EXISTING CONTROL PANEL: RIO-1

LOCATION:
HESS PUMP STATION

CIRCUIT NO.	EQUIPMENT SERVED/ MARK	CONNECT: DEVICE	CONNECT: CTL. PNL.	CONNECT: STARTER	CONNECT: VFD	DESCRIPTION/FUNCTION	CONDUCTORS	DISCRETE	ANALOG	DIGITAL	INPUT	OUTPUT	REMARKS
1		X	–	–	–	D-13375 OPEN COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
2		X	–	–	–	D-13375 CLOSE COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
3	D-13375	X	–	–	–	D-13375 OPEN STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
4		X	–	–	–	D-13375 CLOSE STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
5		X	–	–	–	D-13375 10% STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
6		X	–	–	–	D-13376 OPEN COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
7		X	–	–	–	D-13376 CLOSE COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
8	D-13376	X	–	–	–	D-13376 OPEN STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
9		X	–	–	–	D-13376 CLOSE STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
10		X	–	–	–	D-13376 10% STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
11		X	–	–	–	D-9213 OPEN COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
12		X	–	–	–	D-9213 CLOSE COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
13	D-9213	X	–	–	–	D-9213 OPEN STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
14		X	–	–	–	D-9213 CLOSE STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
15		X	–	–	–	D-9213 10% STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
16		X	–	–	–	D-9216 OPEN COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
17		X	–	–	–	D-9216 CLOSE COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
18	D-9216	X	–	–	–	D-9216 OPEN STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
19		X	–	–	–	D-9216 CLOSE STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
20		X	–	–	–	D-9216 10% STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
21		X	–	–	–	D-9217 OPEN COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
22		X	–	–	–	D-9217 CLOSE COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
23	D-9217	X	–	–	–	D-9217 OPEN STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
24		X	–	–	–	D-9217 CLOSE STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
25		X	–	–	–	D-9217 10% STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
26		X	–	–	–	D-9218 OPEN COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
27		X	–	–	–	D-9218 CLOSE COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
28	D-9218	X	–	–	–	D-9218 OPEN STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
29		X	–	–	–	D-9218 CLOSE STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
30		X	–	–	–	D-9218 10% STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
31		X	–	–	–	D-9220 OPEN COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
32		X	–	–	–	D-9220 CLOSE COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
33	D-9220	X	–	–	–	D-9220 OPEN STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
34		X	–	–	–	D-9220 CLOSE STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
35		X	–	–	–	D-9220 10% STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
36		X	–	–	–	D-9222 OPEN COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
37		X	–	–	–	D-9222 CLOSE COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
38	D-9222	X	–	–	–	D-9222 OPEN STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
39		X	–	–	–	D-9222 CLOSE STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
40		X	–	–	–	D-9222 10% STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
41		X	–	–	–	D-9221 OPEN COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
42		X	–	–	–	D-9221 CLOSE COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
43	D-9221	X	–	–	–	D-9221 OPEN STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
44		X	–	–	–	D-9221 CLOSE STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
45		X	–	–	–	D-9221 10% STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
46		X	–	–	–	D-13380 OPEN COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
47		X	–	–	–	D-13380 CLOSE COMMAND	2 #14	X	–	–	–	X	EXISTING ACTUATOR
48	D-13380	X	–	–	–	D-13380 OPEN STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
49		X	–	–	–	D-13380 CLOSE STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
50		X	–	–	–	D-13380 10% STATUS	2 #14	X	–	–	X	–	EXISTING ACTUATOR
51		X	–	–	–	D-11 OPEN COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
52		X	–	–	–	D-11 CLOSE COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
53	D-1	X	–	–	–	D-11 OPEN STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
54		X	–	–	–	D-11 CLOSE STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
55		X	–	–	–	D-11 10% STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
① 56		X	–	–	–	D-12 OPEN COMMAND	2 #14	X	–	–	–	X	NEW ACTUATOR
① 57		X	–	–	–	D-12 CLOSE COMMAND	2 #14	X	–	–	–	X	NEW ACTUATOR
① 58	D-9235	X	–	–	–	D-12 OPEN STATUS	2 #14	X	–	–	X	–	NEW ACTUATOR
① 59		X	–	–	–	D-12 CLOSE STATUS	2 #14	X	–	–	X	–	NEW ACTUATOR
① 60		X	–	–	–	D-12 10% STATUS	2 #14	X	–	–	X	–	NEW ACTUATOR
61		X	–	–	–	D-13 OPEN COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
62		X	–	–	–	D-13 CLOSE COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
63	D-3	X	–	–	–	D-13 OPEN STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
64		X	–	–	–	D-13 CLOSE STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
65		X	–	–	–	D-13 10% STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
51		X	–	–	–	D-11 OPEN COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
52		X	–	–	–	D-11 CLOSE COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
53	D-4	X	–	–	–	D-11 OPEN STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
54		X	–	–	–	D-11 CLOSE STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
55		X	–	–	–	D-11 10% STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
56		X	–	–	–	D-12 OPEN COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
57		X	–	–	–	D-12 CLOSE COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
58	D-5	X	–	–	–	D-12 OPEN STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
59		X	–	–	–	D-12 CLOSE STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
60		X	–	–	–	D-12 10% STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
61		X	–	–	–	D-13 OPEN COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
62		X	–	–	–	D-13 CLOSE COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
63	D-6	X	–	–	–	D-13 OPEN STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
64		X	–	–	–	D-13 CLOSE STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
65		X	–	–	–	D-13 10% STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
51		X	–	–	–	D-11 OPEN COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
52		X	–	–	–	D-11 CLOSE COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
53	D-7	X	–	–	–	D-11 OPEN STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
54		X	–	–	–	D-11 CLOSE STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
55		X	–	–	–	D-11 10% STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
56		X	–	–	–	D-12 OPEN COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
57		X	–	–	–	D-12 CLOSE COMMAND	2 #14	X	–	–	–	X	FUTURE ACTUATOR
58	D-8	X	–	–	–	D-12 OPEN STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
59		X	–	–	–	D-12 CLOSE STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR
60		X	–	–	–	D-12 10% STATUS	2 #14	X	–	–	X	–	FUTURE ACTUATOR

① WORK TO BE DONE UNDER THIS CONTRACT.

PEC
PROFESSIONAL ENGINEERING CONSULTANTS
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CITY OF WICHITA

RICHARD W. WHITEHILL
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10/16/2023
KANSAS
PROFESSIONAL ENGINEER

CONSTRUCTION PLANS
FOR
HESS PUMP STATION
SITE VALVE REPLACEMENT
(PHASE 1 AND 2)

PAUL GUNZELMAN, P.E. - INTERIM CITY ENGINEER
CITY OF WICHITA PROJECT NO. 448-2021-005881

Issue:		

JOB NO.	200335-004
DATE	OCTOBER, 2023
PM	TBK
DESIGNED BY	RWW
DRAWN BY	JAB
CHECKED BY	RWW

ELECTRICAL CONTROLS

E3.1

SAVED 10/11/2023 3:57:33 PM BY JACOB.BURNS
PLOTTED 10/16/2023 9:35:21 AM BY JACOB.BURNS
U:\WICHITA-CIVIL\2020\200335\004\ELEC\DRAWINGS\E3.1 ELECTRICAL CONTROLS.DWG