

	I/O List		Document Code	634683-0000-48EL-0001
			Revision	00
Client City of Winnipeg				
Project Route 90 Underpass Pumping Station - 2016 Upgrades				
Package / Area CP-U81 Control Panel				
Prepared By	Name	Signature	Date	
	B. Cleven		2016/08/29	
Checked By	Name	Signature	Date	
Approved By	Name	Signature	Date	
Notes / Comments				

Revisions					
Rev	Description	Date	By	Checked	Approved
00	Issued for Tender, Bid Op. 767-2016	2016-08-29	B. Cleven	F. Ataei	I. Parkinson

Discrete Inputs

Module Address	Hardware Point	Wire Tag	DNP3 Register	Tag	Description	0 State	1 State	P&ID Dwg	PLC Tag Name
0	0	I1	0	YL-U522	Alarm Test	Normal	Alarm Test	-	-
0	1	I2	1	LSH-U500	Hi Wet Well Alarm	Normal	Alarm	-	-
0	2	I3	2	LSHH-U500	Hi-Hi Wet Well Alarm	Normal	Alarm	-	-
0	3	I4	3	YAF-U500	Loss of Echo	Normal	Alarm	-	-
0	4	I5	4	AAH-U550	Gas Detection Alarm	Normal	Alarm	-	-
0	5	I6	5	YAF-U550	Gas Detector Fail	Normal	Alarm	-	-
0	6	I7	6	ESL-U721	600 VAC Power OK	Alarm	Normal	-	-
0	7	I8	7	ESL-U528	120 VAC Power OK	Alarm	Normal	-	-
0	8	I9	8	YA-U543	UPS Alarm or Bat Mode	Normal	Alarm	-	-
0	9	I10	9	YL-U543	UPS Charging	-	Charging	-	-
0	10	I11	10	YL-U508-1	RTU Mode	Not RTU	RTU	-	-
0	11	I12	11	YL-U508-2	Local Mode	Not Local	Local	-	-
0	12	I13	12	HS-U510	Reset	-	Reset	-	-
0	13	I14	13	-	Spare	-	-	-	-
0	14	I15	14	-	Spare	-	-	-	-
0	15	I16	15	-	Spare	-	-	-	-
0	16	I17	16	YL-U010	Pump P-U01 Ready	Not Ready	Ready	-	-
0	17	I18	17	YLR-U010	Pump P-U01 Running	Stopped	Running	-	-
0	18	I19	18	YAF-U010	Pump P-U01 Softstarter Fault	Normal	Fail	-	-
0	19	I20	19	IA-U010	Pump P-U01 Overload Tripped	Normal	Tripped	-	-
0	20	I21	20	HS-U010-4A	Pump P-U01 Auto Mode	-	Auto	-	-
0	21	I22	21	HS-U010-4M	Pump P-U01 Manual Mode	-	Manual	-	-
0	22	I23	22	HS-U010-1S	Pump P-U01 Softstart Mode	-	SS Mode	-	-
0	23	I24	23	HS-U010-1A	Pump P-U01 Across the Line Mode	-	ATL Mode	-	-
0	24	I25	24	YL-U020	Pump P-U02 Ready	Not Ready	Ready	-	-
0	25	I26	25	YLR-U020	Pump P-U02 Running	Stopped	Running	-	-
0	26	I27	26	YAF-U020	Pump P-U02 Softstarter Fault	Normal	Fail	-	-
0	27	I28	27	IA-U020	Pump P-U02 Overload Tripped	Normal	Tripped	-	-
0	28	I29	28	HS-U020-4A	Pump P-U02 Auto Mode	-	Auto	-	-
0	29	I30	29	HS-U020-4M	Pump P-U02 Manual Mode	-	Manual	-	-
0	30	I31	30	HS-U020-1S	Pump P-U02 Softstart Mode	-	SS Mode	-	-
0	31	I32	31	HS-U020-1A	Pump P-U02 Across the Line Mode	-	ATL Mode	-	-
-	0	I49	48	-	Spare	-	-	-	-
-	1	I50	49	-	Spare	-	-	-	-
-	2	I51	50	-	Spare	-	-	-	-
-	3	I52	51	-	Spare	-	-	-	-
-	4	I53	52	-	Spare	-	-	-	-
-	5	I54	53	-	Spare	-	-	-	-
-	6	I55	54	-	Spare	-	-	-	-
-	7	I56	55	-	Spare	-	-	-	-

Module Address	Hardware Point	Wire Tag	DNP3 Register	Tag	Description	0 State	1 State	P&ID Dwg	PLC Tag Name
1	0	I33	32	YLR-U030	Engine ENG-U03 Running	Stopped	Running	-	-
1	1	I34	33	YAF-U030	Engine ENG-U03 Fail	Normal	Alarm	-	-
1	2	I35	34	YLR-U630	Main Floor Supply Fan SF-U63 Running	Stopped	Running	-	-
1	3	I36	35	IA-U630	Main Floor Supply Fan SF-U63 Overload Tripped	Normal	Alarm	-	-
1	4	I37	36	YLR-U650	Main Floor Cooling Fan SF-U65 Running	Stopped	Running	-	-
1	5	I38	37	IA-U650	Main Floor Cooling Fan SF-U65 Overload Tripped	Normal	Alarm	-	-
1	6	I39	38	PDSH-U610	Main Floor Cooling Fan Filter FIL-U61 Plugged	Normal	Alarm	-	-
1	7	I40	39	XS-U712	MCC-U71 TVSS Status	Alarm	Normal	-	-
1	8	I41	40	TSH-U600	Room High Temperature	Normal	Alarm	-	-
1	9	I42	41	TSL-U600	Room Low Temperature	Normal	Alarm	-	-
1	10	I43	42	ZAF-U604	Combustion Air Damper Fail to Open	Normal	Alarm	-	-
1	11	I44	43	-	Spare	-	-	-	-
1	12	I45	44	-	Spare	-	-	-	-
1	13	I46	45	-	Spare	-	-	-	-
1	14	I47	46	-	Spare	-	-	-	-
1	15	I48	47	-	Spare	-	-	-	-

Discrete Outputs

Module Address	Hardware Point	Wire Tag	DNP3 Register	Tag	Description	0 State	1 State	P&ID Dwg	PLC Tag Name
0	0	Q1	-	YCR-U010	P-U01 Run Command	Stop	Run	-	-
0	1	Q2	-	YCR-U020	P-U02 Run Command	Stop	Run	-	-
0	2	Q3	-	-	Spare	-	-	-	-
0	3	Q4	-	-	Spare	-	-	-	-
0	4	Q5	-	-	Spare	-	-	-	-
0	5	Q6	-	-	Spare	-	-	-	-
0	6	Q7	-	-	Spare	-	-	-	-
0	7	Q8	-	-	Spare	-	-	-	-
0	8	Q9	-	-	Spare	-	-	-	-
0	9	Q10	-	-	Spare	-	-	-	-
0	10	Q11	-	-	Spare	-	-	-	-
0	11	Q12	-	-	Spare	-	-	-	-
0	12	Q13	-	-	Spare	-	-	-	-
0	13	Q14	-	YL-U510	Fail to Local	-	Fail to Local	-	-
0	14	Q15	-	YC-A508-1	Local Mode	-	Local Mode	-	-
0	15	Q16	-	YC-A508-2	RTU Mode	-	RTU Mode	-	-

Analog Inputs

Module Address	Hardware Point	Wire Tag	DNP3 Register	Tag	Description	Type	EU Range	P&ID Dwg	PLC Tag Name
0	0	AI1	0	LIT-U500	Wetwell Level Transmitter	4-20 mA	0 - 8 m	-	-
0	1	AI2	1	-	Spare	4-20 mA	-	-	-
0	2	AI3	2	-	Spare	4-20 mA	-	-	-
0	3	AI4	3	-	Spare	4-20 mA	-	-	-
0	4	AI5	4	IT-U010	P-U01 Motor Current	4-20 mA	0 - 100 A	-	-
0	5	AI6	5	IT-U020	P-U02 Motor Current	4-20 mA	0 - 100 A	-	-
0	6	AI7	6	-	Spare	4-20 mA	-	-	-
0	7	AI8	7	-	Spare	4-20 mA	-	-	-
-	0	AI9	8	-	Spare	4-20 mA	-	-	-
-	1	AI10	9	-	Spare	4-20 mA	-	-	-
-	2	AI11	10	-	Spare	4-20 mA	-	-	-
-	3	AI12	11	-	Spare	4-20 mA	-	-	-
-	4	AI13	12	-	Spare	4-20 mA	-	-	-
-	5	-	-	-	Spare (Not Wired to Terminals)	0-32.768V	-	-	-

Analog Outputs

Module Address	Hardware Point	Wire Tag	DNP3 Register	Tag	Description	Type	EU Range	P&ID Dwg	PLC Tag Name
0	0	AQ1	0	-	Spare	4-20 mA	-	-	-
0	1	AQ2	1	-	Spare	4-20 mA	-	-	-
-	0	AQ3	2	-	Spare	4-20 mA	-	-	-
-	1	AQ4	3	-	Spare	4-20 mA	-	-	-