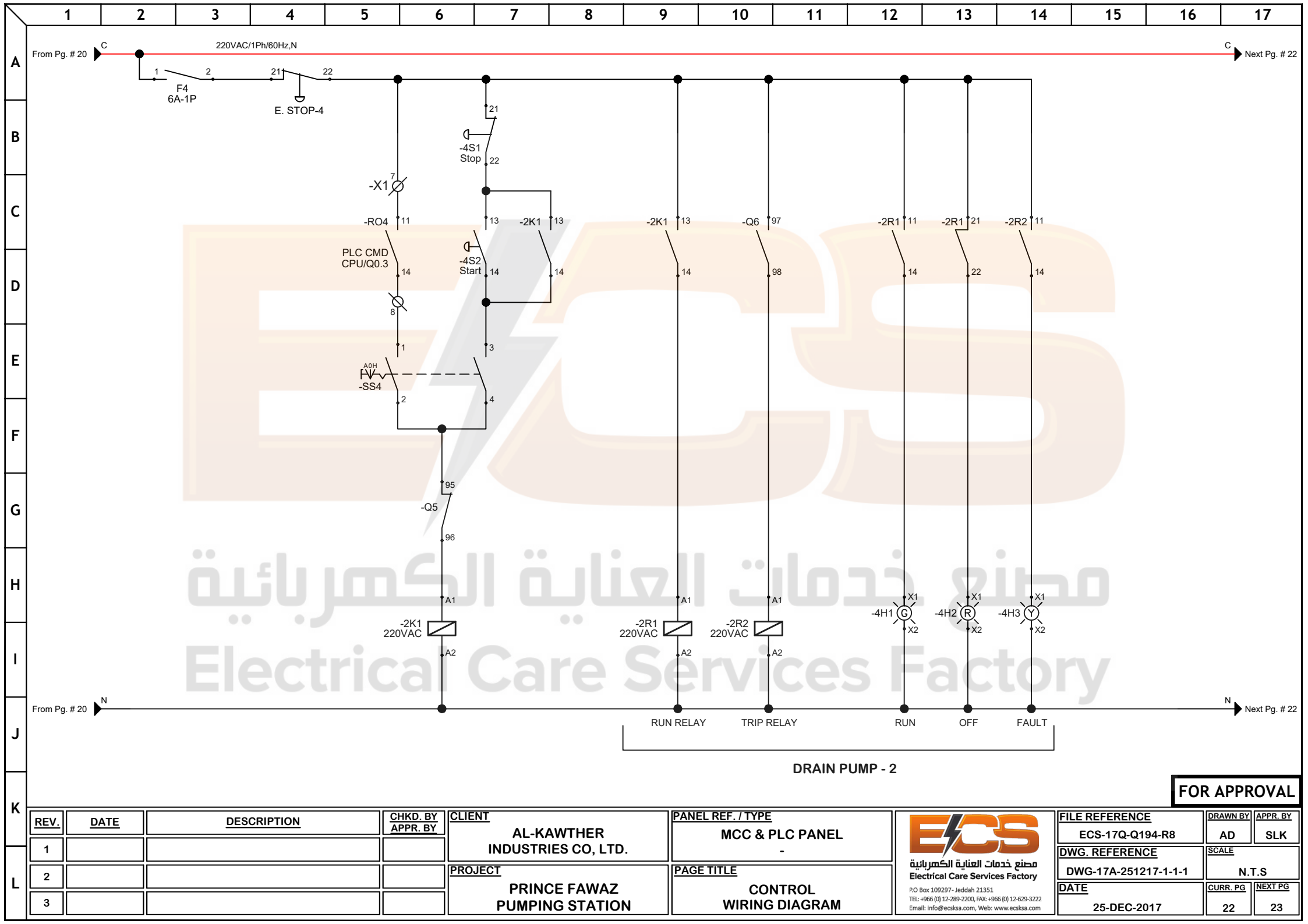
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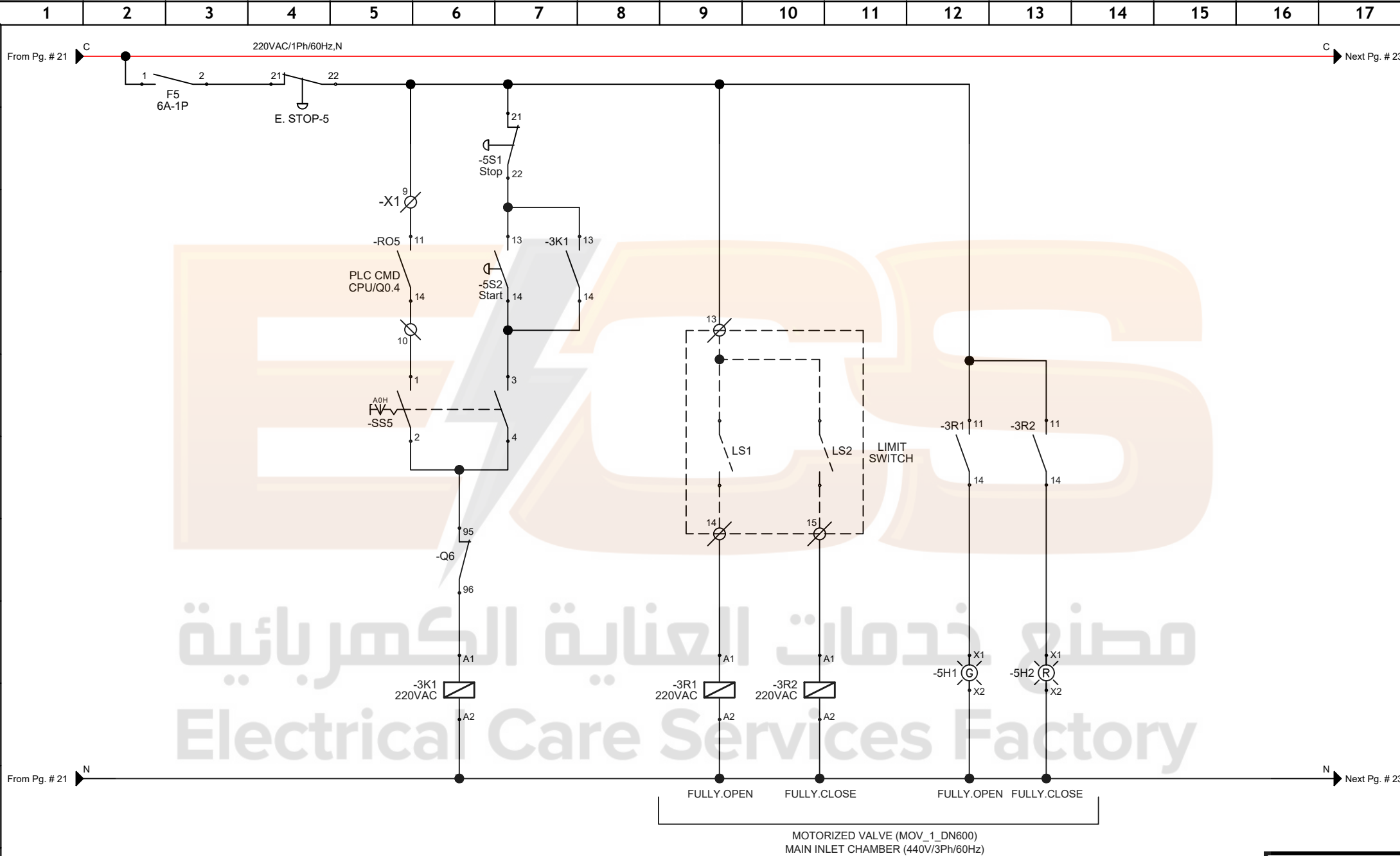
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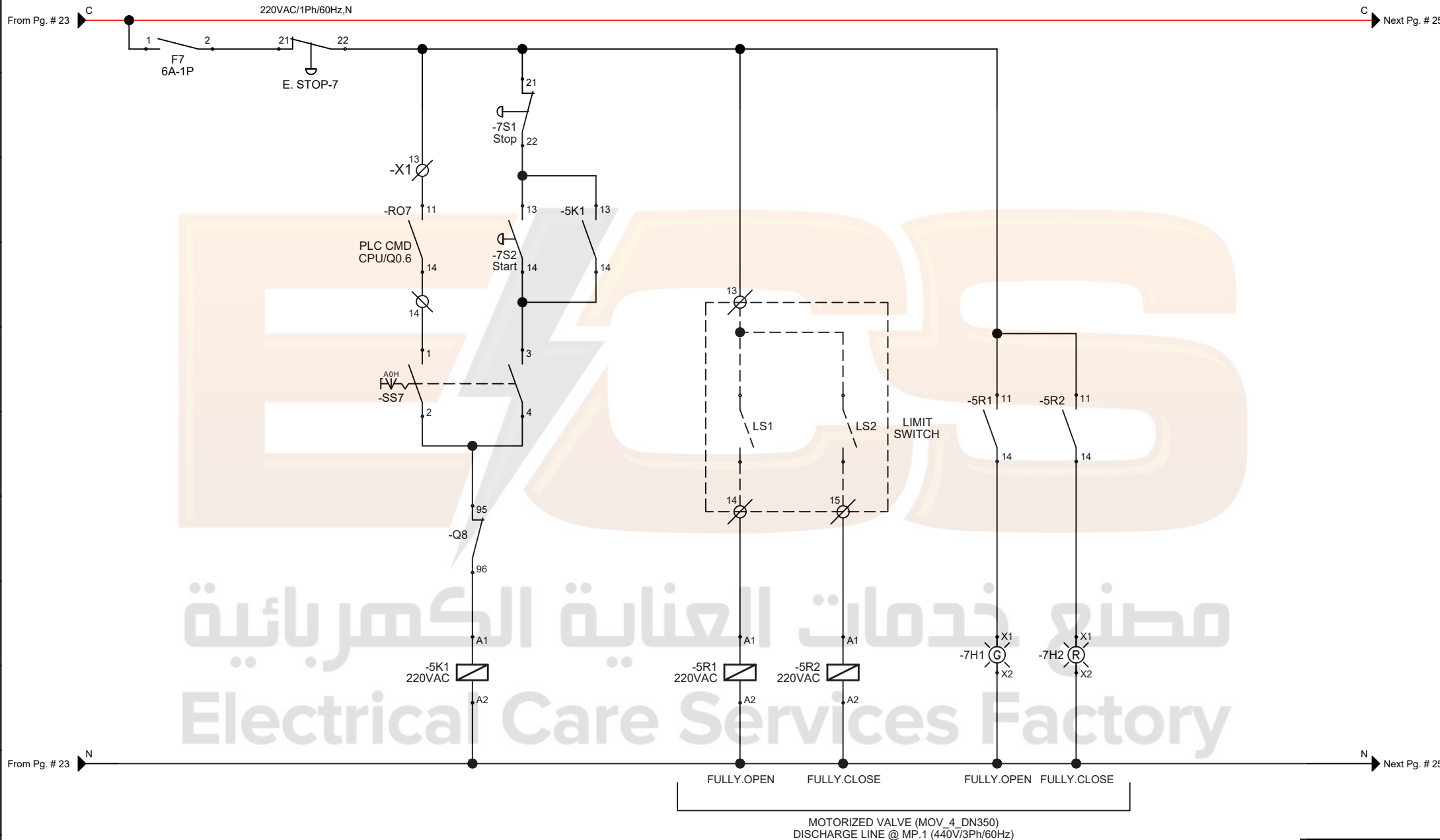
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CLIENT	PROJECT
AL-KAWTHER INDUSTRIES CO, LTD.	PRINCE FAWAZ PUMPING STATION

PANEL REF. / TYPE	PAGE TITLE
MCC & PLC PANEL -	CONTROL WIRING DIAGRAM

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25-DEC-2017	23	24



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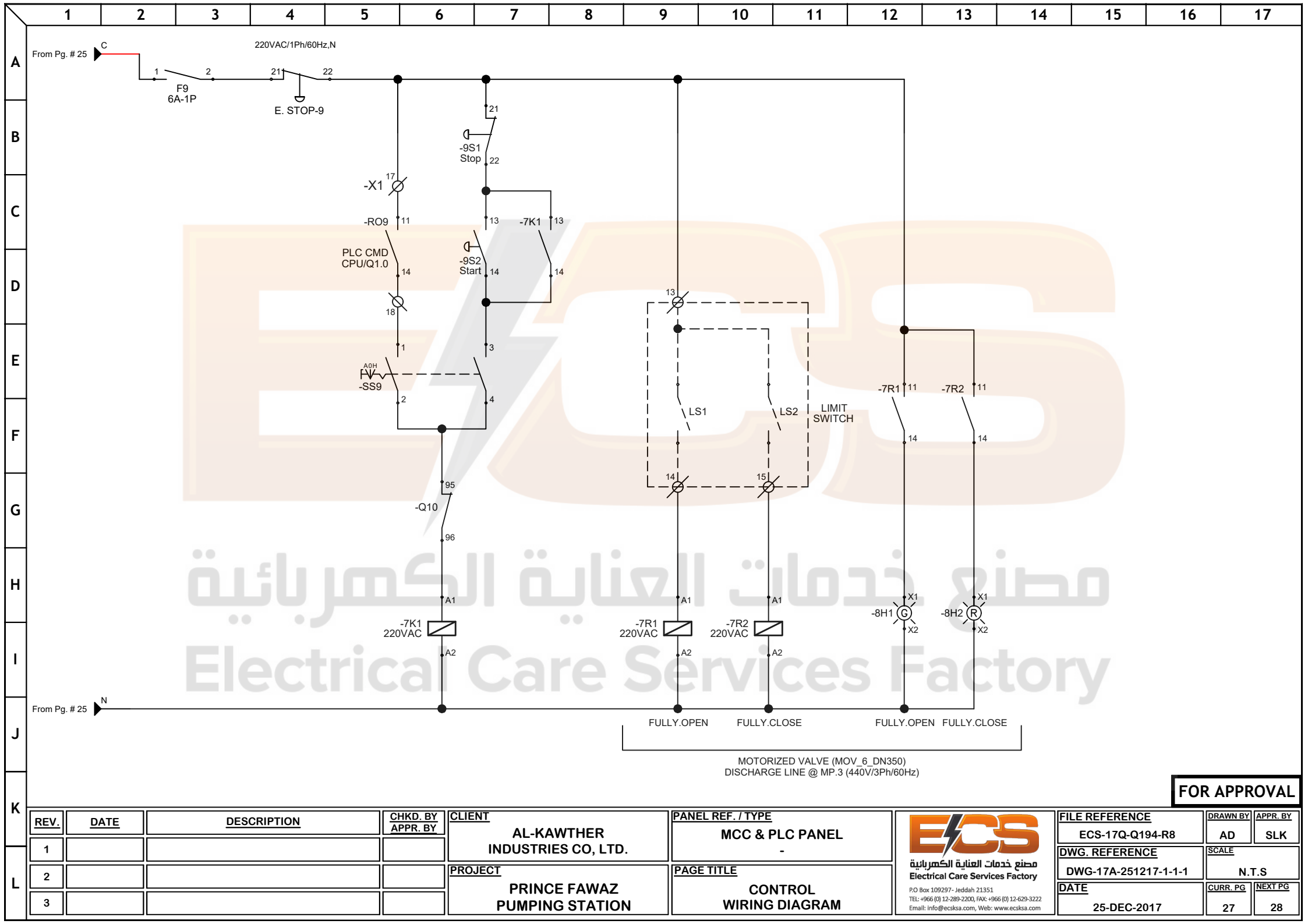
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CLIENT	PROJECT
AL-KAWTHER INDUSTRIES CO, LTD.	PRINCE FAWAZ PUMPING STATION

PANEL REF. / TYPE	PAGE TITLE
MCC & PLC PANEL -	CONTROL WIRING DIAGRAM

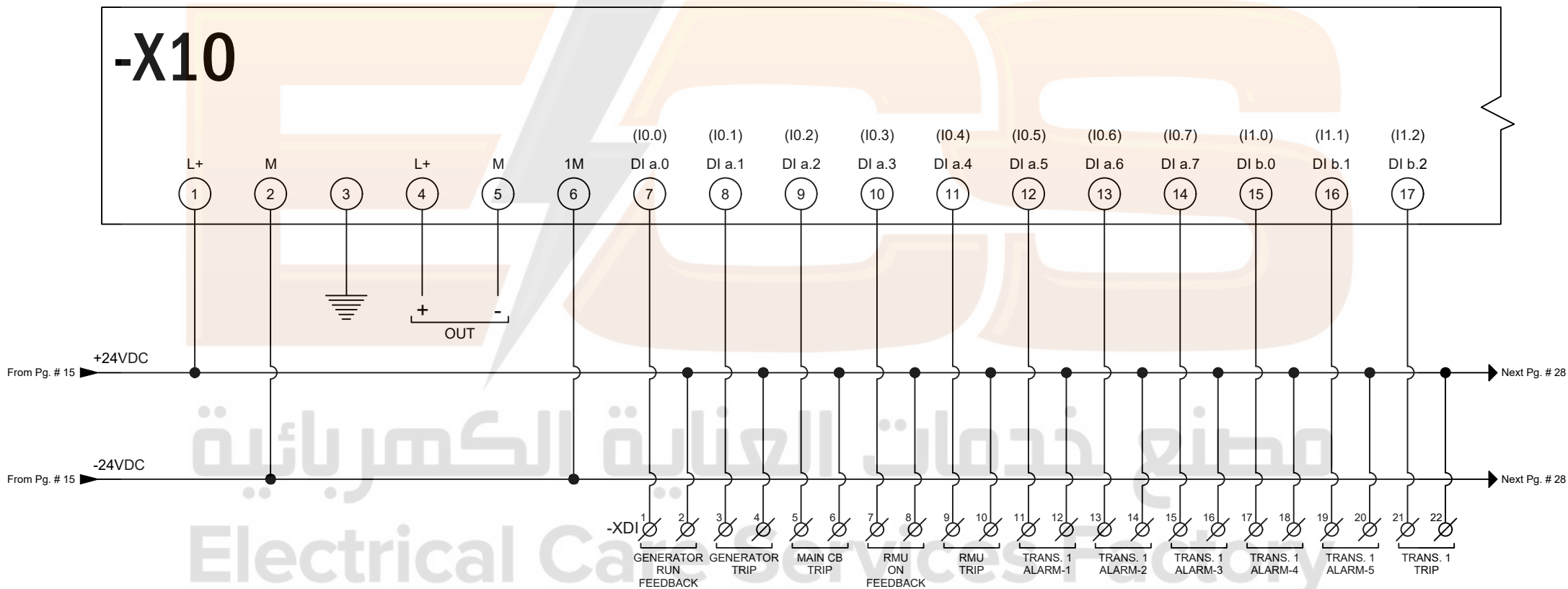
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DWG-17A-251217-1-1-1	N.T.S	
DATE	CURR. PG	NEXT PG
25-DEC-2017	25	26



COMPACT CPU

(6ES7214-1HG40-0XB0)



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REV.	DATE	DESCRIPTION	CHKD. BY APPR. BY
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AL-KAWTHER INDUSTRIES CO, LTD.	PRINCE FAWAZ PUMPING STATION

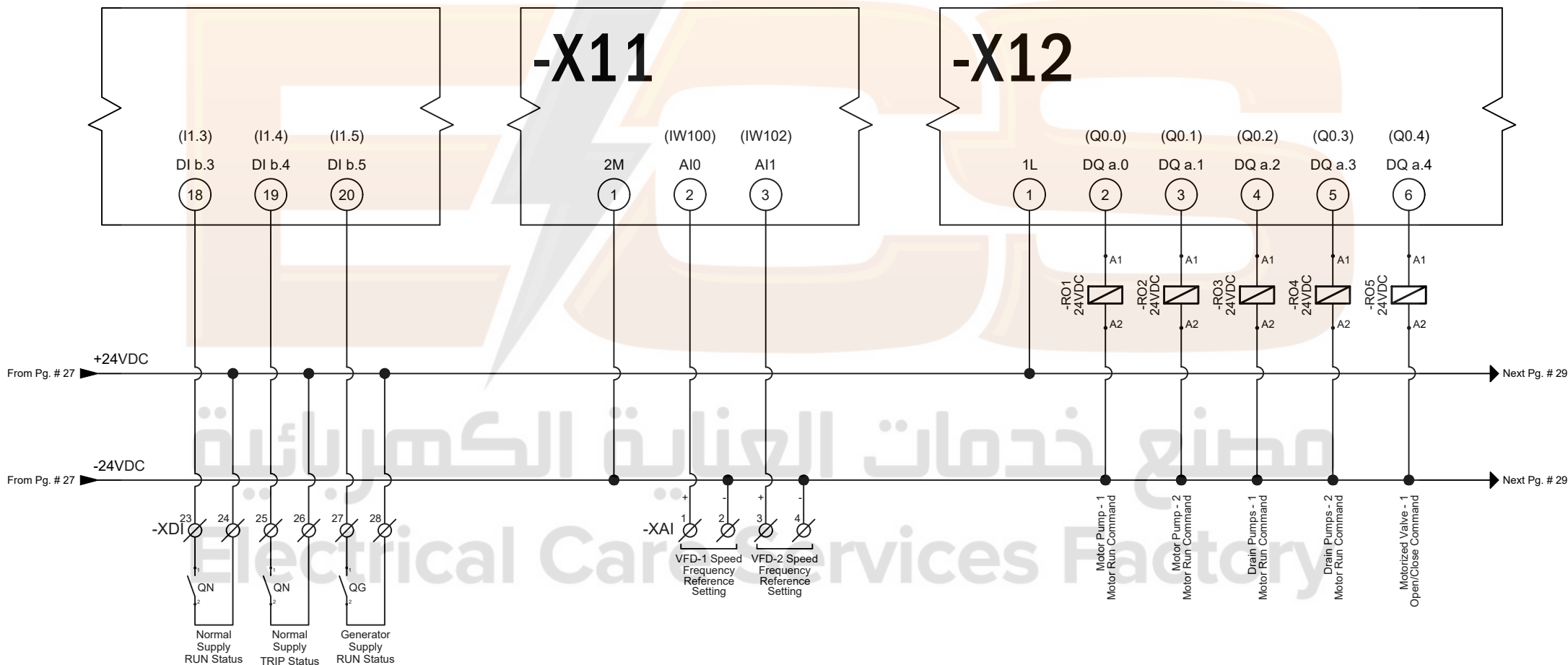
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MCC & PLC PANEL -	CONTROL WIRING DIAGRAM

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DWG-17A-251217-1-1-1	N.T.S	
DATE	CURR. PG	NEXT PG
25-DEC-2017	28	29

COMPACT CPU

(6ES7214-1HG40-0XB0)



FOR APPROVAL

REV.	DATE	DESCRIPTION	CHKD. BY	APPR. BY
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CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

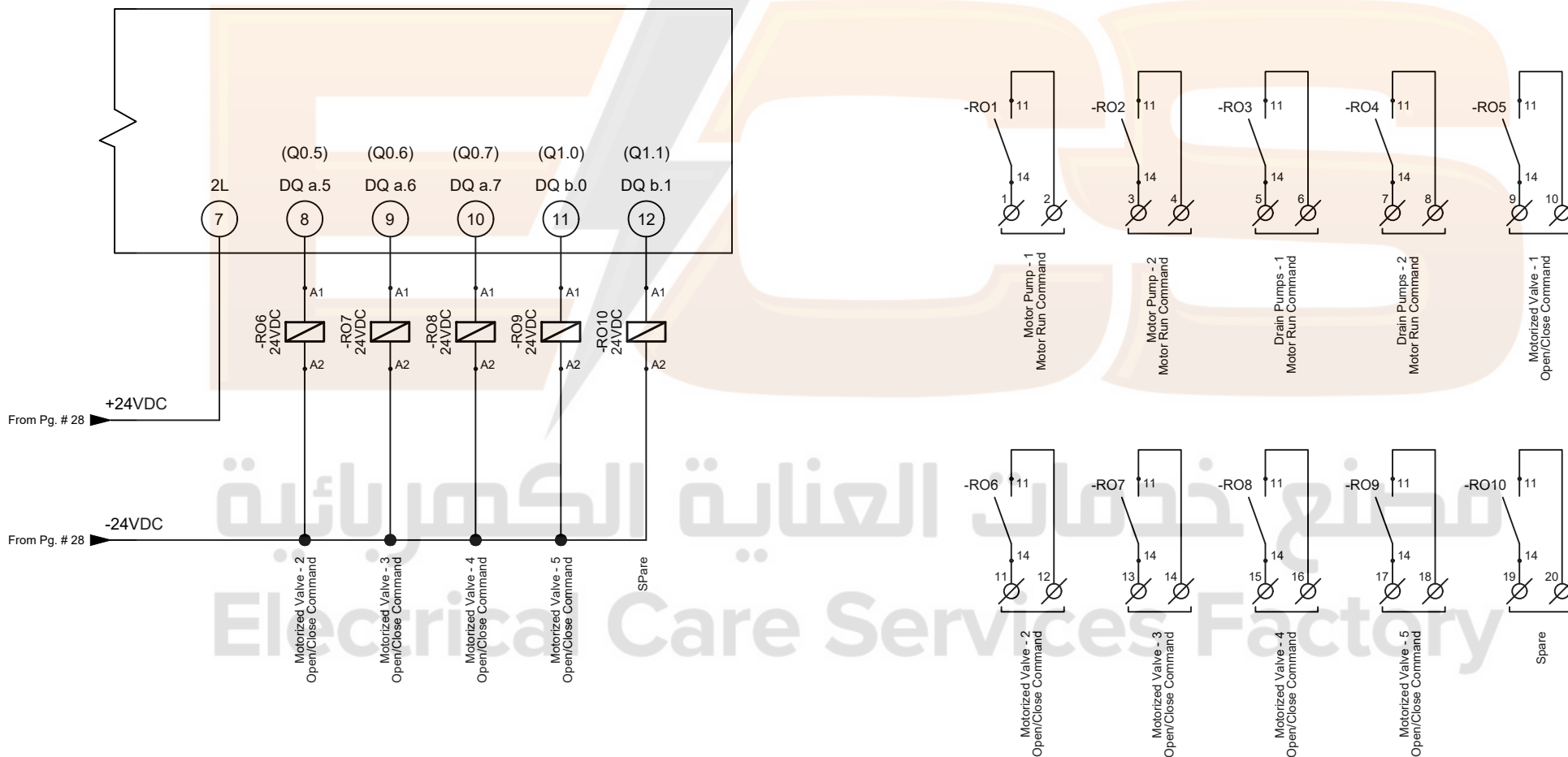
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PAGE TITLE	CONTROL WIRING DIAGRAM



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DWG. REFERENCE	DWG-17Q-161217-1-1-0	SCALE	N.T.S		
DATE	25-DEC-2017	CURR. PG	29	NEXT PG	30

COMPACT CPU

(6ES7214-1HG40-0XB0)



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REV.	DATE	DESCRIPTION	CHKD. BY APPR. BY
1			
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CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
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PANEL REF. / TYPE	MCC & PLC PANEL
PAGE TITLE	CONTROL WIRING DIAGRAM

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DATE	25-DEC-2017	CURR. PG	30	NEXT PG	31

The diagram illustrates the wiring for two PLC modules, -X10 and -X11, connected to a 24VDC power supply. The power supply is represented by a horizontal line with a ground symbol on the left. The 24VDC line is connected to the positive terminal of the power supply. The ground line is connected to the negative terminal of the power supply. The modules are connected to the power supply via their respective terminal blocks.

Module -X10:

- Terminal 1: Ground
- Terminal 2: 24VDC
- Terminal 3: 1M (Module Address)
- Terminal 4: (I2.0) DI a.0
- Terminal 5: (I2.1) DI a.1
- Terminal 6: (I2.2) DI a.2
- Terminal 7: (I2.3) DI a.3

Module -X11:

- Terminal 1: Ground
- Terminal 2: 24VDC
- Terminal 3: 2M (Module Address)
- Terminal 4: (I2.4) DI a.4
- Terminal 5: (I2.5) DI a.5
- Terminal 6: (I2.6) DI a.6
- Terminal 7: (I2.7) DI a.7

The diagram also shows the connection of the modules to various digital input (DI) and output (DO) points. The connections are as follows:

- DI a.0:** Connected to terminal 29 (-XDI) via a switch labeled QG.
- DI a.1:** Connected to terminal 30 (-XDI) via a switch labeled SS1.
- DI a.2:** Connected to terminal 31 (-XDI) via a switch labeled SS1.
- DI a.3:** Connected to terminal 32 (-XDI) via a switch labeled SS1.
- DI a.4:** Connected to terminal 33 (-XDI) via a switch labeled SS1.
- DI a.5:** Connected to terminal 34 (-XDI) via a switch labeled SS1.
- DI a.6:** Connected to terminal 35 (-XDI) via a switch labeled SS1.
- DI a.7:** Connected to terminal 36 (-XDI) via a switch labeled SS1.
- DI a.8:** Connected to terminal 37 (-XDI) via a switch labeled VT1.
- DI a.9:** Connected to terminal 38 (-XDI) via a switch labeled ES-1.
- DI a.10:** Connected to terminal 39 (-XDI) via a switch labeled SS2.
- DI a.11:** Connected to terminal 40 (-XDI) via a switch labeled SS2.
- DI a.12:** Connected to terminal 41 (-XDI) via a switch labeled SS2.
- DI a.13:** Connected to terminal 42 (-XDI) via a switch labeled SS2.
- DI a.14:** Connected to terminal 43 (-XDI) via a switch labeled SS2.
- DI a.15:** Connected to terminal 44 (-XDI) via a switch labeled SS2.

<u>REV.</u>	<u>DATE</u>	<u>DESCRIPTION</u>	<u>CHKD. BY</u> <u>APPR. BY</u>
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CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

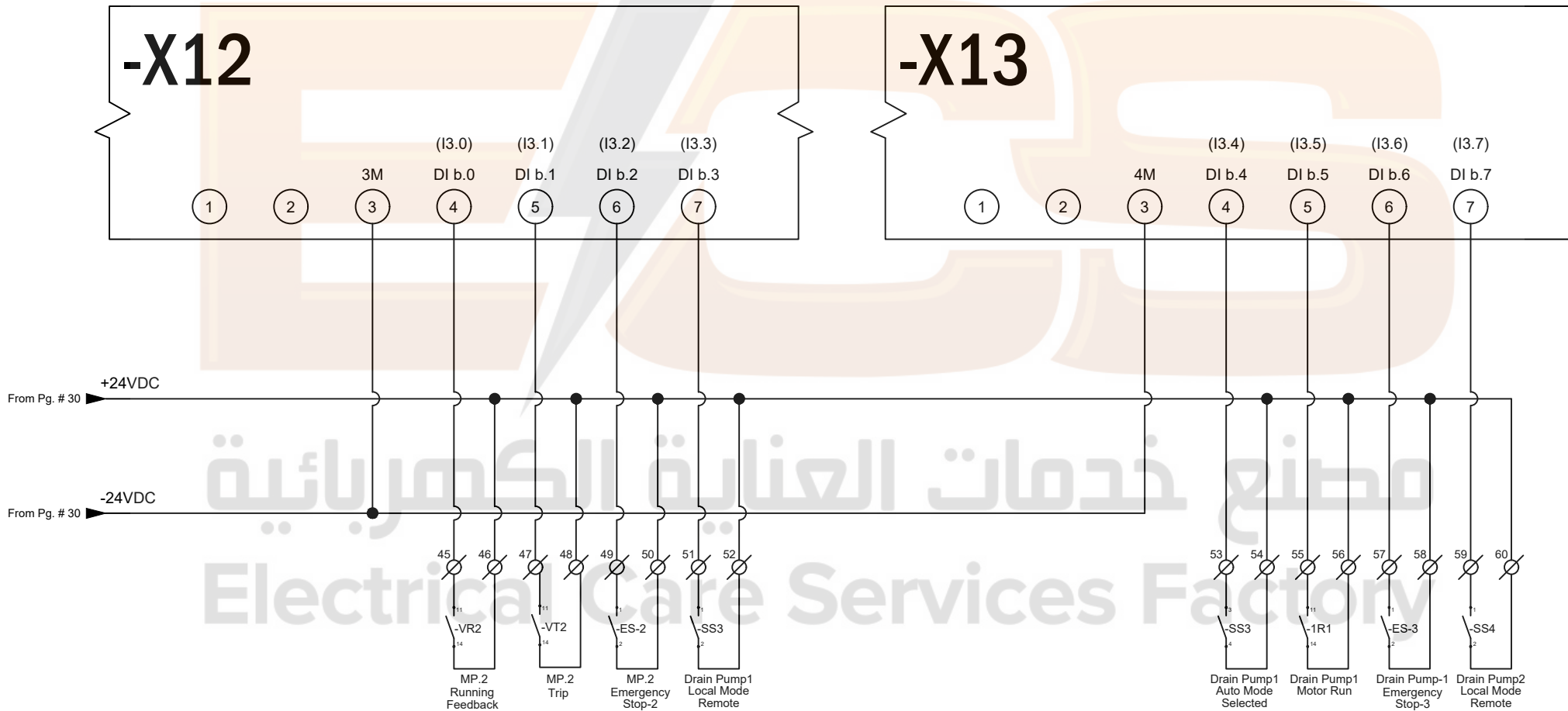
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<u>PAGE TITLE</u>	CONTROL WIRING DIAGRAM



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DWG-17Q-161217-1-1-0	N.T.S	
<u>DATE</u>	<u>CURR. PG</u>	<u>NEXT PG</u>
25-DEC-2017	31	32

DIGITAL INPUT MODULE - 1

(6ES7221-1BH32-0XB0)



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CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

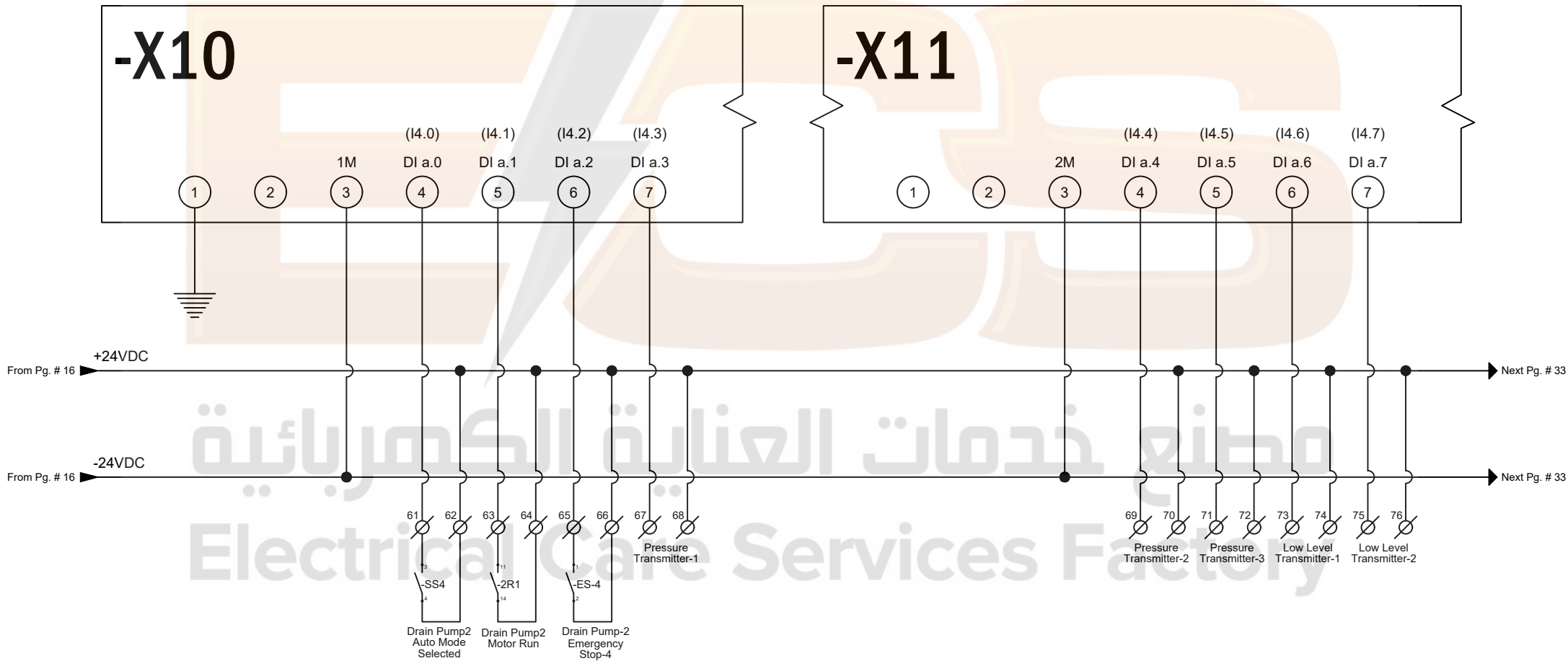
PANEL REF. / TYPE	MCC & PLC PANEL -
PAGE TITLE	CONTROL WIRING DIAGRAM



FILE REFERENCE	ECS-17Q-Q194-R8	DRAWN BY	AD	APPR. BY	SLK
DWG. REFERENCE	DWG-17Q-161217-1-1-0	SCALE	N.T.S		
DATE	25-DEC-2017	CURR. PG	32	NEXT PG	33

DIGITAL INPUT MODULE - 2

(6ES7221-1BH32-0XB0)



FOR APPROVAL

REV.	DATE	DESCRIPTION	CHKD. BY	APPR. BY
1				
2				
3				

CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

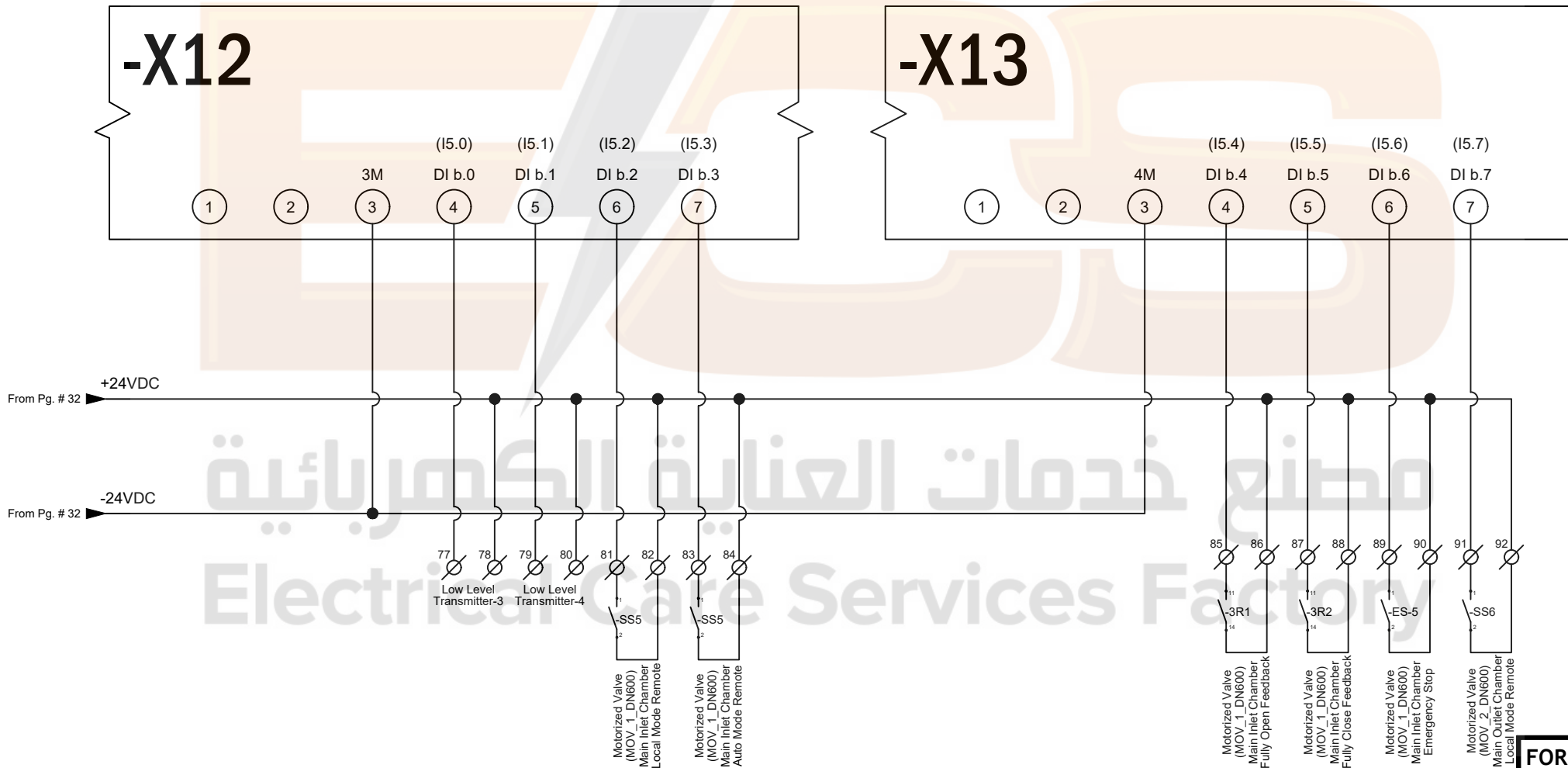
PANEL REF. / TYPE	MCC & PLC PANEL
PAGE TITLE	CONTROL WIRING DIAGRAM

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TEL: +966 (0) 12-289-2200, FAX: +966 (0) 12-629-3222
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FILE REFERENCE	ECS-17Q-Q194-R8	DRAWN BY	AD	APPR. BY	SLK
DWG. REFERENCE	DWG-17Q-161217-1-1-0	SCALE	N.T.S		
DATE	25-DEC-2017	CURR. PG	33	NEXT PG	34

DIGITAL INPUT MODULE - 2

(6ES7221-1BH32-0XB0)



FOR APPROVAL

REV.	DATE	DESCRIPTION	CHKD. BY APPR. BY
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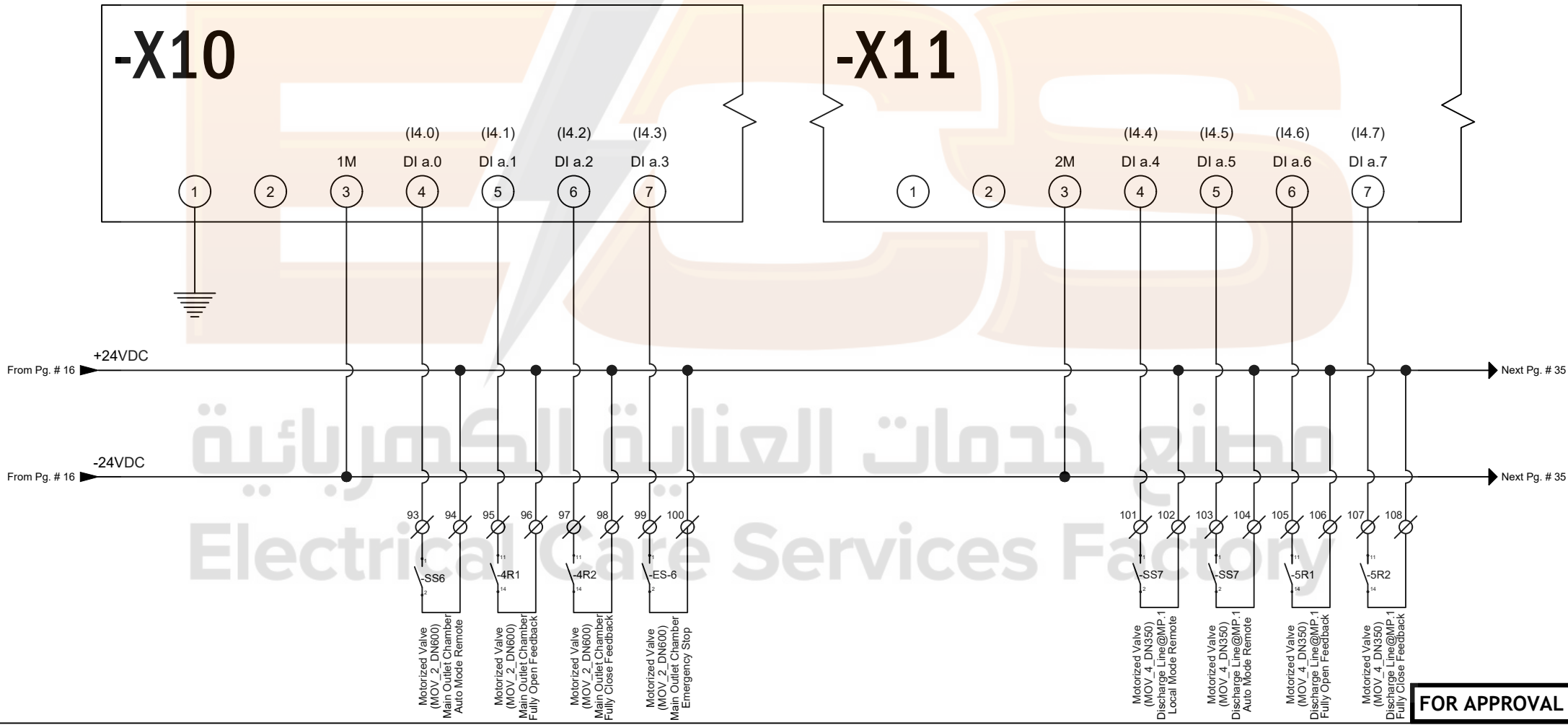
CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

PANEL REF. / TYPE	MCC & PLC PANEL
PAGE TITLE	CONTROL WIRING DIAGRAM

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FILE REFERENCE	ECS-17Q-Q194-R8	DRAWN BY	AD	APPR. BY	SLK
DWG. REFERENCE	DWG-17Q-161217-1-1-0	SCALE	N.T.S		
DATE	25-DEC-2017	CURR. PG	34	NEXT PG	35

DIGITAL INPUT MODULE - 3 (6ES7221-1BH32-0XB0)



FOR APPROVAL

REV.	DATE	DESCRIPTION	CHKD. BY APPR. BY
1			
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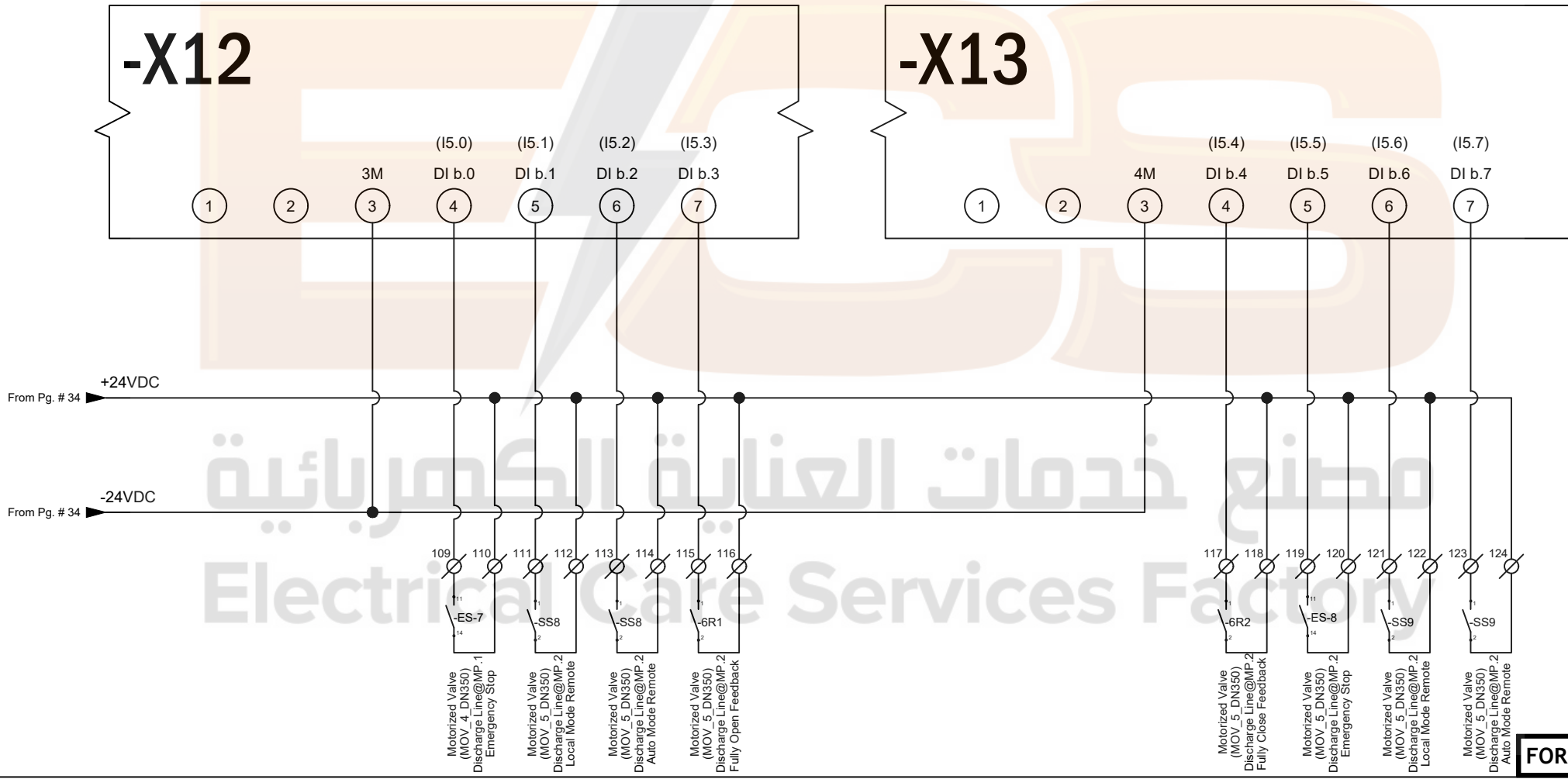
CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

PANEL REF. / TYPE	MCC & PLC PANEL
PAGE TITLE	CONTROL WIRING DIAGRAM



FILE REFERENCE	ECS-17Q-Q194-R8	DRAWN BY	AD	APPR. BY	SLK
DWG. REFERENCE	DWG-17Q-161217-1-1-0	SCALE	N.T.S		
DATE	25-DEC-2017	CURR. PG	35	NEXT PG	36

DIGITAL INPUT MODULE - 3 (6ES7221-1BH32-0XB0)



FOR APPROVAL

REV.	DATE	DESCRIPTION	CHKD. BY	APPR. BY
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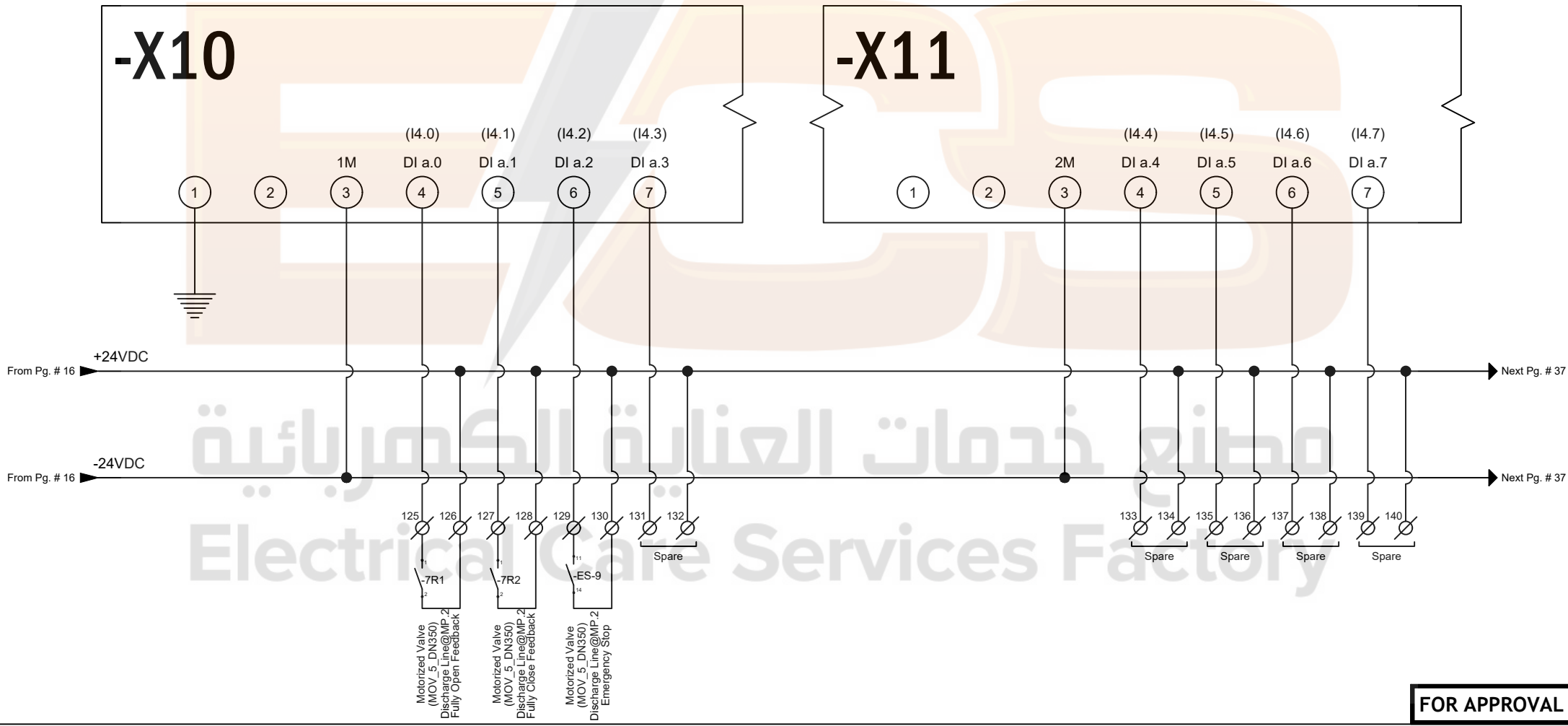
CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

PANEL REF. / TYPE	MCC & PLC PANEL
PAGE TITLE	CONTROL WIRING DIAGRAM

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FILE REFERENCE	ECS-17Q-Q194-R8	DRAWN BY	AD	APPR. BY	SLK
DWG. REFERENCE	DWG-17Q-161217-1-1-0	SCALE	N.T.S		
DATE	25-DEC-2017	CURR. PG	36	NEXT PG	37

DIGITAL INPUT MODULE - 4 (6ES7221-1BH32-0XB0)



FOR APPROVAL

REV.	DATE	DESCRIPTION	CHKD. BY APPR. BY
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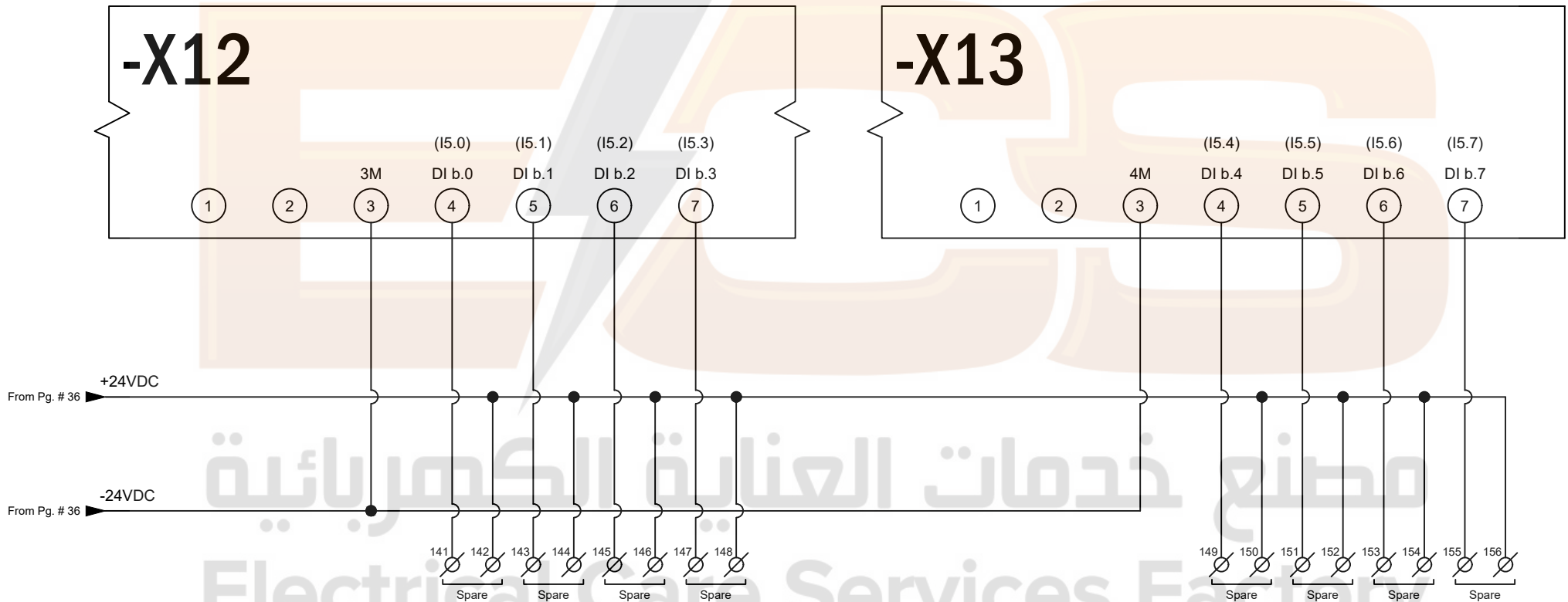
CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

PANEL REF. / TYPE	MCC & PLC PANEL
PAGE TITLE	CONTROL WIRING DIAGRAM

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FILE REFERENCE	ECS-17Q-Q194-R8	DRAWN BY	AD	APPR. BY	SLK
DWG. REFERENCE	DWG-17Q-161217-1-1-0	SCALE	N.T.S		
DATE	25-DEC-2017	CURR. PG	37	NEXT PG	38

DIGITAL INPUT MODULE - 4 (6ES7221-1BH32-0XB0)



FOR APPROVAL

REV.	DATE	DESCRIPTION	CHKD. BY APPR. BY
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CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

PANEL REF. / TYPE	MCC & PLC PANEL -
PAGE TITLE	CONTROL WIRING DIAGRAM

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FILE REFERENCE	ECS-17Q-Q194-R8	DRAWN BY	AD	APPR. BY	SLK
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DATE	25-DEC-2017	CURR. PG	38	NEXT PG	39

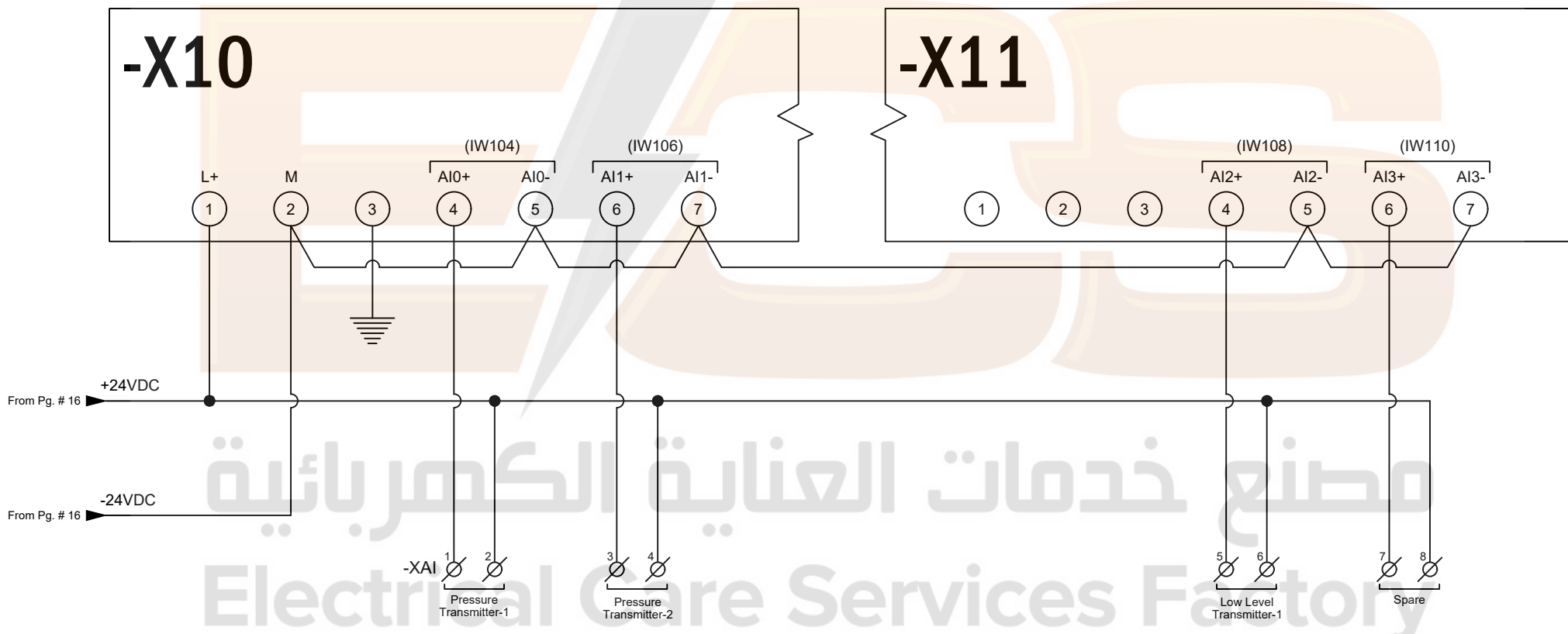
<u>REV.</u>	<u>DATE</u>	<u>DESCRIPTION</u>	<u>CHKD. BY</u> <u>APPR. BY</u>
1			
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<u>FILE REFERENCE</u>		<u>DRAWN BY</u>	<u>APPR. BY</u>
ECS-17Q-Q194-R8		SHA	SLK
<u>DWG. REFERENCE</u>		<u>SCALE</u>	
DWG-17Q-161217-1-1-0		N.T.S	
<u>DATE</u>		<u>CURR. PG</u>	<u>NEXT PG</u>
25-DEC-2017		39	40

ANALOG INPUT MODULE - 1

(6ES7231-4HF32-0XB0)



FOR APPROVAL

REV.	DATE	DESCRIPTION	CHKD. BY APPR. BY
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CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

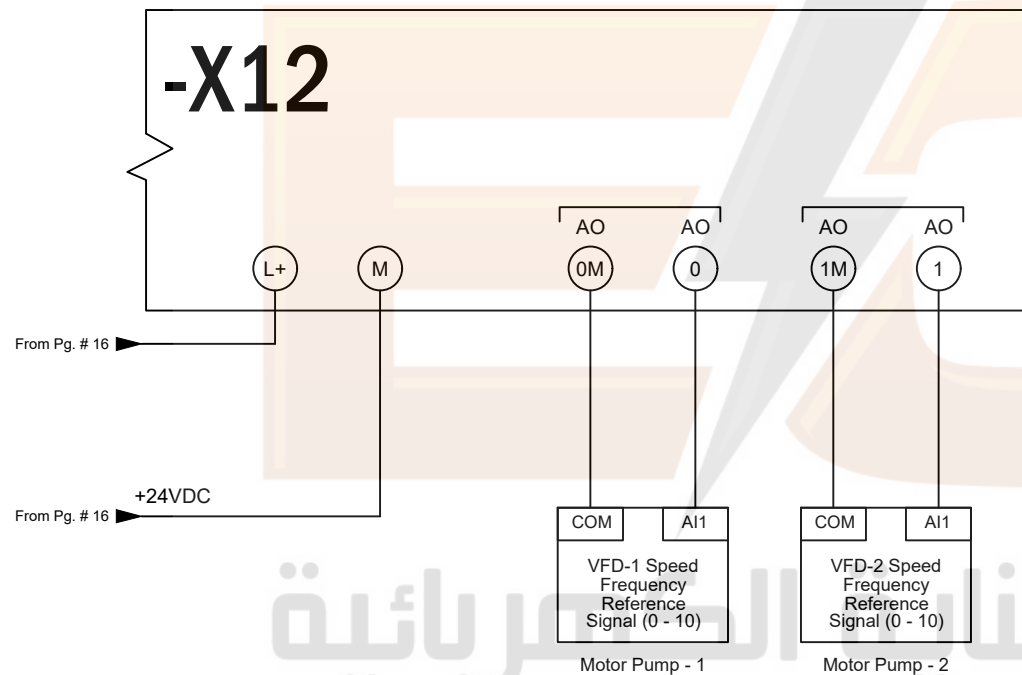
PANEL REF. / TYPE	MCC & PLC PANEL
PAGE TITLE	CONTROL WIRING DIAGRAM

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FILE REFERENCE	ECS-17Q-Q194-R8	DRAWN BY	SHA	APPR. BY	SLK
DWG. REFERENCE	DWG-17Q-161217-1-1-0	SCALE	N.T.S		
DATE	25-DEC-2017	CURR. PG	40	NEXT PG	41

ANALOG OUTPUT MODULE - 1

(6ES7232-4HB32-0XB0)



FOR APPROVAL

REV.	DATE	DESCRIPTION	CHKD. BY APPR. BY
1			
2			
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CLIENT	AL-KAWTHER INDUSTRIES CO, LTD.
PROJECT	PRINCE FAWAZ PUMPING STATION

PANEL REF. / TYPE	MCC & PLC PANEL -
PAGE TITLE	CONTROL WIRING DIAGRAM

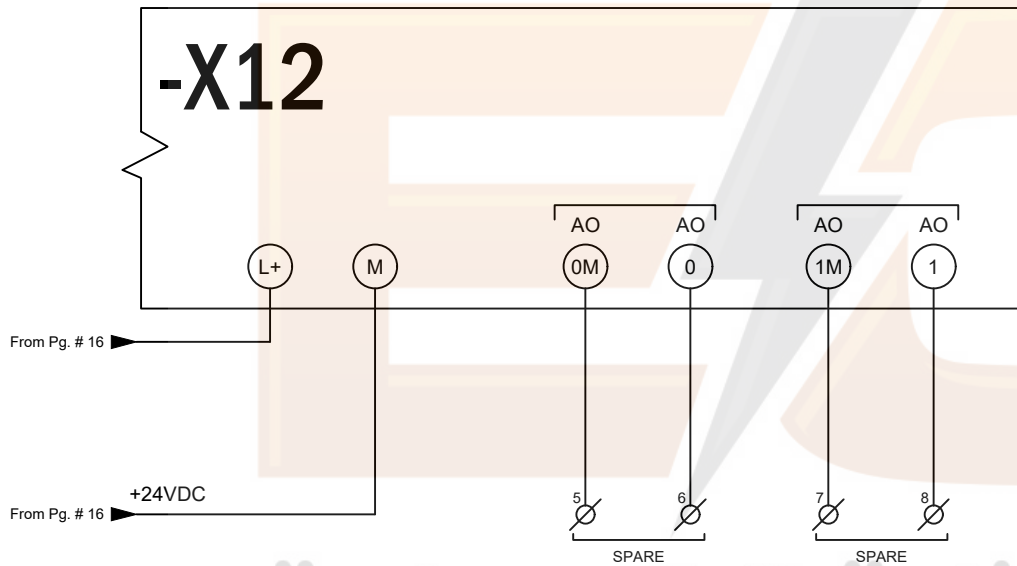
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FILE REFERENCE	ECS-17Q-Q194-R8	DRAWN BY	SHA	APPR. BY	SLK
DWG. REFERENCE	DWG-17Q-161217-1-1-0	SCALE	N.T.S		
DATE	25-DEC-2017	CURR. PG	41	NEXT PG	42

ANALOG OUTPUT MODULE - 2 (6ES7232-4HB32-0XB0)



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REV.	DATE	DESCRIPTION	CHKD. BY APPR. BY	CLIENT	PANEL REF. / TYPE	FILE REFERENCE	DRAWN BY	APPR. BY
1				AL MURQAB TECHNOLOGY CONTRACTING	MCC & PLC PANEL -	ECS-17Q-Q194-R8	SHA	SLK
2				PROJECT	PAGE TITLE	DWG. REFERENCE	SCALE	
3				PRINCE FAWAZ PUMPING STATION	CONTROL WIRING DIAGRAM	DWG-17Q-161217-1-1-0	N.T.S	
						DATE	CURR. PG	NEXT PG
						25-DEC-2017	42	--