



① CONTROL PANEL CP										LOCATION: PLANT 2 RE-USE WATER PUMP STATION			
CIRCUIT NO.	EQUIPMENT SERVED/ MARK	CONNECT				DESCRIPTION/FUNCTION	CONDUCTORS IN CABLE	DISCRETE	ANALOG	DIGITAL	INPUT	OUTPUT	REMARKS
		DEVICE	CTL. PNL.	STARTER	VFD								
1	PT-1	X	-	-	-	PRESSURE TRANSMITTER	TSPR	-	X	-	X	-	
2	FM-1	X	-	-	-	FLOW METER	TSPR	-	X	-	X	-	
3		X	-	-	-	FLOW TOTALIZER	TSPR	X	-	-	X	-	
4	V-1	-	X	-	-	VALVE POSITION COMMAND	TSPR	-	X	-	-	X	
5		-	X	-	-	VALVE POSITION COMMAND FEEDBACK	TSPR	-	X	-	X	-	
6		-	X	-	-	VALVE TORQUE FEEDBACK	TSPR	-	X	-	X	-	
7		-	X	-	-	FAULT STATUS	2	X	-	-	X	-	
8		-	X	-	-	CLOSE STATUS	2	X	-	-	X	-	
9		-	X	-	-	OPEN STATUS	2	X	-	-	X	-	
10		-	X	-	-	REMOTE STATUS	2	X	-	-	X	-	
11		-	X	-	-	TORQUE CLOSE STATUS	2	X	-	-	X	-	
12		-	X	-	-	TORQUE OPEN STATUS	2	X	-	-	X	-	
13		-	X	-	-	MODE COMMAND	2	X	-	-	-	X	
14		-	X	-	-	CLOSE COMMAND	2	X	-	-	-	X	
15		-	X	-	-	OPEN COMMAND	2	X	-	-	-	X	
16		-	X	-	-	STOP COMMAND	2	X	-	-	-	X	
17	V-2	-	X	-	-	VALVE POSITION COMMAND	TSPR	-	X	-	-	X	
18		-	X	-	-	VALVE POSITION COMMAND FEEDBACK	TSPR	-	X	-	X	-	
19		-	X	-	-	VALVE TORQUE FEEDBACK	TSPR	-	X	-	X	-	
20		-	X	-	-	FAULT STATUS	2	X	-	-	X	-	
21		-	X	-	-	CLOSE STATUS	2	X	-	-	X	-	
22		-	X	-	-	OPEN STATUS	2	X	-	-	X	-	
23		-	X	-	-	REMOTE STATUS	2	X	-	-	X	-	
24		-	X	-	-	TORQUE CLOSE STATUS	2	X	-	-	X	-	
25		-	X	-	-	TORQUE OPEN STATUS	2	X	-	-	X	-	
26		-	X	-	-	MODE COMMAND	2	X	-	-	-	X	
27		-	X	-	-	CLOSE COMMAND	2	X	-	-	-	X	
28		-	X	-	-	OPEN COMMAND	2	X	-	-	-	X	
29		-	X	-	-	STOP COMMAND	2	X	-	-	-	X	

① PROVIDE NEW I/O MODULES AS REQUIRED.

CONTROL PANEL NOTES:

- CONTROL JUNCTION BOXES SHALL BE SIZED PER THE N.E.C. AS A MINIMUM.
- RUN ALL CONTROL CABLES IN SEPARATE CONDUITS FROM POWER CIRCUITS. RUN SHIELDED CABLES (ANALOG) AND LAN CABLES IN SEPARATE CONDUIT FROM OTHER CONTROL CABLES (DISCRETE).
- SEE CONTROL CABLES CONDUIT SCHEDULE FOR CONTROL CABLE CONDUIT SIZING REQUIREMENTS.
- FURNISH AND INSTALL ALL CONDUIT AND WIRING AS REQUIRED FOR COMPLETE FUNCTIONALITY OF EQUIPMENT AS SPECIFIED AND AS IDENTIFIED BY THE MANUFACTURER. COORDINATE FIELD WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
- REFER TO CIVIL DRAWINGS AND SECTIONS FOR EXACT EQUIPMENT LOCATIONS.
- LOCATE CONTROLS CONDUIT AND JUNCTION BOXES SO AS NOT TO INTERFERE WITH EQUIPMENT OPERATION, MAINTENANCE, OR REPLACEMENT.
- A CONDUIT FOR ANALOG CABLE SHALL TERMINATE IN EQUIPMENT ENCLOSURE AS CLOSE AS POSSIBLE TO THE TERMINALS. CABLES SHALL NOT PASS NEAR TO CABLES OR EQUIPMENT OPERATING ABOVE 24V.
- INTERNAL AND EXTERNAL I/O SHALL BE LANDED ON TERMINAL STRIPS.
- I/O IDENTIFIED ON CONTROL DIAGRAM SHEETS ARE FOR INPUTS & OUTPUTS EXTERNAL TO THE EQUIPMENT CONTROL PANEL. I/O NECESSARY FOR THE COMPLETE FUNCTIONALITY OF THE EQUIPMENT (INTERNAL I/O) SHALL BE PROVIDED BY THE EQUIPMENT MANUFACTURER. THE CONTRACTOR SHALL FURNISH & INSTALL CONDUIT AND WIRE REQUIRED FOR COMPLETE FUNCTIONALITY OF EQUIPMENT AS SPECIFIED AND AS IDENTIFIED BY THE MANUFACTURER. THE CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER TO DETERMINE FIELD WIRING REQUIREMENTS.
- IN WET WELL: PROVIDE STAINLESS STEEL KELLEMS STRAIN RELIEF SUPPORTED FROM TOP WET WELL FOR PUMP CABLES AND LEVEL CONTROL SYSTEM. PROVIDE STAINLESS STEEL HOOKS IN STRUCTURE TO ACCEPT GRIP EYES

No.	Revision	By	Date
WASTEWATER PLANT 2 INFLUENT FORCE MAIN - PHASE 2 CONTROL SCHEDULE GARY JANZEN, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 468-85202			
			
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com	
Designed by	RWW	Job No.	35-15554-1-0042
Drawn by	JBC	Date	NOVEMBER 2016
			Sht. EA002 of 60