

PLC I/O INDEX

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0001	1	LA-H510C	Level Alarm	Backwash Pump Gallery Sanitary Sump High High Level Alarm	WH-P0002						LCP-F02	DI	
0002	1	MN-H510A	Start Command	Backwash Pump Gallery Sanitary Sump Pump Start	WH-P0002						LCP-F02	DO	
0003	1	UF-H511A	No Fault	Backwash Pump Gallery Sanitary Sump Pump P-H511A Fault	WH-P0002						LCP-F02	DI	
0004	1	UF-H512A	No Fault	Backwash Pump Gallery Sanitary Sump Pump P-H512A Fault	WH-P0002						LCP-F02	DI	
0005	1	LA-H500C	Level Alarm	Fire Pump Room Sanitary Sump High High Level Alarm	WH-P0001						LCP-H10	DI	
0006	1	MN-H500A	Start Command	Fire Pump Room Sanitary Sump Pump Start	WH-P0001						LCP-H10	DO	
0007	1	UF-H501A	No Fault	Fire Pump Room Sanitary Sump Pump P-H501A Fault	WH-P0001						LCP-H10	DI	
0008	1	UF-H502A	No Fault	Fire Pump Room Sanitary Sump Pump P-H502A Fault	WH-P0001						LCP-H10	DI	
0009	1	LA-H530C	Level Alarm	Admin Area Sanitary Sump High High Level Alarm	WH-P0004						LCP-H10	DI	
0010	1	MN-H530A	Start Command	Admin Area Sanitary Sump Pump Start	WH-P0004						LCP-H10	DO	
0011	1	UF-H531A	No Fault	Admin Area Sanitary Sump Pump P-H531A Fault	WH-P0004						LCP-H10	DI	
0012	1	UF-H532A	No Fault	Admin Area Sanitary Sump Pump P-H532A Fault	WH-P0004						LCP-H10	DI	
0013	1	MN-H521A	Start Command	Elevator Pit Sanitary Pump Start	WH-P0003						LCP-H10	DO	
0014	1	UF-H521A	No Fault	Elevator Pit Sanitary Pump Fault	WH-P0003						LCP-H10	DI	
0015	1	MM-H701A	Running Status	Potable Water to Clearwell Area Booster Pump Running	WH-P0005						LCP-H10	DI	
0016	1	MN-H701A	Start Command	Potable Water to Clearwell Area Booster Pump Start	WH-P0005						LCP-H10	DO	
0017	1	PI-H701A	Pressure Indication	Potable Water to Clearwell Area Pressure	WH-P0005						LCP-H10	AI	
0018	1	UF-H701A	No Fault	Potable Water to Clearwell Area Booster Pump Fault	WH-P0005						LCP-H10	DI	
0019	1	YS-H701A	C/O/H Switch in Computer Position	Potable Water to Clearwell Area Booster Pump in Computer Mode	WH-P0005						LCP-H10	DI	
0020	1	SC-H702A	Speed Control Output	Potable Water to Water Treatment Booster Pump Required Speed	WH-P0005						LCP-H10A	AO TCP	
0021	1	SI-H702A	Speed Indication	Potable Water to Water Treatment Booster Pump Speed	WH-P0005						LCP-H10A	AI TCP	
0022	1	MM-H702A	Running Status	Potable Water to Water Treatment Booster Pump Running	WH-P0005						LCP-H10A	DI TCP	
0023	1	MN-H702A	Start Command	Potable Water to Water Treatment Booster Pump Start	WH-P0005						LCP-H10A	DO TCP	
0024	1	UF-H702A	No Fault	Potable Water to Water Treatment Booster Pump Fault	WH-P0005						LCP-H10A	DI TCP	
0025	1	YS-H702A	C/O/H Switch in Computer Position	Potable Water to Water Treatment Booster Pump in Computer Mode	WH-P0005						LCP-H10A	DI TCP	
0026	1	SC-H703A	Speed Control Output	Potable Water to Water Treatment Booster Pump Required Speed	WH-P0005						LCP-H10A	AO TCP	
0027	1	SI-H703A	Speed Indication	Potable Water to Water Treatment Booster Pump Speed	WH-P0005						LCP-H10A	AI TCP	
0028	1	MM-H703A	Running Status	Potable Water to Water Treatment Booster Pump Running	WH-P0005						LCP-H10A	DI TCP	
0029	1	MN-H703A	Start Command	Potable Water to Water Treatment Booster Pump Start	WH-P0005						LCP-H10A	DO TCP	
0030	1	PI-H704A	Pressure Indication	Potable Water to Water Treatment Plant Pressure	WH-P0005						LCP-H10A	AI TCP	
0031	1	UF-H703A	No Fault	Potable Water to Water Treatment Booster Pump Fault	WH-P0005						LCP-H10A	DI TCP	
0032	1	YS-H703A	C/O/H Switch in Computer Position	Potable Water to Water Treatment Booster Pump in Computer Mode	WH-P0005						LCP-H10A	DI TCP	
0033	0	FI-C001B	Flow Indication	Standby Emulsion Polymer Flow to Storage Tanks Flow Rate	WC-P0007						CP-C11	AI	
0034	0	FQ-C001B	Flow Pulse	Standby Emulsion Polymer Flow to Storage Tanks Flow Total	WC-P0007						CP-C11	DI	
0035	0	MM-C001A	Running Status	Standby Emulsion Polymer Pump Running	WC-P0007						CP-C11	DI	
0036	0	MN-C001A	Start Command	Standby Emulsion Polymer Pump Start	WC-P0007						CP-C11	DO	
0037	0	UF-C001A	No Fault	Standby Emulsion Polymer Pump Fault	WC-P0007						CP-C11	DI	
0038	0	WF-C001B	Weight Fault	Standby Emulsion Polymer Weight Fault	WC-P0007						CP-C11	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

City of Winnipeg Water Treatment Program
 Supply and Installation of Water Treatment Plant Process Mechanical and Electrical
 Bid Opportunity No. 742-2005 Addendum 6

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0039	0	WI-C001B	Weight Indication	Standby Emulsion Polymer Weight	WC-P0007						CP-C11	AI	
0040	0	YS-C001A	C/O/H Switch in Computer Position	Standby Emulsion Polymer Pump in Computer Mode	WC-P0007						CP-C11	DI	
0041	0	LA-C005A	Level Alarm	Sludge Polymer Containment Area Level High	WC-P0007						CP-C11	DI	
0042	0	LA-C020A	Level Alarm	Filter Polymer Bulk Powder Unloading Hopper Low	WC-P0005						CP-C11	DI	
0043	0	LA-C020B	Level Alarm	Filter Polymer Bulk Powder Screw Feeder Blocked	WC-P0005						CP-C11	DI	
0044	0	MM-C020A	Running Status	Filter Polymer Bulk Powder Unloading Blower Running	WC-P0005						CP-C11	DI	
0045	0	MN-C020A	Start Command	Filter Polymer Bulk Powder Unloading Blower Start	WC-P0005						CP-C11	DO	
0046	0	MM-C020B	Running Status	Filter Polymer Bulk Powder Unloading Screw Feeder Running	WC-P0005						CP-C11	DI	
0047	0	MN-C020B	Start Command	Filter Polymer Bulk Powder Unloading Screw Feeder Start	WC-P0005						CP-C11	DO	
0048	0	UF-C020A	No Fault	Filter Polymer Bulk Powder Unloading Blower Fault	WC-P0005						CP-C11	DI	
0049	0	UF-C020B	No Fault	Filter Polymer Bulk Powder Unloading Screw Feeder Fault	WC-P0005						CP-C11	DI	
0050	0	WF-C020A	Weight Fault	Filter Polymer Bulk Powder Weight Fault	WC-P0005						CP-C11	DI	
0051	0	WI-C020A	Weight Indication	Filter Polymer Bulk Powder Weight	WC-P0005						CP-C11	AI	
0052	0	YS-C020A	C/O/H Switch in Computer Position	Filter Polymer Bulk Powder Unloading Blower in Computer Mode	WC-P0005						CP-C11	DI	
0053	0	YS-C020B	C/O/H Switch in Computer Position	Filter Polymer Bulk Powder Unloading Screw Feeder in Computer Mode	WC-P0005						CP-C11	DI	
0054	1	MM-C020C	Running Status	Filter Polymer Bulk Powder Unloading Hopper Running	WC-P0005						CP-C11	DI	
0055	1	MN-C020C	Start Command	Filter Polymer Bulk Powder Unloading Hopper Start	WC-P0005						CP-C11	DO	
0056	1	UF-C020C	No Fault	Filter Polymer Bulk Powder Unloading Hopper Fault	WC-P0005						CP-C11	DI	
0057	1	YS-C020C	C/O/H Switch in Computer Position	Filter Polymer Bulk Powder Unloading Hopper in Computer Mode	WC-P0005						CP-C11	DI	
0058	1	TA-C020A	Temperature Alarm	Polymer Makeup Plant Service Water Low Temperature	WC-P0006						CP-C11	DI	
0059	0	LA-C021A	Level Alarm	Filter Polymer Preparation Tank High	WC-P0006						CP-C11	DI	
0060	0	LA-C021B	Level Alarm	Filter Polymer Preparation Tank Low	WC-P0006						CP-C11	DI	
0061	0	MM-C021A	Running Status	Filter Polymer Preparation Tank Mixer Running	WC-P0006						CP-C11	DI	
0062	0	MN-C021A	Start Command	Filter Polymer Preparation Tank Mixer Start	WC-P0006						CP-C11	DO	
0063	0	UF-C021A	No Fault	Filter Polymer Preparation Tank Mixer Fault	WC-P0006						CP-C11	DI	
0064	0	YB-C021A	Close Command	Filter Polymer Preparation Tank Outlet Valve Close	WC-P0006						CP-C11	DO	
0065	0	YD-C021A	Open Command	Filter Polymer Preparation Tank Outlet Valve Open	WC-P0006						CP-C11	DO	
0066	0	YS-C021A	C/O/H Switch in Computer Position	Filter Polymer Preparation Tank Mixer in Computer Mode	WC-P0006						CP-C11	DI	
0067	0	YS-C021A	C/O/H Switch in Computer Position	Filter Polymer Preparation Tank Outlet Valve in Computer Mode	WC-P0006						CP-C11	DI	
0068	0	YD-C021B	Solenoid Actuator	Filter Polymer Preparation Tank Service Water Inlet Valve Open	WC-P0006						CP-C11	DO	
0069	0	ZB-C021A	Closed Status	Filter Polymer Preparation Tank Outlet Valve Closed	WC-P0006						CP-C11	DI	
0070	0	ZD-C021A	Open Status	Filter Polymer Preparation Tank Outlet Valve Open	WC-P0006						CP-C11	DI	
0071	0	LF-C022A	Level Fault	Filter Polymer Feed Tank Level Fault	WC-P0008						CP-C11	DI	
0072	0	LI-C022A	Level Indication	Filter Polymer Feed Tank Level	WC-P0008						CP-C11	AI	
0073	0	LA-C030A	Level Alarm	Sludge Polymer Bulk Powder Unloading Hopper Low	WC-P0005						CP-C11	DI	
0074	0	LA-C030B	Level Alarm	Sludge Polymer Bulk Powder Screw Feeder Blocked	WC-P0005						CP-C11	DI	
0075	0	MM-C030A	Running Status	Sludge Polymer Bulk Powder Unloading Blower Running	WC-P0005						CP-C11	DI	
0076	0	MN-C030A	Start Command	Sludge Polymer Bulk Powder Unloading Blower Start	WC-P0005						CP-C11	DO	
0077	0	MM-C030B	Running Status	Sludge Polymer Bulk Powder Unloading Screw Feeder Running	WC-P0005						CP-C11	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0078	0	MN-C030B	Start Command	Sludge Polymer Bulk Powder Unloading Screw Feeder Start	WC-P0005						CP-C11	DO	
0079	0	UF-C030A	No Fault	Sludge Polymer Bulk Powder Unloading Blower Fault	WC-P0005						CP-C11	DI	
0080	0	UF-C030B	No Fault	Sludge Polymer Bulk Powder Unloading Screw Feeder Fault	WC-P0005						CP-C11	DI	
0081	0	WF-C030A	Weight Fault	Sludge Polymer Bulk Powder Weight Fault	WC-P0005						CP-C11	DI	
0082	0	WI-C030A	Weight Indication	Sludge Polymer Bulk Powder Weight	WC-P0005						CP-C11	AI	
0083	0	YS-C030A	C/O/H Switch in Computer Position	Sludge Polymer Bulk Powder Unloading Blower in Computer Mode	WC-P0005						CP-C11	DI	
0084	0	YS-C030B	C/O/H Switch in Computer Position	Sludge Polymer Bulk Powder Unloading Screw Feeder in Computer Mode	WC-P0005						CP-C11	DI	
0085	1	MM-C030A	Running Status	Sludge Polymer Bulk Powder Unloading Hopper Running	WC-P0005						CP-C11	DI	
0086	1	MN-C030A	Start Command	Sludge Polymer Bulk Powder Unloading Hopper Start	WC-P0005						CP-C11	DO	
0087	1	UF-C030A	No Fault	Sludge Polymer Bulk Powder Unloading Hopper Fault	WC-P0005						CP-C11	DI	
0088	1	YS-C030A	C/O/H Switch in Computer Position	Sludge Polymer Bulk Powder Unloading Hopper in Computer Mode	WC-P0005						CP-C11	DI	
0089	0	LA-C031A	Level Alarm	Sludge Polymer Preparation Tank High	WC-P0007						CP-C11	DI	
0090	0	LA-C031B	Level Alarm	Sludge Polymer Preparation Tank Low	WC-P0007						CP-C11	DI	
0091	0	MM-C031A	Running Status	Sludge Polymer Preparation Tank Mixer Running	WC-P0007						CP-C11	DI	
0092	0	MN-C031A	Start Command	Sludge Polymer Preparation Tank Mixer Start	WC-P0007						CP-C11	DO	
0093	0	UF-C031A	No Fault	Sludge Polymer Preparation Tank Mixer Fault	WC-P0007						CP-C11	DI	
0094	0	YB-C031A	Close Command	Sludge Polymer Preparation Tank Outlet Valve Close	WC-P0007						CP-C11	DO	
0095	0	YD-C031A	Open Command	Sludge Polymer Preparation Tank Outlet Valve Open	WC-P0007						CP-C11	DO	
0096	0	YS-C031A	C/O/H Switch in Computer Position	Sludge Polymer Preparation Tank Mixer in Computer Mode	WC-P0007						CP-C11	DI	
0097	0	YS-C031A	C/O/H Switch in Computer Position	Sludge Polymer Preparation Tank Outlet Valve in Computer Mode	WC-P0007						CP-C11	DI	
0098	0	YD-C031B	Solenoid Actuator	Sludge Polymer Preparation Tank Service Water Inlet Valve Open	WC-P0007						CP-C11	DO	
0099	0	ZB-C031A	Closed Status	Sludge Polymer Preparation Tank Outlet Valve Closed	WC-P0007						CP-C11	DI	
0100	0	ZD-C031A	Open Status	Sludge Polymer Preparation Tank Outlet Valve Open	WC-P0007						CP-C11	DI	
0101	0	LF-C032A	Level Fault	Sludge Polymer Feed Tank Level Fault	WC-P0009						CP-C11	DI	
0102	0	LI-C032A	Level Indication	Sludge Polymer Feed Tank Level	WC-P0009						CP-C11	AI	
0103	0	FA-C061A	Flow Alarm	Service Water to P-C061A Low Flow	WC-P0014						CP-C11	DI	
0104	0	FI-C061A	Flow Indication	Filter Polymer Feed Pump P-C061A Discharge Flow Rate	WC-P0014						CP-C11	AI	
0105	0	FQ-C061A	Flow Pulse	Filter Polymer Feed Pump P-C061A Discharge Flow Total	WC-P0014						CP-C11	DI	
0106	1	MM-C061A	Running Status	Filter Polymer Feed Pump P-C061A Running	WC-P0014						CP-C11A	DI TCP	
0107	1	MN-C061A	Start Command	Filter Polymer Feed Pump P-C061A Start	WC-P0014						CP-C11A	DO TCP	
0108	1	SC-C061A	Speed Control Output	Filter Polymer Feed Pump P-C061A Required Speed	WC-P0014						CP-C11A	AO TCP	
0109	1	SI-C061A	Speed Indication	Filter Polymer Feed Pump P-C061A Speed	WC-P0014						CP-C11A	AI TCP	
0110	1	UF-C061A	No Fault	Filter Polymer Feed Pump P-C061A Fault	WC-P0014						CP-C11A	DI TCP	
0111	0	YD-C061A	Open Command	Service Water to P-C061A Discharge Flow Control Valve Open	WC-P0014						CP-C11	DO	
0112	1	YS-C061A	C/O/H Switch in Computer Position	Filter Polymer Feed Pump P-C061A in Computer Mode	WC-P0014						CP-C11A	DI TCP	
0113	0	FA-C062A	Flow Alarm	Service Water to P-C062A Low Flow	WC-P0014						CP-C11	DI	
0114	0	FI-C062A	Flow Indication	Filter Polymer Feed Pump P-C062A Discharge Flow Rate	WC-P0014						CP-C11	AI	
0115	0	FQ-C062A	Flow Pulse	Filter Polymer Feed Pump P-C062A Discharge Flow Total	WC-P0014						CP-C11	DI	
0116	1	MM-C062A	Running Status	Filter Polymer Feed Pump P-C062A Running	WC-P0014						CP-C11A	DI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0117	1	MN-C062A	Start Command	Filter Polymer Feed Pump P-C062A Start	WC-P0014						CP-C11A	DO TCP	
0118	1	SC-C062A	Speed Control Output	Filter Polymer Feed Pump P-C062A Required Speed	WC-P0014						CP-C11A	AO TCP	
0119	1	SI-C062A	Speed Indication	Filter Polymer Feed Pump P-C062A Speed	WC-P0014						CP-C11A	AI TCP	
0120	1	UF-C062A	No Fault	Filter Polymer Feed Pump P-C062A Fault	WC-P0014						CP-C11A	DI TCP	
0121	0	YD-C062A	Open Command	Service Water to P-C062A Discharge Flow Control Valve Open	WC-P0014						CP-C11	DO	
0122	1	YS-C062A	C/O/H Switch in Computer Position	Filter Polymer Feed Pump P-C062A in Computer Mode	WC-P0014						CP-C11A	DI TCP	
0123	0	FA-C063A	Flow Alarm	Service Water to P-C063A Low Flow	WC-P0014						CP-C11	DI	
0124	0	FI-C063A	Flow Indication	Filter Polymer Feed Pump P-C063A Discharge Flow Rate	WC-P0014						CP-C11	AI	
0125	1	FQ-C063A	Flow Pulse	Filter Polymer Feed Pump P-C063A Discharge Flow Total	WC-P0014						CP-C11	DI	
0126	1	MM-C063A	Running Status	Filter Polymer Common Standby Feed Pump Running	WC-P0014						CP-C11A	DI TCP	
0127	1	MN-C063A	Start Command	Filter Polymer Common Standby Feed Pump Start	WC-P0014						CP-C11A	DO TCP	
0128	1	SC-C063A	Speed Control Output	Filter Polymer Common Standby Feed Pump Required Speed	WC-P0014						CP-C11A	AO TCP	
0129	1	SI-C063A	Speed Indication	Filter Polymer Common Standby Feed Pump Speed	WC-P0014						CP-C11A	AI TCP	
0130	1	UF-C063A	No Fault	Filter Polymer Common Standby Feed Pump Fault	WC-P0014						CP-C11A	DI TCP	
0131	0	YD-C063A	Open Command	Service Water to P-C063A Discharge Flow Control Valve Open	WC-P0014						CP-C11	DO	
0132	1	YS-C063A	C/O/H Switch in Computer Position	Filter Polymer Common Standby Feed Pump in Computer Mode	WC-P0014						CP-C11A	DI TCP	
0133	0	YB-C064B	Close Command	Common Standby Pump P-C063A to Filter Aid Mixing Chamber Control Valve Close	WC-P0014						CP-C11	DO	
0134	0	YD-C064B	Open Command	Common Standby Pump P-C063A to Filter Aid Mixing Chamber Control Valve Open	WC-P0014						CP-C11	DO	
0135	0	YS-C064B	C/O/H Switch in Computer Position	Common Standby Pump P-C063A to Filter Aid Mixing Chamber Control Valve in Computer Mode	WC-P0014						CP-C11	DI	
0136	0	ZB-C064B	Closed Status	Common Standby Pump P-C063A to Filter Aid Mixing Chamber Control Valve Closed	WC-P0014						CP-C11	DI	
0137	0	ZD-C064B	Open Status	Common Standby Pump P-C063A to Filter Aid Mixing Chamber Control Valve Open	WC-P0014						CP-C11	DI	
0138	0	YB-C065B	Close Command	Common Standby Pump P-C063A to Filter Aid Mixing Chamber Control Valve Close	WC-P0014						CP-C11	DO	
0139	0	YD-C065B	Open Command	Common Standby Pump P-C063A to Filter Aid Mixing Chamber Control Valve Open	WC-P0014						CP-C11	DO	
0140	0	YS-C065B	C/O/H Switch in Computer Position	Common Standby Pump P-C063A to Filter Aid Mixing Chamber Control Valve in Computer Mode	WC-P0014						CP-C11	DI	
0141	0	ZB-C065B	Closed Status	Common Standby Pump P-C063A to Filter Aid Mixing Chamber Control Valve Closed	WC-P0014						CP-C11	DI	
0142	0	ZD-C065B	Open Status	Common Standby Pump P-C063A to Filter Aid Mixing Chamber Control Valve Open	WC-P0014						CP-C11	DI	
0143	0	FA-C071A	Flow Alarm	Service Water to P-C071A Low Flow	WC-P0015						CP-C11	DI	
0144	0	FI-C071A	Flow Indication	Sludge Polymer Feed Pump P-C071A Discharge Flow Rate	WC-P0015						CP-C11	AI	
0145	0	FQ-C071A	Flow Pulse	Sludge Polymer Feed Pump P-C071A Discharge Flow Total	WC-P0015						CP-C11	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0146	1	MM-C071A	Running Status	Sludge Polymer Feed Pump P-C071A Running	WC-P0015						CP-C11A	DI TCP	
0147	1	MN-C071A	Start Command	Sludge Polymer Feed Pump P-C071A Start	WC-P0015						CP-C11A	DO TCP	
0148	1	SC-C071A	Speed Control Output	Sludge Polymer Feed Pump P-C071A Speed Indication	WC-P0015						CP-C11A	AO TCP	
0149	1	SI-C071A	Speed Indication	Sludge Polymer Feed Pump P-C071A Speed	WC-P0015						CP-C11A	AI TCP	
0150	1	UF-C071A	No Fault	Sludge Polymer Feed Pump P-C071A Fault	WC-P0015						CP-C11A	DI TCP	
0151	0	YD-C071A	Open Command	Service Water to P-C071 Discharge Flow Control Valve Open	WC-P0015						CP-C11	DO	
0152	1	YS-C071A	C/O/H Switch in Computer Position	Sludge Polymer Feed Pump P-C071A in Computer Mode	WC-P0015						CP-C11A	DI TCP	
0153	1	YB-C073A	Close Command	Sludge Polymer Feed Pump Discharge Flow Control Valve Closed	WC-P0015						CP-C11	DO	
0154	1	YD-C073B	Open Command	Sludge Polymer Feed Pump Discharge Flow Control Valve Open	WC-P0015						CP-C11	DO	
0155	1	YS-C073A	C/O/H Switch in Computer Position	Sludge Polymer Feed Pump Discharge Flow Control Valve in Computer Mode	WC-P0015						CP-C11	DI	
0156	1	ZB-C073A	Closed Status	Sludge Polymer Feed Pump Discharge Flow Control Valve Closed	WC-P0015						CP-C11	DI	
0157	1	ZD-C073A	Open Status	Sludge Polymer Feed Pump Discharge Flow Control Valve Open	WC-P0015						CP-C11	DI	
0158	0	FA-C072A	Flow Alarm	Service Water to P-C072A Low Flow	WC-P0015						CP-C11	DI	
0159	0	FI-C072A	Flow Indication	Sludge Polymer Feed Pump P-C072A Discharge Flow Rate	WC-P0015						CP-C11	AI	
0160	1	FO-C072A	Flow Pulse	Sludge Polymer Feed Pump P-C072A Discharge Flow Total	WC-P0015						CP-C11	DI	
0161	1	MM-C072A	Running Status	Sludge Polymer Feed Pump P-C072A Running	WC-P0015						CP-C11A	DI TCP	
0162	1	MN-C072A	Start Command	Sludge Polymer Feed Pump P-C072A Start	WC-P0015						CP-C11A	DO TCP	
0163	1	SC-C072A	Speed Control Output	Sludge Polymer Feed Pump P-C072A Speed Indication	WC-P0015						CP-C11A	AO TCP	
0164	1	SI-C072A	Speed Indication	Sludge Polymer Feed Pump P-C072A Speed	WC-P0015						CP-C11A	AI TCP	
0165	1	UF-C072A	No Fault	Sludge Polymer Feed Pump P-C072A Fault	WC-P0015						CP-C11A	DI TCP	
0166	0	YD-C072A	Open Command	Service Water to P-C072A Discharge Flow Control Valve Open	WC-P0015						CP-C11	DO	
0167	1	YS-C072A	C/O/H Switch in Computer Position	Sludge Polymer Feed Pump P-C072A in Computer Mode	WC-P0015						CP-C11A	DI TCP	
0168	0	LF-C701A	Level Fault	Filter Inlet Chamber (TK-C701A) Level Fault	WO-P0010						CP-H30	DI	
0169	0	LI-C701A	Level Indication	Filter Inlet Chamber (TK-C701A) Level	WO-P0010						CP-H30	AI	
0170	0	MM-C701A	Running Status	Filter Inlet Chamber (TK-C701A) Mixer Running	WO-P0010						CP-H30	DI	
0171	0	MN-C701A	Start Command	Filter Inlet Chamber (TK-C701A) Mixer Start	WO-P0010						CP-H30	DO	
0172	0	UF-C701A	No Fault	Filter Inlet Chamber (TK-C701A) Mixer Fault	WO-P0010						CP-H30	DI	
0173	0	YS-C701A	C/O/H Switch in Computer Position	Filter Inlet Chamber (TK-C701A) Mixer in Computer Mode	WO-P0010						CP-H30	DI	
0174	1	LF-C702A	Level Fault	Filter Inlet Chamber (TK-C702A) Level	WO-P0011						CP-H30	DI	
0175	1	LI-C702A	Level Indication	Filter Inlet Chamber (TK-C702A) Level	WO-P0011						CP-H30	AI	
0176	1	MM-C702A	Running Status	Filter Inlet Chamber (TK-C702A) Mixer Running	WO-P0011						CP-H30	DI	
0177	1	MN-C702A	Start Command	Filter Inlet Chamber (TK-C702A) Mixer Start	WO-P0011						MXR-C702A	DO	
0178	1	UF-C702A	No Fault	Filter Inlet Chamber (TK-C702A) Mixer Fault	WO-P0011						CP-H30	DI	
0179	1	YS-C702A	C/O/H Switch in Computer Position	Filter Inlet Chamber (TK-C702A) Mixer in Computer Mode	WO-P0011						MXR-C702A	DI	
0180	1	LA-C800A	Level Alarm	Hydrogen Peroxide Spill Containment High Level	WC-P0001						CP-H30	DO	
0181	0	LF-C810A	Level Fault	Hydrogen Peroxide Feed Tank TKC810A Level Fault	WC-P0001						CP-H30	DI	
0182	0	LI-C810A	Level Indication	Hydrogen Peroxide Feed Tank TKC810A Level	WC-P0001						CP-H30	AI	
0183	0	LF-C820A	Level Indicator Transmitter	Hydrogen Peroxide Feed Tank TKC820A Level Fault	WC-P0001						CP-H30	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0184	0	LI-C820A	Level Indication	Hydrogen Peroxide Feed Tank TKC820A Level	WC-P0001						CP-H30	AI	
0185	1	TI-C810A	Temperature Indication	Hydrogen Peroxide Feed Tank TKC810A Temperature	WC-P0001						CP-H30	AI	
0186	1	TI-C820A	Temperature Indication	Hydrogen Peroxide Feed Tank TKC820A Temperature	WC-P0001						CP-H30	AI	
0187	1	ZB-C830A	Closed Status	Hydrogen Peroxide Feed Tank TKC810A Outlet Valve Open	WC-P0001						CP-H30	DI	
0188	1	ZD-C830A	Open Status	Hydrogen Peroxide Feed Tank TKC810A Outlet Valve Closed	WC-P0001						CP-H30	DI	
0189	1	ZB-C830C	Closed Status	Hydrogen Peroxide Feed Tank TKC820A Outlet Valve Open	WC-P0001						CP-H30	DI	
0190	1	ZD-C830C	Open Status	Hydrogen Peroxide Feed Tank TKC820A Outlet Valve Closed	WC-P0001						CP-H30	DI	
0191	0	FA-C840A	Flow Alarm	Service Water to P-C840A Low Flow	WC-P0002						CP-H30	DI	
0192	1	MM-C840A	Running Status	Hydrogen Peroxide Dosing to Ozone Contactor #1 Pump Running	WC-P0002						CP-H30A	DI TCP	
0193	1	MN-C840A	Start Command	Hydrogen Peroxide Dosing to Ozone Contactor #1 Pump Start	WC-P0002						CP-H30A	DO TCP	
0194	1	SC-C840A	Speed Control Output	Hydrogen Peroxide Dosing to Ozone Contactor #1 Pump Required Speed	WC-P0002						CP-H30A	AO TCP	
0195	1	SI-C840A	Speed Indication	Hydrogen Peroxide Dosing to Ozone Contactor #1 Pump Speed	WC-P0002						CP-H30A	AI TCP	
0196	1	UF-C840A	No Fault	Hydrogen Peroxide Dosing to Ozone Contactor #1 Pump Fault	WC-P0002						CP-H30A	DI TCP	
0197	0	YD-C840A	Open Command	Service Water to P-C840A Discharge Flow Control Valve Open	WC-P0002						CP-H30	DO	
0198	1	YS-C840A	C/O/H Switch in Computer Position	Hydrogen Peroxide Dosing to Ozone Contactor #1 Pump in Computer Mode	WC-P0002						CP-H30A	DI TCP	
0199	1	FI-C840A	Flow Indication	Hydrogen Peroxide Pump P-C840A Outlet Flow	WC-P0002						CP-H30	AI	
0200	0	FA-C850A	Flow Alarm	Service Water to P-C850A Low Flow	WC-P0002						CP-H30	DI	
0201	1	MM-C850A	Running Status	Hydrogen Peroxide Dosing to Ozone Contactor #2 Pump Running	WC-P0002						CP-H30A	DI TCP	
0202	1	MN-C850A	Start Command	Hydrogen Peroxide Dosing to Ozone Contactor #2 Pump Start	WC-P0002						CP-H30A	DO TCP	
0203	1	SC-C850A	Speed Control Output	Hydrogen Peroxide Dosing to Ozone Contactor #2 Pump Required Speed	WC-P0002						CP-H30A	AO TCP	
0204	1	SI-C850A	Speed Indication	Hydrogen Peroxide Dosing to Ozone Contactor #2 Pump Speed	WC-P0002						CP-H30A	AI TCP	
0205	1	UF-C850A	No Fault	Hydrogen Peroxide Dosing to Ozone Contactor #2 Pump Fault	WC-P0002						CP-H30A	DI TCP	
0206	1	YS-C850A	C/O/H Switch in Computer Position	Hydrogen Peroxide Dosing to Ozone Contactor #2 Pump in Computer Mode	WC-P0002						CP-H30A	DI TCP	
0207	1	FI-C850A	Flow Indication	Hydrogen Peroxide Pump P-C850A Outlet Flow	WC-P0002						CP-H30	AI	
0208	0	YD-C850A	Open Command	Service Water to P-C850A Discharge Flow Control Valve Open	WC-P0002						CP-H30	DO	
0209	0	FA-C860A	Flow Alarm	Service Water to P-C860A Low Flow	WC-P0002						CP-H30	DO	
0210	1	MM-C860A	Running Status	Common Standby Hydrogen Peroxide Dosing Pump Running	WC-P0002						CP-H30A	DI TCP	
0211	1	MN-C860A	Start Command	Common Standby Hydrogen Peroxide Dosing Pump Start	WC-P0002						CP-H30A	DO TCP	
0212	1	SC-C860A	Speed Control Output	Common Standby Hydrogen Peroxide Dosing Pump Required Speed	WC-P0002						CP-H30A	AO TCP	
0213	1	SI-C860A	Speed Indication	Common Standby Hydrogen Peroxide Dosing Pump Speed	WC-P0002						CP-H30A	AI TCP	
0214	1	UF-C860A	No Fault	Common Standby Hydrogen Peroxide Dosing Pump Fault	WC-P0002						CP-H30A	DI TCP	
0215	1	YS-C860A	C/O/H Switch in Computer Position	Common Standby Hydrogen Peroxide Dosing Pump in Computer Mode	WC-P0002						CP-H30A	DI TCP	
0216	1	FI-C860A	Flow Indication	Common Standby Hydrogen Peroxide Dosing Pump Outlet Flow	WC-P0002						CP-H30	AI	
0217	0	YD-C860A	Open Command	Service Water to P-C860A Discharge Flow Control Valve Open	WC-P0002						CP-H30	DI	
0218	0	YB-C860C	Close Command	Hydrogen Peroxide Dosing Pump P-C860A to Ozone Contactor #1 Valve Close	WC-P0002						CP-H30	DO	
0219	0	YD-C860C	Open Command	Hydrogen Peroxide Dosing Pump P-C860A to Ozone Contactor #1 Valve Open	WC-P0002						CP-H30	DO	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	ENG. UNITS	I/O SPECIFICATION						
								SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
0220	0	YS-C860C	C/O/H Switch in Computer Position	Hydrogen Peroxide Dosing Pump P-C860A to Ozone Contactor #1 Valve in Computer Mode		WC-P0002						CP-H30	DI	
0221	0	YB-C860D	Close Command	Hydrogen Peroxide Dosing Pump P-C860A to Ozone Contactor #2 Valve Close		WC-P0002						CP-H30	DO	
0222	0	YD-C860D	Open Command	Hydrogen Peroxide Dosing Pump P-C860A to Ozone Contactor #2 Valve Open		WC-P0002						CP-H30	DO	
0223	0	YS-C860D	C/O/H Switch in Computer Position	Hydrogen Peroxide Dosing Pump P-C860A to Ozone Contactor #2 Valve in Computer Mode		WC-P0002						CP-H30	DI	
0224	0	ZB-C860C	Closed Status	Hydrogen Peroxide Dosing Pump P-C860A to Ozone Contactor #1 Valve Closed		WC-P0002						CP-H30	DI	
0225	0	ZD-C860C	Open Status	Hydrogen Peroxide Dosing Pump P-C860A to Ozone Contactor #1 Valve Open		WC-P0002						CP-H30	DI	
0226	0	ZB-C860D	Closed Status	Hydrogen Peroxide Dosing Pump P-C860A to Ozone Contactor #2 Valve Closed		WC-P0002						CP-H30	DI	
0227	0	ZD-C860D	Open Status	Hydrogen Peroxide Dosing Pump P-C860A to Ozone Contactor #2 Valve Open		WC-P0002						CP-H30	DI	
0228	0	LF-C940B	Level Fault	Sodium Bisulphite Feed Tank Level Fault		WC-P0003						CP-H30	DI	
0229	0	LI-C940B	Level Indication	Sodium Bisulphite Feed Tank Level		WC-P0003						CP-H30	AI	
0230	1	YB-C940J	Close Command	Sodium Bisulphite Feed Tank Inlet Valve Close		WC-P0003						CP-H30	DO	
0231	1	YD-C940J	Open Command	Sodium Bisulphite Feed Tank Inlet Valve Open		WC-P0003						CP-H30	DO	
0232	1	YS-C940J	C/O/H Switch in Computer Position	Sodium Bisulphite Feed Tank Inlet Valve in Computer Mode		WC-P0003						CP-H30	DI	
0233	1	ZB-C940J	Closed Status	Sodium Bisulphite Feed Tank Inlet Valve Closed		WC-P0003						CP-H30	DI	
0234	1	ZD-C940J	Open Status	Sodium Bisulphite Feed Tank Inlet Valve Open		WC-P0003						CP-H30	DI	
0235	1	MM-C950A	Running Status	Sodium Bisulphite Pump to Ozone Contactor #1 Running		WC-P0004						CP-H30A	DI TCP	
0236	1	MN-C950A	Start Command	Sodium Bisulphite Pump to Ozone Contactor #1 Start		WC-P0004						CP-H30A	DO TCP	
0237	1	SC-C950A	Speed Control Output	Sodium Bisulphite Pump to Ozone Contactor #1 Required Speed		WC-P0004						CP-H30A	AO TCP	
0238	1	SI-C950A	Speed Indication	Sodium Bisulphite Pump to Ozone Contactor #1 Speed		WC-P0004						CP-H30A	AI TCP	
0239	1	UF-C950A	No Fault	Sodium Bisulphite Pump to Ozone Contactor #1 Fault		WC-P0004						CP-H30A	DI TCP	
0240	1	YS-C950A	C/O/H Switch in Computer Position	Sodium Bisulphite Pump to Ozone Contactor #1 in Computer Mode		WC-P0004						CP-H30A	DI TCP	
0241	1	FI-C950A	Flow Indication	Sodium Bisulphite Pump P-C950A Outlet Flow		WC-P0004						CP-H30	AI	
0242	1	FA-C950A	Flow Alarm	Service Water to P-C950A Discharge Low Flow		WC-P0004						CP-H30	DI	
0243	1	YD-C950A	Open Command	Service Water to P-C950A Discharge Flow Control Valve Open		WC-P0004						CP-H30	DO	
0244	1	MM-C960A	Running Status	Sodium Bisulphite Pump P-C960A to Ozone Contactor #2 Running		WC-P0004						CP-H30A	DI TCP	
0245	1	MN-C960A	Start Command	Sodium Bisulphite Pump P-C960A to Ozone Contactor #2 Start		WC-P0004						CP-H30A	DO TCP	
0246	1	SC-C960A	Speed Control Output	Sodium Bisulphite Pump P-C960A to Ozone Contactor #2 Required Speed		WC-P0004						CP-H30A	AO TCP	
0247	1	SI-C960A	Speed Indication	Sodium Bisulphite Pump P-C960A to Ozone Contactor #2 Speed		WC-P0004						CP-H30A	AI TCP	
0248	1	UF-C960A	No Fault	Sodium Bisulphite Pump P-C960A to Ozone Contactor #2 Fault		WC-P0004						CP-H30A	DI TCP	
0249	1	YS-C960A	C/O/H Switch in Computer Position	Sodium Bisulphite Pump P-C960A to Ozone Contactor #2 in Computer Mode		WC-P0004						CP-H30A	DI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0250	1	FI-C960A	Flow Indication	Sodium Bisulphite Pump P-C960A Outlet Flow	WC-P0004						CP-H30	AI	
0251	1	FA-C960A	Flow Alarm	Service Water to P-C960A Discharge Low Flow	WC-P0004						CP-H30	DI	
0252	1	YD-C960A	Open Command	Service Water to P-C960A Discharge Flow Control Valve Open	WC-P0004						CP-H30	DO	
0253	1	MM-C970A	Running Status	Common Standby Sodium Bisulphite Pump Running	WC-P0004						CP-H30A	DI TCP	
0254	1	MN-C970A	Start Command	Common Standby Sodium Bisulphite Pump Start	WC-P0004						CP-H30A	DO TCP	
0255	1	SC-C970A	Speed Control Output	Common Standby Sodium Bisulphite Pump Required Speed	WC-P0004						CP-H30A	AO TCP	
0256	1	SI-C970A	Speed Indication	Common Standby Sodium Bisulphite Pump Speed	WC-P0004						CP-H30A	AI TCP	
0257	1	UF-C970A	No Fault	Common Standby Sodium Bisulphite Pump Fault	WC-P0004						CP-H30A	DI TCP	
0258	1	YS-C970A	C/O/H Switch in Computer Position	Common Standby Sodium Bisulphite Pump in Computer Mode	WC-P0004						CP-H30A	DI TCP	
0259	1	FI-C970A	Flow Indication	Sodium Bisulphite Pump P-C970A Outlet Flow	WC-P0004						CP-H30	AI	
0260	1	FA-C970A	Flow Alarm	Service Water to P-C970A Discharge Low Flow	WC-P0004						CP-H30	DI	
0261	1	YD-C970A	Open Command	Service Water to P-C970A Discharge Flow Control Valve Open	WC-P0004						CP-H30	DO	
0262	0	YB-C970C	Close Command	Sodium Bisulphite Dosing Pump P-C970A to Ozone Contactor #2 Valve Close	WC-P0004						CP-H30	DO	
0263	0	YD-C970C	Open Command	Sodium Bisulphite Dosing Pump P-C970A to Ozone Contactor #2 Valve Open	WC-P0004						CP-H30	DO	
0264	0	YS-C970C	C/O/H Switch in Computer Position	Sodium Bisulphite Dosing Pump P-C970A to Ozone Contactor #2 Valve in Computer Mode	WC-P0004						CP-H30	DI	
0265	0	YB-C970D	Close Command	Sodium Bisulphite Dosing Pump P-C970A to Ozone Contactor #2 Valve Closed	WC-P0004						CP-H30	DO	
0266	0	YD-C970D	Open Command	Open	WC-P0004						CP-H30	DO	
0267	0	YS-C970D	C/O/H Switch in Computer Position	Sodium Bisulphite Dosing Pump P-C970A to Ozone Contactor #2 Valve in Computer Mode	WC-P0004						CP-H30	DI	
0268	0	ZB-C970C	Closed Status	Sodium Bisulphite Dosing Pump P-C970A to Ozone Contactor #2 Valve Closed	WC-P0004						CP-H30	DI	
0269	0	ZD-C970C	Open Status	Open	WC-P0004						CP-H30	DI	
0270	0	ZB-C970D	Closed Status	Sodium Bisulphite Dosing Pump P-C970A to Ozone Contactor #2 Valve Closed	WC-P0004						CP-H30	DI	
0271	0	ZD-C970D	Open Status	Open	WC-P0004						CP-H30	DI	
0272	0	LA-C980A	Level Alarm	Sodium Bisulphite Spill Containment High Level	WC-P0003						CP-H30	DI	
0273	0	MM-F010A	Running Status	Filter Air Scour Blower BLW-F010A Running	WF-P0010						CP-H30	DI	
0274	0	MN-F010A	Start Command	Filter Air Scour Blower BLW-F010A Start	WF-P0010						CP-H30	DO	
0275	0	PI-F010A	Pressure Indication	Filter Air Scour Blower BLW-F010A Inlet Air Filter Differential Pressure	WF-P0010						CP-H30	AI	
0276	0	PI-F010B	Pressure Indication	Filter Air Scour Blower BLW-F010A Outlet Air Pressure	WF-P0010						CP-H30	AI	
0277	0	TI-F010A	Temperature Indication	Filter Air Scour Blower BLW-F010A Winding Temperature	WF-P0010						CP-H30	AI TCP	
0278	0	TI-F010B	Temperature Indication	Filter Air Scour Blower BLW-F010A Front Bearing Temperature	WF-P0010						CP-H30	AI TCP	
0279	0	TI-F010C	Temperature Indication	Filter Air Scour Blower BLW-F010A Back Bearing Temperature	WF-P0010						CP-H30	AI TCP	
0280	1	IA-F010A	Current Surge	Filter Air Scour Blower BLW-F010A High Current Surge	WF-P0010						CP-H30	DI	
0281	0	VT-F010A	Vibration Indication	Filter Air Scour Blower BLW-F010A Vibration	WF-P0010						CP-H30	AI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
0282	0	YB-F010A	Close Command	Filter Air Scour Blower BLW-F010A Outlet Control Valve Close	WF-P0010							CP-H30	DO	
0283	0	YD-F010A	Open Command	Filter Air Scour Blower BLW-F010A Outlet Control Valve Open	WF-P0010							CP-H30	DO	
0284	0	YS-F010A	C/O/H Switch in Computer Position	Filter Air Scour Blower BLW-F010A in Computer Mode	WF-P0010							CP-H30	DI	
0285	0	YS-F010A	C/O/H Switch in Computer Position	Filter Air Scour Blower BLW-F010A Outlet Control Valve in Computer Mode	WF-P0010							CP-H30	DI	
0286	0	ZB-F010A	Closed Status	Filter Air Scour Blower BLW-F010A Outlet Control Valve Closed	WF-P0010							CP-H30	DI	
0287	0	ZD-F010A	Open Status	Filter Air Scour Blower BLW-F010A Outlet Control Valve Open	WF-P0010							CP-H30	DI	
0288	0	MM-F020A	Running Status	Filter Air Scour Blower BLW-F020A Running	WF-P0010							CP-H30	DI	
0289	0	MN-F020A	Start Command	Filter Air Scour Blower BLW-F020A Start	WF-P0010							CP-H30	DO	
0290	0	PI-F020A	Pressure Indication	Filter Air Scour Blower BLW-F020A Inlet Air Filter Differential Pressure	WF-P0010							CP-H30	AI	
0291	1	PI-F020B	Pressure Indication	Filter Air Scour Blower BLW-F020A Outlet Air Pressure	WF-P0010							CP-H30	AI	
0292	0	TI-F020A	Temperature Indication	Filter Air Scour Blower BLW-F020A Winding Temperature	WF-P0010							CP-H30	AI TCP	
0293	0	TI-F020B	Temperature Indication	Filter Air Scour Blower BLW-F020A Front Bearing Temperature	WF-P0010							CP-H30	AI TCP	
0294	0	TI-F020C	Temperature Indication	Filter Air Scour Blower BLW-F020A Back Bearing Temperature	WF-P0010							CP-H30	AI TCP	
0295	1	IA-F020A	Current Surge	Filter Air Scour Blower BLW-F020A High Current Surge	WF-P0010							CP-H30	DI	
0296	0	VI-F020A	Vibration Indication	Filter Air Scour Blower BLW-F020A High Vibration	WF-P0010							CP-H30	AI	
0297	0	YB-F020A	Close Command	Filter Air Scour Blower BLW-F020A Outlet Control Valve Close	WF-P0010							CP-H30	DO	
0298	0	YD-F020A	Open Command	Filter Air Scour Blower BLW-F020A Outlet Control Valve Open	WF-P0010							CP-H30	DO	
0299	0	YS-F020A	C/O/H Switch in Computer Position	Filter Air Scour Blower BLW-F020A in Computer Mode	WF-P0010							CP-H30	DI	
0300	0	YS-F020A	C/O/H Switch in Computer Position	Filter Air Scour Blower BLW-F020A Outlet Control Valve in Computer Mode	WF-P0010							CP-H30	DI	
0301	0	ZB-F020A	Closed Status	Filter Air Scour Blower BLW-F020A Outlet Control Valve Closed	WF-P0010							CP-H30	DI	
0302	0	ZD-F020A	Open Status	Filter Air Scour Blower BLW-F020A Outlet Control Valve Open	WF-P0010							CP-H30	DI	
0303	0	FI-F030A	Flow Indication	Filter Air Scour Blower Outlet Flow Rate	WF-P0010							CP-H30	AI	
0304	0	TI-F030A	Temperature Indication	Filter Air Scour Blower Outlet Temperature	WF-P0010							CP-H30	AI	
0305	0	LF-F050A	Level Fault	Filtered Water Chamber Level Fault	WF-P0011							LCP-R21	DI	
0306	0	LI-F050A	Level Indication	Filtered Water Chamber Level	WF-P0011							LCP-R21	AI	
0307	0	YB-F051A	Close Command	Filter No. 1-4 Outlet to Filtered Water Chamber Valve Close	WF-P0011							LCP-F01	DO	
0308	0	YD-F051A	Open Command	Filter No. 1-4 Outlet to Filtered Water Chamber Valve Open	WF-P0011							LCP-F01	DO	
0309	0	YS-F051A	C/O/H Switch in Computer Position	Filter No. 1-4 Outlet to Filtered Water Chamber Valve in Computer Mode	WF-P0011							LCP-F01	DI	
0310	0	ZB-F051A	Closed Status	Filter No. 1-4 Outlet to Filtered Water Chamber Valve Closed	WF-P0011							LCP-F01	DI	
0311	0	ZD-F051A	Open Status	Filter No. 1-4 Outlet to Filtered Water Chamber Valve Open	WF-P0011							LCP-F01	DI	
0312	1	YB-F052A	Close Command	Filter No. 5-8 Outlet to Filtered Water Chamber Valve Close	WF-P0011							LCP-F01	DO	
0313	1	YD-F052A	Open Command	Filter No. 5-8 Outlet to Filtered Water Chamber Valve Open	WF-P0011							LCP-F01	DO	
0314	1	YS-F052A	C/O/H Switch in Computer Position	Filter No. 5-8 Outlet to Filtered Water Chamber Valve in Computer Mode	WF-P0011							LCP-F01	DI	
0315	1	ZB-F052A	Closed Status	Filter No. 5-8 Outlet to Filtered Water Chamber Valve Closed	WF-P0011							LCP-F01	DI	
0316	1	ZD-F052A	Open Status	Filter No. 5-8 Outlet to Filtered Water Chamber Valve Open	WF-P0011							LCP-F01	DI	
0317	0	ZB-F053A	Closed Status	Filtered Water Chamber to Chlorine Contact Tank Sluice Gate Closed	WF-P0011							LCP-R21	DI	
0318	0	ZD-F053A	Open Status	Filtered Water Chamber to Chlorine Contact Tank Sluice Gate Open	WF-P0011							LCP-R21	DI	
0319	0	ZB-F054A	Closed Status	Filtered Water Chamber Chlorine Contact Tank Bypass Sluice Gate Closed	WF-P0011							LCP-R21	DI	
0320	0	ZD-F054A	Open Status	Filtered Water Chamber Chlorine Contact Tank Bypass Sluice Gate Open	WF-P0011							LCP-R21	DI	
0321	0	FA-F055A	Flow Switch	Chlorine Contact Tank to Supernatant Pump Station Drain Pump Outlet Flow	WF-P0012							LCP-F01	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0322	0	MM-F055A	Running Status	Chlorine Contact Tank to Supernatant Pump Station Drain Pump P-F055A Running	WF-P0012						LCP-F01	DI	
0323	0	MN-F055A	Start Command	Start	WF-P0012						LCP-F01	DO	
0324	0	UF-F055A	No Fault	Fault	WF-P0012						LCP-F01	DI	
0325	0	YS-F055A	C/O/H Switch in Computer Position	Chlorine Contact Tank to Supernatant Pump Station Drain Pump P-F055A in Computer Mode	WF-P0012						LCP-F01	DI	
0326	0	ZB-F055A	Closed Status	Chlorine Contact Tank Outlet Sluice Gate Closed	WF-P0011						LCP-R21	DI	
0327	0	ZD-F055A	Open Status	Chlorine Contact Tank Outlet Sluice Gate Open	WF-P0011						LCP-R21	DI	
0328	0	AI-F056A	Free Chlorine Indication	Chlorine Contact Tank Outlet Free Chlorine Measurement	WF-P0011						LCP-F01	AI	
0329	1	AF-F056A	Analyser Fault	Chlorine Contact Tank Outlet Free Chlorine Analyzer Fault	WF-P0011						LCP-F01	DI	
0330	0	FA-F056A	Flow Alarm	Chlorine Contact Tank Outlet Free Chlorine Sample Low Flow	WF-P0011						LCP-F01	DI	
0331	0	LF-F100A	Level Fault	Filter No. 1 Level Fault	WF-P0001						CP-H30	DI	
0332	0	LI-F100A	Level Indication	Filter No. 1 Level	WF-P0001						CP-H30	AI	
0333	0	PI-F100A	Differential Pressure Indication	Overall Filter Differential Pressure	WF-P0001						LCP-F01	AI	
0334	0	YB-F101A	Close Command	Filter TKF100A Inlet Valve Close	WF-P0001						CP-H30	DO	
0335	0	YD-F101A	Open Command	Filter TKF100A Inlet Valve Open	WF-P0001						CP-H30	DO	
0336	0	YS-F101A	C/O/H Switch in Computer Position	Filter TKF100A Inlet Valve in Computer Mode	WF-P0001						CP-H30	DI	
0337	0	ZB-F101A	Closed Status	Filter TKF100A Inlet Valve Closed	WF-P0001						CP-H30	DI	
0338	0	ZD-F101A	Open Status	Filter TKF100A Inlet Valve Open	WF-P0001						CP-H30	DI	
0339	0	YB-F102A	Close Command	Filter TKF100A Backwash Water Outlet Valve Close	WF-P0001						CP-H30	DO	
0340	0	YD-F102A	Open Command	Filter TKF100A Backwash Water Outlet Valve Open	WF-P0001						CP-H30	DO	
0341	0	YS-F102A	C/O/H Switch in Computer Position	Filter TKF100A Backwash Water Outlet Valve in Computer Mode	WF-P0001						CP-H30	DI	
0342	0	ZB-F102A	Closed Status	Filter TKF100A Backwash Water Outlet Valve Closed	WF-P0001						CP-H30	DI	
0343	0	ZD-F102A	Open Status	Filter TKF100A Backwash Water Outlet Valve Open	WF-P0001						CP-H30	DI	
0344	0	FI-F103A	Flow Indication	Filter TKF100A Outlet Flow Rate	WF-P0001						LCP-F01	AI	
0345	0	FQ-F103A	Flow Pulse	Filter TKF100A Outlet Flow Total	WF-P0001						LCP-F01	DI	
0346	0	YS-F103A	C/O/H Switch in Computer Position	Filter TKF100A Outlet Flow Control Valve in Computer Mode	WF-P0001						LCP-F01	DI	
0347	0	ZB-F103A	Closed Status	Filter TKF100A Outlet Flow Control Valve Closed	WF-P0001						LCP-F01	DI	
0348	0	ZC-F103A	Position Control Output	Filter TKF100A Outlet Flow Control Valve Required Position	WF-P0001						LCP-F01	AO	
0349	0	ZD-F103A	Open Status	Filter TKF100A Outlet Flow Control Valve Open	WF-P0001						LCP-F01	DI	
0350	0	ZT-F103A	Position Feedback	Filter TKF100A Outlet Flow Control Valve Position	WF-P0001						LCP-F01	AI	
0351	0	YB-F104A	Close Command	Filter TKF100A Outlet Flow Valve Closed	WF-P0001						LCP-F01	DO	
0352	0	YD-F104A	Open Command	Filter TKF100A Outlet Flow Valve Open	WF-P0001						LCP-F01	DO	
0353	0	YS-F104A	C/O/H Switch in Computer Position	Filter TKF100A Outlet Flow Valve in Computer Mode	WF-P0001						LCP-F01	DI	
0354	0	ZB-F104A	Closed Status	Filter TKF100A Outlet Flow Valve Closed	WF-P0001						LCP-F01	DI	
0355	0	ZD-F104A	Open Status	Filter TKF100A Outlet Flow Valve Open	WF-P0001						LCP-F01	DI	
0356	0	YB-F105A	Close Command	Filter TKF100A Outlet Flow to Backwash Tank Valve Close	WF-P0001						LCP-F01	DO	
0357	0	YD-F105A	Open Command	Filter TKF100A Outlet Flow to Backwash Tank Valve Open	WF-P0001						LCP-F01	DO	
0358	0	YS-F105A	C/O/H Switch in Computer Position	Filter TKF100A Outlet Flow to Backwash Tank Valve in Computer Mode	WF-P0001						LCP-F01	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
0359	0	ZB-F105A	Closed Status	Filter TKF100A Outlet Flow to Backwash Tank Valve Closed	WF-P0001						LCP-F01	DI		
0360	0	ZD-F105A	Open Status	Filter TKF100A Outlet Flow to Backwash Tank Valve Open	WF-P0001						LCP-F01	DI		
0361	0	YB-F106A	Close Command	Filter TKF100A Backwash Water Inlet Valve Closed	WF-P0001						LCP-F01	DO		
0362	0	YD-F106A	Open Command	Filter TKF100A Backwash Water Inlet Valve Open	WF-P0001						LCP-F01	DO		
0363	0	YS-F106A	C/O/H Switch in Computer Position	Filter TKF100A Backwash Water Inlet Valve in Computer Mode	WF-P0001						LCP-F01	DI		
0364	0	ZB-F106A	Closed Status	Filter TKF100A Backwash Water Inlet Valve Closed	WF-P0001						LCP-F01	DI		
0365	0	ZD-F106A	Open Status	Filter TKF100A Backwash Water Inlet Valve Open	WF-P0001						LCP-F01	DI		
0366	0	YB-F107A	Close Command	Filter TKF100A Air Scour Valve Closed	WF-P0001						LCP-F01	DO		
0367	0	YD-F107A	Open Command	Filter TKF100A Air Scour Valve Open	WF-P0001						LCP-F01	DO		
0368	0	YS-F107A	C/O/H Switch in Computer Position	Filter TKF100A Air Scour Valve in Computer Mode	WF-P0001						LCP-F01	DI		
0369	0	ZB-F107A	Closed Status	Filter TKF100A Air Scour Valve Closed	WF-P0001						LCP-F01	DI		
0370	0	ZD-F107A	Open Status	Filter TKF100A Air Scour Valve Open	WF-P0001						LCP-F01	DI		
0371	0	AF-F110A	Turbidity Fault	Filter TKF100A Outlet Turbidity Fault	WF-P0001						LCP-F01	DI		
0372	0	AI-F110A	Turbidity Indication	Filter TKF100A Outlet Turbidity	WF-P0001						LCP-F01	AI		
0373	0	AF-F110B	Particle Counter Fault	Filter TKF100A Outlet Particle Count Fault	WF-P0001						LCP-F01	DI		
0374	0	AI-F110B	Particle Counter Indication	Filter TKF100A Outlet Particle Count	WF-P0001						LCP-F01	AI		
0375	0	FA-F110A	Flow Alarm	Filter TKF100A Outlet Turbidity Sample Flow Low	WF-P0001						LCP-F01	DI		
0376	0	FA-F110B	Flow Alarm	Filter TKF100A Outlet Particle Count Sample Flow Low	WF-P0001						LCP-F01	DI		
0377	0	LF-F200A	Level Fault	Filter No. 2 Level Fault	WF-P0002						CP-H30	DI		
0378	0	LI-F200A	Level Indication	Filter No. 2 Level	WF-P0002						CP-H30	AI		
0379	0	PI-F200A	Differential Pressure Indication	Overall Filter Differential Pressure	WF-P0002						LCP-F01	AI		
0380	0	YB-F201A	Close Command	Filter TKF200A Inlet Valve Close	WF-P0002						CP-H30	DO		
0381	0	YD-F201A	Open Command	Filter TKF200A Inlet Valve Open	WF-P0002						CP-H30	DO		
0382	0	YS-F201A	C/O/H Switch in Computer Position	Filter TKF200A Inlet Valve in Computer Mode	WF-P0002						CP-H30	DI		
0383	0	ZB-F201A	Closed Status	Filter TKF200A Inlet Valve Closed	WF-P0002						CP-H30	DI		
0384	0	ZD-F201A	Open Status	Filter TKF200A Inlet Valve Open	WF-P0002						CP-H30	DI		
0385	0	YB-F202A	Close Command	Filter TKF200A Backwash Water Outlet Valve Close	WF-P0002						CP-H30	DO		
0386	0	YD-F202A	Open Command	Filter TKF200A Backwash Water Outlet Valve Open	WF-P0002						CP-H30	DO		
0387	0	YS-F202A	C/O/H Switch in Computer Position	Filter TKF200A Backwash Water Outlet Valve in Computer Mode	WF-P0002						CP-H30	DI		
0388	0	ZB-F202A	Closed Status	Filter TKF200A Backwash Water Outlet Valve Closed	WF-P0002						CP-H30	DI		
0389	0	ZD-F202A	Open Status	Filter TKF200A Backwash Water Outlet Valve Open	WF-P0002						CP-H30	DI		
0390	0	FI-F203A	Flow Indication	Filter TKF200A Outlet Flow Rate	WF-P0002						LCP-F01	AI		
0391	0	FQ-F203A	Flow Pulse	Filter TKF200A Outlet Flow Total	WF-P0002						LCP-F01	DI		
0392	0	YS-F203A	C/O/H Switch in Computer Position	Filter TKF200A Outlet Flow Control Valve in Computer Mode	WF-P0002						LCP-F01	DI		
0393	0	ZB-F203A	Closed Status	Filter TKF200A Outlet Flow Control Valve Closed	WF-P0002						LCP-F01	DI		
0394	0	ZC-F203A	Position Control Output	Filter TKF200A Outlet Flow Control Valve Required Position	WF-P0002						LCP-F01	AO		
0395	0	ZD-F203A	Open Status	Filter TKF200A Outlet Flow Control Valve Open	WF-P0002						LCP-F01	DI		
0396	0	ZT-F203A	Position Feedback	Filter TKF200A Outlet Flow Control Valve Position	WF-P0002						LCP-F01	AI		
0397	0	YB-F204A	Close Command	Filter TKF200A Outlet Flow Valve Closed	WF-P0002						LCP-F01	DO		

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

City of Winnipeg Water Treatment Program
 Supply and Installation of Water Treatment Plant Process Mechanical and Electrical
 Bid Opportunity No. 742-2005 Addendum 6

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			P&ID DRAWING	ENG. UNITS	I/O SPECIFICATION					
			FUNCTION	SERVICE	SCALE			ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS	
					LOW			HIGH	LOW				HIGH
0398	0	YD-F204A	Open Command	Filter TKF200A Outlet Flow Valve Open	WF-P0002						LCP-F01	DO	
0399	0	YS-F204A	C/O/H Switch in Computer Position	Filter TKF200A Outlet Flow Valve in Computer Mode	WF-P0002						LCP-F01	DI	
0400	0	ZB-F204A	Closed Status	Filter TKF200A Outlet Flow Valve Closed	WF-P0002						LCP-F01	DI	
0401	0	ZD-F204A	Open Status	Filter TKF200A Outlet Flow Valve Open	WF-P0002						LCP-F01	DI	
0402	0	YB-F205A	Close Command	Filter TKF200A Outlet Flow to Backwash Tank Valve Close	WF-P0002						LCP-F01	DO	
0403	0	YD-F205A	Open Command	Filter TKF200A Outlet Flow to Backwash Tank Valve Open	WF-P0002						LCP-F01	DO	
0404	0	YS-F205A	C/O/H Switch in Computer Position	Filter TKF200A Outlet Flow to Backwash Tank Valve in Computer Mode	WF-P0002						LCP-F01	DI	
0405	0	ZB-F205A	Closed Status	Filter TKF200A Outlet Flow to Backwash Tank Valve Closed	WF-P0002						LCP-F01	DI	
0406	0	ZD-F205A	Open Status	Filter TKF200A Outlet Flow to Backwash Tank Valve Open	WF-P0002						LCP-F01	DI	
0407	0	YB-F206A	Close Command	Filter TKF200A Backwash Water Inlet Valve Closed	WF-P0002						LCP-F01	DO	
0408	0	YD-F206A	Open Command	Filter TKF200A Backwash Water Inlet Valve Open	WF-P0002						LCP-F01	DO	
0409	0	YS-F206A	C/O/H Switch in Computer Position	Filter TKF200A Backwash Water Inlet Valve in Computer Mode	WF-P0002						LCP-F01	DI	
0410	0	ZB-F206A	Closed Status	Filter TKF200A Backwash Water Inlet Valve Closed	WF-P0002						LCP-F01	DI	
0411	0	ZD-F206A	Open Status	Filter TKF200A Backwash Water Inlet Valve Open	WF-P0002						LCP-F01	DI	
0412	0	YB-F207A	Close Command	Filter TKF200A Air Scour Valve Closed	WF-P0002						LCP-F01	DO	
0413	0	YD-F207A	Open Command	Filter TKF200A Air Scour Valve Open	WF-P0002						LCP-F01	DO	
0414	0	YS-F207A	C/O/H Switch in Computer Position	Filter TKF200A Air Scour Valve in Computer Mode	WF-P0002						LCP-F01	DI	
0415	0	ZB-F207A	Closed Status	Filter TKF200A Air Scour Valve Closed	WF-P0002						LCP-F01	DI	
0416	0	ZD-F207A	Open Status	Filter TKF200A Air Scour Valve Open	WF-P0002						LCP-F01	DI	
0417	0	AF-F210A	Turbidity Fault	Filter TKF200A Outlet Turbidity Fault	WF-P0002						LCP-F01	DI	
0418	0	AI-F210A	Turbidity Indication	Filter TKF200A Outlet Turbidity	WF-P0002						LCP-F01	AI	
0419	0	AF-F210B	Particle Counter Fault	Filter TKF200A Outlet Particle Count Fault	WF-P0002						LCP-F01	DI	
0420	0	AI-F210B	Particle Counter Indication	Filter TKF200A Outlet Particle Count	WF-P0002						LCP-F01	AI	
0421	0	FA-F210A	Flow Alarm	Filter TKF200A Outlet Turbidity Sample Flow Low	WF-P0002						LCP-F01	DI	
0422	0	FA-F210B	Flow Alarm	Filter TKF200A Outlet Particle Count Sample Flow Low	WF-P0002						LCP-F01	DI	
0423	0	LF-F300A	Level Fault	Filter No. 3 Level Fault	WF-P0003						CP-H30	DI	
0424	0	LI-F300A	Level Indication	Filter No. 3 Level	WF-P0003						CP-H30	AI	
0425	0	PI-F300A	Differential Pressure Indication	Overall Filter Differential Pressure	WF-P0003						LCP-F01	AI	
0426	0	YB-F301A	Close Command	Filter TKF300A Inlet Valve Close	WF-P0003						CP-H30	DO	
0427	0	YD-F301A	Open Command	Filter TKF300A Inlet Valve Open	WF-P0003						CP-H30	DO	
0428	0	YS-F301A	C/O/H Switch in Computer Position	Filter TKF300A Inlet Valve in Computer Mode	WF-P0003						CP-H30	DI	
0429	0	ZB-F301A	Closed Status	Filter TKF300A Inlet Valve Closed	WF-P0003						CP-H30	DI	
0430	0	ZD-F301A	Open Status	Filter TKF300A Inlet Valve Open	WF-P0003						CP-H30	DI	
0431	0	YB-F302A	Close Command	Filter TKF300A Backwash Water Outlet Valve Close	WF-P0003						CP-H30	DO	
0432	0	YD-F302A	Open Command	Filter TKF300A Backwash Water Outlet Valve Open	WF-P0003						CP-H30	DO	
0433	0	YS-F302A	C/O/H Switch in Computer Position	Filter TKF300A Backwash Water Outlet Valve in Computer Mode	WF-P0003						CP-H30	DI	
0434	0	ZB-F302A	Closed Status	Filter TKF300A Backwash Water Outlet Valve Closed	WF-P0003						CP-H30	DI	
0435	0	ZD-F302A	Open Status	Filter TKF300A Backwash Water Outlet Valve Open	WF-P0003						CP-H30	DI	
0436	0	FI-F303A	Flow Indication	Filter TKF300A Outlet Flow Rate	WF-P0003						LCP-F01	AI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0437	0	FQ-F303A	Flow Pulse	Filter TKF300A Outlet Flow Total	WF-P0003						LCP-F01	DI	
0438	0	YS-F303A	C/O/H Switch in Computer Position	Filter TKF300A Outlet Flow Control Valve in Computer Mode	WF-P0003						LCP-F01	DI	
0439	0	ZB-F303A	Closed Status	Filter TKF300A Outlet Flow Control Valve Closed	WF-P0003						LCP-F01	DI	
0440	0	ZC-F303A	Position Control Output	Filter TKF300A Outlet Flow Control Valve Required Position	WF-P0003						LCP-F01	AO	
0441	0	ZD-F303A	Open Status	Filter TKF300A Outlet Flow Control Valve Open	WF-P0003						LCP-F01	DI	
0442	0	ZT-F303A	Position Feedback	Filter TKF300A Outlet Flow Control Valve Position	WF-P0003						LCP-F01	AI	
0443	0	YB-F304A	Close Command	Filter TKF300A Outlet Flow Valve Closed	WF-P0003						LCP-F01	DO	
0444	0	YD-F304A	Open Command	Filter TKF300A Outlet Flow Valve Open	WF-P0003						LCP-F01	DO	
0445	0	YS-F304A	C/O/H Switch in Computer Position	Filter TKF300A Outlet Flow Valve in Computer Mode	WF-P0003						LCP-F01	DI	
0446	0	ZB-F304A	Closed Status	Filter TKF300A Outlet Flow Valve Closed	WF-P0003						LCP-F01	DI	
0447	0	ZD-F304A	Open Status	Filter TKF300A Outlet Flow Valve Open	WF-P0003						LCP-F01	DI	
0448	0	YB-F305A	Close Command	Filter TKF300A Outlet Flow to Backwash Tank Valve Close	WF-P0003						LCP-F01	DO	
0449	0	YD-F305A	Open Command	Filter TKF300A Outlet Flow to Backwash Tank Valve Open	WF-P0003						LCP-F01	DO	
0450	0	YS-F305A	C/O/H Switch in Computer Position	Filter TKF300A Outlet Flow to Backwash Tank Valve in Computer Mode	WF-P0003						LCP-F01	DI	
0451	0	ZB-F305A	Closed Status	Filter TKF300A Outlet Flow to Backwash Tank Valve Closed	WF-P0003						LCP-F01	DI	
0452	0	ZD-F305A	Open Status	Filter TKF300A Outlet Flow to Backwash Tank Valve Open	WF-P0003						LCP-F01	DI	
0453	0	YB-F306A	Close Command	Filter TKF300A Backwash Water Inlet Valve Closed	WF-P0003						LCP-F01	DO	
0454	0	YD-F306A	Open Command	Filter TKF300A Backwash Water Inlet Valve Open	WF-P0003						LCP-F01	DO	
0455	0	YS-F306A	C/O/H Switch in Computer Position	Filter TKF300A Backwash Water Inlet Valve in Computer Mode	WF-P0003						LCP-F01	DI	
0456	0	ZB-F306A	Closed Status	Filter TKF300A Backwash Water Inlet Valve Closed	WF-P0003						LCP-F01	DI	
0457	0	ZD-F306A	Open Status	Filter TKF300A Backwash Water Inlet Valve Open	WF-P0003						LCP-F01	DI	
0458	0	YB-F307A	Close Command	Filter TKF300A Air Scour Valve Closed	WF-P0003						LCP-F01	DO	
0459	0	YD-F307A	Open Command	Filter TKF300A Air Scour Valve Open	WF-P0003						LCP-F01	DO	
0460	0	YS-F307A	C/O/H Switch in Computer Position	Filter TKF300A Air Scour Valve in Computer Mode	WF-P0003						LCP-F01	DI	
0461	0	ZB-F307A	Closed Status	Filter TKF300A Air Scour Valve Closed	WF-P0003						LCP-F01	DI	
0462	0	ZD-F307A	Open Status	Filter TKF300A Air Scour Valve Open	WF-P0003						LCP-F01	DI	
0463	0	AF-F310A	Turbidity Fault	Filter TKF300A Outlet Turbidity Fault	WF-P0003						LCP-F01	DI	
0464	0	AI-F310A	Turbidity Indication	Filter TKF300A Outlet Turbidity	WF-P0003						LCP-F01	AI	
0465	0	AF-F310B	Particle Counter Fault	Filter TKF300A Outlet Particle Count Fault	WF-P0003						LCP-F01	DI	
0466	0	AI-F310B	Particle Counter Indication	Filter TKF300A Outlet Particle Count	WF-P0003						LCP-F01	AI	
0467	0	FA-F310A	Flow Alarm	Filter TKF300A Outlet Turbidity Sample Flow Low	WF-P0003						LCP-F01	DI	
0468	0	FA-F310B	Flow Alarm	Filter TKF300A Outlet Particle Count Sample Flow Low	WF-P0003						LCP-F01	DI	
0469	0	LF-F400A	Level Fault	Filter No. 4 Level Fault	WF-P0004						CP-H30	DI	
0470	0	LI-F400A	Level Indication	Filter No. 4 Level	WF-P0004						CP-H30	AI	
0471	0	PI-F400A	Differential Pressure Indication	Overall Filter Differential Pressure	WF-P0004						LCP-F01	AI	
0472	0	YB-F401A	Close Command	Filter TKF400A Inlet Valve Close	WF-P0004						CP-H30	DO	
0473	0	YD-F401A	Open Command	Filter TKF400A Inlet Valve Open	WF-P0004						CP-H30	DO	
0474	0	YS-F401A	C/O/H Switch in Computer Position	Filter TKF400A Inlet Valve in Computer Mode	WF-P0004						CP-H30	DI	
0475	0	ZB-F401A	Closed Status	Filter TKF400A Inlet Valve Closed	WF-P0004						CP-H30	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0476	0	ZD-F401A	Open Status	Filter TKF400A Inlet Valve Open	WF-P0004						CP-H30	DI	
0477	0	YB-F402A	Close Command	Filter TKF400A Backwash Water Outlet Valve Close	WF-P0004						CP-H30	DO	
0478	0	YD-F402A	Open Command	Filter TKF400A Backwash Water Outlet Valve Open	WF-P0004						CP-H30	DO	
0479	0	YS-F402A	C/O/H Switch in Computer Position	Filter TKF400A Backwash Water Outlet Valve in Computer Mode	WF-P0004						CP-H30	DI	
0480	0	ZB-F402A	Closed Status	Filter TKF400A Backwash Water Outlet Valve Closed	WF-P0004						CP-H30	DI	
0481	0	ZD-F402A	Open Status	Filter TKF400A Backwash Water Outlet Valve Open	WF-P0004						CP-H30	DI	
0482	0	FI-F403A	Flow Indication	Filter TKF400A Outlet Flow Rate	WF-P0004						LCP-F01	AI	
0483	0	FQ-F403A	Flow Pulse	Filter TKF400A Outlet Flow Total	WF-P0004						LCP-F01	DI	
0484	0	YS-F403A	C/O/H Switch in Computer Position	Filter TKF400A Outlet Flow Control Valve in Computer Mode	WF-P0004						LCP-F01	DI	
0485	0	ZB-F403A	Closed Status	Filter TKF400A Outlet Flow Control Valve Closed	WF-P0004						LCP-F01	DI	
0486	0	ZC-F403A	Position Control Output	Filter TKF400A Outlet Flow Control Valve Required Position	WF-P0004						LCP-F01	AO	
0487	0	ZD-F403A	Open Status	Filter TKF400A Outlet Flow Control Valve Open	WF-P0004						LCP-F01	DI	
0488	0	ZT-F403A	Position Feedback	Filter TKF400A Outlet Flow Control Valve Position	WF-P0004						LCP-F01	AI	
0489	0	YB-F404A	Close Command	Filter TKF400A Outlet Flow Valve Closed	WF-P0004						LCP-F01	DO	
0490	0	YD-F404A	Open Command	Filter TKF400A Outlet Flow Valve Open	WF-P0004						LCP-F01	DO	
0491	0	YS-F404A	C/O/H Switch in Computer Position	Filter TKF400A Outlet Flow Valve in Computer Mode	WF-P0004						LCP-F01	DI	
0492	0	ZB-F404A	Closed Status	Filter TKF400A Outlet Flow Valve Closed	WF-P0004						LCP-F01	DI	
0493	0	ZD-F404A	Open Status	Filter TKF400A Outlet Flow Valve Open	WF-P0004						LCP-F01	DI	
0494	0	YB-F405A	Close Command	Filter TKF400A Outlet Flow to Backwash Tank Valve Close	WF-P0004						LCP-F01	DO	
0495	0	YD-F405A	Open Command	Filter TKF400A Outlet Flow to Backwash Tank Valve Open	WF-P0004						LCP-F01	DO	
0496	0	YS-F405A	C/O/H Switch in Computer Position	Filter TKF400A Outlet Flow to Backwash Tank Valve in Computer Mode	WF-P0004						LCP-F01	DI	
0497	0	ZB-F405A	Closed Status	Filter TKF400A Outlet Flow to Backwash Tank Valve Closed	WF-P0004						LCP-F01	DI	
0498	0	ZD-F405A	Open Status	Filter TKF400A Outlet Flow to Backwash Tank Valve Open	WF-P0004						LCP-F01	DI	
0499	0	YB-F406A	Close Command	Filter TKF400A Backwash Water Inlet Valve Closed	WF-P0004						LCP-F01	DO	
0500	0	YD-F406A	Open Command	Filter TKF400A Backwash Water Inlet Valve Open	WF-P0004						LCP-F01	DO	
0501	0	YS-F406A	C/O/H Switch in Computer Position	Filter TKF400A Backwash Water Inlet Valve in Computer Mode	WF-P0004						LCP-F01	DI	
0502	0	ZB-F406A	Closed Status	Filter TKF400A Backwash Water Inlet Valve Closed	WF-P0004						LCP-F01	DI	
0503	0	ZD-F406A	Open Status	Filter TKF400A Backwash Water Inlet Valve Open	WF-P0004						LCP-F01	DI	
0504	0	YB-F407A	Close Command	Filter TKF400A Air Scour Valve Closed	WF-P0004						LCP-F01	DO	
0505	0	YD-F407A	Open Command	Filter TKF400A Air Scour Valve Open	WF-P0004						LCP-F01	DO	
0506	0	YS-F407A	C/O/H Switch in Computer Position	Filter TKF400A Air Scour Valve in Computer Mode	WF-P0004						LCP-F01	DI	
0507	0	ZB-F407A	Closed Status	Filter TKF400A Air Scour Valve Closed	WF-P0004						LCP-F01	DI	
0508	0	ZD-F407A	Open Status	Filter TKF400A Air Scour Valve Open	WF-P0004						LCP-F01	DI	
0509	0	AF-F410A	Turbidity Fault	Filter TKF400A Outlet Turbidity Fault	WF-P0004						LCP-F01	DI	
0510	0	AI-F410A	Turbidity Indication	Filter TKF400A Outlet Turbidity	WF-P0004						LCP-F01	AI	
0511	0	AF-F410B	Particle Counter Fault	Filter TKF400A Outlet Particle Count Fault	WF-P0004						LCP-F01	DI	
0512	0	AI-F410B	Particle Counter Indication	Filter TKF400A Outlet Particle Count	WF-P0004						LCP-F01	AI	
0513	0	FA-F410A	Flow Alarm	Filter TKF400A Outlet Turbidity Sample Flow Low	WF-P0004						LCP-F01	DI	
0514	0	FA-F410B	Flow Alarm	Filter TKF400A Outlet Particle Count Sample Flow Low	WF-P0004						LCP-F01	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0515	0	LF-F500A	Level Fault	Filter No. 5 Level Fault	WF-P0005						CP-H30	DI	
0516	0	LI-F500A	Level Indication	Filter No. 5 Level	WF-P0005						CP-H30	AI	
0517	0	PI-F500A	Differential Pressure Indication	Overall Filter Differential Pressure	WF-P0005						LCP-F02	AI	
0518	0	YB-F501A	Close Command	Filter TKF500A Inlet Valve Close	WF-P0005						CP-H30	DO	
0519	0	YD-F501A	Open Command	Filter TKF500A Inlet Valve Open	WF-P0005						CP-H30	DO	
0520	0	YS-F501A	C/O/H Switch in Computer Position	Filter TKF500A Inlet Valve in Computer Mode	WF-P0005						CP-H30	DI	
0521	0	ZB-F501A	Closed Status	Filter TKF500A Inlet Valve Closed	WF-P0005						CP-H30	DI	
0522	0	ZD-F501A	Open Status	Filter TKF500A Inlet Valve Open	WF-P0005						CP-H30	DI	
0523	0	YB-F502A	Close Command	Filter TKF500A Backwash Water Outlet Valve Close	WF-P0005						CP-H30	DO	
0524	0	YD-F502A	Open Command	Filter TKF500A Backwash Water Outlet Valve Open	WF-P0005						CP-H30	DO	
0525	0	YS-F502A	C/O/H Switch in Computer Position	Filter TKF500A Backwash Water Outlet Valve in Computer Mode	WF-P0005						CP-H30	DI	
0526	0	ZB-F502A	Closed Status	Filter TKF500A Backwash Water Outlet Valve Closed	WF-P0005						CP-H30	DI	
0527	0	ZD-F502A	Open Status	Filter TKF500A Backwash Water Outlet Valve Open	WF-P0005						CP-H30	DI	
0528	0	FI-F503A	Flow Indication	Filter TKF500A Outlet Flow Rate	WF-P0005						LCP-F02	AI	
0529	0	FQ-F503A	Flow Pulse	Filter TKF500A Outlet Flow Total	WF-P0005						LCP-F02	DI	
0530	0	YS-F503A	C/O/H Switch in Computer Position	Filter TKF500A Outlet Flow Control Valve in Computer Mode	WF-P0005						LCP-F02	DI	
0531	0	ZB-F503A	Closed Status	Filter TKF500A Outlet Flow Control Valve Closed	WF-P0005						LCP-F02	DI	
0532	0	ZC-F503A	Position Control Output	Filter TKF500A Outlet Flow Control Valve Required Position	WF-P0005						LCP-F02	AO	
0533	0	ZD-F503A	Open Status	Filter TKF500A Outlet Flow Control Valve Open	WF-P0005						LCP-F02	DI	
0534	0	ZT-F503A	Position Feedback	Filter TKF500A Outlet Flow Control Valve Position	WF-P0005						LCP-F02	AI	
0535	0	YB-F504A	Close Command	Filter TKF500A Outlet Flow Valve Closed	WF-P0005						LCP-F02	DO	
0536	0	YD-F504A	Open Command	Filter TKF500A Outlet Flow Valve Open	WF-P0005						LCP-F02	DO	
0537	0	YS-F504A	C/O/H Switch in Computer Position	Filter TKF500A Outlet Flow Valve in Computer Mode	WF-P0005						LCP-F02	DI	
0538	0	ZB-F504A	Closed Status	Filter TKF500A Outlet Flow Valve Closed	WF-P0005						LCP-F02	DI	
0539	0	ZD-F504A	Open Status	Filter TKF500A Outlet Flow Valve Open	WF-P0005						LCP-F02	DI	
0540	0	YB-F505A	Close Command	Filter TKF500A Outlet Flow to Backwash Tank Valve Close	WF-P0005						LCP-F02	DO	
0541	0	YD-F505A	Open Command	Filter TKF500A Outlet Flow to Backwash Tank Valve Open	WF-P0005						LCP-F02	DO	
0542	0	YS-F505A	C/O/H Switch in Computer Position	Filter TKF500A Outlet Flow to Backwash Tank Valve in Computer Mode	WF-P0005						LCP-F02	DI	
0543	0	ZB-F505A	Closed Status	Filter TKF500A Outlet Flow to Backwash Tank Valve Closed	WF-P0005						LCP-F02	DI	
0544	0	ZD-F505A	Open Status	Filter TKF500A Outlet Flow to Backwash Tank Valve Open	WF-P0005						LCP-F02	DI	
0545	0	YB-F506A	Close Command	Filter TKF500A Backwash Water Inlet Valve Closed	WF-P0005						LCP-F02	DO	
0546	0	YD-F506A	Open Command	Filter TKF500A Backwash Water Inlet Valve Open	WF-P0005						LCP-F02	DO	
0547	0	YS-F506A	C/O/H Switch in Computer Position	Filter TKF500A Backwash Water Inlet Valve in Computer Mode	WF-P0005						LCP-F02	DI	
0548	0	ZB-F506A	Closed Status	Filter TKF500A Backwash Water Inlet Valve Closed	WF-P0005						LCP-F02	DI	
0549	0	ZD-F506A	Open Status	Filter TKF500A Backwash Water Inlet Valve Open	WF-P0005						LCP-F02	DI	
0550	0	YB-F507A	Close Command	Filter TKF500A Air Scour Valve Closed	WF-P0005						LCP-F02	DO	
0551	0	YD-F507A	Open Command	Filter TKF500A Air Scour Valve Open	WF-P0005						LCP-F02	DO	
0552	0	YS-F507A	C/O/H Switch in Computer Position	Filter TKF500A Air Scour Valve in Computer Mode	WF-P0005						LCP-F02	DI	
0553	0	ZB-F507A	Closed Status	Filter TKF500A Air Scour Valve Closed	WF-P0005						LCP-F02	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0554	0	ZD-F507A	Open Status	Filter TKF500A Air Scour Valve Open	WF-P0005						LCP-F02	DI	
0555	0	AF-F510A	Turbidity Fault	Filter TKF500A Outlet Turbidity Fault	WF-P0005						LCP-F02	DI	
0556	0	AI-F510A	Turbidity Indication	Filter TKF500A Outlet Turbidity	WF-P0005						LCP-F02	AI	
0557	0	AF-F510B	Particle Counter Fault	Filter TKF500A Outlet Particle Count Fault	WF-P0005						LCP-F02	DI	
0558	0	AI-F510B	Particle Counter Indication	Filter TKF500A Outlet Particle Count	WF-P0005						LCP-F02	AI	
0559	0	FA-F510A	Flow Alarm	Filter TKF500A Outlet Turbidity Sample Flow Low	WF-P0005						LCP-F02	DI	
0560	0	FA-F510B	Flow Alarm	Filter TKF500A Outlet Particle Count Sample Flow Low	WF-P0005						LCP-F02	DI	
0561	0	LF-F600A	Level Fault	Filter No. 6 Level Fault	WF-P0006						CP-H30	DI	
0562	0	LI-F600A	Level Indication	Filter No. 6 Level	WF-P0006						CP-H30	AI	
0563	0	PI-F600A	Differential Pressure Indication	Overall Filter Differential Pressure	WF-P0006						LCP-F02	AI	
0564	0	YB-F601A	Close Command	Filter TKF600A Inlet Valve Close	WF-P0006						CP-H30	DO	
0565	0	YD-F601A	Open Command	Filter TKF600A Inlet Valve Open	WF-P0006						CP-H30	DO	
0566	0	YS-F601A	C/O/H Switch in Computer Position	Filter TKF600A Inlet Valve in Computer Mode	WF-P0006						CP-H30	DI	
0567	0	ZB-F601A	Closed Status	Filter TKF600A Inlet Valve Closed	WF-P0006						CP-H30	DI	
0568	0	ZD-F601A	Open Status	Filter TKF600A Inlet Valve Open	WF-P0006						CP-H30	DI	
0569	0	YB-F602A	Close Command	Filter TKF600A Backwash Water Outlet Valve Close	WF-P0006						CP-H30	DO	
0570	0	YD-F602A	Open Command	Filter TKF600A Backwash Water Outlet Valve Open	WF-P0006						CP-H30	DO	
0571	0	YS-F602A	C/O/H Switch in Computer Position	Filter TKF600A Backwash Water Outlet Valve in Computer Mode	WF-P0006						CP-H30	DI	
0572	0	ZB-F602A	Closed Status	Filter TKF600A Backwash Water Outlet Valve Closed	WF-P0006						CP-H30	DI	
0573	0	ZD-F602A	Open Status	Filter TKF600A Backwash Water Outlet Valve Open	WF-P0006						CP-H30	DI	
0574	0	FI-F603A	Flow Indication	Filter TKF600A Outlet Flow Rate	WF-P0006						LCP-F02	AI	
0575	0	FQ-F603A	Flow Pulse	Filter TKF600A Outlet Flow Total	WF-P0006						LCP-F02	DI	
0576	0	YS-F603A	C/O/H Switch in Computer Position	Filter TKF600A Outlet Flow Control Valve in Computer Mode	WF-P0006						LCP-F02	DI	
0577	0	ZB-F603A	Closed Status	Filter TKF600A Outlet Flow Control Valve Closed	WF-P0006						LCP-F02	DI	
0578	0	ZC-F603A	Position Control Output	Filter TKF600A Outlet Flow Control Valve Required Position	WF-P0006						LCP-F02	AO	
0579	0	ZD-F603A	Open Status	Filter TKF600A Outlet Flow Control Valve Open	WF-P0006						LCP-F02	DI	
0580	0	ZT-F603A	Position Feedback	Filter TKF600A Outlet Flow Control Valve Position	WF-P0006						LCP-F02	AI	
0581	0	YB-F604A	Close Command	Filter TKF600A Outlet Flow Valve Closed	WF-P0006						LCP-F02	DO	
0582	0	YD-F604A	Open Command	Filter TKF600A Outlet Flow Valve Open	WF-P0006						LCP-F02	DO	
0583	0	YS-F604A	C/O/H Switch in Computer Position	Filter TKF600A Outlet Flow Valve in Computer Mode	WF-P0006						LCP-F02	DI	
0584	0	ZB-F604A	Closed Status	Filter TKF600A Outlet Flow Valve Closed	WF-P0006						LCP-F02	DI	
0585	0	ZD-F604A	Open Status	Filter TKF600A Outlet Flow Valve Open	WF-P0006						LCP-F02	DI	
0586	0	YB-F605A	Close Command	Filter TKF600A Outlet Flow to Backwash Tank Valve Close	WF-P0006						LCP-F02	DO	
0587	0	YD-F605A	Open Command	Filter TKF600A Outlet Flow to Backwash Tank Valve Open	WF-P0006						LCP-F02	DO	
0588	0	YS-F605A	C/O/H Switch in Computer Position	Filter TKF600A Outlet Flow to Backwash Tank Valve in Computer Mode	WF-P0006						LCP-F02	DI	
0589	0	ZB-F605A	Closed Status	Filter TKF600A Outlet Flow to Backwash Tank Valve Closed	WF-P0006						LCP-F02	DI	
0590	0	ZD-F605A	Open Status	Filter TKF600A Outlet Flow to Backwash Tank Valve Open	WF-P0006						LCP-F02	DI	
0591	0	YB-F606A	Close Command	Filter TKF600A Backwash Water Inlet Valve Closed	WF-P0006						LCP-F02	DO	
0592	0	YD-F606A	Open Command	Filter TKF600A Backwash Water Inlet Valve Open	WF-P0006						LCP-F02	DO	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
0593	0	YS-F606A	C/O/H Switch in Computer Position	Filter TKF600A Backwash Water Inlet Valve in Computer Mode	WF-P0006						LCP-F02	DI		
0594	0	ZB-F606A	Closed Status	Filter TKF600A Backwash Water Inlet Valve Closed	WF-P0006						LCP-F02	DI		
0595	0	ZD-F606A	Open Status	Filter TKF600A Backwash Water Inlet Valve Open	WF-P0006						LCP-F02	DI		
0596	0	YB-F607A	Close Command	Filter TKF600A Air Scour Valve Closed	WF-P0006						LCP-F02	DO		
0597	0	YD-F607A	Open Command	Filter TKF600A Air Scour Valve Open	WF-P0006						LCP-F02	DO		
0598	0	YS-F607A	C/O/H Switch in Computer Position	Filter TKF600A Air Scour Valve in Computer Mode	WF-P0006						LCP-F02	DI		
0599	0	ZB-F607A	Closed Status	Filter TKF600A Air Scour Valve Closed	WF-P0006						LCP-F02	DI		
0600	0	ZD-F607A	Open Status	Filter TKF600A Air Scour Valve Open	WF-P0006						LCP-F02	DI		
0601	0	AF-F610A	Turbidity Fault	Filter TKF600A Outlet Turbidity Fault	WF-P0006						LCP-F02	DI		
0602	0	AI-F610A	Turbidity Indication	Filter TKF600A Outlet Turbidity	WF-P0006						LCP-F02	AI		
0603	0	AF-F610B	Particle Counter Fault	Filter TKF600A Outlet Particle Count Fault	WF-P0006						LCP-F02	DI		
0604	0	AI-F610B	Particle Counter Indication	Filter TKF600A Outlet Particle Count	WF-P0006						LCP-F02	AI		
0605	0	FA-F610A	Flow Alarm	Filter TKF600A Outlet Turbidity Sample Flow Low	WF-P0006						LCP-F02	DI		
0606	0	FA-F610B	Flow Alarm	Filter TKF600A Outlet Particle Count Sample Flow Low	WF-P0006						LCP-F02	DI		
0607	0	LF-F700A	Level Fault	Filter No. 7 Level Fault	WF-P0007						CP-H30	DI		
0608	0	LI-F700A	Level Indication	Filter No. 7 Level	WF-P0007						CP-H30	AI		
0609	0	PI-F700A	Differential Pressure Indication	Overall Filter Differential Pressure	WF-P0007						LCP-F02	AI		
0610	0	YB-F701A	Close Command	Filter TKF700A Inlet Valve Close	WF-P0007						CP-H30	DO		
0611	0	YD-F701A	Open Command	Filter TKF700A Inlet Valve Open	WF-P0007						CP-H30	DO		
0612	0	YS-F701A	C/O/H Switch in Computer Position	Filter TKF700A Inlet Valve in Computer Mode	WF-P0007						CP-H30	DI		
0613	0	ZB-F701A	Closed Status	Filter TKF700A Inlet Valve Closed	WF-P0007						CP-H30	DI		
0614	0	ZD-F701A	Open Status	Filter TKF700A Inlet Valve Open	WF-P0007						CP-H30	DI		
0615	0	YB-F702A	Close Command	Filter TKF700A Backwash Water Outlet Valve Close	WF-P0007						CP-H30	DO		
0616	0	YD-F702A	Open Command	Filter TKF700A Backwash Water Outlet Valve Open	WF-P0007						CP-H30	DO		
0617	0	YS-F702A	C/O/H Switch in Computer Position	Filter TKF700A Backwash Water Outlet Valve in Computer Mode	WF-P0007						CP-H30	DI		
0618	0	ZB-F702A	Closed Status	Filter TKF700A Backwash Water Outlet Valve Closed	WF-P0007						CP-H30	DI		
0619	0	ZD-F702A	Open Status	Filter TKF700A Backwash Water Outlet Valve Open	WF-P0007						CP-H30	DI		
0620	0	FI-F703A	Flow Indication	Filter TKF700A Outlet Flow Rate	WF-P0007						LCP-F02	AI		
0621	0	FQ-F703A	Flow Pulse	Filter TKF700A Outlet Flow Total	WF-P0007						LCP-F02	DI		
0622	0	YS-F703A	C/O/H Switch in Computer Position	Filter TKF700A Outlet Flow Control Valve in Computer Mode	WF-P0007						LCP-F02	DI		
0623	0	ZB-F703A	Closed Status	Filter TKF700A Outlet Flow Control Valve Closed	WF-P0007						LCP-F02	DI		
0624	0	ZC-F703A	Position Control Output	Filter TKF700A Outlet Flow Control Valve Required Position	WF-P0007						LCP-F02	AO		
0625	0	ZD-F703A	Open Status	Filter TKF700A Outlet Flow Control Valve Open	WF-P0007						LCP-F02	DI		
0626	0	ZT-F703A	Position Feedback	Filter TKF700A Outlet Flow Control Valve Position	WF-P0007						LCP-F02	AI		
0627	0	YB-F704A	Close Command	Filter TKF700A Outlet Flow Valve Closed	WF-P0007						LCP-F02	DO		
0628	0	YD-F704A	Open Command	Filter TKF700A Outlet Flow Valve Open	WF-P0007						LCP-F02	DO		
0629	0	YS-F704A	C/O/H Switch in Computer Position	Filter TKF700A Outlet Flow Valve in Computer Mode	WF-P0007						LCP-F02	DI		
0630	0	ZB-F704A	Closed Status	Filter TKF700A Outlet Flow Valve Closed	WF-P0007						LCP-F02	DI		
0631	0	ZD-F704A	Open Status	Filter TKF700A Outlet Flow Valve Open	WF-P0007						LCP-F02	DI		

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

City of Winnipeg Water Treatment Program
 Supply and Installation of Water Treatment Plant Process Mechanical and Electrical
 Bid Opportunity No. 742-2005 Addendum 6

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
0632	0	YB-F705A	Close Command	Filter TKF700A Outlet Flow to Backwash Tank Valve Close	WF-P0007						LCP-F02	DO		
0633	0	YD-F705A	Open Command	Filter TKF700A Outlet Flow to Backwash Tank Valve Open	WF-P0007						LCP-F02	DO		
0634	0	YS-F705A	C/O/H Switch in Computer Position	Filter TKF700A Outlet Flow to Backwash Tank Valve in Computer Mode	WF-P0007						LCP-F02	DI		
0635	0	ZB-F705A	Closed Status	Filter TKF700A Outlet Flow to Backwash Tank Valve Closed	WF-P0007						LCP-F02	DI		
0636	0	ZD-F705A	Open Status	Filter TKF700A Outlet Flow to Backwash Tank Valve Open	WF-P0007						LCP-F02	DI		
0637	0	YB-F706A	Close Command	Filter TKF700A Backwash Water Inlet Valve Closed	WF-P0007						LCP-F02	DO		
0638	0	YD-F706A	Open Command	Filter TKF700A Backwash Water Inlet Valve Open	WF-P0007						LCP-F02	DO		
0639	0	YS-F706A	C/O/H Switch in Computer Position	Filter TKF700A Backwash Water Inlet Valve in Computer Mode	WF-P0007						LCP-F02	DI		
0640	0	ZB-F706A	Closed Status	Filter TKF700A Backwash Water Inlet Valve Closed	WF-P0007						LCP-F02	DI		
0641	0	ZD-F706A	Open Status	Filter TKF700A Backwash Water Inlet Valve Open	WF-P0007						LCP-F02	DI		
0642	0	YB-F707A	Close Command	Filter TKF700A Air Scour Valve Closed	WF-P0007						LCP-F02	DO		
0643	0	YD-F707A	Open Command	Filter TKF700A Air Scour Valve Open	WF-P0007						LCP-F02	DO		
0644	0	YS-F707A	C/O/H Switch in Computer Position	Filter TKF700A Air Scour Valve in Computer Mode	WF-P0007						LCP-F02	DI		
0645	0	ZB-F707A	Closed Status	Filter TKF700A Air Scour Valve Closed	WF-P0007						LCP-F02	DI		
0646	0	ZD-F707A	Open Status	Filter TKF700A Air Scour Valve Open	WF-P0007						LCP-F02	DI		
0647	0	AF-F710A	Turbidity Fault	Filter TKF700A Outlet Turbidity Fault	WF-P0007						LCP-F02	DI		
0648	0	AI-F710A	Turbidity Indication	Filter TKF700A Outlet Turbidity	WF-P0007						LCP-F02	AI		
0649	0	AF-F710B	Particle Counter Fault	Filter TKF700A Outlet Particle Count Fault	WF-P0007						LCP-F02	DI		
0650	0	AI-F710B	Particle Counter Indication	Filter TKF700A Outlet Particle Count	WF-P0007						LCP-F02	AI		
0651	0	FA-F710A	Flow Alarm	Filter TKF700A Outlet Turbidity Sample Flow Low	WF-P0007						LCP-F02	DI		
0652	0	FA-F710B	Flow Alarm	Filter TKF700A Outlet Particle Count Sample Flow Low	WF-P0007						LCP-F02	DI		
0653	0	LF-F800A	Level Fault	Filter No. 8 Level Fault	WF-P0008						CP-H30	DI		
0654	0	LI-F800A	Level Indication	Filter No. 8 Level	WF-P0008						CP-H30	AI		
0655	0	PI-F800A	Differential Pressure Indication	Overall Filter Differential Pressure	WF-P0008						LCP-F02	AI		
0656	0	YB-F801A	Close Command	Filter TKF800A Inlet Valve Close	WF-P0008						CP-H30	DO		
0657	0	YD-F801A	Open Command	Filter TKF800A Inlet Valve Open	WF-P0008						CP-H30	DO		
0658	0	YS-F801A	C/O/H Switch in Computer Position	Filter TKF800A Inlet Valve in Computer Mode	WF-P0008						CP-H30	DI		
0659	0	ZB-F801A	Closed Status	Filter TKF800A Inlet Valve Closed	WF-P0008						CP-H30	DI		
0660	0	ZD-F801A	Open Status	Filter TKF800A Inlet Valve Open	WF-P0008						CP-H30	DI		
0661	0	YB-F802A	Close Command	Filter TKF800A Backwash Water Outlet Valve Close	WF-P0008						CP-H30	DO		
0662	0	YD-F802A	Open Command	Filter TKF800A Backwash Water Outlet Valve Open	WF-P0008						CP-H30	DO		
0663	0	YS-F802A	C/O/H Switch in Computer Position	Filter TKF800A Backwash Water Outlet Valve in Computer Mode	WF-P0008						CP-H30	DI		
0664	0	ZB-F802A	Closed Status	Filter TKF800A Backwash Water Outlet Valve Closed	WF-P0008						CP-H30	DI		
0665	0	ZD-F802A	Open Status	Filter TKF800A Backwash Water Outlet Valve Open	WF-P0008						CP-H30	DI		
0666	0	FI-F803A	Flow Indication	Filter TKF800A Outlet Flow Rate	WF-P0008						LCP-F02	AI		
0667	0	FQ-F803A	Flow Pulse	Filter TKF800A Outlet Flow Total	WF-P0008						LCP-F02	DI		
0668	0	YS-F803A	C/O/H Switch in Computer Position	Filter TKF800A Outlet Flow Control Valve in Computer Mode	WF-P0008						LCP-F02	DI		
0669	0	ZB-F803A	Closed Status	Filter TKF800A Outlet Flow Control Valve Closed	WF-P0008						LCP-F02	DI		
0670	0	ZC-F803A	Position Control Output	Filter TKF800A Outlet Flow Control Valve Required Position	WF-P0008						LCP-F02	AO		

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0671	0	ZD-F803A	Open Status	Filter TKF800A Outlet Flow Control Valve Open	WF-P0008						LCP-F02	DI	
0672	0	ZT-F803A	Position Feedback	Filter TKF800A Outlet Flow Control Valve Position	WF-P0008						LCP-F02	AI	
0673	0	YB-F804A	Close Command	Filter TKF800A Outlet Flow Valve Closed	WF-P0008						LCP-F02	DO	
0674	0	YD-F804A	Open Command	Filter TKF800A Outlet Flow Valve Open	WF-P0008						LCP-F02	DO	
0675	0	YS-F804A	C/O/H Switch in Computer Position	Filter TKF800A Outlet Flow Valve in Computer Mode	WF-P0008						LCP-F02	DI	
0676	0	ZB-F804A	Closed Status	Filter TKF800A Outlet Flow Valve Closed	WF-P0008						LCP-F02	DI	
0677	0	ZD-F804A	Open Status	Filter TKF800A Outlet Flow Valve Open	WF-P0008						LCP-F02	DI	
0678	0	YB-F805A	Close Command	Filter TKF800A Outlet Flow to Backwash Tank Valve Close	WF-P0008						LCP-F02	DO	
0679	0	YD-F805A	Open Command	Filter TKF800A Outlet Flow to Backwash Tank Valve Open	WF-P0008						LCP-F02	DO	
0680	0	YS-F805A	C/O/H Switch in Computer Position	Filter TKF800A Outlet Flow to Backwash Tank Valve in Computer Mode	WF-P0008						LCP-F02	DI	
0681	0	ZB-F805A	Closed Status	Filter TKF800A Outlet Flow to Backwash Tank Valve Closed	WF-P0008						LCP-F02	DI	
0682	0	ZD-F805A	Open Status	Filter TKF800A Outlet Flow to Backwash Tank Valve Open	WF-P0008						LCP-F02	DI	
0683	0	YB-F806A	Close Command	Filter TKF800A Backwash Water Inlet Valve Closed	WF-P0008						LCP-F02	DO	
0684	0	YD-F806A	Open Command	Filter TKF800A Backwash Water Inlet Valve Open	WF-P0008						LCP-F02	DO	
0685	0	YS-F806A	C/O/H Switch in Computer Position	Filter TKF800A Backwash Water Inlet Valve in Computer Mode	WF-P0008						LCP-F02	DI	
0686	0	ZB-F806A	Closed Status	Filter TKF800A Backwash Water Inlet Valve Closed	WF-P0008						LCP-F02	DI	
0687	0	ZD-F806A	Open Status	Filter TKF800A Backwash Water Inlet Valve Open	WF-P0008						LCP-F02	DI	
0688	0	YB-F807A	Close Command	Filter TKF800A Air Scour Valve Closed	WF-P0008						LCP-F02	DO	
0689	0	YD-F807A	Open Command	Filter TKF800A Air Scour Valve Open	WF-P0008						LCP-F02	DO	
0690	0	YS-F807A	C/O/H Switch in Computer Position	Filter TKF800A Air Scour Valve in Computer Mode	WF-P0008						LCP-F02	DI	
0691	0	ZB-F807A	Closed Status	Filter TKF800A Air Scour Valve Closed	WF-P0008						LCP-F02	DI	
0692	0	ZD-F807A	Open Status	Filter TKF800A Air Scour Valve Open	WF-P0008						LCP-F02	DI	
0693	0	AF-F810A	Turbidity Fault	Filter TKF800A Outlet Turbidity Fault	WF-P0008						LCP-F02	DI	
0694	0	AI-F810A	Turbidity Indication	Filter TKF800A Outlet Turbidity	WF-P0008						LCP-F02	AI	
0695	0	AF-F810B	Particle Counter Fault	Filter TKF800A Outlet Particle Count Fault	WF-P0008						LCP-F02	DI	
0696	0	AI-F810B	Particle Counter Indication	Filter TKF800A Outlet Particle Count	WF-P0008						LCP-F02	AI	
0697	0	FA-F810A	Flow Alarm	Filter TKF800A Outlet Turbidity Sample Flow Low	WF-P0008						LCP-F02	DI	
0698	0	FA-F810B	Flow Alarm	Filter TKF800A Outlet Particle Count Sample Flow Low	WF-P0008						LCP-F02	DI	
0699	0	LI-F910A	Level Indicator Transmitter	Backwash Tank TNKF910A Level	WF-P0009						LCP-F01	AI	
0700	0	YB-F910A	Close Command	Backwash Tank TNKF910A Outlet Valve Close	WF-P0009						LCP-F01	DO	
0701	0	YD-F910A	Open Command	Backwash Tank TNKF910A Outlet Valve Open	WF-P0009						LCP-F01	DO	
0702	0	YS-F910A	C/O/H Switch in Computer Position	Backwash Tank TNKF910A Outlet Valve in Computer Mode	WF-P0009						LCP-F01	DI	
0703	0	ZB-F910A	Closed Status	Backwash Tank TNKF910A Outlet Valve Close	WF-P0009						LCP-F01	DI	
0704	0	ZD-F910A	Open Status	Backwash Tank TNKF910A Outlet Valve Open	WF-P0009						LCP-F01	DI	
0705	0	FI-F911A	Flow Indication	Filter Backwash Pump P-F911A Outlet Flow Rate	WF-P0009						LCP-F01	AI	
0706	0	FQ-F911A	Flow Pulse	Filter Backwash Pump P-F911A Outlet Flow Total	WF-P0009						LCP-F01	DI	
0707	1	II-F911A	Current Indication	Filter Backwash Pump P-F911A Current	WF-P0013						LCP-H10	AI TCP	
0708	0	MM-F911A	Running Status	Filter Backwash Pump P-F911A Running	WF-P0013						LCP-H10	DI TCP	
0709	0	MN-F911A	Start Command	Filter Backwash Pump P-F911A Start	WF-P0013						LCP-H10	DO TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
0710	0	PI-F911A	Pressure Indication	Filter Backwash Pump P-F911A Outlet Pressure	WF-P0009						LCP-F01	AI		
0711	0	SC-F911A	Speed Control Output	Filter Backwash Pump P-F911A Required Speed	WF-P0013						LCP-H10	AO TCP		
0712	0	SI-F911A	Speed Indication	Filter Backwash Pump P-F911A Speed	WF-P0013						LCP-H10	AI TCP		
0713	0	TI-F911A	Temperature Indicator Transmitter	Filter Backwash Pump P-F911A Outlet Temperature	WF-P0009						LCP-F01	AI		
0714	0	TI-F911A	Temperature Transmitter	Filter Backwash Pump P-F911A Winding Temperature	WF-P0013						LCP-H10	AI TCP		
0715	0	TI-F911B	Temperature Transmitter	Filter Backwash Pump P-F911A Winding Temperature	WF-P0013						LCP-H10	AI TCP		
0716	0	TI-F911C	Temperature Transmitter	Filter Backwash Pump P-F911A Winding Temperature	WF-P0013						LCP-H10	AI TCP		
0717	0	TI-F911D	Temperature Transmitter	Filter Backwash Pump P-F911A Winding Temperature	WF-P0013						LCP-H10	AI TCP		
0718	0	TI-F911E	Temperature Transmitter	Filter Backwash Pump P-F911A Winding Temperature	WF-P0013						LCP-H10	AI TCP		
0719	0	TI-F911F	Temperature Transmitter	Filter Backwash Pump P-F911A Winding Temperature	WF-P0013						LCP-H10	AI TCP		
0720	0	TI-F911G	Temperature Transmitter	Filter Backwash Pump P-F911A Front Bearing Temperature	WF-P0013						LCP-H10	AI TCP		
0721	0	TI-F911H	Temperature Transmitter	Filter Backwash Pump P-F911A Back Bearing Temperature	WF-P0013						LCP-H10	AI TCP		
0722	0	UF-F911A	No Fault	Filter Backwash Pump P-F911A VFD Fault	WF-P0013						LCP-H10	DI TCP		
0723	0	UF-F911B	No Fault	Filter Backwash Pump P-F911A Protection Relay Fault	WF-P0013						LCP-H10	DI TCP		
0724	0	YS-F911A	C/O/H Switch in Computer Position	Filter Backwash Pump P-F911A Outlet Control Valve in Computer Mode	WF-P0009						LCP-F01	DI		
0725	0	YS-F911A	C/O/H Switch in Computer Position	Filter Backwash Pump P-F911A in Computer Mode	WF-P0013						LCP-H10	DI TCP		
0726	0	ZB-F911A	Closed Status	Filter Backwash Pump P-F911A Outlet Control Valve Closed	WF-P0009						LCP-F01	DI		
0727	0	ZC-F911A	Position Control Output	Filter Backwash Pump P-F911A Outlet Control Valve Position	WF-P0009						LCP-F01	AO		
0728	0	ZD-F911A	Open Status	Filter Backwash Pump P-F911A Outlet Control Valve Open	WF-P0009						LCP-F01	DI		
0729	0	ZT-F911A	Position Feedback	Filter Backwash Pump P-F911A Outlet Control Valve Required Position	WF-P0009						LCP-F01	AI		
0730	0	YB-F912A	Close Command	Backwash Tank TNKF910A Inlet Valve Close	WF-P0009						LCP-F01	DO		
0731	0	YD-F912A	Open Command	Backwash Tank TNKF910A Inlet Valve Open	WF-P0009						LCP-F01	DO		
0732	0	YS-F912A	C/O/H Switch in Computer Position	Backwash Tank TNKF910A Inlet Valve in Computer Mode	WF-P0009						LCP-F01	DI		
0733	0	ZB-F912A	Closed Status	Backwash Tank TNKF910A Inlet Valve Closed	WF-P0009						LCP-F01	DI		
0734	0	ZD-F912A	Open Status	Backwash Tank TNKF910A Inlet Valve Open	WF-P0009						LCP-F01	DI		
0735	0	LI-F920A	Level Indicator Transmitter	Backwash Tank TNKF920A Level	WF-P0009						LCP-F02	AI		
0736	0	YB-F920A	Close Command	Backwash Tank TNKF920A Outlet Valve Close	WF-P0009						LCP-F02	DO		
0737	0	YD-F920A	Open Command	Backwash Tank TNKF920A Outlet Valve Open	WF-P0009						LCP-F02	DO		
0738	0	YS-F920A	C/O/H Switch in Computer Position	Backwash Tank TNKF920A Outlet Valve in Computer Mode	WF-P0009						LCP-F02	DI		
0739	0	ZB-F920A	Closed Status	Backwash Tank TNKF920A Outlet Valve Closed	WF-P0009						LCP-F02	DI		
0740	0	ZD-F920A	Open Status	Backwash Tank TNKF920A Outlet Valve Open	WF-P0009						LCP-F02	DI		
0741	0	FI-F921A	Flow Indication	Filter Backwash Pump P-F921A Outlet Flow Rate	WF-P0009						LCP-F02	AI		
0742	0	FQ-F921A	Flow Pulse	Filter Backwash Pump P-F921A Outlet Flow Total	WF-P0009						LCP-F02	DI		
0743	1	II-F921A	Current Indication	Filter Backwash Pump P-F921A Current	WF-P0013						LCP-H10	AI TCP		
0744	0	MM-F921A	Running Status	Filter Backwash Pump P-F921A Running	WF-P0013						LCP-H10	DI TCP		
0745	0	MN-F921A	Start Command	Filter Backwash Pump P-F921A Start	WF-P0013						LCP-H10	DO TCP		
0746	0	PI-F921A	Pressure Indication	Filter Backwash Pump P-F921A Outlet Pressure	WF-P0009						LCP-F02	AI		
0747	0	SC-F921A	Speed Control Output	Filter Backwash Pump P-F921A Required Speed	WF-P0013						LCP-H10	AO TCP		
0748	0	SI-F921A	Speed Indication	Filter Backwash Pump P-F921A Speed	WF-P0013						LCP-H10	AI TCP		

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
0749	0	TI-F921A	Temperature Indication	Filter Backwash Pump P-F921 Outlet Temperature	WF-P0009							LCP-F02	AI	
0750	1	TI-F921A	Temperature Transmitter	Filter Backwash Pump P-F921A Winding Temperature	WF-P0013							LCP-H10	AI TCP	
0751	1	TI-F921B	Temperature Transmitter	Filter Backwash Pump P-F921A Winding Temperature	WF-P0013							LCP-H10	AI TCP	
0752	1	TI-F921C	Temperature Transmitter	Filter Backwash Pump P-F921A Winding Temperature	WF-P0013							LCP-H10	AI TCP	
0753	1	TI-F921D	Temperature Transmitter	Filter Backwash Pump P-F921A Winding Temperature	WF-P0013							LCP-H10	AI TCP	
0754	1	TI-F921E	Temperature Transmitter	Filter Backwash Pump P-F921A Winding Temperature	WF-P0013							LCP-H10	AI TCP	
0755	1	TI-F921F	Temperature Transmitter	Filter Backwash Pump P-F921A Winding Temperature	WF-P0013							LCP-H10	AI TCP	
0756	1	TI-F921G	Temperature Transmitter	Filter Backwash Pump P-F921A Front Bearing Temperature	WF-P0013							LCP-H10	AI TCP	
0757	1	TI-F921H	Temperature Transmitter	Filter Backwash Pump P-F921A Back Bearing Temperature	WF-P0013							LCP-H10	AI TCP	
0758	0	UF-F921A	No Fault	Filter Backwash Pump P-F921A VFDFault	WF-P0013							LCP-H10	DI TCP	
0759	0	UF-F921B	No Fault	Filter Backwash Pump P-F921A Protection RelayFault	WF-P0013							LCP-H10	DI TCP	
0760	0	YS-F921A	C/O/H Switch in Computer Position	Filter Backwash Pump P-F921A Outlet Control Valve in Computer Mode	WF-P0009							LCP-F02	DI	
0761	0	YS-F921A	C/O/H Switch in Computer Position	Filter Backwash Pump P-F921A in Computer Mode	WF-P0013							LCP-H10	DI TCP	
0762	0	ZB-F921A	Closed Status	Filter Backwash Pump P-F921A Outlet Control Valve Closed	WF-P0009							LCP-F02	DI	
0763	0	ZC-F921A	Position Control Output	Filter Backwash Pump P-F921A Outlet Control Valve Required Position	WF-P0009							LCP-F02	AO	
0764	0	ZD-F921A	Open Status	Filter Backwash Pump P-F921A Outlet Control Valve Open	WF-P0009							LCP-F02	DI	
0765	0	ZT-F921A	Position Feedback	Filter Backwash Pump P-F921A Outlet Control Valve Position	WF-P0009							LCP-F02	AI	
0766	0	YB-F922A	Close Command	Backwash Tank TNKF920A Inlet Valve Close	WF-P0009							LCP-F02	DO	
0767	0	YD-F922A	Open Command	Backwash Tank TNKF920A Inlet Valve Open	WF-P0009							LCP-F02	DO	
0768	0	YS-F922A	C/O/H Switch in Computer Position	Backwash Tank TNKF920A Inlet Valve in Computer Mode	WF-P0009							LCP-F02	DI	
0769	0	ZB-F922A	Closed Status	Backwash Tank TNKF920A Inlet Valve Closed	WF-P0009							LCP-F02	DI	
0770	0	ZD-F922A	Open Status	Backwash Tank TNKF920A Inlet Valve Open	WF-P0009							LCP-F02	DI	
0771	0	YB-F931A	Close Command	Backwash Tank Inlet Crossover Valve Close	WF-P0009							LCP-F02	DO	
0772	0	YD-F931A	Open Command	Backwash Tank Inlet Crossover Valve Open	WF-P0009							LCP-F02	DO	
0773	0	YS-F931A	C/O/H Switch in Computer Position	Backwash Tank Inlet Crossover Valve in Computer Mode	WF-P0009							LCP-F02	DI	
0774	0	ZB-F931A	Closed Status	Backwash Tank Inlet Crossover Valve Closed	WF-P0009							LCP-F02	DI	
0775	0	ZD-F931A	Open Status	Backwash Tank Inlet Crossover Valve Open	WF-P0009							LCP-F02	DI	
0776	1	YB-F932A	Close Command	Backwash Tank Inlet Crossover Valve Close	WF-P0009							LCP-F01	DO	
0777	1	YD-F932A	Open Command	Backwash Tank Inlet Crossover Valve Open	WF-P0009							LCP-F01	DO	
0778	1	YS-F932A	C/O/H Switch in Computer Position	Backwash Tank Inlet Crossover Valve in Computer Mode	WF-P0009							LCP-F01	DI	
0779	1	ZB-F932A	Closed Status	Backwash Tank Inlet Crossover Valve Closed	WF-P0009							LCP-F01	DI	
0780	1	ZD-F932A	Open Status	Backwash Tank Inlet Crossover Valve Open	WF-P0009							LCP-F01	DI	
0781	0	YB-F933A	Close Command	Backwash Pump Outlet Crossover Valve Close	WF-P0009							LCP-F01	DO	
0782	0	YD-F933A	Open Command	Backwash Pump Outlet Crossover Valve Open	WF-P0009							LCP-F01	DO	
0783	0	YS-F933A	C/O/H Switch in Computer Position	Backwash Pump Outlet Crossover Valve in Computer Mode	WF-P0009							LCP-F01	DI	
0784	0	ZB-F933A	Closed Status	Backwash Pump Outlet Crossover Valve Closed	WF-P0009							LCP-F01	DI	
0785	0	ZD-F933A	Open Status	Backwash Pump Outlet Crossover Valve Open	WF-P0009							LCP-F01	DI	
0786	1	LF-F980A	Level Fault	Backwash Area Process Sump Pump Level	WF-P0012							LCP-F02	DI	
0787	1	LI-F980A	Level Indication	Backwash Area Process Sump Pump Level	WF-P0012							LCP-F02	AI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0788	1	LF-F980B	Level Fault	Backwash Area Process Sump Pump Level	WF-P0012						LCP-F02	DI	
0789	1	LI-F980B	Level Indication	Backwash Area Process Sump Pump Level	WF-P0012						LCP-F02	AI	
0790	1	MM-F981A	Running Status	Backwash Area Process Sump Pump P-F981A to Floodway Running	WF-P0012						LCP-F02	DI	
0791	1	MN-F981A	Start Command	Backwash Area Process Sump Pump P-F981A to Floodway Start	WF-P0012						LCP-F02	DO	
0792	1	UF-F981A	No Fault	Backwash Area Process Sump Pump P-F981A to Floodway Fault	WF-P0012						LCP-F02	DI	
0793	1	YS-F981A	C/O/H Switch in Computer Position	Backwash Area Process Sump Pump P-F981A to Floodway in Computer Mode	WF-P0012						LCP-F02	DI	
0794	1	MM-F982A	Running Status	Backwash Area Process Sump Pump P-F982A to Floodway Running	WF-P0012						LCP-F02	DI	
0795	1	MN-F982A	Start Command	Backwash Area Process Sump Pump P-F982A to Floodway Start	WF-P0012						LCP-F02	DO	
0796	1	UF-F982A	No Fault	Backwash Area Process Sump Pump P-F982A to Floodway Fault	WF-P0012						LCP-F02	DI	
0797	1	YS-F982A	C/O/H Switch in Computer Position	Backwash Area Process Sump Pump P-F982A to Floodway in Computer Mode	WF-P0012						LCP-F02	DI	
0798	1	MM-F983A	Running Status	Backwash Area Process Sump Pump P-F983A to Floodway Running	WF-P0012						LCP-F02	DI	
0799	1	MN-F983A	Start Command	Backwash Area Process Sump Pump P-F983A to Floodway Start	WF-P0012						LCP-F02	DO	
0800	1	UF-F983A	No Fault	Backwash Area Process Sump Pump P-F983A to Floodway Fault	WF-P0012						LCP-F02	DI	
0801	1	YS-F983A	C/O/H Switch in Computer Position	Backwash Area Process Sump Pump P-F983A to Floodway in Computer Mode	WF-P0012						LCP-F02	DI	
0802	1	LA-F984A	Level Alarm	Backwash Area Process Sump Pump P-F984A Stop Level	WF-P0012						LCP-F02	DI	
0803	1	LA-F984B	Level Alarm	Backwash Area Process Sump Pump P-F984A Start Level	WF-P0012						LCP-F02	DI	
0804	1	MM-F984A	Running Status	Backwash Area Process Sump Pump P-F984A to Sanitary Sump Running	WF-P0012						LCP-F02	DI	
0805	1	MN-F984A	Start Command	Backwash Area Process Sump Pump P-F984A to Sanitary Sump Start	WF-P0012						LCP-F02	DO	
0806	1	UF-F984A	No Fault	Backwash Area Process Sump Pump P-F984A to Sanitary Sump Fault	WF-P0012						LCP-F02	DI	
0807	1	YS-F984A	C/O/H Switch in Computer Position	Backwash Area Process Sump Pump P-F984A to Sanitary Sump in Computer Mode	WF-P0012						LCP-F02	DI	
0808	0	LA-I000A	Level Switch	Raw Water Pumping Station Low Low Level	WI-P0001						LCP-H10	DI	
0809	0	LF-I000A	No Fault	Raw Water Pumping Station Level No Fault	WI-P0001						LCP-H10	DI	
0810	0	LI-I000A	Level Indication	Raw Water Pumping Station Level	WI-P0001						LCP-H10	AI	
0811	0	LA-I000C	Level Switch	Raw Water Pumping Station High High Level	WI-P0001						LCP-H10	DI	
0812	0	LA-I000B	Level Switch	Raw Water Pumping Station Low Low Level	WI-P0002						LCP-H10	DI	
0813	0	LF-I000B	No Fault	Raw Water Pumping Station Level No Fault	WI-P0002						LCP-H10	DI	
0814	0	LI-I000B	Level Indication	Raw Water Pumping Station Level	WI-P0002						LCP-H10	AI	
0815	0	LA-I000D	Level Switch	Raw Water Pumping Station High High Level	WI-P0002						LCP-H10	DI	
0816	0	YB-I000A	Close Command	Raw Water Pumping Station Inlet Valve Close	WI-P0001						LCP-H10	DO	
0817	0	YD-I000A	Open Command	Raw Water Pumping Station Inlet Valve Open	WI-P0001						LCP-H10	DO	
0818	0	YS-I000A	C/O/H Switch in Computer Position	Raw Water Pumping Station Inlet Valve in Comp Mode	WI-P0001						LCP-H10	DI	
0819	0	YB-I000C	Close Command	Raw Water Pumping Station Dividing Wall Sluice Gate Close	WI-P0001						LCP-H10	DO	
0820	0	YD-I000C	Open Command	Raw Water Pumping Station Dividing Wall Sluice Gate Open	WI-P0001						LCP-H10	DO	
0821	0	YS-I000C	C/O/H Switch in Computer Position	Raw Water Pumping Station Dividing Wall Sluice Gate in Comp Mode	WI-P0001						LCP-H10	DI	
0822	0	YB-I000B	Close Command	Raw Water Pumping Station Inlet Valve Close	WI-P0002						LCP-H10	DO	
0823	0	YD-I000B	Open Command	Raw Water Pumping Station Inlet Valve Open	WI-P0002						LCP-H10	DO	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			P&ID DRAWING	I/O SPECIFICATION							
			FUNCTION	SERVICE	ENG. UNITS		SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS	
							LOW	HIGH	LOW	HIGH				
0824	0	YS-1000B	C/O/H Switch in Computer Position	Raw Water Pumping Station Inlet Valve in Comp Mode	WI-P0002							LCP-H10	DI	
0825	0	ZB-1000A	Closed Status	Raw Water Pumping Station Inlet Valve Closed	WI-P0001							LCP-H10	DI	
0826	0	ZD-1000A	Open Status	Raw Water Pumping Station Inlet Valve Open	WI-P0001							LCP-H10	DI	
0827	0	ZB-1000C	Closed Status	Raw Water Pumping Station Dividing Wall Sluice Gate Closed	WI-P0001							LCP-H10	DI	
0828	0	ZD-1000C	Open Status	Raw Water Pumping Station Dividing Wall Sluice Gate Open	WI-P0001							LCP-H10	DI	
0829	0	ZB-1000B	Closed Status	Raw Water Pumping Station Inlet Valve Closed	WI-P0002							LCP-H10	DI	
0830	0	ZD-1000B	Open Status	Raw Water Pumping Station Inlet Valve Open	WI-P0002							LCP-H10	DI	
0831	0	MM-1001A	Running Status	Raw Water Pump P-1001A Running	WI-P0003							LCP-H10	DI	
0832	0	MN-1001A	Start Command	Raw Water Pump P-1001A Start	WI-P0003							LCP-H10	DO	
0833	0	SI-1001A	Speed Indicator Indication	Raw Water Pump P-1001A Speed Monitor	WI-P0003							LCP-H10	AI	
0834	0	TI-1001A	Temperature Indication	Raw Water Pump P-1001A Top Bearing Temperature	WI-P0003							LCP-H10	AI TCP	
0835	0	TI-1001B	Temperature Indication	Raw Water Pump P-1001A Winding Temperature	WI-P0003							LCP-H10	AI TCP	
0836	0	TI-1001C	Temperature Indication	Raw Water Pump P-1001A Winding Temperature	WI-P0003							LCP-H10	AI TCP	
0837	0	TI-1001D	Temperature Indication	Raw Water Pump P-1001A Winding Temperature	WI-P0003							LCP-H10	AI TCP	
0838	0	TI-1001E	Temperature Indication	Raw Water Pump P-1001A Winding Temperature	WI-P0003							LCP-H10	AI TCP	
0839	0	TI-1001F	Temperature Indication	Raw Water Pump P-1001A Winding Temperature	WI-P0003							LCP-H10	AI TCP	
0840	0	TI-1001G	Temperature Indication	Raw Water Pump P-1001A Winding Temperature	WI-P0003							LCP-H10	AI TCP	
0841	0	TI-1001H	Temperature Indication	Raw Water Pump P-1001A Bottom Bearing Temperature	WI-P0003							LCP-H10	AI TCP	
0842	0	TI-1001I	Temperature Indication	Raw Water Pump P-1001A VSD Temperature	WI-P0003							LCP-H10	AI TCP	
0843	0	TI-1001J	Temperature Indication	Raw Water Pump P-1001A VSD Temperature	WI-P0003							LCP-H10	AI TCP	
0844	0	UF-1001A	No Fault	Raw Water Pump P-1001A No Fault	WI-P0003							LCP-H10	DI	
0845	0	VI-1001A	Vibration Monitor	Raw Water Pump P-1001A Vibration Monitor	WI-P0003							LCP-H10	AI TCP	
0846	0	YS-1001A	C/O/H Switch in Computer Position	Raw Water Pump P-1001A in Comp Mode	WI-P0003							LCP-H10	DI	
0847	0	YS-1001B	C/O/H Switch in Computer Position	Raw Water Pump P-1001A Speed Control Actuator in Comp Mode	WI-P0003							LCP-H10	DI	
0848	1	YS-1001C	Bypass Switch	Raw Water Pump P-1001A Soft Start Bypass Switch	WI-P0003							CP-H10	DI	
0849	0	ZB-1001C	Closed Status	Raw Water Pump P-1001A Outlet Valve Closed	WI-P0001							LCP-H10	DI	
0850	0	ZD-1001C	Open Status	Raw Water Pump P-1001A Outlet Valve Open	WI-P0001							LCP-H10	DI	
0851	0	ZC-1001B	Position Control Output	Raw Water Pump P-1001A Speed Control Actuator Required Position	WI-P0003							LCP-H10	AO	
0852	1	ZI-1001B	Position Feedback	Raw Water Pump P-1001A Speed Control Actuator Position	WI-P0003							LCP-H10	AI	
0853	0	MM-1002A	Running Status	Raw Water Pump P-1002A Running	WI-P0003							LCP-H10	DI	
0854	0	MN-1002A	Start Command	Raw Water Pump P-1002A Start	WI-P0003							LCP-H10	DO	
0855	0	SI-1002A	Speed Indicator Indication	Raw Water Pump P-1002A Speed Monitor	WI-P0003							LCP-H10	AI	
0856	0	TI-1002A	Temperature Indication	Raw Water Pump P-1002A Top Bearing Temperature	WI-P0003							LCP-H10	AI TCP	
0857	0	TI-1002B	Temperature Indication	Raw Water Pump P-1002A Winding Temperature	WI-P0003							LCP-H10	AI TCP	
0858	0	TI-1002C	Temperature Indication	Raw Water Pump P-1002A Winding Temperature	WI-P0003							LCP-H10	AI TCP	
0859	0	TI-1002D	Temperature Indication	Raw Water Pump P-1002A Winding Temperature	WI-P0003							LCP-H10	AI TCP	
0860	0	TI-1002E	Temperature Indication	Raw Water Pump P-1002A Winding Temperature	WI-P0003							LCP-H10	AI TCP	
0861	0	TI-1002F	Temperature Indication	Raw Water Pump P-1002A Winding Temperature	WI-P0003							LCP-H10	AI TCP	
0862	0	TI-1002G	Temperature Indication	Raw Water Pump P-1002A Winding Temperature	WI-P0003							LCP-H10	AI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0863	0	TI-1002H	Temperature Indication	Raw Water Pump P-1002A Bottom Bearing Temperature	WI-P0003						LCP-H10	AI TCP	
0864	0	TI-1002I	Temperature Indication	Raw Water Pump P-1002A VSD Temperature	WI-P0003						LCP-H10	AI TCP	
0865	0	TI-1002J	Temperature Indication	Raw Water Pump P-1002A VSD Temperature	WI-P0003						LCP-H10	AI TCP	
0866	0	UF-1002A	No Fault	Raw Water Pump P-1002A No Fault	WI-P0003						LCP-H10	DI	
0867	0	VI-1002A	Vibration Monitor	Raw Water Pump P-1002A Vibration Monitor	WI-P0003						LCP-H10	AI TCP	
0868	0	YS-1002A	C/O/H Switch in Computer Position	Raw Water Pump P-1002A in Comp Mode	WI-P0003						LCP-H10	DI	
0869	0	YS-1002B	C/O/H Switch in Computer Position	Raw Water Pump P-1002A Speed Control Actuator in Comp Mode	WI-P0003						LCP-H10	DI	
0870	1	YS-1002C	Bypass Switch	Raw Water Pump P-1002A Soft Start Bypass Switch	WI-P0003						CP-H10	DI	
0871	0	ZB-1002C	Closed Status	Raw Water Pump P-1002A Outlet Valve Closed	WI-P0001						LCP-H10	DI	
0872	0	ZD-1002C	Open Status	Raw Water Pump P-1002A Outlet Valve Open	WI-P0001						LCP-H10	DI	
0873	0	ZC-1002B	Position Control Output	Raw Water Pump P-1002A Speed Control Actuator Required Position	WI-P0003						LCP-H10	AO	
0874	1	ZI-1002B	Position Feedback	Raw Water Pump P-1002A Speed Control Actuator Position	WI-P0003						LCP-H10	AI	
0875	0	MM-1003A	Running Status	Raw Water Pump P-1003A Running	WI-P0004						LCP-H10	DI	
0876	0	MN-1003A	Start Command	Raw Water Pump P-1003A Start	WI-P0004						LCP-H10	DO	
0877	0	SI-1003A	Speed Indicator Indication	Raw Water Pump P-1003A Speed Monitor	WI-P0004						LCP-H10	AI	
0878	0	TI-1003A	Temperature Indication	Raw Water Pump P-1003A Top Bearing Temperature	WI-P0004						LCP-H10	AI TCP	
0879	0	TI-1003B	Temperature Indication	Raw Water Pump P-1003A Winding Temperature	WI-P0004						LCP-H10	AI TCP	
0880	0	TI-1003C	Temperature Indication	Raw Water Pump P-1003A Winding Temperature	WI-P0004						LCP-H10	AI TCP	
0881	0	TI-1003D	Temperature Indication	Raw Water Pump P-1003A Winding Temperature	WI-P0004						LCP-H10	AI TCP	
0882	0	TI-1003E	Temperature Indication	Raw Water Pump P-1003A Winding Temperature	WI-P0004						LCP-H10	AI TCP	
0883	0	TI-1003F	Temperature Indication	Raw Water Pump P-1003A Winding Temperature	WI-P0004						LCP-H10	AI TCP	
0884	0	TI-1003G	Temperature Indication	Raw Water Pump P-1003A Winding Temperature	WI-P0004						LCP-H10	AI TCP	
0885	0	TI-1003H	Temperature Indication	Raw Water Pump P-1003A Bottom Bearing Temperature	WI-P0004						LCP-H10	AI	
0886	0	TI-1003I	Temperature Indication	Raw Water Pump P-1003A VSD Temperature	WI-P0004						LCP-H10	AI TCP	
0887	0	TI-1003J	Temperature Indication	Raw Water Pump P-1003A VSD Temperature	WI-P0004						LCP-H10	AI TCP	
0888	0	UF-1003A	No Fault	Raw Water Pump P-1003A No Fault	WI-P0004						LCP-H10	DI	
0889	0	VI-1003A	Vibration Monitor	Raw Water Pump P-1003A Vibration Monitor	WI-P0004						LCP-H10	AI TCP	
0890	0	YS-1003A	C/O/H Switch in Computer Position	Raw Water Pump P-1003A in Comp Mode	WI-P0004						LCP-H10	DI	
0891	0	YS-1003B	C/O/H Switch in Computer Position	Raw Water Pump P-1003A Speed Control Actuator in Comp Mode	WI-P0004						LCP-H10	DI	
0892	1	YS-1003C	Bypass Switch	Raw Water Pump P-1001A Soft Start Bypass Switch	WI-P0004						CP-H10	DI	
0893	0	ZB-1003C	Closed Status	Raw Water Pump P-1003A Outlet Valve Closed	WI-P0002						LCP-H10	DI	
0894	0	ZD-1003C	Open Status	Raw Water Pump P-1003A Outlet Valve Open	WI-P0002						LCP-H10	DI	
0895	0	ZC-1003B	Position Control Output	Raw Water Pump P-1003A Speed Control Actuator Required Position	WI-P0004						LCP-H10	AO	
0896	1	ZI-1003B	Position Feedback	Raw Water Pump P-1003A Speed Control Actuator Position	WI-P0004						LCP-H10	AI	
0897	0	MM-1004A	Running Status	Raw Water Pump P-1004A Running	WI-P0004						LCP-H10	DI	
0898	0	MN-1004A	Start Command	Raw Water Pump P-1004A Start	WI-P0004						LCP-H10	DO	
0899	0	SI-1004A	Speed Indicator Indication	Raw Water Pump P-1004A Speed Monitor	WI-P0004						LCP-H10	AI	
0900	0	TI-1004A	Temperature Indication	Raw Water Pump P-1004A Top Bearing Temperature	WI-P0004						LCP-H10	AI TCP	
0901	0	TI-1004B	Temperature Indication	Raw Water Pump P-1004A Winding Temperature	WI-P0004						LCP-H10	AI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0902	0	TI-I004C	Temperature Indication	Raw Water Pump P-I004A Winding Temperature	WI-P0004						LCP-H10	AI TCP	
0903	0	TI-I004D	Temperature Indication	Raw Water Pump P-I004A Winding Temperature	WI-P0004						LCP-H10	AI TCP	
0904	0	TI-I004E	Temperature Indication	Raw Water Pump P-I004A Winding Temperature	WI-P0004						LCP-H10	AI TCP	
0905	0	TI-I004F	Temperature Indication	Raw Water Pump P-I004A Winding Temperature	WI-P0004						LCP-H10	AI TCP	
0906	0	TI-I004G	Temperature Indication	Raw Water Pump P-I004A Winding Temperature	WI-P0004						LCP-H10	AI TCP	
0907	0	TI-I004H	Temperature Indication	Raw Water Pump P-I004A Bottom Bearing Temperature	WI-P0004						LCP-H10	AI TCP	
0908	0	TI-I004I	Temperature Indication	Raw Water Pump P-I004A VSD Temperature	WI-P0004						LCP-H10	AI TCP	
0909	0	TI-I004J	Temperature Indication	Raw Water Pump P-I004A VSD Temperature	WI-P0004						LCP-H10	AI TCP	
0910	0	UF-I004A	No Fault	Raw Water Pump P-I004A No Fault	WI-P0004						LCP-H10	DI	
0911	0	VI-I004A	Vibration Monitor	Raw Water Pump P-I004A Vibration Monitor	WI-P0004						LCP-H10	AI TCP	
0912	0	YS-I004A	C/O/H Switch in Computer Position	Raw Water Pump P-I004A in Comp Mode	WI-P0004						LCP-H10	DI	
0913	0	YS-I004B	C/O/H Switch in Computer Position	Raw Water Pump P-I004A Speed Control Actuator in Comp Mode	WI-P0004						LCP-H10	DI	
0914	1	YS-I004C	Bypass Switch	Raw Water Pump P-I001A Soft Start Bypass Switch	WI-P0004						CP-H10	DI	
0915	0	ZB-I004C	Closed Status	Raw Water Pump P-I004A Outlet Valve Closed	WI-P0002						LCP-H10	DI	
0916	0	ZD-I004C	Open Status	Raw Water Pump P-I004A Outlet Valve Open	WI-P0002						LCP-H10	DI	
0917	0	ZC-I004B	Position Control Output	Raw Water Pump P-I004A Speed Control Actuator Required Position	WI-P0004						LCP-H10	AO	
0918	1	ZI-I004B	Position Feedback	Raw Water Pump P-I004A Speed Control Actuator Position	WI-P0004						LCP-H10	AI	
0919	1	FI-J701A	Discharge Flow	HypoChlorite Mixing Pump P-J701A	WF-P0014						LCP-F01	DI	
0920	1	FQ-J701A	Discharge Flow Pulse	HypoChlorite Mixing Pump P-J701A	WF-P0014						LCP-F01	DI	
0921	1	MM-J701A	Running Status	HypoChlorite Mixing Pump P-J701A	WF-P0014						LCP-F01	DI	
0922	1	MN-J701A	Start Command	HypoChlorite Mixing Pump P-J701A	WF-P0014						LCP-F01	DO	
0923	1	PA-J701A	Discharge Pressure High	HypoChlorite Mixing Pump P-J701A	WF-P0014						LCP-F01	DI	
0924	1	UF-J701A	No Fault	HypoChlorite Mixing Pump P-J701A	WF-P0014						LCP-F01	DI	
0925	1	YS-J701A	C/O/H Switch in Computer Position	HypoChlorite Mixing Pump P-J701A	WF-P0014						LCP-F01	DI	
0926	1	YB-J701C	Close Command	HypoChlorite Mixing Pump P-J701A Discharge Valve	WF-P0014						LCP-F01	DO	
0927	1	YD-J701C	Open Command	HypoChlorite Mixing Pump P-J701A Discharge Valve	WF-P0014						LCP-F01	DI	
0928	1	YS-J701C	C/O/H Switch in Computer Position	HypoChlorite Mixing Pump P-J701A Discharge Valve	WF-P0014						LCP-F01	DI	
0929	1	ZB-J701C	Closed Status	HypoChlorite Mixing Pump P-J701A Discharge Valve	WF-P0014						LCP-F01	DI	
0930	1	ZD-J701C	Open Status	HypoChlorite Mixing Pump P-J701A Discharge Valve	WF-P0014						LCP-F01	DI	
0931	1	FI-J702A	Discharge Flow	HypoChlorite Mixing Pump P-J702A	WF-P0014						LCP-F01	DI	
0932	1	FQ-J702A	Discharge Flow Pulse	HypoChlorite Mixing Pump P-J702A	WF-P0014						LCP-F01	DI	
0933	1	MM-J702A	Running Status	HypoChlorite Mixing Pump P-J702A	WF-P0014						LCP-F01	DI	
0934	1	MN-J702A	Start Command	HypoChlorite Mixing Pump P-J702A	WF-P0014						LCP-F01	DO	
0935	1	PA-J702A	Discharge Pressure High	HypoChlorite Mixing Pump P-J702A	WF-P0014						LCP-F01	DI	
0936	1	UF-J702A	No Fault	HypoChlorite Mixing Pump P-J702A	WF-P0014						LCP-F01	DI	
0937	1	YS-J702A	C/O/H Switch in Computer Position	HypoChlorite Mixing Pump P-J702A	WF-P0014						LCP-F01	DI	
0938	1	YB-J702C	Close Command	HypoChlorite Mixing Pump P-J702A Discharge Valve	WF-P0014						LCP-F01	DO	
0939	1	YD-J702C	Open Command	HypoChlorite Mixing Pump P-J702A Discharge Valve	WF-P0014						LCP-F01	DI	
0940	1	YS-J702C	C/O/H Switch in Computer Position	HypoChlorite Mixing Pump P-J702A Discharge Valve	WF-P0014						LCP-F01	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
0941	1	ZB-J702C	Closed Status	HypoChlorite Mixing Pump P-J702A Discharge Valve	WF-P0014						LCP-F01	DI	
0942	1	ZD-J702C	Open Status	HypoChlorite Mixing Pump P-J702A Discharge Valve	WF-P0014						LCP-F01	DI	
0943	1	YB-J703C	Close Command	HypoChlorite Mixing Pump P-J703A Crossover Valve	WF-P0014						LCP-F01	DO	
0944	1	YD-J703C	Open Command	HypoChlorite Mixing Pump P-J703A Crossover Valve	WF-P0014						LCP-F01	DI	
0945	1	YS-J703C	C/O/H Switch in Computer Position	HypoChlorite Mixing Pump P-J703A Crossover Valve	WF-P0014						LCP-F01	DI	
0946	1	ZB-J703C	Closed Status	HypoChlorite Mixing Pump P-J703A Crossover Valve	WF-P0014						LCP-F01	DI	
0947	1	ZD-J703C	Open Status	HypoChlorite Mixing Pump P-J703A Crossover Valve	WF-P0014						LCP-F01	DI	
0948	0	YD-J991A	Open Command	Sodium Hypochlorite to Backwash Pump P-F911A Valve Open	WF-P0009						LCP-F01	DO	
0949	0	YD-J992A	Open Command	Sodium Hypochlorite to Backwash Pump P-F921A Valve Open	WF-P0009						LCP-F02	DO	
0950	0	LS-0010A	Level Alarm	Liquid Oxygen Storage Tank #1 Level High	WO-P0001						CP-O11	DI	
0951	0	LF-0010A	Level Fault	Liquid Oxygen Storage Tank #1 Level Fault	WO-P0001						CP-O11	DI	
0952	0	LT-0010A	Level Indication	Liquid Oxygen Storage Tank #1 Level	WO-P0001						CP-O11	AI	
0953	0	PS-0010A	Pressure Alarm	Liquid Oxygen Storage Tank #1 Pressure High	WO-P0001						CP-O11	DI	
0954	0	PT-0010A	Pressure Indicator Transmitter	Liquid Oxygen Storage Tank #1 Pressure	WO-P0001						CP-O11	AI	
0955	0	YB-0010A	Close Command	Liquid Oxygen Storage Tank #1 Outlet Valve Close	WO-P0001						CP-O11	DO	
0956	0	YD-0010A	Open Command	Liquid Oxygen Storage Tank #1 Outlet Valve Open	WO-P0001						CP-O11	DO	
0957	0	YS-0010A	C/O/H Switch in Computer Position	Liquid Oxygen Storage Tank #1 Outlet Valve in Computer Mode	WO-P0001						CP-O11	DI	
0958	0	ZB-0010A	Closed Status	Liquid Oxygen Storage Tank #1 Outlet Valve Closed	WO-P0001						CP-O11	DI	
0959	0	ZD-0010A	Open Status	Liquid Oxygen Storage Tank #1 Outlet Valve Open	WO-P0001						CP-O11	DI	
0960	0	YB-0011A	Close Command	Liquid Storage Tank #1 Automatic Switchover Valve Close	WO-P0001						CP-O11	DO	
0961	0	YD-0011A	Open Command	Liquid Storage Tank #1 Automatic Switchover Valve Open	WO-P0001						CP-O11	DO	
0962	0	YS-0011A	C/O/H Switch in Computer Position	Liquid Storage Tank #1 Automatic Switchover Valve in Computer Mode	WO-P0001						CP-O11	DI	
0963	0	ZB-0011A	Closed Status	Liquid Storage Tank #1 Automatic Switchover Valve Closed	WO-P0001						CP-O11	DI	
0964	0	ZD-0011A	Open Status	Liquid Storage Tank #1 Automatic Switchover Valve Open	WO-P0001						CP-O11	DI	
0965	0	TT-0012A	Temperature Indication	Liquid Oxygen Temperature	WO-P0001						CP-O11	AI	
0966	0	PT-0015A	Pressure Indication	Liquid Oxygen Storage Tank Outlet Pressure	WO-P0001						CP-O11	AI	
0967	0	YB-0015A	Close Command	Liquid Oxygen Master Oxygen Shutoff Valve Close	WO-P0001						CP-O11	DO	
0968	0	YD-0015A	Open Command	Liquid Oxygen Master Oxygen Shutoff Valve Open	WO-P0001						CP-O11	DO	
0969	0	YS-0015A	C/O/H Switch in Computer Position	Liquid Oxygen Master Oxygen Shutoff Valve in Computer Mode	WO-P0001						CP-O11	DI	
0970	0	ZB-0015A	Closed Status	Liquid Oxygen Master Oxygen Shutoff Valve Closed	WO-P0001						CP-O11	DI	
0971	0	ZD-0015A	Open Status	Liquid Oxygen Master Oxygen Shutoff Valve Open	WO-P0001						CP-O11	DI	
0972	0	LS-0020A	Level Switch	Liquid Oxygen Storage Tank #2 Level High	WO-P0002						CP-O11	DI	
0973	0	LF-0020A	Level Fault	Liquid Oxygen Storage Tank #2 Level	WO-P0002						CP-O11	DI	
0974	0	LI-0020A	Level Indication	Liquid Oxygen Storage Tank #2 Level	WO-P0002						CP-O11	AI	
0975	0	PS-0020A	Pressure Switch	Liquid Oxygen Storage Tank #2 Pressure High	WO-P0002						CP-O11	DI	
0976	0	PI-0020A	Pressure Indication	Liquid Oxygen Storage Tank #2 Pressure	WO-P0002						CP-O11	AI	
0977	0	YB-0020A	Close Command	Liquid Oxygen Storage Tank #2 Outlet Valve Close	WO-P0002						CP-O11	DO	
0978	0	YD-0020A	Open Command	Liquid Oxygen Storage Tank #2 Outlet Valve Open	WO-P0002						CP-O11	DO	
0979	0	YS-0020A	C/O/H Switch in Computer Position	Liquid Oxygen Storage Tank #2 Outlet Valve in Computer Mode	WO-P0002						CP-O11	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION		P&ID DRAWING	I/O SPECIFICATION								
			FUNCTION	SERVICE		ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS	
							LOW	HIGH	LOW	HIGH				
0980	0	ZB-0020A	Closed Status	Liquid Oxygen Storage Tank #2 Outlet Valve Closed	WO-P0002							CP-011	DI	
0981	0	ZD-0020A	Open Status	Liquid Oxygen Storage Tank #2 Outlet Valve Open	WO-P0002							CP-011	DI	
0982	0	YB-0021A	Close Command	Liquid Storage Tank #2 Automatic Switchover Valve Close	WO-P0001							CP-011	DO	
0983	0	YD-0021A	Open Command	Liquid Storage Tank #2 Automatic Switchover Valve Open	WO-P0001							CP-011	DO	
0984	0	YS-0021A	C/O/H Switch in Computer Position	Liquid Storage Tank #2 Automatic Switchover Valve in Computer Mode	WO-P0001							CP-011	DI	
0985	0	ZB-0021A	Closed Status	Liquid Storage Tank #2 Automatic Switchover Valve Closed	WO-P0001							CP-011	DI	
0986	0	ZD-0021A	Open Status	Liquid Storage Tank #2 Automatic Switchover Valve Open	WO-P0001							CP-011	DI	
0987	0	PI-0030A	Pressure Indication	Liquid Oxygen Particle Filter GFO030 Differential Pressure	WO-P0003							CP-030	AI	
0988	0	AI-0032A	Dewpoint Indication	Liquid Oxygen to Ozone Generators Dewpoint Analyzer	WO-P0003							CP-030	AI	
0989	0	PA-0050A	Pressure Switch	Nitrogen Boost Air Receiver Pressure Switch High	WO-P0004							CP-030	DI	
0990	0	AI-0051A	Dew Point Indication	Nitrogen Boost Unit to Ozone Generator Dewpoint	WO-P0004							CP-030	AI	
0991	1	FA-0051A	Flow Alarm	Nitrogen Boost Unit to Ozone Generators Low Flow	WO-P0004							CP-030	DI	
0992	0	YD-0051A	Open Command	Nitrogen Boost Unit to Ozone Generators Flow Control Valve Open	WO-P0004							CP-030	DO	
0993	0	MM-0052A	Running Status	Nitrogen Boost Unit Compressor CMP-0052A Running	WO-P0004							CP-030	DI	
0994	0	MN-0052A	Start Command	Nitrogen Boost Unit Compressor CMP-0052A Start	WO-P0004							CP-030	DO	
0995	0	UF-0052A	No Fault	Nitrogen Boost Unit Compressor CMP-0052A Fault	WO-P0004							CP-030	DI	
0996	0	YS-0052A	C/O/H Switch in Computer Position	Nitrogen Boost Unit Compressor CMP-0052A in Computer Mode	WO-P0004							CP-030	DI	
0997	0	MM-0053A	Running Status	Nitrogen Boost Unit Compressor CMP-0053A Running	WO-P0004							CP-030	DI	
0998	0	MN-0053A	Start Command	Nitrogen Boost Unit Compressor CMP-0053A Start	WO-P0004							CP-030	DO	
0999	0	UF-0053A	No Fault	Nitrogen Boost Unit Compressor CMP-0053A Fault	WO-P0004							CP-030	DI	
1000	0	YS-0053A	C/O/H Switch in Computer Position	Nitrogen Boost Unit Compressor CMP-0053A in Computer Mode	WO-P0004							CP-030	DI	
1001	0	AI-0110A	Gas Level Indication	Ambient Ozone Gas Level	WO-P0005							CP-030	AI	
1002	1	AA-0110A	Ambient Alarm	Ambient Ozone Analyzer High High	WO-P0005								DI	
1003	1	AA-0110B	Ambient Alarm	Ambient Ozone Analyzer High High	WO-P0005								DI	
1004	0	AI-0110B	Gas Level Indication	Ambient Oxygen Gas Level	WO-P0005							CP-030	AI	
1005	1	PI-0110A	Pressure Indication	Liquid Oxygen to Ozone Generator GEN-0110A Pressure	WO-P0005							PSU-0310A	AI	
1006	1	TI-0110A	Temperature Indication	Liquid Oxygen to Ozone Generator GEN-0110A Temperature	WO-P0005							PSU-0310A	AI	
1007	1	FI-0411B	Flow Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410 Inlet Flow Rate	WO-P0016							PSU-0310A	AI	
1008	1	PI-0411B	Pressure Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410 Inlet Pressure	WO-P0016							PSU-0310A	AI	
1009	1	YB-0411B	Close Command	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410 Inlet Valve Close	WO-P0016							PSU-0310A	DO	
1010	1	YD-0411B	Open Command	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410 Inlet Valve Open	WO-P0016							PSU-0310A	DO	
1011	1	YS-0411B	C/O/H Switch in Computer Position	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410 Inlet Valve in Computer Mode	WO-P0016							PSU-0310A	DI	
1012	1	ZB-0411B	Closed Status	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410 Inlet Valve Closed	WO-P0016							PSU-0310A	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	ENG. UNITS	I/O SPECIFICATION						
								SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
1013	1	ZD-0411B	Open Status	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410 Inlet Valve Open		WO-P0016						PSU-0310A	DI	
1014	1	LA-0110A	Level Alarm	Ozone Generator #1 Inlet Side High Level Alarm		WO-P0005						PSU-0310A	DI	
1015	1	LA-0110B	Level Alarm	Ozone Generator #1 Outlet Side High Level Alarm		WO-P0005						PSU-0310A	DI	
1016	1	AI-0112A	Ozone Gas Concentration Indication	Ozone Generator GEN-0110A Outlet Ozone Gas Concentration		WO-P0005						PSU-0310A	AI	
1017	1	FI-0112A	Flow Indication	Ozone Generator GEN-0110A Flow Rate		WO-P0005						PSU-0310A	AI	
1018	1	PI-0112A	Pressure Indication	Ozone Generator GEN-0110A Outlet Pressure		WO-P0005						PSU-0310A	AI	
1019	1	TI-0112A	Temperature Indication	Ozone Generator GEN-0110A Outlet Temperature		WO-P0005						PSU-0310A	AI	
1020	1	YB-0112B	Close Command	Ozone Generator GEN-0110A Outlet Control Valve Close		WO-P0005						PSU-0310A	DO	
1021	1	YD-0112B	Open Command	Ozone Generator GEN-0110A Outlet Control Valve Open		WO-P0005						PSU-0310A	DI	
1022	1	YS-0112B	C/O/H Switch in Computer Position	Ozone Generator GEN-0110A Outlet Flow Control Valve in Computer Mode		WO-P0005						PSU-0310A	DI	
1023	1	YS-0112A	C/O/H Switch in Computer Position	Ozone Generator GEN-0110A Outlet Control Valve in Computer Mode		WO-P0005						PSU-0310A	DI	
1024	1	ZB-0112A	Closed Status	Ozone Generator GEN-0110A Outlet Flow Control Valve Closed		WO-P0005						PSU-0310A	DI	
1025	1	ZB-0112B	Closed Status	Ozone Generator GEN-0110A Outlet Control Valve Closed		WO-P0005						PSU-0310A	DI	
1026	1	ZC-0112A	Position Control Output	Ozone Generator GEN-0110A Outlet Flow Control Valve Required Position		WO-P0005						PSU-0310A	AO	
1027	1	ZD-0112A	Open Status	Ozone Generator GEN-0110A Outlet Flow Control Valve Open		WO-P0005						PSU-0310A	DI	
1028	1	ZD-0112B	Open Status	Ozone Generator GEN-0110A Outlet Control Valve Open		WO-P0005						PSU-0310A	DI	
1029	1	ZI-0112A	Position Feedback	Ozone Generator GEN-0110A Outlet Flow Control Valve Position		WO-P0005						PSU-0310A	AI	
1030	1	YB-0119A	Close Command	Liquid Oxygen to Ozone Generator GEN-0110A Flow Control Valve Close		WO-P0005						PSU-0310A	DO	
1031	1	YD-0119A	Open Command	Liquid Oxygen to Ozone Generator GEN-0110A Flow Control Valve Open		WO-P0005						PSU-0310A	DO	
1032	1	YS-0119A	C/O/H Switch in Computer Position	Liquid Oxygen to Ozone Generator GEN-0110A Flow Control Valve in Computer Mode		WO-P0005						PSU-0310A	DI	
1033	1	ZB-0119A	Closed Status	Liquid Oxygen to Ozone Generator GEN-0110A Flow Control Valve Closed		WO-P0005						PSU-0310A	DI	
1034	1	ZD-0119A	Open Status	Liquid Oxygen to Ozone Generator GEN-0110A Flow Control Valve Open		WO-P0005						PSU-0310A	DI	
1035	1	AI-0130A	Gas Level Indication	Ambient Ozone Gas Level		WO-P0006						CP-030	AI	
1036	1	AI-0130B	Gas Level Indication	Ambient Oxygen Gas Level		WO-P0006						CP-030	AI	
1037	1	PI-0130A	Pressure Indication	Liquid Oxygen to Ozone Generator GEN-0130A Pressure		WO-P0006						PSU-0320A	AI	
1038	1	TI-0130A	Temperature Indication	Liquid Oxygen to Ozone Generator GEN-0130A Temperature		WO-P0006						PSU-0320A	AI	
1039	1	FI-0421A	Flow Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420 Inlet Flow Rate		WO-P0017						PSU-0320A	AI	
1040	1	PI-0421A	Pressure Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420 Inlet Pressure		WO-P0017						PSU-0320A	AI	
1041	1	YB-0421B	Close Command	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420 Inlet Valve Close		WO-P0017						PSU-0320A	DO	
1042	1	YD-0421B	Open Command	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420 Inlet Valve Open		WO-P0017						PSU-0320A	DO	
1043	1	YS-0421B	C/O/H Switch in Computer Position	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420 Inlet Valve in Computer Mode		WO-P0017						PSU-0320A	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	ENG. UNITS	I/O SPECIFICATION						
								SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
1044	1	ZB-0421B	Closed Status	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420 Inlet Valve Closed		WO-P0017						PSU-0320A	DI	
1045	1	ZD-0421B	Open Status	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420 Inlet Valve Open		WO-P0017						PSU-0320A	DI	
1046	1	AA-O130A	Ambient Alarm	Ambient Ozone Analyzer High High		WO-P0006							DI	
1047	1	AA-O130B	Ambient Alarm	Ambient Ozone Analyzer High High		WO-P0006							DI	
1048	1	LA-O130A	Level Alarm	Ozone Generator #2 Inlet Side High Level Alarm		WO-P0006						PSU-0320A	DI	
1049	1	LA-O130B	Level Alarm	Ozone Generator #2 Outlet Side High Level Alarm		WO-P0006						PSU-0320A	DI	
1050	1	AA-O001B	Ambient Alarm	Ambient Ozone Alarm to HVAC System High		WO-P0006							DI	
1051	1	AI-O132A	Ozone Gas Concentration Indication	Ozone Generator GEN-O130A Outlet Ozone Gas Concentration		WO-P0006						PSU-0320A	AI	
1052	1	FI-O132A	Flow Indication	Ozone Generator GEN-O130A Flow Rate		WO-P0006						PSU-0320A	AI	
1053	1	PI-O132A	Pressure Indication	Ozone Generator GEN-O130A Outlet Pressure		WO-P0006						PSU-0320A	AI	
1054	1	TI-O132A	Temperature Indication	Ozone Generator GEN-O130A Outlet Temperature		WO-P0006						PSU-0320A	AI	
1055	1	YB-O132B	Close Command	Ozone Generator GEN-O130A Outlet Control Valve Close		WO-P0006						PSU-0320A	DO	
1056	1	YD-O132B	Open Command	Ozone Generator GEN-O130A Outlet Control Valve Open		WO-P0006						PSU-0320A	DI	
1057	1	YS-O132A	C/O/H Switch in Computer Position	Ozone Generator GEN-O130A Outlet Flow Control Valve in Computer Mode		WO-P0006						PSU-0320A	DI	
1058	1	YS-O132B	C/O/H Switch in Computer Position	Ozone Generator GEN-O130A Outlet Control Valve in Computer Mode		WO-P0006						PSU-0320A	DI	
1059	1	ZB-O132A	Closed Status	Ozone Generator GEN-O130A Outlet Flow Control Valve Closed		WO-P0006						PSU-0320A	DI	
1060	1	ZB-O132B	Closed Status	Ozone Generator GEN-O130A Outlet Control Valve Closed		WO-P0006						PSU-0320A	DI	
1061	1	ZC-O132A	Position Control Output	Ozone Generator GEN-O130A Outlet Flow Control Valve Required Position		WO-P0006						PSU-0320A	AO	
1062	1	ZD-O132A	Open Status	Ozone Generator GEN-O130A Outlet Flow Control Valve Open		WO-P0006						PSU-0320A	DI	
1063	1	ZD-O132B	Open Status	Ozone Generator GEN-O130A Outlet Control Valve Open		WO-P0006						PSU-0320A	DI	
1064	1	ZI-O132A	Position Feedback	Ozone Generator GEN-O130A Outlet Flow Control Valve Position		WO-P0006						PSU-0320A	AI	
1065	1	YB-O139A	Close Command	Liquid Oxygen to Ozone Generator GEN-O130A Flow Control Valve Close		WO-P0006						PSU-0320A	DO	
1066	1	YD-O139A	Open Command	Liquid Oxygen to Ozone Generator GEN-O130A Flow Control Valve Open		WO-P0006						PSU-0320A	DO	
1067	1	YS-O139A	C/O/H Switch in Computer Position	Liquid Oxygen to Ozone Generator GEN-O130A Flow Control Valve in Computer Mode		WO-P0006						PSU-0320A	DI	
1068	1	ZB-O139A	Closed Status	Liquid Oxygen to Ozone Generator GEN-O130A Flow Control Valve Closed		WO-P0006						PSU-0320A	DI	
1069	1	ZD-O139A	Open Status	Liquid Oxygen to Ozone Generator GEN-O130A Flow Control Valve Open		WO-P0006						PSU-0320A	DI	
1070	1	AI-O150A	Gas Level Indication	Ambient Ozone Gas Level		WO-P0007						CP-030	AI	
1071	1	PI-O150A	Pressure Indication	Liquid Oxygen to Ozone Generator GEN-O150A Pressure		WO-P0007						PSU-0330A	AI	
1072	1	TI-O150A	Temperature Indication	Liquid Oxygen to Ozone Generator GEN-O150A Temperature		WO-P0007						PSU-0330A	AI	
1073	1	FI-O431A	Flow Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430 Inlet Flow Rate		WO-P0018						PSU-0330A	AI	
1074	1	PI-O431A	Pressure Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430 Inlet Pressure		WO-P0018						PSU-0330A	AI	
1075	1	YB-O431B	Close Command	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430 Inlet Valve Close		WO-P0018						PSU-0330A	DO	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	ENG. UNITS	I/O SPECIFICATION						
								SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
1076	1	YD-0431B	Open Command	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430 Inlet Valve Open		WO-P0018						PSU-0330A	DO	
1077	1	YS-0431B	C/O/H Switch in Computer Position	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430 Inlet Valve in Computer Mode		WO-P0018						PSU-0330A	DI	
1078	1	ZB-0431B	Closed Status	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430 Inlet Valve Closed		WO-P0018						PSU-0330A	DI	
1079	1	ZD-0431B	Open Status	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430 Inlet Valve Open		WO-P0018						PSU-0330A	DI	
1080	1	AA-O150A	Ambient Alarm	Ambient Ozone Analyzer High High		WO-P0007							DI	
1081	1	LA-O150A	Level Alarm	Ozone Generator #3 Inlet Side High Level Alarm		WO-P0007						PSU-0320A	DI	
1082	1	LA-O150B	Level Alarm	Ozone Generator #3 Outlet Side High Level Alarm		WO-P0007						PSU-0320A	DI	
1083	1	AI-O152A	Ozone Gas Concentration Indication	Ozone Generator GEN-O150A Outlet Ozone Gas Concentration		WO-P0007						PSU-0330A	AI	
1084	1	FI-O152A	Flow Indication	Ozone Generator GEN-O150A Flow Rate		WO-P0007						PSU-0330A	AI	
1085	1	PI-O152A	Pressure Indication	Ozone Generator GEN-O150A Outlet Pressure		WO-P0007						PSU-0330A	AI	
1086	1	TI-O152A	Temperature Indication	Ozone Generator GEN-O150A Outlet Temperature		WO-P0007						PSU-0330A	AI	
1087	1	YB-O152B	Close Command	Ozone Generator GEN-O150A Outlet Control Valve Close		WO-P0007						PSU-0330A	DO	
1088	1	YD-O152B	Open Command	Ozone Generator GEN-O150A Outlet Control Valve Open		WO-P0007						PSU-0330A	DO	
1089	1	YS-O152B	C/O/H Switch in Computer Position	Ozone Generator GEN-O150A Outlet Flow Control Valve in Computer Mode		WO-P0007						PSU-0330A	DI	
1090	1	YS-O152A	C/O/H Switch in Computer Position	Ozone Generator GEN-O150A Outlet Control Valve in Computer Mode		WO-P0007						PSU-0330A	DI	
1091	1	ZB-O152A	Closed Status	Ozone Generator GEN-O150A Outlet Flow Control Valve Closed		WO-P0007						PSU-0330A	DI	
1092	1	ZB-O152B	Closed Status	Ozone Generator GEN-O150A Outlet Control Valve Closed		WO-P0007						PSU-0330A	DI	
1093	1	ZC-O152A	Position Control Output	Ozone Generator GEN-O150A Outlet Flow Control Valve Required Position		WO-P0007						PSU-0330A	AO	
1094	1	ZD-O152A	Open Status	Ozone Generator GEN-O150A Outlet Flow Control Valve Open		WO-P0007						PSU-0330A	DI	
1095	1	ZD-O152B	Open Status	Ozone Generator GEN-O150A Outlet Control Valve Open		WO-P0007						PSU-0330A	DI	
1096	1	ZI-O152A	Position Feedback	Ozone Generator GEN-O150A Outlet Flow Control Valve Position		WO-P0007						PSU-0330A	AI	
1097	1	YB-O159A	Close Command	Liquid Oxygen to Ozone Generator GEN-O150A Flow Control Valve Close		WO-P0007						PSU-0330A	DO	
1098	1	YD-O159A	Open Command	Liquid Oxygen to Ozone Generator GEN-O150A Flow Control Valve Open		WO-P0007						PSU-0330A	DO	
1099	1	YS-O159A	C/O/H Switch in Computer Position	Liquid Oxygen to Ozone Generator GEN-O150A Flow Control Valve in Computer Mode		WO-P0007						PSU-0330A	DI	
1100	1	ZB-O159A	Closed Status	Liquid Oxygen to Ozone Generator GEN-O150A Flow Control Valve Closed		WO-P0007						PSU-0330A	DI	
1101	1	ZD-O159A	Open Status	Liquid Oxygen to Ozone Generator GEN-O150A Flow Control Valve Open		WO-P0007						PSU-0330A	DI	
1102	1	YB-O201A	Close Command	Ozone Generator GEN-O110A to Ozone Contactor #2 Control Valve Close		WO-P0008						CP-O30	DO	
1103	1	YD-O201A	Open Command	Ozone Generator GEN-O110A to Ozone Contactor #2 Control Valve Open		WO-P0008						CP-O30	DO	
1104	1	YS-O201A	C/O/H Switch in Computer Position	Ozone Generator GEN-O110A to Ozone Contactor #2 Control Valve in Computer Mode		WO-P0008						CP-O30	DI	
1105	1	ZB-O201A	Closed Status	Ozone Generator GEN-O110A to Ozone Contactor #2 Control Valve Closed		WO-P0008						CP-O30	DI	
1106	1	ZD-O201A	Open Status	Ozone Generator GEN-O110A to Ozone Contactor #2 Control Valve Open		WO-P0008						CP-O30	DI	
1107	1	YB-O202A	Close Command	Ozone Generator GEN-O110A to Ozone Contactor #1 Control Valve Close		WO-P0008						CP-O30	DO	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1108	1	YD-O202A	Open Command	Ozone Generator GEN-O110A to Ozone Contactor #1 Control Valve Open	WO-P0008						CP-O30	DO	
1109	1	YS-O202A	C/O/H Switch in Computer Position	Ozone Generator GEN-O110A to Ozone Contactor #1 Control Valve in Computer Mode	WO-P0008						CP-O30	DI	
1110	1	ZB-O202A	Closed Status	Ozone Generator GEN-O110A to Ozone Contactor #1 Control Valve Closed	WO-P0008						CP-O30	DI	
1111	1	ZD-O202A	Open Status	Ozone Generator GEN-O110A to Ozone Contactor #1 Control Valve Open	WO-P0008						CP-O30	DI	
1112	1	YB-O210A	Close Command	Ozone Contactor TK-O210A Inlet Sluice Gate Close	WO-P0010						SLG-O210A	DO	
1113	1	YD-O210A	Open Command	Ozone Contactor TK-O210A Inlet Sluice Gate Open	WO-P0010						SLG-O210A	DO	
1114	1	YS-O210A	C/O/H Switch in Computer Position	Ozone Contactor TK-O210A Inlet Sluice Gate in Computer Mode	WO-P0010						SLG-O210A	DI	
1115	1	YB-O210B	Close Command	Ozone Contactor TK-O210A Outlet Sluice Gate Close	WO-P0010						SLG-O210B	DO	
1116	1	YD-O210B	Open Command	Ozone Contactor TK-O210A Outlet Sluice Gate Open	WO-P0010						SLG-O210B	DO	
1117	1	YS-O210B	C/O/H Switch in Computer Position	Ozone Contactor TK-O210A Outlet Sluice Gate in Computer Mode	WO-P0010						SLG-O210B	DI	
1118	1	YB-O210C	Close Command	Ozone Contactor TK-O210A Outlet Sluice Gate Close	WO-P0010						SLG-O210C	DO	
1119	1	YD-O210C	Open Command	Ozone Contactor TK-O210A Outlet Sluice Gate Open	WO-P0010						SLG-O210C	DO	
1120	1	YS-O210C	C/O/H Switch in Computer Position	Ozone Contactor TK-O210A Outlet Sluice Gate in Computer Mode	WO-P0010						SLG-O210C	DI	
1121	1	ZB-O210A	Closed Status	Ozone Contactor TK-O210A Inlet Sluice Gate Closed	WO-P0010						TJB-P33	DI	
1122	1	ZD-O210A	Open Status	Ozone Contactor TK-O210A Inlet Sluice Gate Open	WO-P0010						TJB-P33	DI	
1123	1	ZB-O210B	Closed Status	Ozone Contactor TK-O210A Outlet Sluice Gate Closed	WO-P0010						TJB-F31	DI	
1124	1	ZD-O210B	Open Status	Ozone Contactor TK-O210A Outlet Sluice Gate Open	WO-P0010						TJB-F31	DI	
1125	1	ZB-O210C	Closed Status	Ozone Contactor TK-O210A Outlet Sluice Gate Closed	WO-P0010						TJB-F31	DI	
1126	1	ZD-O210C	Open Status	Ozone Contactor TK-O210A Outlet Sluice Gate Open	WO-P0010						TJB-F31	DI	
1127	1	FI-O216A	Flow Indication	Ozone Injection Line to Ozone Contactor #1 Flow Rate	WO-P0008						CP-O30	AI	
1128	1	FQ-O216A	Flow Pulse	Ozone Injection Line to Ozone Contactor #1 Flow Total	WO-P0008						CP-O30	DI	
1129	1	YS-O216A	C/O/H Switch in Computer Position	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve in Computer Mode	WO-P0008						CP-O30	DI	
1130	1	ZB-O216A	Closed Status	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve Closed	WO-P0008						CP-O30	DI	
1131	1	ZC-O216A	Position Control Output	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve Required Position	WO-P0008						CP-O30	AO	
1132	1	ZD-O216A	Open Status	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve Open	WO-P0008						CP-O30	DI	
1133	1	ZI-O216A	Position Feedback	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve Position	WO-P0008						CP-O30	AI	
1134	1	FI-O217A	Flow Indication	Ozone Injection Line to Ozone Contactor #1 Flow Rate	WO-P0008						CP-O30	AI	
1135	1	FQ-O217A	Flow Pulse	Ozone Injection Line to Ozone Contactor #1 Flow Total	WO-P0008						CP-O30	DI	
1136	1	YS-O217A	C/O/H Switch in Computer Position	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve in Computer Mode	WO-P0008						CP-O30	DI	
1137	1	ZB-O217A	Closed Status	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve Closed	WO-P0008						CP-O30	DI	
1138	1	ZC-O217A	Position Control Output	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve Required Position	WO-P0008						CP-O30	AO	
1139	1	ZD-O217A	Open Status	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve Open	WO-P0008						CP-O30	DI	
1140	1	ZI-O217A	Position Feedback	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve Position	WO-P0008						CP-O30	AI	
1141	1	FI-O218A	Flow Indication	Ozone Injection Line to Ozone Contactor #1 Flow Rate	WO-P0008						CP-O30	AI	
1142	1	FQ-O218A	Flow Pulse	Ozone Injection Line to Ozone Contactor #1 Flow Total	WO-P0008						CP-O30	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

City of Winnipeg Water Treatment Program
 Supply and Installation of Water Treatment Plant Process Mechanical and Electrical
 Bid Opportunity No. 742-2005 Addendum 6

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION		I/O SPECIFICATION									
					P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS	
							LOW	HIGH	LOW	HIGH				
1143	1	YS-O218A	C/O/H Switch in Computer Position	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve in Computer Mode	WO-P0008							CP-O30	DI	
1144	1	ZB-O218A	Closed Status	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve Closed	WO-P0008							CP-O30	DI	
1145	1	ZC-O218A	Position Control Output	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve Required Position	WO-P0008							CP-O30	AO	
1146	1	ZD-O218A	Open Status	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve Open	WO-P0008							CP-O30	DI	
1147	1	ZI-O218A	Position Feedback	Ozone Injection Line to Ozone Contactor #1 Flow Control Valve Position	WO-P0008							CP-O30	AI	
1148	1	MM-O220A	Running Status	Sample Element SE-0210A Dissolved Ozone Sample Pump Running	WO-P0022							CP-O30	DI	
1149	1	MN-O220A	Start Command	Sample Element SE-0210A Dissolved Ozone Sample Pump Start	WO-P0022							CP-O30	DO	
1150	1	YS-O220A	C/O/H Switch in Computer Position	Sample Element SE-0210A Dissolved Ozone Sample Pump in Computer Mode	WO-P0022							CP-O30	DI	
1151	1	AI-O221A	Ozone Indication	Sample Element SE-0210A Dissolved Ozone	WO-P0022							CP-O30	AI	
1152	1	FA-O221A	Flow Alarm	Sample Element SE-0210A Dissolved Ozone Sample Low Flow	WO-P0022							CP-O30	DI	
1153	1	MM-O225A	Running Status	Sample Element SE-0210B Dissolved Ozone Sample Pump Running	WO-P0022							CP-O30	DI	
1154	1	MN-O225A	Start Command	Sample Element SE-0210B Dissolved Ozone Sample Pump Start	WO-P0022							CP-O30	DO	
1155	1	YS-O225A	C/O/H Switch in Computer Position	Sample Element SE-0210B Dissolved Ozone Sample Pump in Computer Mode	WO-P0022							CP-O30	DI	
1156	1	AI-O226A	Ozone Indication	Sample Element SE-0210B Dissolved Ozone	WO-P0022							CP-O30	AI	
1157	1	FA-O226A	Flow Alarm	Sample Element SE-0210B Dissolved Ozone Sample Low Flow	WO-P0022							CP-O30	DI	
1158	1	YB-O230A	Close Command	Ozone Contactor TK-O230A Inlet Sluice Gate Close	WO-P0011							SLG-O230A	DO	
1159	1	YD-O230A	Open Command	Ozone Contactor TK-O230A Inlet Sluice Gate Open	WO-P0011							SLG-O230A	DO	
1160	1	YS-O230A	C/O/H Switch in Computer Position	Ozone Contactor TK-O230A Inlet Sluice Gate in Computer Mode	WO-P0011							SLG-O230A	DI	
1161	1	YB-O230B	Close Command	Ozone Contactor TK-O230A Outlet Sluice Gate Close	WO-P0011							SLG-O230B	DO	
1162	1	YD-O230B	Open Command	Ozone Contactor TK-O230A Outlet Sluice Gate Open	WO-P0011							SLG-O230B	DO	
1163	1	YS-O230B	C/O/H Switch in Computer Position	Ozone Contactor TK-O230A Outlet Sluice Gate in Computer Mode	WO-P0011							SLG-O230B	DI	
1164	1	YB-O230C	Close Command	Ozone Contactor TK-O230A Outlet Sluice Gate Close	WO-P0011							SLG-O230C	DO	
1165	1	YD-O230C	Open Command	Ozone Contactor TK-O230A Outlet Sluice Gate Open	WO-P0011							SLG-O230C	DO	
1166	1	YS-O230C	C/O/H Switch in Computer Position	Ozone Contactor TK-O230A Outlet Sluice Gate in Computer Mode	WO-P0011							SLG-O230C	DI	
1167	1	ZB-O230A	Closed Status	Ozone Contactor TK-O230A Inlet Sluice Gate Closed	WO-P0011							TJB-F32	DI	
1168	1	ZD-O230A	Open Status	Ozone Contactor TK-O230A Inlet Sluice Gate Open	WO-P0011							TJB-F32	DI	
1169	1	ZB-O230B	Closed Status	Ozone Contactor TK-O230A Outlet Sluice Gate Closed	WO-P0011							TJB-F32	DI	
1170	1	ZD-O230B	Open Status	Ozone Contactor TK-O230A Outlet Sluice Gate Open	WO-P0011							TJB-F32	DI	
1171	1	ZB-O230C	Closed Status	Ozone Contactor TK-O230A Outlet Sluice Gate Closed	WO-P0011							TJB-F32	DI	
1172	1	ZD-O230C	Open Status	Ozone Contactor TK-O230A Outlet Sluice Gate Open	WO-P0011							TJB-F32	DI	
1173	1	ZD-F001A	Open Status	Sluice Gate SLG-F001A Closed	WO-P0011							TJB-F32	DI	
1174	1	ZB-F001A	Open Status	Sluice Gate SLG-F001A Open	WO-P0011							TJB-F32	DI	
1175	1	FI-O236A	Flow Indication	Ozone Injection Line to Ozone Contactor #2 Flow	WO-P0009							CP-O30	AI	
1176	1	FQ-O236A	Flow Indicator Transmitter	Ozone Injection Line to Ozone Contactor #2 Flow	WO-P0009							CP-O30	DI	
1177	1	YS-O236A	C/O/H Switch in Computer Position	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve in Computer Mode	WO-P0009							CP-O30	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1178	1	ZB-O236A	Closed Status	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve Closed	WO-P0009						CP-O30	DI	
1179	1	ZC-O236A	Position Control Output	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve Required Position	WO-P0009						CP-O30	AO	
1180	1	ZD-O236A	Open Status	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve Open	WO-P0009						CP-O30	DI	
1181	1	ZI-O236A	Position Feedback	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve Position	WO-P0009						CP-O30	AI	
1182	1	FI-O237A	Flow Indication	Ozone Injection Line to Ozone Contactor #2 Flow Rate	WO-P0009						CP-O30	AI	
1183	1	FO-O237A	Flow Pulse	Ozone Injection Line to Ozone Contactor #2 Flow	WO-P0009						CP-O30	DI	
1184	1	YS-O237A	C/O/H Switch in Computer Position	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve in Computer Mode	WO-P0009						CP-O30	DI	
1185	1	ZB-O237A	Closed Status	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve Closed	WO-P0009						CP-O30	DI	
1186	1	ZC-O237A	Position Control Output	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve Required Position	WO-P0009						CP-O30	AO	
1187	1	ZD-O237A	Open Status	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve Open	WO-P0009						CP-O30	DI	
1188	1	ZI-O237A	Position Feedback	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve Position	WO-P0009						CP-O30	AI	
1189	1	FI-O238A	Flow Indication	Ozone Injection Line to Ozone Contactor #2 Flow Rate	WO-P0009						CP-O30	AI	
1190	1	FO-O238A	Flow Pulse	Ozone Injection Line to Ozone Contactor #2 Flow Total	WO-P0009						CP-O30	DI	
1191	1	YS-O238A	C/O/H Switch in Computer Position	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve in Computer Mode	WO-P0009						CP-O30	DI	
1192	1	ZB-O238A	Closed Status	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve Closed	WO-P0009						CP-O30	DI	
1193	1	ZC-O238A	Position Control Output	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve Required Position	WO-P0009						CP-O30	AO	
1194	1	ZD-O238A	Open Status	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve Open	WO-P0009						CP-O30	DI	
1195	1	ZI-O238A	Position Feedback	Ozone Injection Line to Ozone Contactor #2 Flow Control Valve Position	WO-P0009						CP-O30	AI	
1196	1	MM-O240A	Running Status	Sample Element SE-0230A Dissolved Ozone Sample Pump Running	WO-P0023						CP-O30	DI	
1197	1	MN-O240A	Start Command	Sample Element SE-0230A Dissolved Ozone Sample Pump Start	WO-P0023						CP-O30	DO	
1198	1	YS-O240A	C/O/H Switch in Computer Position	Sample Element SE-0230A Dissolved Ozone Sample Pump in Computer Mode	WO-P0023						CP-O30	DI	
1199	1	AI-O241A	Ozone Indication	Sample Element SE-0230A Dissolved Ozone	WO-P0023						CP-O30	AI	
1200	1	FA-O241A	Flow Alarm	Sample Element SE-0230A Dissolved Ozone Sample Low Flow	WO-P0023						CP-O30	DI	
1201	1	MM-O245A	Running Status	Sample Element SE-0230B Dissolved Ozone Sample Pump Running	WO-P0023						CP-O30	DI	
1202	1	MN-O245A	Start Command	Sample Element SE-0230B Dissolved Ozone Sample Pump Start	WO-P0023						CP-O30	DO	
1203	1	YS-O245A	C/O/H Switch in Computer Position	Sample Element SE-0230B Dissolved Ozone Sample Pump in Computer Mode	WO-P0023						CP-O30	DI	
1204	1	AI-O246A	Ozone Indication	Sample Element SE-0230B Dissolved Ozone	WO-P0023						CP-O30	AI	
1205	1	FA-O246A	Flow Alarm	Sample Element SE-0230B Dissolved Ozone Sample Low Flow	WO-P0023						CP-O30	DI	
1206	1	TA-O310A	Temperature Switch	Electrolyser Power Supply Unit PSU-O310A High Temperature	WO-P0019						PSU-O310A	DI	
1207	1	YA-O310A	Door Alarm	Power Supply Unit PSU-O310A Door Alarm	WO-P0019						PSU-O310A	DI	
1208	1	TA-O320A	Temperature Switch	Electrolyser Power Supply Unit PSU-O320A High Temperature	WO-P0020						PSU-O320A	DI	
1209	1	YA-O320A	Door Alarm	Power Supply Unit PSU-O320A Door Alarm	WO-P0020						PSU-O320A	DI	
1210	1	TA-O330A	Temperature Switch	Electrolyser Power Supply Unit PSU-O330A High Temperature	WO-P0021						PSU-O330A	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
1211	1	YA-O330A	Door Alarm	Power Supply Unit PSU-O330A Door Alarm	WO-P0021							PSU-O330A	DI	
1212	1	MM-O401A	Running Status	Ozonation Open Loop Cooling Water Pump P-PO401A Running	WO-P0015							LCP-F01	DI	
1213	1	MN-O401A	Start Command	Ozonation Open Loop Cooling Water Pump P-PO401A Start	WO-P0015							LCP-F01	DO	
1214	1	UF-O401A	No Fault	Ozonation Open Loop Cooling Water Pump P-PO401A Fault	WO-P0015							LCP-F01	DI	
1215	1	YS-O401A	C/O/H Switch in Computer Position	Ozonation Open Loop Cooling Water Pump P-PO401A in Computer Mode	WO-P0015							LCP-F01	DI	
1216	1	MM-O402A	Running Status	Ozonation Open Loop Cooling Water Pump P-PO402A Running	WO-P0015							LCP-F01	DI	
1217	1	MN-O402A	Start Command	Ozonation Open Loop Cooling Water Pump P-PO402A Start	WO-P0015							LCP-F01	DO	
1218	1	UF-O402A	No Fault	Ozonation Open Loop Cooling Water Pump P-PO402A Fault	WO-P0015							LCP-F01	DI	
1219	1	YS-O402A	C/O/H Switch in Computer Position	Ozonation Open Loop Cooling Water Pump P-PO402A in Computer Mode	WO-P0015							LCP-F01	DI	
1220	1	MM-O403A	Running Status	Ozonation Open Loop Cooling Water Pump P-PO403A Running	WO-P0015							LCP-F01	DI	
1221	1	MN-O403A	Start Command	Ozonation Open Loop Cooling Water Pump P-PO403A Start	WO-P0015							LCP-F01	DO	
1222	1	UF-O403A	No Fault	Ozonation Open Loop Cooling Water Pump P-PO403A Fault	WO-P0015							LCP-F01	DI	
1223	1	YS-O403A	C/O/H Switch in Computer Position	Ozonation Open Loop Cooling Water Pump P-PO403A in Computer Mode	WO-P0015							LCP-F01	DI	
1224	1	FA-O404A	Flow Alarm	Flow to Analyzer Low Flow	WO-P0015							LCP-F01	DI	
1225	1	AI-O404A	Turbidity Indication	Open Loop Cooling Water Turbidity	WO-P0015							LCP-F01	AI	
1226	1	AF-O404A	Flow Switch	Open Loop Cooling Water to Turbidity Analyzer Low Flow	WO-P0015							LCP-F01	DI	
1227	1	FI-O410A	Flow Indication	Open Loop Cooling Water to Heat Exchanger HEX-O410A Inlet Flow Rate	WO-P0016							PSU-O310A	AI	
1228	1	FQ-O410A	Flow Pulse	Open Loop Cooling Water to Heat Exchanger HEX-O410A Inlet Flow Total	WO-P0016							PSU-O310A	DI	
1229	1	TI-O410A	Temperature Indication	Open Loop Cooling Water to Heat Exchanger HEX-O410A Inlet Temperature	WO-P0016							PSU-O310A	AI	
1230	1	TI-O410B	Temperature Indication	Open Loop Cooling Water to Heat Exchanger HEX-O410A Outlet Temperature	WO-P0016							PSU-O310A	AI	
1231	1	YB-O410A	Close Command	Open Loop Cooling Water to Heat Exchanger HEX-O410A Valve Close	WO-P0016							PSU-O310A	DO	
1232	1	YD-O410A	Open Command	Open Loop Cooling Water to Heat Exchanger HEX-O410A Valve Open	WO-P0016							PSU-O310A	DO	
1233	1	YS-O410A	C/O/H Switch in Computer Position	Open Loop Cooling Water to Heat Exchanger HEX-O410A Valve in Computer Mode	WO-P0016							PSU-O310A	DI	
1234	1	ZB-O410A	Closed Status	Open Loop Cooling Water to Heat Exchanger HEX-O410A Valve Closed	WO-P0016							PSU-O310A	DI	
1235	1	ZD-O410A	Open Status	Open Loop Cooling Water to Heat Exchanger HEX-O410A Valve Open	WO-P0016							PSU-O310A	DI	
1236	1	CI-O411A	Conductivity Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410A Pump Outlet Conductivity	WO-P0016							PSU-O310A	AI	
1237	1	MM-O411A	Running Status	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410A Pump Running	WO-P0016							PSU-O310A	DI	
1238	1	MN-O411A	Start Command	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410A Pump Start	WO-P0016							PSU-O310A	DO	
1239	1	TI-O411A	Temperature Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410 Inlet Temperature	WO-P0016							PSU-O310A	AI	
1240	1	TI-O411B	Temperature Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410 Outlet Temperature	WO-P0016							PSU-O310A	AI	
1241	1	YS-O411A	C/O/H Switch in Computer Position	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0410A Pump in Computer Mode	WO-P0016							PSU-O310A	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
1242	1	FI-0420A	Flow Indication	Open Loop Cooling Water to Heat Exchanger HEX-0420A Inlet Flow Rate	WO-P0017							PSU-0320A	AI	
1243	1	FQ-0420A	Flow Pulse	Open Loop Cooling Water to Heat Exchanger HEX-0420A Inlet Flow Total	WO-P0017							PSU-0320A	DI	
1244	1	TI-0420A	Temperature Indication	Open Loop Cooling Water to Heat Exchanger HEX-0420A Inlet Temperature	WO-P0017							PSU-0320A	AI	
1245	1	TI-0420B	Temperature Indication	Open Loop Cooling Water to Heat Exchanger HEX-0420A Outlet Temperature	WO-P0017							PSU-0320A	AI	
1246	1	YB-0420A	Close Command	Open Loop Cooling Water to Heat Exchanger HEX-0420A Valve Close	WO-P0017							PSU-0320A	DO	
1247	1	YD-0420A	Open Command	Open Loop Cooling Water to Heat Exchanger HEX-0420A Valve Open	WO-P0017							PSU-0320A	DO	
1248	1	YS-0420A	C/O/H Switch in Computer Position	Open Loop Cooling Water to Heat Exchanger HEX-0420A Valve in Computer Mode	WO-P0017							PSU-0320A	DI	
1249	1	ZB-0420A	Closed Status	Open Loop Cooling Water to Heat Exchanger HEX-0420A Valve Closed	WO-P0017							PSU-0320A	DI	
1250	1	ZD-0420A	Open Status	Open Loop Cooling Water to Heat Exchanger HEX-0420A Valve Open	WO-P0017							PSU-0320A	DI	
1251	1	CI-0421A	Conductivity Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420A Pump Outlet Conductivity	WO-P0017							PSU-0320A	AI	
1252	1	MM-0421A	Running Status	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420A Pump Running	WO-P0017							PSU-0320A	DI	
1253	1	MN-0421A	Start Command	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420A Pump Start	WO-P0017							PSU-0320A	DO	
1254	1	TI-0421A	Temperature Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420 Inlet Temperature	WO-P0017							PSU-0320A	AI	
1255	1	TI-0421B	Temperature Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420 Outlet Temperature	WO-P0017							PSU-0320A	AI	
1256	1	YS-0421A	C/O/H Switch in Computer Position	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0420A Pump in Computer Mode	WO-P0017							PSU-0320A	DI	
1257	1	FI-0430A	Flow Indication	Open Loop Cooling Water to Heat Exchanger HEX-0430A Inlet Flow Rate	WO-P0018							PSU-0330A	AI	
1258	1	FQ-0430A	Flow Pulse	Open Loop Cooling Water to Heat Exchanger HEX-0430A Inlet Flow Total	WO-P0018							PSU-0330A	DI	
1259	1	TI-0430A	Temperature Indication	Open Loop Cooling Water to Heat Exchanger HEX-0430A Inlet Temperature	WO-P0018							PSU-0330A	AI	
1260	1	TI-0430B	Temperature Indication	Open Loop Cooling Water to Heat Exchanger HEX-0430A Outlet Temperature	WO-P0018							PSU-0330A	AI	
1261	1	YB-0430A	Close Command	Open Loop Cooling Water to Heat Exchanger HEX-0430A Valve Close	WO-P0018							PSU-0330A	DO	
1262	1	YD-0430A	Open Command	Open Loop Cooling Water to Heat Exchanger HEX-0430A Valve Open	WO-P0018							PSU-0330A	DO	
1263	1	YS-0430A	C/O/H Switch in Computer Position	Open Loop Cooling Water to Heat Exchanger HEX-0430A Valve in Computer Mode	WO-P0018							PSU-0330A	DI	
1264	1	ZB-0430A	Closed Status	Open Loop Cooling Water to Heat Exchanger HEX-0430A Valve Closed	WO-P0018							PSU-0330A	DI	
1265	1	ZD-0430A	Open Status	Open Loop Cooling Water to Heat Exchanger HEX-0430A Valve Open	WO-P0018							PSU-0330A	DI	
1266	1	CI-0431A	Conductivity Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430A Pump Outlet Conductivity	WO-P0018							PSU-0330A	AI	
1267	1	MM-0431A	Running Status	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430A Pump Running	WO-P0018							PSU-0330A	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	ENG. UNITS	I/O SPECIFICATION						
								SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
1268	1	MN-O431A	Start Command	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430A Pump Start		WO-P0018						PSU-O330A	DO	
1269	1	TI-O431A	Temperature Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430 Inlet Temperature		WO-P0018						PSU-O330A	AI	
1270	1	TI-O431B	Temperature Indication	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430 Outlet Temperature		WO-P0018						PSU-O330A	AI	
1271	1	YS-O431A	C/O/H Switch in Computer Position	Ozone Generator Closed Loop Cooling Water to Heat Exchanger HEX-0430A Pump in Computer Mode		WO-P0018						PSU-O330A	DI	
1272	1	AI-O505A	Ozone Gas Indication	Ozone Contactor #2 to Ozone Destruct Analyzer		WO-P0014						CP-O30	AI	
1273	1	PI-O505A	Pressure Indication	Ozone Contactor #2 to Ozone Destruct Units Pressure		WO-P0014						CP-O30	AI	
1274	1	PI-O505B	Pressure Indication	Ozone Contactor #2 to Ozone Destruct Units Demister Differential Pressure		WO-P0014						CP-O30	AI	
1275	1	AI-O501A	Ozone Gas Indication	Ozone Contactor #1 to Ozone Destruct Gas Level		WO-P0012						CP-O30	AI	
1276	1	AI-O510A	Ozone Gas Indication	Ozone Destruct Unit #1 Vent Ozone Gas Level		WO-P0012						LCP-O510A	AI	
1277	0	MM-O510A	Running Status	Ozone Destruct Unit #1 Blower Running		WO-P0012							DI	
1278	1	MN-O510A	Start Command	Ozone Destruct Unit #1 Blower Start		WO-P0012						LCP-O510A	DO	
1279	1	PI-O501A	Pressure Indication	Ozone Contactor #1 to Ozone Destruct Units Pressure		WO-P0012						CP-O30	AI	
1280	1	PI-O510A	Pressure Indicator Transmitter	Catalytic Destruct Unit CDU-O510 Differential Pressure		WO-P0012						LCP-O510A	AI	
1281	1	PI-O501B	Pressure Indication	Ozone Contactor #1 to Ozone Destruct Units Demister Differential Pressure		WO-P0012						CP-O30	AI	
1282	1	PI-O510B	Pressure Indicator Transmitter	Ozone Destruct Unit #1 Blower Differential Pressure		WO-P0012						LCP-O510A	AI	
1283	1	TI-O510A	Temperature Indication	Ozone Destruct Unit #1 Heater Inlet Temperature		WO-P0012						LCP-O510A	AI	
1284	1	TI-O510B	Temperature Indication	Ozone Destruct Unit #1 Heater Outlet Temperature		WO-P0012						LCP-O510A	AI	
1285	1	TI-O510C	Temperature Indication	Catalytic Destruct Unit CDU-O510A Outlet Temperature		WO-P0012						LCP-O510A	AI	
1286	0	UF-O510A	No Fault	Ozone Destruct Unit #1 Blower Fault		WO-P0012							DI	
1287	1	YS-O510A	C/O/H Switch in Computer Position	Ozone Destruct Unit #1 Inlet Valve in Computer Mode		WO-P0012						LCP-O510A	DI	
1288	1	YD-O510A	Open Command	Ozone Destruct Unit #1 Inlet Valve Open		WO-P0012						LCP-O510A	DO	
1289	1	YB-O510A	Close Command	Ozone Destruct Unit #1 Inlet Valve Closed		WO-P0012						LCP-O510A	DO	
1290	0	YS-O510A	C/O/H Switch in Computer Position	Ozone Destruct Unit #1 Blower in Computer Mode		WO-P0012							DI	
1291	1	ZB-O510A	Closed Status	Ozone Destruct Unit #1 Inlet Valve Closed		WO-P0012						LCP-O510A	DI	
1292	1	ZD-O510A	Open Status	Ozone Destruct Unit #1 Inlet Valve Open		WO-P0012						LCP-O510A	DI	
1293	1	AI-O520A	Ozone Gas Indication	Ozone Destruct Unit #2 Vent Ozone Gas Level		WO-P0013						LCP-O520A	AI	
1294	1	AI-O520B	Ozone Gas Indication	Ambient Ozone Gas Level		WO-P0013						CP-O30	AI	
1295	0	MM-O520A	Running Status	Ozone Destruct Unit #2 Blower Running		WO-P0013							DI	
1296	1	MN-O520A	Start Command	Ozone Destruct Unit #2 Blower Start		WO-P0013						LCP-O520A	DO	
1297	1	PI-O520A	Pressure Indication	Catalytic Destruct Unit CDU-O520A Differential Pressure		WO-P0013						LCP-O520A	AI	
1298	1	PI-O520B	Pressure Indication	Ozone Destruct Unit #2 Blower Differential Pressure		WO-P0013						LCP-O520A	AI	
1299	1	TI-O520A	Temperature Indication	Ozone Destruct Unit #2 Heater Inlet Temperature		WO-P0013						LCP-O520A	AI	
1300	1	TI-O520B	Temperature Indication	Ozone Destruct Unit #2 Heater Outlet Temperature		WO-P0013						LCP-O520A	AI	
1301	1	TI-O520C	Temperature Indication	Catalytic Destruct Unit CDU-O520A Outlet Temperature		WO-P0013						LCP-O520A	AI	
1302	0	UF-O520A	No Fault	Ozone Destruct Unit #2 Blower Fault		WO-P0013							DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1303	1	YB-0520A	Close Command	Ozone Destruct Unit #2 Bypass Close	WO-P0013						LCP-0520A	DO	
1304	1	YD-0520A	Open Command	Ozone Destruct Unit #2 Bypass Open	WO-P0013						LCP-0520A	DO	
1305	1	YS-0520A	C/O/H Switch in Computer Position	Ozone Destruct Unit #2 Bypass in Computer Mode	WO-P0013						LCP-0520A	DI	
1306	1	ZB-0520A	Closed Status	Ozone Destruct Unit #2 Inlet Valve Closed	WO-P0013						LCP-0520A	DI	
1307	1	ZD-0520A	Open Status	Ozone Destruct Unit #2 Inlet Valve Open	WO-P0013						LCP-0520A	DI	
1308	1	YB-0521A	Close Command	Ozone Destruct Unit #1 Bypass Close	WO-P0012						CP-030	DO	
1309	1	YD-0521A	Open Command	Ozone Destruct Unit #1 Bypass Open	WO-P0012						CP-030	DO	
1310	1	YS-0521A	C/O/H Switch in Computer Position	Ozone Destruct Unit #1 Bypass in Computer Mode	WO-P0012						CP-030	DI	
1311	1	ZB-0521A	Closed Status	Ozone Destruct Unit #1 Bypass Closed	WO-P0012						CP-030	DI	
1312	1	ZD-0521A	Open Status	Ozone Destruct Unit #1 Bypass Open	WO-P0012						CP-030	DI	
1313	1	YB-0523A	Close Command	Ozone Destruct Unit #3 Bypass Valve Close	WO-P0014						CP-030	DO	
1314	1	YD-0523A	Open Command	Ozone Destruct Unit #3 Bypass Valve Open	WO-P0014						CP-030	DO	
1315	1	YS-0523A	C/O/H Switch in Computer Position	Ozone Destruct Unit #3 Bypass Valve in Computer Mode	WO-P0014						CP-030	DI	
1316	1	ZB-0523A	Closed Status	Ozone Destruct Unit #3 Bypass Valve Closed	WO-P0014						CP-030	DI	
1317	1	ZD-0523A	Open Status	Ozone Destruct Unit #3 Bypass Valve Open	WO-P0014						CP-030	DI	
1318	1	AI-0530A	Ozone Gas Indication	Ozone Destruct Unit #3 Vent Ozone Analyzer Gas Level	WO-P0014						LCP-0530A	AI	
1319	0	MM-0530A	Running Status	Ozone Destruct Unit #3 Blower Running	WO-P0014							DI	
1320	1	MN-0530A	Start Command	Ozone Destruct Unit #3 Blower Start	WO-P0014						LCP-0530A	DO	
1321	1	PI-0530A	Pressure Indication	Catalytic Destruct Unit CDU-0530 Differential Pressure	WO-P0014						LCP-0530A	AI	
1322	1	PI-0530B	Pressure Indication	Ozone Destruct Unit #3 Blower Differential Pressure	WO-P0014						LCP-0530A	AI	
1323	1	TI-0530A	Temperature Indication	Ozone Destruct Unit #3 Heater Inlet Temperature	WO-P0014						LCP-0530A	AI	
1324	1	TI-0530B	Temperature Indication	Ozone Destruct Unit #3 Heater Outlet Temperature	WO-P0014						LCP-0530A	AI	
1325	1	TI-0530C	Temperature Indication	Catalytic Destruct Unit CDU-0530A Outlet Temperature	WO-P0014						LCP-0530A	AI	
1326	0	UF-0530A	No Fault	Ozone Destruct Unit #3 Blower Fault	WO-P0014							DI	
1327	1	YS-0530A	C/O/H Switch in Computer Position	Ozone Destruct Unit #3 Inlet Valve in Computer Mode	WO-P0014						LCP-0530A	DI	
1328	1	YB-0530A	Close Command	Ozone Destruct Unit #3 Bypass Valve Close	WO-P0014						LCP-0530A	DO	
1329	1	YD-0530A	Open Command	Ozone Destruct Unit #3 Bypass Valve Open	WO-P0014						LCP-0530A	DO	
1330	1	ZB-0530A	Closed Status	Ozone Destruct Unit #3 Inlet Valve Closed	WO-P0014						LCP-0530A	DI	
1331	1	ZD-0530A	Open Status	Ozone Destruct Unit #3 Inlet Valve Open	WO-P0014						LCP-0530A	DI	
1332	0	PI-0031A	Pressure Indication	Liquid Oxygen Particle Filter GFO031 Differential Pressure	WO-P0003						CP-030	AI	
1333	1	UF-R001A	Suspended Solids Fault	Washwater Recovery Tanks Sludge to Flocculation Chamber Suspended Solids Monitor Fault	WR-P0006						LCP-R21	DI	
1334	1	AI-R001A	Suspended Solids Indication	Washwater Recovery Tanks Sludge to Flocculation Chamber Suspended Solids Monitor	WR-P0006						LCP-R21	AI	
1335	1	FI-R001B	Flow Indication	Washwater Recovery Tanks Sludge to Flocculation Chamber Flow Rate	WR-P0006						LCP-R21	AI	
1336	1	FQ-R001B	Flow Pulse	Washwater Recovery Tanks Sludge to Flocculation Chamber Flow Total	WR-P0006						LCP-R21	DI	
1337	1	LA-R001A	Level Relay	Flocculation Chamber Low Level	WR-P0006						LCP-R21	DI	
1338	1	LA-R001B	Level Relay	Flocculation Chamber High Level Relay	WR-P0006						LCP-R21	DI	
1339	1	LA-R001C	Level Relay	Flocculation Chamber High High Level	WR-P0006						LCP-R21	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	ENG. UNITS	I/O SPECIFICATION						
								SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
1340	1	MM-R001C	Running Status	Washwater Recovery Tanks Sludge Flocculation Chamber Mixer Running	WR-P0006						LCP-R001C	DI TCP		
1341	1	MM-R010C	Running Status	Washwater Recovery Tank Supernatant Suspended Solids Monitor Sample Pump Running	WR-P0006						LCP-R21	DI		
1342	1	MN-R001C	Start Command	Washwater Recovery Tanks Sludge Flocculation Chamber Mixer Start	WR-P0006						LCP-R001C	DO TCP		
1343	1	MN-R010C	Start Command	Washwater Recovery Tank Supernatant Suspended Solids Monitor Sample Pump Start	WR-P0006						LCP-R21	DO		
1344	1	SC-R001C	Speed Control Output	Washwater Recovery Tanks Sludge Flocculation Chamber Mixer Speed	WR-P0006						LCP-R001C	AO TCP		
1345	1	SI-R001C	Speed Indication	Washwater Recovery Tanks Sludge Flocculation Chamber Mixer Required Speed	WR-P0006						LCP-R001C	AI TCP		
1346	1	UF-R001C	No Fault	Washwater Recovery Tanks Sludge Flocculation Chamber Mixer Fault	WR-P0006						LCP-R001C	DI TCP		
1347	1	YS-R001C	C/O/H Switch in Computer Position	Washwater Recovery Tanks Sludge Flocculation Chamber Mixer in Computer Mode	WR-P0006						LCP-R001C	DI TCP		
1348	1	YS-R010C	C/O/H Switch in Computer Position	Washwater Recovery Tank Supernatant Suspended Solids Monitor Sample Pump in Computer Mode	WR-P0006						LCP-R001C	DI		
1349	1	UF-R010A	Suspended Solids Fault	Washwater Recovery Tank Supernatant Suspended Solids Monitor Fault	WR-P0006						LCP-R21	DI		
1350	1	AI-R010A	Suspended Solids Indication	Washwater Recovery Tank Supernatant Suspended Solids	WR-P0006						LCP-R21	AI		
1351	1	FA-R010A	Flow Alarm	Washwater Recovery Tank Supernatant Suspended Solids Monitor Sample Pump Outlet Flow	WR-P0006						LCP-R21	DI		
1352	1	LA-R010A	Level Alarm	Washwater Recovery Tank Inlet Channel High Level	WR-P0001						LCP-R21	DI		
1353	1	LA-R010B	Level Alarm	Washwater Recovery Tank Inlet Channel Low Level	WR-P0001						LCP-R21	DI		
1354	1	ZB-R010A	Closed Status	Washwater Recovery Tank Inlet Channel Sluice Gate Open	WR-P0001						LCP-R21	DI		
1355	1	ZD-R010A	Open Status	Washwater Recovery Tank Inlet Channel Sluice Gate Closed	WR-P0001						LCP-R21	DI		
1356	1	ZB-R010B	Closed Status	Washwater Recovery Tank Inlet Channel Sluice Gate Open	WR-P0001						LCP-R21	DI		
1357	1	ZD-R010B	Open Status	Washwater Recovery Tank Inlet Channel Sluice Gate Closed	WR-P0001						LCP-R21	DI		
1358	1	LA-R020A	Level Alarm	Supernatant Pump Station Low Low Level	WR-P0007						LCP-R21	DI		
1359	1	UF-R020A	Level Element	Supernatant Pump Station Level	WR-P0007						LCP-R21	DI		
1360	1	LI-R020A	Level Indicator Transmitter	Supernatant Pump Station Level	WR-P0007						LCP-R21	AI		
1361	1	LA-R020B	Level Switch	Supernatant Pump Station High High Level	WR-P0007						LCP-R21	DI		
1362	1	LA-R020C	Level Alarm	Overflow Channel High Level	WR-P0007						LCP-R21	DI		
1363	1	LA-R020D	Level Alarm	Overflow Channel High High Level	WR-P0007						LCP-R21	DI		
1364	1	MM-R021A	Running Status	Supernatant Pump P-R021A Running	WR-P0007						CP-H10	DI		
1365	1	MN-R021A	Start Command	Supernatant Pump P-R021A Start	WR-P0007						CP-H10	DO		
1366	1	SI-R021A	Speed Indication	Supernatant Pump P-R021A Speed	WR-P0007						LCP-R21	AI		
1367	1	SA-R021A	Speed Alarm	Supernatant Pump P-R021A Reverse Spin	WR-P0007						LCP-R21	DI		
1368	1	UF-R021A	No Fault	Supernatant Pump P-R021A Running Fault	WR-P0007						CP-H10	DI		
1369	1	VI-R021A	Vibration Transmitter	Supernatant Pump P-R021A Vibration	WR-P0007						CP-H10	AI		
1370	1	YS-R021A	C/O/H Switch in Computer Position	Supernatant Pump P-R021A In Computer Mode	WR-P0007						CP-H10	DI		
1371	1	YS-R021B	C/O/H Switch in Computer Position	Supernatant Pump P-R021A Speed Control Actuator in Computer Mode	WR-P0007						LCP-R21	DI		
1372	1	ZB-R021A	Closed Status	Supernatant Pump P-R021A Outlet Manual Valve Closed	WR-P0007						LCP-R21	DI		
1373	1	ZC-R021b	Position Control Output	Supernatant Pump P-R021A Speed Control Actuator Required Position	WR-P0007						LCP-R21	AO		

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1374	1	ZD-R021A	Open Status	Supernatent Pump P-R021A Outlet Manual Valve Open	WR-P0007						LCP-R21	DI	
1375	1	ZT-R021B	Position Feedback	Supernatent Pump P-R021A Speed Control Actuator Position	WR-P0007						LCP-R21	AI	
1376	1	ZB-R021B	Closed Status	Supernatent Pump P-R021A Outlet Control Valve Closed	WR-P0007						LCP-R21	DI	
1377	1	ZD-R021B	Open Status	Supernatent Pump P-R021A Outlet Control Valve Open	WR-P0007						LCP-R21	DI	
1378	1	MM-R022A	Running Status	Supernatent Pump P-R022A Running	WR-P0007						CP-H10	DI	
1379	1	MN-R022A	Start Command	Supernatent Pump P-R022A Start	WR-P0007						CP-H10	DO	
1380	1	SI-R022A	Speed Indication	Supernatent Pump P-R022A Speed	WR-P0007						LCP-R21	AI	
1381	1	SA-R022A	Speed Alarm	Supernatent Pump P-R022A Reverse Spin	WR-P0007						LCP-R21	DI	
1382	1	UF-R022A	No Fault	Supernatent Pump P-R022A Running Fault	WR-P0007						CP-H10	DI	
1383	1	VI-R022A	Vibration Transmitter	Supernatent Pump P-R022A Vibration	WR-P0007						CP-H10	AI	
1384	1	YS-R022A	C/O/H Switch in Computer Position	Supernatent Pump P-R022A In Computer Mode	WR-P0007						CP-H10	DI	
1385	1	YS-R022B	C/O/H Switch in Computer Position	Supernatent Pump P-R022B Speed Control Actuator in Computer Mode	WR-P0007						CP-H10	DI	
1386	1	ZB-R022A	Closed Status	Supernatent Pump P-R022A Outlet Manual Valve Closed	WR-P0007						LCP-R21	DI	
1387	1	ZC-R022B	Position Control Output	Supernatent Pump P-R022B Speed Control Actuator Required Position	WR-P0007						CP-H10	BO	
1388	1	ZD-R022A	Open Status	Supernatent Pump P-R022A Outlet Manual Valve Open	WR-P0007						LCP-R21	DI	
1389	1	ZT-R022B	Position Feedback	Supernatent Pump P-R022B Speed Control Actuator Position	WR-P0007						CP-H10	BI	
1390	1	ZB-R022B	Closed Status	Supernatent Pump P-R022A Outlet Control Valve Closed	WR-P0007						LCP-R21	DI	
1391	1	ZD-R022B	Open Status	Supernatent Pump P-R022A Outlet Control Valve Open	WR-P0007						LCP-R21	DI	
1392	1	MM-R023A	Running Status	Supernatent Pump P-R023A Running	WR-P0007						CP-H10	DI	
1393	1	MN-R023A	Start Command	Supernatent Pump P-R023A Start	WR-P0007						CP-H10	DO	
1394	1	SA-R023A	Speed Alarm	Supernatent Pump P-R023A Reverse Spin	WR-P0007						CP-H10	DI	
1395	1	UF-R023A	No Fault	Supernatent Pump P-R023A Running Fault	WR-P0007						CP-H10	DI	
1396	1	VI-R023A	Vibration Transmitter	Supernatent Pump P-R023A Vibration	WR-P0007						CP-H10	AI	
1397	1	YS-R023A	C/O/H Switch in Computer Position	Supernatent Pump P-R023A In Computer Mode	WR-P0007						CP-H10	DI	
1398	1	ZB-R023A	Closed Status	Supernatent Pump P-R023A Outlet Manual Valve Closed	WR-P0007						LCP-R21	DI	
1399	1	ZD-R023A	Open Status	Supernatent Pump P-R023A Outlet Manual Valve Open	WR-P0007						LCP-R21	DI	
1400	1	ZB-R023B	Closed Status	Supernatent Pump P-R023A Outlet Control Valve Closed	WR-P0007						LCP-R21	DI	
1401	1	ZD-R023B	Open Status	Supernatent Pump P-R023A Outlet Control Valve Open	WR-P0007						LCP-R21	DI	
1402	1	UF-R024A	Turbidity/ TSS Fault	Supernatent Pump Station Outlet Turbidity/TSS Monitor Fault	WR-P0007						LCP-R21	AF	
1403	1	AI-R024A	Turbidity/ TSS Indication	Supernatent Pump Station Outlet Turbidity/TSS	WR-P0007						LCP-R21	AI	
1404	1	YD-R024B	Solenoid Valve Output	Supernatent Pump Station Pump Control Valve Solenoid Operator	WR-P0007						LCP-R21	DO	
1405	1	FI-R024A	Flow Indication	Supernatent to Residuals Handling Area Flow Rate	WR-P0007						LCP-R21	AI	
1406	1	FQ-R024A	Flow Pulse	Supernatent to Residuals Handling Area Flow Total	WR-P0007						LCP-R21	DI	
1407	1	ZB-R024A	Closed Status	Surge Anticipatory Valve Closed	WR-P0007						LCP-R21	DI	
1408	1	ZD-R024A	Open Status	Surge Anticipatory Valve Open	WR-P0007						LCP-R21	DI	
1409	1	ZB-R024B	Closed Status	Supernatent Pump Station Pump Control Valve Closed	WR-P0007						LCP-R21	DI	
1410	1	ZD-R024B	Open Status	Supernatent Pump Station Pump Control Valve Open	WR-P0007						LCP-R21	DI	
1411	1	LA-R100A	Level Alarm	Washwater Recovery Tank WRTR100A Low Low Level	WR-P0002						LCP-R21	DI	
1412	1	LA-R100B	Level Alarm	Washwater Recovery Tank WRTR100A High High Level	WR-P0002						LCP-R21	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			P&ID DRAWING	I/O SPECIFICATION						
			FUNCTION	SERVICE	ENG. UNITS		SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1413	1	UF-R100D	Level Fault	Washwater Recovery Tank WRTR100A Level	WR-P0002						LCP-R21	DI	
1414	1	LI-R100D	Level Indication	Washwater Recovery Tank WRTR100A Level	WR-P0002						LCP-R21	AI	
1415	1	UF-R100E	Turbidity/TSS Fault	Washwater Recovery Tank WRTR100A Turbidity/TSS Level	WR-P0002						LCP-R21	DI	
1416	1	LI-R100E	Turbidity/TSS Indication	Washwater Recovery Tank WRTR100A Turbidity/TSS Level	WR-P0002						LCP-R21	AI	
1417	1	MM-R100C	Running Status	Washwater Recovery Tank WRTR100A Sludge Pump Running	WR-P0002						CP-H10	DI TCP	
1418	1	MN-R100C	Start Command	Washwater Recovery Tank WRTR100A Sludge Pump Start	WR-P0002						CP-H10	DO TCP	
1419	1	SC-R100C	Speed Control Output	Washwater Recovery Tank WRTR100A Sludge Pump Required Speed	WR-P0002						CP-H10	AO TCP	
1420	1	SI-R100C	Speed Indication	Washwater Recovery Tank WRTR100A Sludge Pump Speed	WR-P0002						CP-H10	AI TCP	
1421	1	UF-R100C	No Fault	Washwater Recovery Tank WRTR100A Sludge Pump Fault	WR-P0002						CP-H10	DI TCP	
1422	1	YB-R100A	Close Command	Washwater Recovery Tank WRTR100A Inlet Sluice Gate Closed	WR-P0001						LCP-R21	DO	
1423	1	YD-R100A	Open Command	Washwater Recovery Tank WRTR100A Inlet Sluice Gate Open	WR-P0001						LCP-R21	DO	
1424	1	YS-R100A	C/O/H Switch in Computer Position	Washwater Recovery Tank WRTR100A Inlet Sluice Gate in Computer Mode	WR-P0001						LCP-R21	DI	
1425	1	YB-R100A	Close Command	Washwater Recovery Tank WRTR100A Supernatant Valve Close	WR-P0002						LCP-R21	DO	
1426	1	YD-R100A	Open Command	Washwater Recovery Tank WRTR100A Supernatant Valve Open	WR-P0002						LCP-R21	DO	
1427	1	YS-R100A	C/O/H Switch in Computer Position	Mode	WR-P0002						LCP-R21	DI	
1428	1	YS-R100C	C/O/H Switch in Computer Position	Washwater Recovery Tank WRTR100A Sludge Pump in Computer Mode	WR-P0002						CP-H10	DI TCP	
1429	1	ZB-R100A	Closed Status	Washwater Recovery Tank WRTR100A Inlet Sluice Gate Open	WR-P0001						LCP-R21	DI	
1430	1	ZD-R100A	Open Status	Washwater Recovery Tank WRTR100A Inlet Sluice Gate Closed	WR-P0001						LCP-R21	DI	
1431	1	ZB-R100A	Closed Status	Washwater Recovery Tank WRTR100A Supernatant Valve Closed	WR-P0002						LCP-R21	DI	
1432	1	ZD-R100A	Open Status	Washwater Recovery Tank WRTR100A Supernatant Valve Open	WR-P0002						LCP-R21	DI	
1433	1	LA-R200A	Level Alarm	Washwater Recovery Tank WRTR200A Low Low Level	WR-P0003						LCP-R21	DI	
1434	1	LA-R200B	Level Alarm	Washwater Recovery Tank WRTR200A High High Level	WR-P0003						LCP-R21	DI	
1435	1	UF-R200D	Level Fault	Washwater Recovery Tank WRTR200A Level	WR-P0003						LCP-R21	DI	
1436	1	LI-R200D	Level Indication	Washwater Recovery Tank WRTR200A Level	WR-P0003						LCP-R21	AI	
1437	1	UF-R200E	Turbidity/TSS Fault	Washwater Recovery Tank WRTR200A Turbidity/TSS Level	WR-P0003						LCP-R21	DI	
1438	1	LI-R200E	Turbidity/TSS Indication	Washwater Recovery Tank WRTR200A Turbidity/TSS Level	WR-P0003						LCP-R21	AI	
1439	1	MM-R200C	Running Status	Washwater Recovery Tank WRTR200A Sludge Pump Running	WR-P0003						CP-H10	DI TCP	
1440	1	MN-R200C	Start Command	Washwater Recovery Tank WRTR200A Sludge Pump Start	WR-P0003						CP-H10	DO TCP	
1441	1	SC-R200C	Speed Control Output	Washwater Recovery Tank WRTR200A Sludge Pump Required Speed	WR-P0003						CP-H10	AO TCP	
1442	1	SI-R200C	Speed Indication	Washwater Recovery Tank WRTR200A Sludge Pump Speed	WR-P0003						CP-H10	AI TCP	
1443	1	UF-R200C	No Fault	Washwater Recovery Tank WRTR200A Sludge Pump Fault	WR-P0003						CP-H10	DI TCP	
1444	1	YB-R200A	Close Command	Washwater Recovery Tank WRTR200A Inlet Sluice Gate Closed	WR-P0001						LCP-R21	DO	
1445	1	YD-R200A	Open Command	Washwater Recovery Tank WRTR200A Inlet Sluice Gate Open	WR-P0001						LCP-R21	DO	
1446	1	YS-R200A	C/O/H Switch in Computer Position	Washwater Recovery Tank WRTR200A Inlet Sluice Gate in Computer Mode	WR-P0001						LCP-R21	DI	
1447	1	YB-R200A	Close Command	Washwater Recovery Tank WRTR200A Supernatant Valve Close	WR-P0003						LCP-R21	DO	
1448	1	YD-R200A	Open Command	Washwater Recovery Tank WRTR200A Supernatant Valve Open	WR-P0003						LCP-R21	DO	
1449	1	YS-R200A	C/O/H Switch in Computer Position	Mode	WR-P0003						LCP-R21	DI	
1450	1	YS-R200C	C/O/H Switch in Computer Position	Washwater Recovery Tank WRTR200A Sludge Pump in Computer Mode	WR-P0003						CP-H10	DI TCP	
1451	1	ZB-R200A	Closed Status	Washwater Recovery Tank WRTR200A Inlet Sluice Gate Open	WR-P0001						LCP-R21	DI	
1452	1	ZD-R200A	Open Status	Washwater Recovery Tank WRTR200A Inlet Sluice Gate Closed	WR-P0001						LCP-R21	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
1453	1	ZB-R200A	Closed Status	Washwater Recovery Tank WRTR200A Supernatant Valve Closed	WR-P0003						LCP-R21	DI		
1454	1	ZD-R200A	Open Status	Washwater Recovery Tank WRTR200A Supernatant Valve Open	WR-P0003						LCP-R21	DI		
1455	1	LA-R300A	Level Alarm	Washwater Recovery Tank WRTR300A Low Low Level	WR-P0004						LCP-R21	DI		
1456	1	LA-R300B	Level Alarm	Washwater Recovery Tank WRTR300A High High Level	WR-P0004						LCP-R21	DI		
1457	1	UF-R300D	Level Fault	Washwater Recovery Tank WRTR300A Level	WR-P0004						LCP-R21	DI		
1458	1	LI-R300D	Level Indication	Washwater Recovery Tank WRTR300A Level	WR-P0004						LCP-R21	AI		
1459	1	UF-R300E	Turbidity/TSS Fault	Washwater Recovery Tank WRTR300A Turbidity/TSS Level	WR-P0004						LCP-R21	DI		
1460	1	LI-R300E	Turbidity/TSS Indication	Washwater Recovery Tank WRTR300A Turbidity/TSS Level	WR-P0004						LCP-R21	AI		
1461	1	MM-R300C	Running Status	Washwater Recovery Tank WRTR300A Sludge Pump Running	WR-P0004						CP-H10	DI TCP		
1462	1	MN-R300C	Start Command	Washwater Recovery Tank WRTR300A Sludge Pump Start	WR-P0004						CP-H10	DO TCP		
1463	1	SC-R300C	Speed Control Output	Washwater Recovery Tank WRTR300A Sludge Pump Required Speed	WR-P0004						CP-H10	AO TCP		
1464	1	SI-R300C	Speed Indication	Washwater Recovery Tank WRTR300A Sludge Pump Speed	WR-P0004						CP-H10	AI TCP		
1465	1	UF-R300C	No Fault	Washwater Recovery Tank WRTR300A Sludge Pump Fault	WR-P0004						CP-H10	DI TCP		
1466	1	YB-R300A	Close Command	Washwater Recovery Tank WRTR300A Inlet Sluice Gate Closed	WR-P0001						LCP-R21	DO		
1467	1	YD-R300A	Open Command	Washwater Recovery Tank WRTR300A Inlet Sluice Gate Open	WR-P0001						LCP-R21	DO		
1468	1	YS-R300A	C/O/H Switch in Computer Position	Washwater Recovery Tank WRTR300A Inlet Sluice Gate in Computer Mode	WR-P0001						LCP-R21	DI		
1469	1	YB-R300A	Close Command	Washwater Recovery Tank WRTR300A Supernatant Valve Close	WR-P0004						LCP-R21	DO		
1470	1	YD-R300A	Open Command	Washwater Recovery Tank WRTR300A Supernatant Valve Open	WR-P0004						LCP-R21	DO		
1471	1	YS-R300A	C/O/H Switch in Computer Position	Mode	WR-P0004						LCP-R21	DI		
1472	1	YS-R300C	C/O/H Switch in Computer Position	Washwater Recovery Tank WRTR300A Sludge Pump in Computer Mode	WR-P0004						CP-H10	DI TCP		
1473	1	ZB-R300A	Closed Status	Washwater Recovery Tank WRTR300A Inlet Sluice Gate Open	WR-P0001						LCP-R21	DI		
1474	1	ZD-R300A	Open Status	Washwater Recovery Tank WRTR300A Inlet Sluice Gate Closed	WR-P0001						LCP-R21	DI		
1475	1	ZB-R300A	Closed Status	Washwater Recovery Tank WRTR300A Supernatant Valve Closed	WR-P0004						LCP-R21	DI		
1476	1	ZD-R300A	Open Status	Washwater Recovery Tank WRTR300A Supernatant Valve Open	WR-P0004						LCP-R21	DI		
1477	1	LA-R400A	Level Alarm	Washwater Recovery Tank WRTR400A Low Low Level	WR-P0005						LCP-R21	DI		
1478	1	LA-R400B	Level Alarm	Washwater Recovery Tank WRTR400A High High Level	WR-P0005						LCP-R21	DI		
1479	1	UF-R400D	Level Fault	Washwater Recovery Tank WRTR400A Level	WR-P0005						LCP-R21	DI		
1480	1	LI-R400D	Level Indication	Washwater Recovery Tank WRTR400A Level	WR-P0005						LCP-R21	AI		
1481	1	UF-R400E	Turbidity/TSS Fault	Washwater Recovery Tank WRTR400A Turbidity/TSS Level	WR-P0005						LCP-R21	DI		
1482	1	LI-R400E	Turbidity/TSS Indication	Washwater Recovery Tank WRTR400A Turbidity/TSS Level	WR-P0005						LCP-R21	AI		
1483	1	MM-R400C	Running Status	Washwater Recovery Tank WRTR400A Sludge Pump Running	WR-P0005						CP-H10	DI TCP		
1484	1	MN-R400C	Start Command	Washwater Recovery Tank WRTR400A Sludge Pump Start	WR-P0005						CP-H10	DO TCP		
1485	1	SC-R400C	Speed Control Output	Washwater Recovery Tank WRTR400A Sludge Pump Required Speed	WR-P0005						CP-H10	AO TCP		
1486	1	SI-R400C	Speed Indication	Washwater Recovery Tank WRTR400A Sludge Pump Speed	WR-P0005						CP-H10	AI TCP		
1487	1	UF-R400C	No Fault	Washwater Recovery Tank WRTR400A Sludge Pump Fault	WR-P0005						CP-H10	DI TCP		
1488	1	YB-R400A	Close Command	Washwater Recovery Tank WRTR400A Inlet Sluice Gate Closed	WR-P0001						LCP-R21	DO		
1489	1	YD-R400A	Open Command	Washwater Recovery Tank WRTR400A Inlet Sluice Gate Open	WR-P0001						LCP-R21	DO		
1490	1	YS-R400A	C/O/H Switch in Computer Position	Washwater Recovery Tank WRTR400A Inlet Sluice Gate in Computer Mode	WR-P0001						LCP-R21	DI		
1491	1	YB-R400A	Close Command	Washwater Recovery Tank WRTR400A Supernatant Valve Close	WR-P0005						LCP-R21	DO		
1492	1	YD-R400A	Open Command	Washwater Recovery Tank WRTR400A Supernatant Valve Open	WR-P0005						LCP-R21	DO		

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

City of Winnipeg Water Treatment Program
 Supply and Installation of Water Treatment Plant Process Mechanical and Electrical
 Bid Opportunity No. 742-2005 Addendum 6

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1493	1	YS-R400A	C/O/H Switch in Computer Position	Mode	WR-P0005						LCP-R21	DI	
1494	1	YS-R400C	C/O/H Switch in Computer Position	Washwater Recovery Tank WRTR400A Sludge Pump in Computer Mode	WR-P0005						CP-H10	DI TCP	
1495	1	ZB-R400A	Closed Status	Washwater Recovery Tank WRTR400A Inlet Sluice Gate Open	WR-P0001						LCP-R21	DI	
1496	1	ZD-R400A	Open Status	Washwater Recovery Tank WRTR400A Inlet Sluice Gate Closed	WR-P0001						LCP-R21	DI	
1497	1	ZB-R400A	Closed Status	Washwater Recovery Tank WRTR400A Supernatant Valve Closed	WR-P0005						LCP-R21	DI	
1498	1	ZD-R400A	Open Status	Washwater Recovery Tank WRTR400A Supernatant Valve Open	WR-P0005						LCP-R21	DI	
1499	1	AI-R500B	TSS Indication	Gravity Thickener GT500A TSS	WR-P0008						LCP-R21	AI	
1500	1	AI-R500C	Turbidity Indication	Gravity Thickener GT500A Turbidity	WR-P0008						LCP-R21	AI	
1501	1	LA-R500A	Level Alarm	Gravity Thickener GT500A High Level	WR-P0008						LCP-R21	DI	
1502	1	MM-R500A	Running Status	Gravity Thickener Running	WR-P0008						LCP-R21	DI	
1503	1	MN-R500A	Start Command	Gravity Thickener in Computer Start	WR-P0008						LCP-R21	DO	
1504	1	UF-R500A	Rake Drive Fault	Gravity Thickener GT500A Rake Drive Fault	WR-P0008						LCP-R21	DI	
1505	1	UF-R500B	TSS Fault	Gravity Thickener GT500A TSS Fault	WR-P0008						LCP-R21	DI	
1506	1	UF-R500C	Turbidity Fault	Gravity Thickener GT500A Turbidity Fault	WR-P0008						LCP-R21	DI	
1507	1	VA-R500A	Torque Alarm	Gravity Thickener GT500A High Torque	WR-P0008						LCP-R21	DI	
1508	1	YS-R500A	C/O/H Switch in Computer Position	Gravity Thickener in Computer Mode	WR-P0008						LCP-R21	DI	
1509	1	AI-R600B	TSS Indication	Gravity Thickener GT600A TSS	WR-P0008						LCP-R21	AI	
1510	1	AI-R600C	Turbidity Indication	Gravity Thickener GT600A Turbidity	WR-P0008						LCP-R21	AI	
1511	1	LA-R600A	Level Alarm	Gravity Thickener GT600A High Level	WR-P0008						LCP-R21	DI	
1512	1	MM-R600A	Running Status	Gravity Thickener Running	WR-P0008						LCP-R21	DI	
1513	1	MN-R600A	Start Command	Gravity Thickener in Computer Start	WR-P0008						LCP-R21	DO	
1514	1	UF-R600A	Rake Drive Fault	Gravity Thickener GT600A Rake Drive Fault	WR-P0008						LCP-R21	DI	
1515	1	UF-R600B	TSS Fault	Gravity Thickener GT600A TSS Fault	WR-P0008						LCP-R21	DI	
1516	1	UF-R600C	Turbidity Fault	Gravity Thickener GT600A Turbidity Fault	WR-P0008						LCP-R21	DI	
1517	1	VA-R600A	Torque Alarm	Gravity Thickener GT600A High Torque	WR-P0008						LCP-R21	DI	
1518	1	YS-R600A	C/O/H Switch in Computer Position	Gravity Thickener in Computer Mode	WR-P0008						LCP-R21	DI	
1519	1	LA-R710A	Level Alarm	Thickened Sludge Tank TKR710 Low Low Level	WR-P0009						LCP-R21	DI	
1520	1	LA-R710B	Level Alarm	Thickened Sludge Tank TKR710 High High Level	WR-P0009						LCP-R21	DI	
1521	1	UF-R710D	Level Fault	Thickened Sludge Tank TKR710 Level Fault	WR-P0009						LCP-R21	DI	
1522	1	LI-R710D	Level Indication	Thickened Sludge Tank TKR710 Level	WR-P0009						LCP-R21	AI	
1523	1	MM-R710B	Running Status	Thickened Sludge Tank TKR710 Sludge Pump P-R710B Running	WR-P0009						CP-H10	DI TCP	
1524	1	MN-R710B	Start Command	Thickened Sludge Tank TKR710 Sludge Pump P-R710B Start	WR-P0009						CP-H10	DO TCP	
1525	1	MM-R710C	Running Status	Thickened Sludge Tank TKR710 Mixer MXR-R710C Running	WR-P0009						LCP-R21	DI TCP	
1526	1	MN-R710C	Start Command	Thickened Sludge Tank TKR710 Mixer MXR-R710C Start	WR-P0009						LCP-R21	DO TCP	
1527	1	SC-R710B	Speed Control Output	Thickened Sludge Tank TKR710 Sludge Pump P-R710B Required Speed	WR-P0009						CP-H10	AO TCP	
1528	1	SI-R710B	Speed Indication	Thickened Sludge Tank TKR710 Sludge Pump P-R710B Speed	WR-P0009						CP-H10	AI TCP	
1529	1	SC-R710C	Speed Control Output	Thickened Sludge Tank TKR710 Mixer MXR-R710C Required Speed	WR-P0009						LCP-R21	AO TCP	
1530	1	SI-R710C	Speed Indication	Thickened Sludge Tank TKR710 Mixer MXR-R710C Speed	WR-P0009						LCP-R21	AI TCP	
1531	1	UF-R710B	No Fault	Thickened Sludge Tank TKR710 Sludge Pump P-R710B Fault	WR-P0009						CP-H10	DI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

City of Winnipeg Water Treatment Program
 Supply and Installation of Water Treatment Plant Process Mechanical and Electrical
 Bid Opportunity No. 742-2005 Addendum 6

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION								
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS	
								LOW	HIGH	LOW	HIGH				
1532	1	UF-R710C	No Fault	Thickened Sludge Tank TKR710 Mixer MXR-R710C Fault		WR-P0009							LCP-R21	DI TCP	
1533	1	YB-R710A	Close Command	Gravity Thickener GTR500A to Thickened Sludge Equalization Tank TKR710 Sludge Valve Close		WR-P0009							LCP-R21	DO	
1534	1	YD-R710A	Open Command	Gravity Thickener GTR500A to Thickened Sludge Equalization Tank TKR710 Sludge Valve Open		WR-P0009							LCP-R21	DO	
1535	1	YS-R710A	C/O/H Switch in Computer Position	Gravity Thickener GTR500A to Thickened Sludge Equalization Tank TKR710 Sludge Valve in Computer Mode		WR-P0009							LCP-R21	DI	
1536	1	YS-R710B	C/O/H Switch in Computer Position	Thickened Sludge Tank TKR710 Sludge Pump P-R710B in Computer Mode		WR-P0009							CP-H10	DI	
1537	1	YS-R710C	C/O/H Switch in Computer Position	Thickened Sludge Tank TKR710 Mixer MXR-R710C in Computer Mode		WR-P0009							LCP-R21	DI TCP	
1538	1	ZB-R710A	Closed Status	Gravity Thickener GTR500A to Thickened Sludge Equalization Tank TKR710 Sludge Valve Closed		WR-P0009							LCP-R21	DI	
1539	1	ZD-R710A	Open Status	Gravity Thickener GTR500A to Thickened Sludge Equalization Tank TKR710 Sludge Valve Open		WR-P0009							LCP-R21	DI	
1540	1	LA-R720A	Level Alarm	Thickened Sludge Tank TKR720 Low Low Level		WR-P0009							LCP-R21	DI	
1541	1	LA-R720B	Level Alarm	Thickened Sludge Tank TKR720 High High Level		WR-P0009							LCP-R21	DI TCP	
1542	1	UF-R720D	Level Fault	Thickened Sludge Tank TKR720 Level Fault		WR-P0009							LCP-R21	DI	
1543	1	LI-R720D	Level Indication	Thickened Sludge Tank TKR720 Level		WR-P0009							LCP-R21	AI	
1544	1	MM-R720B	Running Status	Thickened Sludge Tank TKR720 Sludge Pump P-R720B Running		WR-P0009							CP-H10	DI TCP	
1545	1	MN-R720B	Start Command	Thickened Sludge Tank TKR720 Sludge Pump P-R720B Start		WR-P0009							CP-H10	DO TCP	
1546	1	MM-R720C	Running Status	Thickened Sludge Tank TKR720 Mixer MXR-R720C Running		WR-P0009							LCP-R21	DI TCP	
1547	1	MN-R720C	Start Command	Thickened Sludge Tank TKR720 Mixer MXR-R720C Start		WR-P0009							LCP-R21	DO TCP	
1548	1	SC-R720B	Speed Control Output	Thickened Sludge Tank TKR720 Sludge Pump P-R720B Required Speed		WR-P0009							CP-H10	AO TCP	
1549	1	SI-R720B	Speed Indication	Thickened Sludge Tank TKR720 Sludge Pump P-R720B Speed		WR-P0009							CP-H10	AI TCP	
1550	1	SC-R720C	Speed Control Output	Thickened Sludge Tank TKR720 Mixer MXR-R720C Required Speed		WR-P0009							LCP-R21	AO TCP	
1551	1	SI-R720C	Speed Indication	Thickened Sludge Tank TKR720 Mixer MXR-R720C Speed		WR-P0009							LCP-R21	AI TCP	
1552	1	UF-R720B	No Fault	Thickened Sludge Tank TKR720 Sludge Pump P-R720B Fault		WR-P0009							CP-H10	DI TCP	
1553	1	UF-R720C	No Fault	Thickened Sludge Tank TKR720 Mixer MXR-R720C Fault		WR-P0009							LCP-R21	DI TCP	
1554	1	YB-R720A	Close Command	Gravity Thickener GTR600A to Thickened Sludge Equalization Tank TKR720 Sludge Valve Close		WR-P0009							LCP-R21	DO	
1555	1	YD-R720A	Open Command	Gravity Thickener GTR600A to Thickened Sludge Equalization Tank TKR720 Sludge Valve Open		WR-P0009							LCP-R21	DO	
1556	1	YS-R720A	C/O/H Switch in Computer Position	Gravity Thickener GTR600A to Thickened Sludge Equalization Tank TKR720 Sludge Valve in Computer Mode		WR-P0009							LCP-R21	DI	
1557	1	YS-R720B	C/O/H Switch in Computer Position	Thickened Sludge Tank TKR720 Sludge Pump P-R720B in Computer Mode		WR-P0009							CP-H10	DI	
1558	1	YS-R720C	C/O/H Switch in Computer Position	Thickened Sludge Tank TKR720 Mixer MXR-R720C in Computer Mode		WR-P0009							LCP-R21	DI TCP	
1559	1	ZB-R720A	Closed Status	Gravity Thickener GTR600A to Thickened Sludge Equalization Tank TKR720 Sludge Valve Closed		WR-P0009							LCP-R21	DI	
1560	1	ZD-R720A	Open Status	Gravity Thickener GTR600A to Thickened Sludge Equalization Tank TKR720 Sludge Valve Open		WR-P0009							LCP-R21	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	ENG. UNITS	I/O SPECIFICATION						
								SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
1561	1	ZB-R720C	Closed Status	Gravity Thickener GTR600A to Thickened Sludge Equalization Tank TKR710 Sludge Valve Closed		WR-P0009						LCP-R21	DI	
1562	1	ZD-R720C	Open Status	Gravity Thickener GTR600A to Thickened Sludge Equalization Tank TKR710 Sludge Valve Open		WR-P0009						LCP-R21	DI	
1563	1	UF-R730B	TSS Fault	Thickened Sludge to Freeze Thaw Ponds TSS Fault		WR-P0009						LCP-R21	DI	
1564	1	AI-R730B	TSS Indication	Thickened Sludge to Freeze Thaw Ponds TSS		WR-P0009						LCP-R21	AI	
1565	1	FI-R730A	Flow Indication	Thickened Sludge to Freeze Thaw Ponds Flow Rate		WR-P0009						LCP-R21	AI	
1566	1	FQ-R730A	Flow Pulse	Thickened Sludge to Freeze Thaw Ponds Flow Total		WR-P0009						LCP-R21	DI	
1567	1	YD-R730A	Solenoid Valve	Thickened Sludge to Freeze Thaw Ponds Pump Outlet Control Valve Open		WR-P0009						LCP-R21	DO	
1568	1	ZB-R730A	Closed Status	Thickened Sludge to Freeze Thaw Ponds Pump Outlet Control Valve Closed		WR-P0009						LCP-R21	DI	
1569	1	ZD-R730A	Open Status	Thickened Sludge to Freeze Thaw Ponds Pump Outlet Control Valve Open		WR-P0009						LCP-R21	DI	
1570	0	LA-R920A	Level Alarm	Dewatering Pump Station TKR920A High High Level		WR-P0012							DI	
1571	0	LF-R920A	Level Fault	Dewatering Pump Station TKR920A Level Fault		WR-P0012							DI	
1572	0	LI-R920A	Level Indication	Dewatering Pump Station TKR920A Level		WR-P0012							AI	
1573	0	LA-R920B	Level Alarm	Dewatering Pump Station TKR920A Low Low Level		WR-P0012							DI	
1574	0	MM-R921A	Running Status	Freeze Thaw Ponds Dewatering Pump P-R921A Running		WR-P0012							DI	
1575	0	MN-R921A	Start Command	Freeze Thaw Ponds Dewatering Pump P-R921A Start		WR-P0012							DO	
1576	0	UF-R921A	No Fault	Freeze Thaw Ponds Dewatering Pump P-R921A Fault		WR-P0012							DI	
1577	0	YS-R921A	C/O/H Switch in Computer Position	Freeze Thaw Ponds Dewatering Pump P-R921A in Computer Mode		WR-P0012							DI	
1578	0	MM-R922A	Running Status	Freeze Thaw Ponds Dewatering Pump P-R922A Running		WR-P0012							DI	
1579	0	MN-R922A	Start Command	Freeze Thaw Ponds Dewatering Pump P-R922A Start		WR-P0012							DO	
1580	0	UF-R922A	No Fault	Freeze Thaw Ponds Dewatering Pump P-R922A Fault		WR-P0012							DI	
1581	0	YS-R922A	C/O/H Switch in Computer Position	Freeze Thaw Ponds Dewatering Pump P-R922A in Computer Mode		WR-P0012							DI	
1582	0	AI-R924A	TSS Indication	Combined Dewatering Pump Outlet TSS		WR-P0012							AI	
1583	0	AT-R924A	TSS Fault	Combined Dewatering Pump Outlet TSS Fault		WR-P0012							DI	
1584	0	FI-R924B	Flow Indication	Combined Dewatering Pump Outlet Flow Rate		WR-P0012							AI	
1585	0	FQ-R924B	Flow Pulse	Combined Dewatering Pump Outlet Flow Total		WR-P0012							DI	
1586	0	ZB-T002A	Closed Status	Clearwell Cell 1 & 2 Dividing Wall Sluice Gate Closed		WT-P0001							DI	
1587	0	ZD-T002A	Open Status	Clearwell Cell 1 & 2 Dividing Wall Sluice Gate Open		WT-P0001							DI	
1588	0	ZB-T003A	Closed Status	Clearwell Outlet Chamber Dividing Wall Sluice Gate Closed		WT-P0001							DI	
1589	0	ZD-T003A	Open Status	Clearwell Outlet Chamber Dividing Wall Sluice Gate Open		WT-P0001							DI	
1590	0	AI-T101A	Ammonia Indication	Clearwell Inlet Ammonia		WT-P0001							AI	
1591	0	AI-T101A	Total/ Combined Chlorine Indication	Clearwell Inlet Total/ Combined Chlorine		WT-P0001							AI	
1592	0	AI-T101A	Free Chlorine Indication	Clearwell Inlet Free Chlorine		WT-P0001							AI	
1593	0	FA-T101A	Flow Alarm	Clearwell Analyser Sample Low Flow		WT-P0001							DI	
1594	0	LF-T101A	Level Fault	Clearwell Cell No.1 Level		WT-P0001							DI	
1595	0	LI-T101A	Level Indication	Clearwell Cell No.1 Level		WT-P0001							AI	
1596	0	LF-T101B	Level Fault	Clearwell Cell No.1 Level		WT-P0001							DI	
1597	0	LI-T101B	Level Indication	Clearwell Cell No.1 Level		WT-P0001							AI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION		P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1598	0	MM-T101A	Running Status	Clearwell Analyser Sample Pump Running	WT-P0001							DI	
1599	0	MM-T101A	Running Status	Clearwell Analyser Sample Pump Running	WT-P0001							DI	
1600	0	MN-T101A	Start Command	Clearwell Analyser Sample Pump Start	WT-P0001							DO	
1601	0	MN-T101A	Start Command	Clearwell Analyser Sample Pump Start	WT-P0001							DO	
1602	0	YS-T101A	C/O/H Switch in Computer Position	Clearwell Analyser Sample Pump in Computer Mode	WT-P0001							DI	
1603	0	YS-T101A	C/O/H Switch in Computer Position	Clearwell Analyser Sample Pump in Computer Mode	WT-P0001							DI	
1604	0	ZB-T101A	Closed Status	Clearwell Cell 1 Inlet Sluice Gate Closed	WT-P0001							DI	
1605	0	ZD-T101A	Open Status	Clearwell Cell 1 Inlet Sluice Gate Open	WT-P0001							DI	
1606	0	AI-T102A	pH Indication	Clearwell Inlet pH	WT-P0001							AI	
1607	0	ZB-T102A	Closed Status	Clearwell Cell 1 Outlet Sluice Gate Closed	WT-P0001							DI	
1608	0	ZD-T102A	Open Status	Clearwell Cell 1 Outlet Sluice Gate Open	WT-P0001							DI	
1609	0	AI-T103A	Turbidity Indication	Clearwell Inlet Turbidity	WT-P0001							AI	
1610	0	AI-T201A	Ammonia Indication	Clearwell Inlet Ammonia	WT-P0001							AI	
1611	0	AI-T201A	Total/ Combined Chlorine Indication	Clearwell Inlet Total/ Combined Chlorine	WT-P0001							AI	
1612	0	AI-T201A	Free Chlorine Indication	Clearwell Inlet Free Chlorine	WT-P0001							AI	
1613	0	FS-T201A	Flow Alarm	Clearwell Analyser Sample Low Flow	WT-P0001							di	
1614	0	LF-T201A	Level Fault	Clearwell Cell No.2 Level	WT-P0001							DI	
1615	0	LI-T201A	Level Indication	Clearwell Cell No.2 Level	WT-P0001							AI	
1616	0	LF-T201B	Level Fault	Clearwell Cell No.2 Level	WT-P0001							DI	
1617	0	LI-T201B	Level Indication	Clearwell Cell No.2 Level	WT-P0001							AI	
1618	0	ZB-T201A	Closed Status	Clearwell Cell 2 Inlet Sluice Gate Closed	WT-P0001							DI	
1619	0	ZD-T201A	Open Status	Clearwell Cell 2 Inlet Sluice Gate Open	WT-P0001							DI	
1620	0	AI-T202A	pH Indication	Clearwell Inlet pH	WT-P0001							AI	
1621	0	ZB-T202A	Closed Status	Clearwell Cell 2 Outlet Sluice Gate Closed	WT-P0001							DI	
1622	0	ZD-T202A	Open Status	Clearwell Cell 2 Outlet Sluice Gate Open	WT-P0001							DI	
1623	0	AI-T203A	Turbidity Indication	Clearwell Inlet Turbidity	WT-P0001							AI	
1624	1	MM-H110A	Running Status	Sprinkler and Standpipes Fire Pump Running	WH-P0006							LCP-H10	DI
1625	1	UF-H110A	No Fault	Sprinkler and Standpipes Fire Pump Fault	WH-P0006							LCP-H10	DI
1626	1	MM-H120A	Running Status	Sprinkler and Standpipes Jockey Pump Running	WH-P0006							LCP-H10	DI
1627	1	UF-H120A	No Fault	Sprinkler and Standpipes Jockey Pump Fault	WH-P0006							LCP-H10	DI
1628	1	MM-H130A	Running Status	Outdoor Hydrant Emergency Pump Running	WH-P0006							LCP-H10	DI
1629	1	UF-H130A	No Fault	Outdoor Hydrant Emergency Pump Fault	WH-P0006							LCP-H10	DI
1630	1	MM-H140A	Running Status	Outdoor Hydrant Jockey Pump Running	WH-P0006							LCP-H10	DI
1631	1	UF-H140A	No Fault	Outdoor Hydrant Jockey Pump Fault	WH-P0006							LCP-H10	DI
1632	1	QA-H101A	Common Alarm	Fire Alarm Control Panel General Alarm	WH-P0006							LCP-H10	DI
1633	1	UF-H101A	No Fault	Fire Alarm Control Panel General Fault	WH-P0006							LCP-H10	DI
1634	1	LI-H400A	Level Indication	Fire Pump Room Process Sump Level	WH-P0007							LCP-H10	AI
1635	1	LF-H400A	Level Fault	Fire Pump Room Process Sump Level	WH-P0007							LCP-H10	DI
1636	1	LI-H400B	Level Indication	Fire Pump Room Process Sump Level	WH-P0007							LCP-H10	AI

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
1637	1	LF-H400B	Level Fault	Fire Pump Room Process Sump Level	Fire Pump Room Process Sump Pump P-H410A Start	WH-P0007						LCP-H10	DI	
1638	1	MN-H410A	Start Command	Fire Pump Room Process Sump Pump P-H410A Start	Fire Pump Room Process Sump Pump P-H410A Running	WH-P0007						LCP-H10	DI	
1639	1	MM-H410A	Running Status	Fire Pump Room Process Sump Pump P-H410A in Computer Mode	Fire Pump Room Process Sump Pump P-H410A Fault	WH-P0007						LCP-H10	DI	
1640	1	YS-H410A	C/O/H Switch in Computer Position	Fire Pump Room Process Sump Pump P-H410A Start	Fire Pump Room Process Sump Pump P-H420A Start	WH-P0007						LCP-H10	DO	
1641	1	UF-H410A	No Fault	Fire Pump Room Process Sump Pump P-H410A Running	Fire Pump Room Process Sump Pump P-H420A Running	WH-P0007						LCP-H10	DI	
1642	1	MN-H420A	Start Command	Fire Pump Room Process Sump Pump P-H410A in Computer Mode	Fire Pump Room Process Sump Pump P-H420A in Computer Mode	WH-P0007						LCP-H10	DI	
1643	1	MM-H420A	Running Status	Fire Pump Room Process Sump Pump P-H410A Fault	Fire Pump Room Process Sump Pump P-H420A Fault	WH-P0007						LCP-H10	DI	
1644	1	YS-H420A	C/O/H Switch in Computer Position	Fire Pump Room Process Sump Pump P-H420A Start	Fire Pump Room Process Sump Pump P-H420A Running	WH-P0007						LCP-H10	DI	
1645	1	UF-H420A	No Fault	Fire Pump Room Process Sump Pump P-H420A in Computer Mode	Fire Pump Room Process Sump Pump P-H420A Fault	WH-P0007						LCP-H10	DI	
1646	1	MN-H601A	Start Command	Air Compressor CMP-H601A Start Command	Air Compressor CMP-H601A Running	WH-P0008						LCP-H10	DO	
1647	1	MM-H601A	Running Status	Air Compressor CMP-H601A in Computer Mode	Air Compressor CMP-H601A Fault	WH-P0008						LCP-H10	DI	
1648	1	YS-H601A	C/O/H Switch in Computer Position	Air Compressor CMP-H601A Start Command	Air Compressor CMP-H602A Start Command	WH-P0008						LCP-H10	DO	
1649	1	UF-H601A	No Fault	Air Compressor CMP-H601A Running	Air Compressor CMP-H602A Running	WH-P0008						LCP-H10	DI	
1650	1	MN-H602A	Start Command	Air Compressor CMP-H601A in Computer Mode	Air Compressor CMP-H602A in Computer Mode	WH-P0008						LCP-H10	DI	
1651	1	MM-H602A	Running Status	Air Compressor CMP-H601A Fault	Air Compressor CMP-H602A Fault	WH-P0008						LCP-H10	DI	
1652	1	YS-H602A	C/O/H Switch in Computer Position	Air Compressor CMP-H602A Start Command	Dry Air Receiver High Pressure	WH-P0008						LCP-H10	DI	
1653	1	UF-H602A	No Fault	Air Compressor CMP-H602A Running	Dry Air Receiver Low Pressure	WH-P0008						LCP-H10	DI	
1654	1	PA-H605A	Pressure Alarm	Air Compressor CMP-H602A in Computer Mode	Water Treatment Plant in Standby Power Mode	WH-P0008						LCP-H10	DO	
1655	1	PA-H605B	Pressure Alarm	Air Compressor CMP-H602A Fault	HypoChlorite Mixing Pump P-J701A to Flash Mixer Low Flow	WH-P0008						LCP-H10	DI	
1656		YY-H080A	HVAC Shutdown Command	Water Treatment Plant in Standby Power Mode	HypoChlorite Mixing Pump P-J702A to Flash Mixer Low Flow	WH-P0008						LCP-H10	DI	
1657	1	FA-C110A	Flow Alarm	Dry Air Receiver High Pressure	Raw Water Main 1 Pressure	WF-P0014						LCP-F01	DI	
1658	1	FA-C110B	Flow Alarm	Dry Air Receiver Low Pressure	Train 1 Raw Water Temperature	WF-P0014						LCP-F01	DI	
1659	1	PI-I011A	Pressure Indication	Water Treatment Plant in Standby Power Mode	Raw Water Main 2 Pressure	WP-P0001						LCP-H10	AI	
1660	O	TI-I011A	Temperature Indication	Water Treatment Plant in Standby Power Mode	Train 2 Raw Water Temperature	WP-P0001						LCP-H10	AI	
1661	1	PI-I012A	Pressure Indication	Water Treatment Plant in Standby Power Mode	Train 1 Flash Mixing Pump P-I013A Running	WP-P0001						LCP-H10	DI	
1662	O	TI-I012A	Temperature Indication	Water Treatment Plant in Standby Power Mode	Train 1 Flash Mixing Pump P-I013A Start	WP-P0001						LCP-H10	DO	
1663	O	MM-I013A	Running Status	Water Treatment Plant in Standby Power Mode	Train 1 Flash Mixing Pump P-I013A Fault	WP-P0001						LCP-H10	DI	
1664	O	MN-I013A	Start Command	Water Treatment Plant in Standby Power Mode	Train 1 Flash Mixing Pump P-I013A in Computer Mode	WP-P0001						LCP-H10	DI	
1665	O	UF-I013A	No Fault	Water Treatment Plant in Standby Power Mode	Train 1 Flash Mixing Pump P-I013A Discharge Valve Closed	WP-P0001						LCP-H10	DI	
1666	O	YS-I013A	C/O/H Switch in Computer Position	Water Treatment Plant in Standby Power Mode	Train 1 Flash Mixing Pump P-I013A Discharge Valve Open	WP-P0001						LCP-H10	DI	
1667	O	ZB-I013D	Closed Status	Water Treatment Plant in Standby Power Mode	Common Standby Flash Mixing Pump P-I014A Running	WP-P0001						LCP-H10	DI	
1668	O	ZD-I013D	Open Status	Water Treatment Plant in Standby Power Mode	Common Standby Flash Mixing Pump P-I014A Start	WP-P0001						LCP-H10	DO	
1669	O	MM-I014A	Running Status	Water Treatment Plant in Standby Power Mode	Common Standby Flash Mixing Pump P-I014A Fault	WP-P0001						LCP-H10	DI	
1670	O	MN-I014A	Start Command	Water Treatment Plant in Standby Power Mode	Common Standby Flash Mixing Pump P-I014A in Computer Mode	WP-P0001						LCP-H10	DI	
1671	O	UF-I014A	No Fault	Water Treatment Plant in Standby Power Mode	Common Standby Flash Mixing Pump to Train 1 Valve Close	WP-P0001						LCP-H10	DO	
1672	O	YS-I014A	C/O/H Switch in Computer Position	Water Treatment Plant in Standby Power Mode	Common Standby Flash Mixing Pump to Train 1 Valve Open	WP-P0001						LCP-H10	DO	
1673	O	YB-I014D	Close Command	Water Treatment Plant in Standby Power Mode										
1674	O	YD-I014D	Open Command	Water Treatment Plant in Standby Power Mode										

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION								
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS	
							LOW	HIGH	LOW	HIGH				
1675	0	YS-I014D	C/O/H Switch in Computer Position	Common Standby Flash Mixing Pump to Train 1 Valve In Computer Mode	WP-P0001							LCP-H10	DI	
1676	0	YB-I014E	Close Command	Common Standby Flash Mixing Pump to Train 2 Valve Close	WP-P0001							LCP-H10	DO	
1677	0	YD-I014E	Open Command	Common Standby Flash Mixing Pump to Train 2 Valve Open	WP-P0001							LCP-H10	DO	
1678	0	YS-I014E	C/O/H Switch in Computer Position	Common Standby Flash Mixing Pump to Train 2 Valve in Computer Mode	WP-P0001							LCP-H10	DI	
1679	0	ZB-I014D	Closed Status	Common Standby Flash Mixing Pump to Train 1 Valve Closed	WP-P0001							LCP-H10	DI	
1680	0	ZD-I014D	Open Status	Common Standby Flash Mixing Pump to Train 1 Valve Open	WP-P0001							LCP-H10	DI	
1681	0	ZB-I014E	Closed Status	Common Standby Flash Mixing Pump to Train 2 Valve Closed	WP-P0001							LCP-H10	DI	
1682	0	ZD-I014E	Open Status	Common Standby Flash Mixing Pump to Train 2 Valve Open	WP-P0001							LCP-H10	DI	
1683	0	MM-I015A	Running Status	Train 2 Flash Mixing Pump P-I015A Running	WP-P0001							LCP-H10	DI	
1684	0	MN-I015A	Start Command	Train 2 Flash Mixing Pump P-I015A Start	WP-P0001							LCP-H10	DO	
1685	0	UF-I015A	No Fault	Train 2 Flash Mixing Pump P-I015A Fault	WP-P0001							LCP-H10	DI	
1686	0	YS-I015A	C/O/H Switch in Computer Position	Train 2 Flash Mixing Pump P-I015A in Computer Mode	WP-P0001							LCP-H10	DI	
1687	0	ZB-I015D	Closed Status	Train 2 Flash Mixing Pump Valve Closed	WP-P0001							LCP-H10	DI	
1688	0	ZD-I015D	Open Status	Train 2 Flash Mixing Pump Discharge Valve Open	WP-P0001							LCP-H10	DI	
1689	0	FA-I017D	Flow Alarm	Train 1 Ferric Chloride Dosing Flow Low	WP-P0001							LCP-H10	DI	
1690	0	FA-I018D	Flow Alarm	Train 2 Ferric Chloride Dosing Flow Low	WP-P0001							LCP-H10	DI	
1691	0	FA-I022E	Flow Alarm	Train 1 Sulphuric Acid Dosing Flow Low	WP-P0001							LCP-H10	DI	
1692	0	FA-I023E	Flow Alarm	Train 2 Sulphuric Acid Dosing Flow Low	WP-P0001							LCP-H10	DI	
1693	0	AT-I024B	pH Indication	Raw Water pH	WP-P0001							LCP-H10	AI	
1694	0	FA-I024B	Flow Alarm	Raw Water pH Low Sample Flow	WP-P0001							LCP-H10	DI	
1695	0	AT-I025B	pH Indication	Train 1 Post Flash Mixer Raw Water pH	WP-P0001							LCP-H10	AI	
1696	0	FA-I025B	Flow Alarm	Train 1 Post Flash Mixer Raw Water pH Low Sample Flow	WP-P0001							LCP-H10	DI	
1697	0	AT-I026B	pH Indication	Train 2 Post Flash Mixer Raw Water pH	WP-P0001							LCP-H10	AI	
1698	0	FA-I026B	Flow Alarm	Train 2 Post Flash Mixer Raw Water pH Low Sample Flow	WP-P0001							LCP-H10	DI	
1699	0	AT-I027B	Turbidity Indicator Transmitter	Raw Water Turbidity	WP-P0001							LCP-H10	AI	
1700	0	FA-I027B	Flow Alarm	Raw Water Turbidity Low Sample Flow	WP-P0001							LCP-H10	DI	
1701	1	FI-P001A	Flow Indication	DAF Recycle Water Flow Rate to Saturator P001A	WP-P0013							CP-P31	AI	
1702	1	FQ-P001A	Flow Pulse	DAF Recycle Water Flow Total to Saturator P001A	WP-P0013							CP-P31	DI	
1703	1	LI-P001A	Level Indication	DAF Saturator Vessel P001A Level	WP-P0013							CP-P31	AI	
1704	1	LS-P001A	Level Switch	DAF Saturator Vessel P001A Level Low	WP-P0013							CP-P31	DI	
1705	1	PI-P001A	Pressure Indication	DAF Saturator Vessel P001A Pressure	WP-P0013							CP-P31	AI	
1706	1	PS-P001A	Pressure Switch	DAF Saturator Vessel P001A Pressure Low	WP-P0013							CP-P31	AI	
1707	1	TI-P001A	Temperature Indication	DAF Saturator Vessel P001A Temperature	WP-P0013							CP-P31	AI	
1708	1	ZB-P001A	Closed Status	DAF Saturator Vessel P001A Outlet Flow Shutoff Valve Closed	WP-P0013							CP-P31	DI	
1709	1	ZD-P001A	Open Status	DAF Saturator Vessel P001A Outlet Flow Shutoff Valve Open	WP-P0013							CP-P31	DI	
1710	1	FI-P002A	Flow Indication	DAF Recycle Water Flow Rate to Saturator P002A	WP-P0013							CP-P31	AI	
1711	1	FQ-P002A	Flow Pulse	DAF Recycle Water Flow Total to Saturator P002A	WP-P0013							CP-P31	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1712	1	LI-P002A	Level Indication	DAF Saturator Vessel P002A Level	WP-P0013						CP-P31	AI	
1713	1	LS-P002A	Level Switch	DAF Saturator Vessel P002A Level Low	WP-P0013						CP-P31	DI	
1714	1	PI-P002A	Pressure Indicator Transmitter	DAF Saturator Vessel P002A Pressure	WP-P0013						CP-P31	AI	
1715	1	PS-P002A	Pressure Switch	DAF Saturator Vessel P002A Pressure Low	WP-P0013						CP-P31	AI	
1716	1	TI-P002A	Temperature Indicator Transmitter	DAF Saturator Vessel P002A Temperature	WP-P0013						CP-P31	AI	
1717	1	ZB-P002A	Closed Status	DAF Saturator Vessel P002A Outlet Flow Shutoff Valve Closed	WP-P0013						CP-P31	DI	
1718	1	ZD-P002A	Open Status	DAF Saturator Vessel P002A Outlet Flow Shutoff Valve Open	WP-P0013						CP-P31	DI	
1719	1	FI-P003A	Flow Indication	DAF Recycle Water Flow Rate to Saturator P003A	WP-P0015						CP-P32	AI	
1720	1	FQ-P003A	Flow Pulse	DAF Recycle Water Flow Total to Saturator P003A	WP-P0015						CP-P32	DI	
1721	1	LI-P003A	Level Indication	DAF Saturator Vessel P003A Level	WP-P0015						CP-P32	AI	
1722	1	LS-P003A	Level Switch	DAF Saturator Vessel P003A Level Low	WP-P0015						CP-P32	DI	
1723	1	PI-P003A	Pressure Indicator Transmitter	DAF Saturator Vessel P003A Pressure	WP-P0015						CP-P32	AI	
1724	1	PS-P003A	Pressure Switch	DAF Saturator Vessel P003A Pressure Low	WP-P0015						CP-P32	AI	
1725	1	TI-P003A	Temperature Indicator Transmitter	DAF Saturator Vessel P003A Temperature	WP-P0015						CP-P32	AI	
1726	1	ZB-P003A	Closed Status	DAF Saturator Vessel P003A Outlet Flow Shutoff Valve Closed	WP-P0015						CP-P32	DI	
1727	1	ZD-P003A	Open Status	DAF Saturator Vessel P003A Outlet Flow Shutoff Valve Open	WP-P0015						CP-P32	DI	
1728	1	FI-P004A	Flow Indication	DAF Recycle Water Flow Rate to Saturator P004A	WP-P0015						CP-P32	AI	
1729	1	FQ-P004A	Flow Pulse	DAF Recycle Water Flow Total to Saturator P004A	WP-P0015						CP-P32	DI	
1730	1	LI-P004A	Level Indication	DAF Saturator Vessel P004A Level	WP-P0015						CP-P32	AI	
1731	1	LS-P004A	Level Switch	DAF Saturator Vessel P004A Level Low	WP-P0015						CP-P32	DI	
1732	1	PI-P004A	Pressure Indicator Transmitter	DAF Saturator Vessel P004A Pressure	WP-P0015						CP-P32	AI	
1733	1	PS-P004A	Pressure Switch	DAF Saturator Vessel P004A Pressure Low	WP-P0015						CP-P32	AI	
1734	1	TI-P004A	Temperature Indicator Transmitter	DAF Saturator Vessel P004A Temperature	WP-P0015						CP-P32	AI	
1735	1	ZB-P004A	Closed Status	DAF Saturator Vessel P004A Outlet Flow Shutoff Valve Closed	WP-P0015						CP-P32	DI	
1736	1	ZD-P004A	Open Status	DAF Saturator Vessel P004A Outlet Flow Shutoff Valve Open	WP-P0015						CP-P32	DI	
1737	1	IT-P010A	Current Indication	DAF Recycle Pump P-P010A Current	WP-P0012						CP-P31	AI TCP	
1738	1	MM-P010A	Running Status	DAF Recycle Pump P-P010A Running	WP-P0012						CP-P31	DI TCP	
1739	1	MN-P010A	Start Command	DAF Recycle Pump P-P010A Start	WP-P0012						CP-P31	DO TCP	
1740	1	SC-P010A	Speed Control Output	DAF Recycle Pump P-P010A Required Speed	WP-P0012						CP-P31	AO TCP	
1741	1	SI-P010A	Speed Indication	DAF Recycle Pump P-P010A Speed	WP-P0012						CP-P31	AI TCP	
1742	1	UF-P010A	No Fault	DAF Recycle Pump P-P010A Fault	WP-P0012						CP-P31	DI TCP	
1743	1	YS-P010A	C/O/H Switch in Computer Position	DAF Recycle Pump P-P010A in Computer Mode	WP-P0012						CP-P31	DI TCP	
1744	1	ZB-P010C	Closed Status	DAF Recycle Pump P-P010A Discharge Valve Closed	WP-P0012						CP-P31	DI	
1745	1	ZD-P010C	Open Status	DAF Recycle Pump P-P010A Discharge Valve Open	WP-P0012						CP-P31	DI	
1746	1	IT-P020A	Current Indication	DAF Recycle Pump P-P020A Current	WP-P0012						CP-P31	AI TCP	
1747	1	MM-P020A	Running Status	DAF Recycle Pump P-P020A Running	WP-P0012						CP-P31	DI TCP	
1748	1	MN-P020A	Start Command	DAF Recycle Pump P-P020A Start	WP-P0012						CP-P31	DO TCP	
1749	1	SC-P020A	Speed Control Output	DAF Recycle Pump P-P020A Required Speed	WP-P0012						CP-P31	AO TCP	
1750	1	SI-P020A	Speed Indication	DAF Recycle Pump P-P020A Speed	WP-P0012						CP-P31	AI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1751	1	UF-P020A	No Fault	DAF Recycle Pump P-P020A Fault	WP-P0012						CP-P31	DI TCP	
1752	1	YS-P020A	C/O/H Switch in Computer Position	DAF Recycle Pump P-P020A in Computer Mode	WP-P0012						CP-P31	DI TCP	
1753	1	YB-P020D	Close Command	Pump P-P020A (Common Standby) to DAF Saturator P001A Control Valve Close	WP-P0012						CP-P31	DO	
1754	1	YD-P020D	Open Command	Pump P-P020A (Common Standby) to DAF Saturator P001A Control Valve Open	WP-P0012						CP-P31	DO	
1755	1	YS-P020D	C/O/H Switch in Computer Position	Pump P-P020A (Common Standby) to DAF Saturator P001A Control Valve in Computer Mode	WP-P0012						CP-P31	DI	
1756	1	YB-P020E	Close Command	Pump P-P020A (Common Standby) to DAF Saturator P002A Control Valve Close	WP-P0012						CP-P31	DO	
1757	1	YD-P020E	Open Command	Pump P-P020A (Common Standby) to DAF Saturator P002A Control Valve Open	WP-P0012						CP-P31	DO	
1758	1	YS-P020E	C/O/H Switch in Computer Position	Pump P-P020A (Common Standby) to DAF Saturator P002A Control Valve in Computer Mode	WP-P0012						CP-P31	DI	
1759	1	ZB-P020D	Closed Status	Pump P-P020A (Common Standby) to DAF Saturator P001A Control Valve Closed	WP-P0012						CP-P31	DI	
1760	1	ZD-P020D	Open Status	Pump P-P020A (Common Standby) to DAF Saturator P001A Control Valve Open	WP-P0012						CP-P31	DI	
1761	1	ZB-P020E	Closed Status	Pump P-P020A (Common Standby) to DAF Saturator P002A Control Valve Closed	WP-P0012						CP-P31	DI	
1762	1	ZD-P020E	Open Status	Pump P-P020A (Common Standby) to DAF Saturator P002A Control Valve Open	WP-P0012						CP-P31	DI	
1763	1	ZB-P020C	Closed Status	DAF Recycle Pump P-P020A Discharge Valve Closed	WP-P0012						CP-P31	DI	
1764	1	ZD-P020C	Open Status	DAF Recycle Pump P-P020A Discharge Valve Open	WP-P0012						CP-P31	DI	
1765	1	IT-P030A	Current Indication	DAF Recycle Pump P-P030A Current	WP-P0012						CP-P31	AI TCP	
1766	1	MM-P030A	Running Status	DAF Recycle Pump P-P030A Running	WP-P0012						CP-P31	DI TCP	
1767	1	MN-P030A	Start Command	DAF Recycle Pump P-P030A Start	WP-P0012						CP-P31	DO TCP	
1768	1	SC-P030A	Speed Control Output	DAF Recycle Pump P-P030A Required Speed	WP-P0012						CP-P31	AO TCP	
1769	1	SI-P030A	Speed Indication	DAF Recycle Pump P-P030A Speed	WP-P0012						CP-P31	AI TCP	
1770	1	UF-P030A	No Fault	DAF Recycle Pump P-P030A Fault	WP-P0012						CP-P31	DI TCP	
1771	1	YS-P030A	C/O/H Switch in Computer Position	DAF Recycle Pump P-P030A in Computer Mode	WP-P0012						CP-P31	DI TCP	
1772	1	ZB-P030C	Closed Status	DAF Recycle Pump P030A Discharge Valve Closed	WP-P0012						CP-P31	DI	
1773	1	ZD-P030C	Open Status	DAF Recycle Pump P-P030A Discharge Valve Open	WP-P0012						CP-P31	DI	
1774	1	IT-P040A	Current Indication	DAF Recycle Pump P-P040A Current	WP-P0014						CP-P32	AI TCP	
1775	1	MM-P040A	Running Status	DAF Recycle Pump P-P040A Running	WP-P0014						CP-P32	DI TCP	
1776	1	MN-P040A	Start Command	DAF Recycle Pump P-P040A Start	WP-P0014						CP-P32	DO TCP	
1777	1	SC-P040A	Speed Control Output	DAF Recycle Pump P-P040A Required Speed	WP-P0014						CP-P32	AO TCP	
1778	1	SI-P040A	Speed Indication	DAF Recycle Pump P-P040A Speed	WP-P0014						CP-P32	AI TCP	
1779	1	UF-P040A	No Fault	DAF Recycle Pump P-P040A Fault	WP-P0014						CP-P32	DI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION								
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS	
							LOW	HIGH	LOW	HIGH				
1780	1	YS-P040A	C/O/H Switch in Computer Position	DAF Recycle Pump P-P040A in Computer Mode	WP-P0014							CP-P32	DI TCP	
1781	1	ZB-P040C	Closed Status	DAF Recycle Pump P-P040A Discharge Valve Closed	WP-P0014							CP-P32	DI	
1782	1	ZD-P040C	Open Status	DAF Recycle Pump P-P040A Discharge Valve Open	WP-P0014							CP-P32	DI	
1783	1	IT-P050A	Current Indication	DAF Recycle Pump P-P050A Current	WP-P0014							CP-P32	AI TCP	
1784	1	MM-P050A	Running Status	DAF Recycle Pump P-P050A Running	WP-P0014							CP-P32	DI TCP	
1785	1	MN-P050A	Start Command	DAF Recycle Pump P-P050A Start	WP-P0014							CP-P32	DO TCP	
1786	1	SC-P050A	Speed Control Output	DAF Recycle Pump P-P050A Required Speed	WP-P0014							CP-P32	AO TCP	
1787	1	SI-P050A	Speed Indication	DAF Recycle Pump P-P050A Speed	WP-P0014							CP-P32	AI TCP	
1788	1	UF-P050A	No Fault	DAF Recycle Pump P-P050A Fault	WP-P0014							CP-P32	DI TCP	
1789	1	YS-P050A	C/O/H Switch in Computer Position	DAF Recycle Pump P-P050A in Computer Mode	WP-P0014							CP-P32	DI TCP	
1790	1	ZB-P050C	Closed Status	DAF Recycle Pump P-P050A Discharge Valve Closed	WP-P0014							CP-P32	DI	
1791	1	ZD-P050C	Open Status	DAF Recycle Pump P-P050A Discharge Valve Open	WP-P0014							CP-P32	DI	
1792	1	YB-P050D	Close Command	Pump P-P050A (Common Standby) to DAF Saturator P003A Control Valve Close	WP-P0014							CP-P32	DO	
1793	1	YD-P050D	Open Command	Pump P-P050A (Common Standby) to DAF Saturator P003A Control Valve Open	WP-P0014							CP-P32	DO	
1794	1	YS-P050D	C/O/H Switch in Computer Position	Pump P-P050A (Common Standby) to DAF Saturator P003A Control Valve in Computer Mode	WP-P0014							CP-P32	DI	
1795	1	YB-P050E	Close Command	Pump P-P050A (Common Standby) to DAF Saturator P004A Control Valve Close	WP-P0014							CP-P32	DO	
1796	1	YD-P050E	Open Command	Pump P-P050A (Common Standby) to DAF Saturator P004A Control Valve Open	WP-P0014							CP-P32	DO	
1797	1	YS-P050E	C/O/H Switch in Computer Position	Pump P-P050A (Common Standby) to DAF Saturator P004A Control Valve in Computer Mode	WP-P0014							CP-P32	DI	
1798	1	ZB-P050D	Closed Status	Pump P-P050A (Common Standby) to DAF Saturator P003A Control Valve Closed	WP-P0014							CP-P32	DI	
1799	1	ZD-P050D	Open Status	Pump P-P050A (Common Standby) to DAF Saturator P003A Control Valve Open	WP-P0014							CP-P32	DI	
1800	1	ZB-P050E	Closed Status	Pump P-P050A (Common Standby) to DAF Saturator P004A Control Valve Closed	WP-P0014							CP-P32	DI	
1801	1	ZD-P050E	Open Status	Pump P-P050A (Common Standby) to DAF Saturator P004A Control Valve Open	WP-P0014							CP-P32	DI	
1802	1	IT-P060A	Current Indication	DAF Recycle Pump P-P060A Current	WP-P0014							CP-P32	AI TCP	
1803	1	MM-P060A	Running Status	DAF Recycle Pump P-P060A Running	WP-P0014							CP-P32	DI TCP	
1804	1	MN-P060A	Start Command	DAF Recycle Pump P-P060A Start	WP-P0014							CP-P32	DO TCP	
1805	1	SC-P060A	Speed Control Output	DAF Recycle Pump P-P060A Required Speed	WP-P0014							CP-P32	AO TCP	
1806	1	SI-P060A	Speed Indication	DAF Recycle Pump P-P060A Speed	WP-P0014							CP-P32	AI TCP	
1807	1	UF-P060A	No Fault	DAF Recycle Pump P-P060A Fault	WP-P0014							CP-P32	DI TCP	
1808	1	YS-P060A	C/O/H Switch in Computer Position	DAF Recycle Pump P-P060A in Computer Mode	WP-P0014							CP-P32	DI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1809	1	ZB-P060C	Closed Status	DAF Recycle Pump P-P060A Discharge Valve Closed	WP-P0014						CP-P32	DI	
1810	1	ZD-P060C	Open Status	DAF Recycle Pump P-P060A Discharge Valve Open	WP-P0014						CP-P32	DI	
1811	1	FI-P100A	Flow Indication	Raw Water Flow Rate to DAF TNKP100A	WP-P0002						LCP-H10	AI	
1812	1	FQ-P100A	Flow Pulse	Raw Water Total Flow Rate to DAF TNKP100A	WP-P0002						LCP-H10	DI	
1813	1	LF-P100A	No Fault	DAF TNKP100A Level Fault	WP-P0004						CP-P31	DI	
1814	1	LI-P100A	Level Indication	DAF TNKP100A Level	WP-P0004						CP-P31	AI	
1815	1	MF-P100A	Reverse Limit	DAF Float Reciprocating Scraper FLC-P100A Travelled Reverse	WP-P0004						CP-P31	DI	
1816	1	MM-P100A	Running Status	DAF Float Reciprocating Scraper FLC-P100A Running	WP-P0004						CP-P31	DI TCP	
1817	1	MN-P100A	Start Command	DAF Float Reciprocating Scraper FLC-P100A Start	WP-P0004						CP-P31	DO TCP	
1818	1	MR-P100A	Forward Limit	DAF Float Reciprocating Scraper FLC-P100A Travelled Forward	WP-P0004						CP-P31	DI	
1819	1	SC-P100A	Speed Control Output	DAF Float Reciprocating Scraper FLC-P100A Required Speed	WP-P0004						CP-P31	AO TCP	
1820	1	SI-P100A	Speed Indication	DAF Float Reciprocating Scraper FLC-P100A Speed	WP-P0004						CP-P31	AI TCP	
1821	1	UF-P100A	No Fault	DAF Float Reciprocating Scraper FLC-P100A Fault	WP-P0004						CP-P31	DI TCP	
1822	1	YS-P100A	C/O/H Switch in Computer Position	Raw Water Flow Control to DAF TNKP100A Valve in Computer Mode	WP-P0002						LCP-H10	DI	
1823	1	YS-P100A	C/O/H Switch in Computer Position	DAF Float Reciprocating Scraper FLC-P100A in Computer Mode	WP-P0004						CP-P31	DI TCP	
1824	1	ZB-P100A	Closed Status	Raw Water Flow Control to DAF TNKP100A Valve Closed	WP-P0002						LCP-H10	DI	
1825	1	ZC-P100A	Position Control Output	Raw Water Flow Control to DAF TNKP100A Valve Required Position	WP-P0002						LCP-H10	AO	
1826	1	ZD-P100A	Open Status	Raw Water Flow Control to DAF TNKP100A Valve Open	WP-P0002						LCP-H10	DI	
1827	1	ZT-P100A	Position Feedback	Raw Water Flow Control to DAF TNKP100A Valve Position	WP-P0002						LCP-H10	AI	
1828	1	MM-P101A	Running Status	DAF Flocculator FLC-P101A Running	WP-P0004						CP-P31	DI TCP	
1829	1	MN-P101A	Start Command	DAF Flocculator FLC-P101A Start	WP-P0004						CP-P31	DO TCP	
1830	1	SC-P101A	Speed Control Output	DAF Flocculator FLC-P101A Required Speed	WP-P0004						CP-P31	AO TCP	
1831	1	SI-P101A	Speed Indication	DAF Flocculator FLC-P101A Speed	WP-P0004						CP-P31	AI TCP	
1832	1	UF-P101A	No Fault	DAF Flocculator FLC-P101A Fault	WP-P0004						CP-P31	DI TCP	
1833	1	YS-P101A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P101A in Computer Mode	WP-P0004						CP-P31	DI TCP	
1834	1	MM-P102A	Running Status	DAF Flocculator FLC-P102A Running	WP-P0004						CP-P31	DI TCP	
1835	1	MN-P102A	Start Command	DAF Flocculator FLC-P102A Start	WP-P0004						CP-P31	DO TCP	
1836	1	SC-P102A	Speed Control Output	DAF Flocculator FLC-P102A Required Speed	WP-P0004						CP-P31	AO TCP	
1837	1	SI-P102A	Speed Indication	DAF Flocculator FLC-P102A Speed	WP-P0004						CP-P31	AI TCP	
1838	1	UF-P102A	No Fault	DAF Flocculator FLC-P102A Fault	WP-P0004						CP-P31	DI TCP	
1839	1	YS-P102A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P102A in Computer Mode	WP-P0004						CP-P31	DI TCP	
1840	1	MM-P103A	Running Status	DAF Flocculator FLC-P103A Running	WP-P0004						CP-P31	DI TCP	
1841	1	MN-P103A	Start Command	DAF Flocculator FLC-P103A Start	WP-P0004						CP-P31	DO TCP	
1842	1	SC-P103A	Speed Control Output	DAF Flocculator FLC-P103A Required Speed	WP-P0004						CP-P31	AO TCP	
1843	1	SI-P103A	Speed Indication	DAF Flocculator FLC-P103A Speed	WP-P0004						CP-P31	AI TCP	
1844	1	UF-P103A	No Fault	DAF Flocculator FLC-P103A Fault	WP-P0004						CP-P31	DI TCP	
1845	1	YS-P103A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P103A in Computer Mode	WP-P0004						CP-P31	DI TCP	
1846	1	MM-P104A	Running Status	DAF Flocculator FLC-P104A Running	WP-P0004						CP-P31	DI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1847	1	MN-P104A	Start Command	DAF Flocculator FLC-P104A Start	WP-P0004						CP-P31	DO TCP	
1848	1	SC-P104A	Speed Control Output	DAF Flocculator FLC-P104A Required Speed	WP-P0004						CP-P31	AO TCP	
1849	1	SI-P104A	Speed Indication	DAF Flocculator FLC-P104A Speed	WP-P0004						CP-P31	AI TCP	
1850	1	UF-P104A	No Fault	DAF Flocculator FLC-P104A Fault	WP-P0004						CP-P31	DI TCP	
1851	1	YS-P104A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P104A in Computer Mode	WP-P0004						CP-P31	DI TCP	
1852	1	MM-P105A	Running Status	DAF Flocculator FLC-P105A Running	WP-P0004						CP-P31	DI TCP	
1853	1	MN-P105A	Start Command	DAF Flocculator FLC-P105A Start	WP-P0004						CP-P31	DO TCP	
1854	1	SC-P105A	Speed Control Output	DAF Flocculator FLC-P105A Required Speed	WP-P0004						CP-P31	AO TCP	
1855	1	SI-P105A	Speed Indication	DAF Flocculator FLC-P105A Speed	WP-P0004						CP-P31	AI TCP	
1856	1	UF-P105A	No Fault	DAF Flocculator FLC-P105A Fault	WP-P0004						CP-P31	DI TCP	
1857	1	YS-P105A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P105A in Computer Mode	WP-P0004						CP-P31	DI TCP	
1858	1	MM-P106A	Running Status	DAF Flocculator FLC-P106A Running	WP-P0004						CP-P31	DI TCP	
1859	1	MN-P106A	Start Command	DAF Flocculator FLC-P106A Start	WP-P0004						CP-P31	DO TCP	
1860	1	SC-P106A	Speed Control Output	DAF Flocculator FLC-P106A Required Speed	WP-P0004						CP-P31	AO TCP	
1861	1	SI-P106A	Speed Indication	DAF Flocculator FLC-P106A Speed	WP-P0004						CP-P31	AI TCP	
1862	1	UF-P106A	No Fault	DAF Flocculator FLC-P106A Fault	WP-P0004						CP-P31	DI TCP	
1863	1	YS-P106A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P106A in Computer Mode	WP-P0004						CP-P31	DI TCP	
1864	1	YS-P110A	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P100A Valve in Computer Mode	WP-P0004						CP-P31	DI	
1865	1	YS-P110B	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P100A Valve in Computer Mode	WP-P0004						CP-P31	DI	
1866	1	ZB-P110A	Closed Status	Air Saturated Water to DAF TNK-P100A Valve Closed	WP-P0004						CP-P31	DI	
1867	1	YB-P110A	Close Command	Air Saturated Water to DAF TNK-P100A Valve Close	WP-P0004						CP-P31	DO	
1868	1	ZD-P110A	Open Status	Air Saturated Water to DAF TNK-P100A Valve Open	WP-P0004						CP-P31	DI	
1869	1	YD-P110A	Open Command	Air Saturated Water to DAF TNK-P100A Valve Open	WP-P0004						CP-P31	DO	
1870	1	ZB-P110B	Closed Status	Air Saturated Water to DAF TNK-P100A Valve Closed	WP-P0004						CP-P31	DI	
1871	1	YB-P110B	Close Command	Air Saturated Water to DAF TNK-P100A Valve Close	WP-P0004						CP-P31	DO	
1872	1	ZD-P110B	Open Status	Air Saturated Water to DAF TNK-P100A Valve Open	WP-P0004						CP-P31	DI	
1873	1	YC-P110B	Open Command	Air Saturated Water to DAF TNK-P100A Valve Open	WP-P0004						CP-P31	DO	
1874	1	YD-P120A	Solenoid Actuator Output	DAF Basin Headwall Spray Wash Header Valve (TNKP100A) Open	WP-P0004						CP-P31	DO	
1875	1	YD-P120B	Solenoid Actuator Output	DAF Basin Float Trough Spray Wash Valve (TNKP100A) Open	WP-P0004						CP-P31	DO	
1876	1	YS-P140A	C/O/H Switch in Computer Position	DAF Basin Effluent Weir Bypass Gate (TNKP100A) in Computer Mode	WP-P0004						CP-P31	DI	
1877	1	ZB-P140A	Closed Status	DAF Basin Effluent Weir Bypass Gate (TNKP100A) Closed	WP-P0004						CP-P31	DI	
1878	1	ZC-P140A	Position Control Output	DAF Basin Effluent Weir Bypass Gate (TNKP100A) Required Position	WP-P0004						CP-P31	AO	
1879	1	ZD-P140A	Open Status	DAF Basin Effluent Weir Bypass Gate (TNKP100A) Open	WP-P0004						CP-P31	DI	
1880	1	ZT-P140A	Position Feedback	DAF Basin Effluent Weir Bypass Gate (TNKP100A) Position	WP-P0004						CP-P31	AI	
1881	1	FI-P200A	Flow Indication	Raw Water Flow Rate to DAF TNKP200A	WP-P0002						LCP-H10	AI	
1882	1	FQ-P200A	Flow Pulse	Raw Water Flow Total to DAF TNKP200A	WP-P0002						LCP-H10	DI	
1883	1	LF-P200A	No Fault	DAF TNKP200A Level Fault	WP-P0005						CP-P31	DI	
1884	1	LI-P200A	Level Indication	DAF TNKP200A Level	WP-P0005						CP-P31	AI	
1885	1	MF-P200A	Reverse Limit	DAF Float Reciprocating Scraper FLC-P200A Travelled Reverse	WP-P0005						CP-P31	DI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1886	1	MM-P200A	Running Status	DAF Float Reciprocating Scraper FLC-P200A Running	WP-P0005						CP-P31	DI TCP	
1887	1	MN-P200A	Start Command	DAF Float Reciprocating Scraper FLC-P200A Start	WP-P0005						CP-P31	DO TCP	
1888	1	MR-P200A	Forward Limit	DAF Float Reciprocating Scraper FLC-P200A Travelled Forward	WP-P0005						CP-P31	DI TCP	
1889	1	SC-P200A	Speed Control Output	DAF Float Reciprocating Scraper FLC-P200A Required Speed	WP-P0005						CP-P31	AO TCP	
1890	1	SI-P200A	Speed Indication	DAF Float Reciprocating Scraper FLC-P200A Speed	WP-P0005						CP-P31	AI TCP	
1891	1	UF-P200A	No Fault	DAF Float Reciprocating Scraper FLC-P200A Fault	WP-P0005						CP-P31	DI TCP	
1892	1	YS-P200A	C/O/H Switch in Computer Position	Raw Water Flow Control to DAF TNKP200A Valve in Computer Mode	WP-P0002						LCP-H10	DI	
1893	1	YS-P200A	C/O/H Switch in Computer Position	DAF Float Reciprocating Scraper FLC-P200A in Computer Mode	WP-P0005						CP-P31	DI TCP	
1894	1	ZB-P200A	Closed Status	Raw Water Flow Control to DAF TNKP200A Valve Closed	WP-P0002						LCP-H10	DI	
1895	1	ZC-P200A	Position Control Output	Raw Water Flow Control to DAF TNKP200A Valve Required Position	WP-P0002						LCP-H10	AO	
1896	1	ZD-P200A	Open Status	Raw Water Flow Control to DAF TNKP200A Valve Open	WP-P0002						LCP-H10	DI	
1897	1	ZT-P200A	Position Feedback	Raw Water Flow Control to DAF TNKP200A Valve Position	WP-P0002						LCP-H10	AI	
1898	1	MM-P201A	Running Status	DAF Flocculator FLC-P201A Running	WP-P0005						CP-P31	DI TCP	
1899	1	MN-P201A	Start Command	DAF Flocculator FLC-P201A Start	WP-P0005						CP-P31	DO TCP	
1900	1	SC-P201A	Speed Control Output	DAF Flocculator FLC-P201A Required Speed	WP-P0005						CP-P31	AO TCP	
1901	1	SI-P201A	Speed Indication	DAF Flocculator FLC-P201A Speed	WP-P0005						CP-P31	AI TCP	
1902	1	UF-P201A	No Fault	DAF Flocculator FLC-P201A Fault	WP-P0005						CP-P31	DI TCP	
1903	1	YS-P201A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P201A in Computer Mode	WP-P0005						CP-P31	DI TCP	
1904	1	MM-P202A	Running Status	DAF Flocculator FLC-P202A Running	WP-P0005						CP-P31	DI TCP	
1905	1	MN-P202A	Start Command	DAF Flocculator FLC-P202A Start	WP-P0005						CP-P31	DO TCP	
1906	1	SC-P202A	Speed Control Output	DAF Flocculator FLC-P202A Required Speed	WP-P0005						CP-P31	AO TCP	
1907	1	SI-P202A	Speed Indication	DAF Flocculator FLC-P202A Speed	WP-P0005						CP-P31	AI TCP	
1908	1	UF-P202A	No Fault	DAF Flocculator FLC-P202A Fault	WP-P0005						CP-P31	DI TCP	
1909	1	YS-P202A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P202A in Computer Mode	WP-P0005						CP-P31	DI TCP	
1910	1	MM-P203A	Running Status	DAF Flocculator FLC-P203A Running	WP-P0005						CP-P31	DI TCP	
1911	1	MN-P203A	Start Command	DAF Flocculator FLC-P203A Start	WP-P0005						CP-P31	DO TCP	
1912	1	SC-P203A	Speed Control Output	DAF Flocculator FLC-P203A Required Speed	WP-P0005						CP-P31	AO TCP	
1913	1	SI-P203A	Speed Indication	DAF Flocculator FLC-P203A Speed	WP-P0005						CP-P31	AI TCP	
1914	1	UF-P203A	No Fault	DAF Flocculator FLC-P203A Fault	WP-P0005						CP-P31	DI TCP	
1915	1	YS-P203A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P203A in Computer Mode	WP-P0005						CP-P31	DI TCP	
1916	1	MM-P204A	Running Status	DAF Flocculator FLC-P204A Running	WP-P0005						CP-P31	DI TCP	
1917	1	MN-P204A	Start Command	DAF Flocculator FLC-P204A Start	WP-P0005						CP-P31	DO TCP	
1918	1	SC-P204A	Speed Control Output	DAF Flocculator FLC-P204A Required Speed	WP-P0005						CP-P31	AO TCP	
1919	1	SI-P204A	Speed Indication	DAF Flocculator FLC-P204A Speed	WP-P0005						CP-P31	AI TCP	
1920	1	UF-P204A	No Fault	DAF Flocculator FLC-P204A Fault	WP-P0005						CP-P31	DI TCP	
1921	1	YS-P204A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P204A in Computer Mode	WP-P0005						CP-P31	DI TCP	
1922	1	MM-P205A	Running Status	DAF Flocculator FLC-P205A Running	WP-P0005						CP-P31	DI TCP	
1923	1	MN-P205A	Start Command	DAF Flocculator FLC-P205A Start	WP-P0005						CP-P31	DO TCP	
1924	1	SC-P205A	Speed Control Output	DAF Flocculator FLC-P205A Required Speed	WP-P0005						CP-P31	AO TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1925	1	SI-P205A	Speed Indication	DAF Flocculator FLC-P205A Speed	WP-P0005						CP-P31	AI TCP	
1926	1	UF-P205A	No Fault	DAF Flocculator FLC-P205A Fault	WP-P0005						CP-P31	DI TCP	
1927	1	YS-P205A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P205A in Computer Mode	WP-P0005						CP-P31	DI TCP	
1928	1	MM-P206A	Running Status	DAF Flocculator FLC-P206A Running	WP-P0005						CP-P31	DI TCP	
1929	1	MN-P206A	Start Command	DAF Flocculator FLC-P206A Start	WP-P0005						CP-P31	DO TCP	
1930	1	SC-P206A	Speed Control Output	DAF Flocculator FLC-P206A Required Speed	WP-P0005						CP-P31	AO TCP	
1931	1	SI-P206A	Speed Indication	DAF Flocculator FLC-P206A Speed	WP-P0005						CP-P31	AI TCP	
1932	1	UF-P206A	No Fault	DAF Flocculator FLC-P206A Fault	WP-P0005						CP-P31	DI TCP	
1933	1	YS-P206A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P206A in Computer Mode	WP-P0005						CP-P31	DI TCP	
1934	1	YS-P210A	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P200A Valve in Computer Mode	WP-P0005						CP-P31	DI	
1935	1	YS-P210B	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P200A Valve in Computer Mode	WP-P0005						CP-P31	DI	
1936	1	ZB-P210A	Closed Status	Air Saturated Water to DAF TNK-P200A Valve Closed	WP-P0005						CP-P31	DI	
1937	1	YB-P210A	Close Command	Air Saturated Water to DAF TNK-P200A Valve Closed	WP-P0005						CP-P31	DO	
1938	1	ZD-P210A	Open Status	Air Saturated Water to DAF TNK-P200A Valve Open	WP-P0005						CP-P31	DI	
1939	1	YD-P210A	Open Command	Air Saturated Water to DAF TNK-P200A Valve Open	WP-P0005						CP-P31	DO	
1940	1	ZB-P210B	Closed Status	Air Saturated Water to DAF TNK-P200A Valve Closed	WP-P0005						CP-P31	DI	
1941	1	YB-P210B	Close Command	Air Saturated Water to DAF TNK-P200A Valve Closed	WP-P0005						CP-P31	DO	
1942	1	ZD-P210B	Open Status	Air Saturated Water to DAF TNK-P200A Valve Open	WP-P0005						CP-P31	DI	
1943	1	YD-P210B	Open Command	Air Saturated Water to DAF TNK-P200A Valve Open	WP-P0005						CP-P31	DO	
1944	1	YD-P220A	Solenoid Actuator Output	DAF Basin Headwall Spray Wash Header Valve (TNKP200A) Open	WP-P0005						CP-P31	DO	
1945	1	YD-P220B	Solenoid Actuator Output	DAF Basin Float Trough Spray Wash Valve (TNKP200A) Open	WP-P0005						CP-P31	DO	
1946	1	YS-P240A	C/O/H Switch in Computer Position	DAF Basin Effluent Weir Bypass Gate (TNKP200A) in Computer Mode	WP-P0005						CP-P31	DI	
1947	1	ZB-P240A	Closed Status	DAF Basin Effluent Weir Bypass Gate (TNKP200A) Closed	WP-P0005						CP-P31	DI	
1948	1	ZC-P240A	Position Control Output	DAF Basin Effluent Weir Bypass Gate (TNKP200A) Required Position	WP-P0005						CP-P31	AO	
1949	1	ZD-P240A	Open Status	DAF Basin Effluent Weir Bypass Gate (TNKP200A) Open	WP-P0005						CP-P31	DI	
1950	1	ZT-P240A	Position Feedback	DAF Basin Effluent Weir Bypass Gate (TNKP200A) Position	WP-P0005						CP-P31	AI	
1951	1	FI-P300A	Flow Indication	Raw Water Flow Rate to DAF TNKP300A	WP-P0002						LCP-H10	AI	
1952	1	FQ-P300A	Flow Pulse	Raw Water Flow Total to DAF TNKP300A	WP-P0002						LCP-H10	DI	
1953	1	LF-P300A	No Fault	DAF TNKP300A Level Fault	WP-P0006						CP-P31	DI	
1954	1	LI-P300A	Level Indication	DAF TNKP300A Level	WP-P0006						CP-P31	AI	
1955	1	MF-P300A	Reverse Limit	DAF Float Reciprocating Scraper FLC-P300A Travelled Reverse	WP-P0006						CP-P31	DI TCP	
1956	1	MM-P300A	Running Status	DAF Float Reciprocating Scraper FLC-P300A Running	WP-P0006						CP-P31	DI TCP	
1957	1	MN-P300A	Start Command	DAF Float Reciprocating Scraper FLC-P300A Start	WP-P0006						CP-P31	DO TCP	
1958	1	MR-P300A	Forward Limit	DAF Float Reciprocating Scraper FLC-P300A Travelled Forward	WP-P0006						CP-P31	DI TCP	
1959	1	SC-P300A	Speed Control Output	DAF Float Reciprocating Scraper FLC-P300A Required Speed	WP-P0006						CP-P31	AO TCP	
1960	1	SI-P300A	Speed Indication	DAF Float Reciprocating Scraper FLC-P300A Speed	WP-P0006						CP-P31	AI TCP	
1961	1	UF-P300A	No Fault	DAF Float Reciprocating Scraper FLC-P300A Fault	WP-P0006						CP-P31	DI TCP	
1962	1	YS-P300A	C/O/H Switch in Computer Position	Raw Water Flow Control to DAF TNKP300A Valve in Computer Mode	WP-P0002						LCP-H10	DI	
1963	1	YS-P300A	C/O/H Switch in Computer Position	DAF Float Reciprocating Scraper FLC-P300A in Computer Mode	WP-P0006						CP-P31	DI TCP	
1964	1	ZB-P300A	Closed Status	Raw Water Flow Control to DAF TNKP300A Valve Closed	WP-P0002						LCP-H10	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
1965	1	ZC-P300A	Position Control Output	Raw Water Flow Control to DAF TNKP300A Valve Required Position	WP-P0002						LCP-H10	AO	
1966	1	ZD-P300A	Open Status	Raw Water Flow Control to DAF TNKP300A Valve Open	WP-P0002						LCP-H10	DI	
1967	1	ZT-P300A	Position Feedback	Raw Water Flow Control to DAF TNKP300A Valve Position	WP-P0002						LCP-H10	AI	
1968	1	MM-P301A	Running Status	DAF Flocculator FLC-P301A Running	WP-P0006						CP-P31	DI TCP	
1969	1	MN-P301A	Start Command	DAF Flocculator FLC-P301A Start	WP-P0006						CP-P31	DO TCP	
1970	1	SC-P301A	Speed Control Output	DAF Flocculator FLC-P301A Required Speed	WP-P0006						CP-P31	AO TCP	
1971	1	SI-P301A	Speed Indication	DAF Flocculator FLC-P301A Speed	WP-P0006						CP-P31	AI TCP	
1972	1	UF-P301A	No Fault	DAF Flocculator FLC-P301A Fault	WP-P0006						CP-P31	DI TCP	
1973	1	YS-P301A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P301A in Computer Mode	WP-P0006						CP-P31	DI TCP	
1974	1	MM-P302A	Running Status	DAF Flocculator FLC-P302A Running	WP-P0006						CP-P31	DI TCP	
1975	1	MN-P302A	Start Command	DAF Flocculator FLC-P302A Start	WP-P0006						CP-P31	DO TCP	
1976	1	SC-P302A	Speed Control Output	DAF Flocculator FLC-P302A Required Speed	WP-P0006						CP-P31	AO TCP	
1977	1	SI-P302A	Speed Indication	DAF Flocculator FLC-P302A Speed	WP-P0006						CP-P31	AI TCP	
1978	1	UF-P302A	No Fault	DAF Flocculator FLC-P302A Fault	WP-P0006						CP-P31	DI TCP	
1979	1	YS-P302A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P302A in Computer Mode	WP-P0006						CP-P31	DI TCP	
1980	1	MM-P303A	Running Status	DAF Flocculator FLC-P303A Running	WP-P0006						CP-P31	DI TCP	
1981	1	MN-P303A	Start Command	DAF Flocculator FLC-P303A Start	WP-P0006						CP-P31	DO TCP	
1982	1	SC-P303A	Speed Control Output	DAF Flocculator FLC-P303A Required Speed	WP-P0006						CP-P31	AO TCP	
1983	1	SI-P303A	Speed Indication	DAF Flocculator FLC-P303A Speed	WP-P0006						CP-P31	AI TCP	
1984	1	UF-P303A	No Fault	DAF Flocculator FLC-P303A Fault	WP-P0006						CP-P31	DI TCP	
1985	1	YS-P303A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P303A in Computer Mode	WP-P0006						CP-P31	DI TCP	
1986	1	MM-P304A	Running Status	DAF Flocculator FLC-P304A Running	WP-P0006						CP-P31	DI TCP	
1987	1	MN-P304A	Start Command	DAF Flocculator FLC-P304A Start	WP-P0006						CP-P31	DO TCP	
1988	1	SC-P304A	Speed Control Output	DAF Flocculator FLC-P304A Required Speed	WP-P0006						CP-P31	AO TCP	
1989	1	SI-P304A	Speed Indication	DAF Flocculator FLC-P304A Speed	WP-P0006						CP-P31	AI TCP	
1990	1	UF-P304A	No Fault	DAF Flocculator FLC-P304A Fault	WP-P0006						CP-P31	DI TCP	
1991	1	YS-P304A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P304A in Computer Mode	WP-P0006						CP-P31	DI TCP	
1992	1	MM-P305A	Running Status	DAF Flocculator FLC-P305A Running	WP-P0006						CP-P31	DI TCP	
1993	1	MN-P305A	Start Command	DAF Flocculator FLC-P305A Start	WP-P0006						CP-P31	DO TCP	
1994	1	SC-P305A	Speed Control Output	DAF Flocculator FLC-P305A Required Speed	WP-P0006						CP-P31	AO TCP	
1995	1	SI-P305A	Speed Indication	DAF Flocculator FLC-P305A Speed	WP-P0006						CP-P31	AI TCP	
1996	1	UF-P305A	No Fault	DAF Flocculator FLC-P305A Fault	WP-P0006						CP-P31	DI TCP	
1997	1	YS-P305A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P305A in Computer Mode	WP-P0006						CP-P31	DI TCP	
1998	1	MM-P306A	Running Status	DAF Flocculator FLC-P306A Running	WP-P0006						CP-P31	DI TCP	
1999	1	MN-P306A	Start Command	DAF Flocculator FLC-P306A Start	WP-P0006						CP-P31	DO TCP	
2000	1	SC-P306A	Speed Control Output	DAF Flocculator FLC-P306A Required Speed	WP-P0006						CP-P31	AO TCP	
2001	1	SI-P306A	Speed Indication	DAF Flocculator FLC-P306A Speed	WP-P0006						CP-P31	AI TCP	
2002	1	UF-P306A	No Fault	DAF Flocculator FLC-P306A Fault	WP-P0006						CP-P31	DI TCP	
2003	1	YS-P306A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P306A in Computer Mode	WP-P0006						CP-P31	DI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
2004	1	YS-P310A	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P300A Valve in Computer Mode	WP-P0006						CP-P31	DI	
2005	1	YS-P310B	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P300A Valve in Computer Mode	WP-P0006						CP-P31	DI	
2006	1	ZB-P310A	Closed Status	Air Saturated Water to DAF TNK-P300A Valve Closed	WP-P0006						CP-P31	DI	
2007	1	YB-P310A	Close Command	Air Saturated Water to DAF TNK-P300A Valve Close	WP-P0006						CP-P31	DO	
2008	1	ZD-P310A	Open Status	Air Saturated Water to DAF TNK-P300A Valve Open	WP-P0006						CP-P31	DI	
2009	1	YD-P310A	Open Command	Air Saturated Water to DAF TNK-P300A Valve Open	WP-P0006						CP-P31	DO	
2010	1	ZB-P310B	Closed Status	Air Saturated Water to DAF TNK-P300A Valve Closed	WP-P0006						CP-P31	DI	
2011	1	YB-P310B	Close Command	Air Saturated Water to DAF TNK-P300A Valve Close	WP-P0006						CP-P31	DO	
2012	1	ZD-P310B	Open Status	Air Saturated Water to DAF TNK-P300A Valve Open	WP-P0006						CP-P31	DI	
2013	1	YD-P310B	Open Command	Air Saturated Water to DAF TNK-P300A Valve Open	WP-P0006						CP-P31	DO	
2014	1	YD-P320A	Solenoid Actuator Output	DAF Basin Headwall Spray Wash Header Valve (TNKP300A) Open	WP-P0006						CP-P31	DO	
2015	1	YD-P320B	Solenoid Actuator Output	DAF Basin Float Trough Spray Wash Valve (TNKP300A) Open	WP-P0006						CP-P31	DO	
2016	1	YS-P340A	C/O/H Switch in Computer Position	DAF Basin Effluent Weir Bypass Gate (TNKP300A) in Computer Mode	WP-P0006						CP-P31	DI	
2017	1	ZB-P340A	Closed Status	DAF Basin Effluent Weir Bypass Gate (TNKP300A) Closed	WP-P0006						CP-P31	DI	
2018	1	ZC-P340A	Position Control Output	DAF Basin Effluent Weir Bypass Gate (TNKP300A) Required Position	WP-P0006						CP-P31	AO	
2019	1	ZD-P340A	Open Status	DAF Basin Effluent Weir Bypass Gate (TNKP300A) Open	WP-P0006						CP-P31	DI	
2020	1	ZT-P340A	Position Feedback	DAF Basin Effluent Weir Bypass Gate (TNKP300A) Position	WP-P0006						CP-P31	AI	
2021	1	FI-P400A	Flow Indication	Raw Water Flow Rate to DAF TNKP400A	WP-P0002						LCP-H10	AI	
2022	1	FQ-P400A	Flow Pulse	Raw Water Flow Total to DAF TNKP400A	WP-P0002						LCP-H10	DI	
2023	1	LF-P400A	No Fault	DAF TNKP400A Level Fault	WP-P0007						CP-P31	DI	
2024	1	LI-P400A	Level Indication	DAF TNKP400A Level	WP-P0007						CP-P31	AI	
2025	1	MF-P400A	Reverse Limit	DAF Float Reciprocating Scraper FLC-P400A Travelled Reverse	WP-P0007						CP-P31	DI TCP	
2026	1	MM-P400A	Running Status	DAF Float Reciprocating Scraper FLC-P400A Running	WP-P0007						CP-P31	DI TCP	
2027	1	MN-P400A	Start Command	DAF Float Reciprocating Scraper FLC-P400A Start	WP-P0007						CP-P31	DO TCP	
2028	1	MR-P400A	Forward Limit	DAF Float Reciprocating Scraper FLC-P400A Travelled Forward	WP-P0007						CP-P31	DI TCP	
2029	1	SC-P400A	Speed Control Output	DAF Float Reciprocating Scraper FLC-P400A Required Speed	WP-P0007						CP-P31	AO TCP	
2030	1	SI-P400A	Speed Indication	DAF Float Reciprocating Scraper FLC-P400A Speed	WP-P0007						CP-P31	AI TCP	
2031	1	UF-P400A	No Fault	DAF Float Reciprocating Scraper FLC-P400A Fault	WP-P0007						CP-P31	DI TCP	
2032	1	YS-P400A	C/O/H Switch in Computer Position	Raw Water Flow Control to DAF TNKP400A Valve in Computer Mode	WP-P0002						LCP-H10	DI	
2033	1	YS-P400A	C/O/H Switch in Computer Position	DAF Float Reciprocating Scraper FLC-P400A in Computer Mode	WP-P0007						CP-P31	DI TCP	
2034	1	ZB-P400A	Closed Status	Raw Water Flow Control to DAF TNKP400A Valve Closed	WP-P0002						LCP-H10	DI	
2035	1	ZC-P400A	Position Control Output	Raw Water Flow Control to DAF TNKP400A Valve Required Position	WP-P0002						LCP-H10	AO	
2036	1	ZD-P400A	Open Status	Raw Water Flow Control to DAF TNKP400A Valve Open	WP-P0002						LCP-H10	DI	
2037	1	ZT-P400A	Position Feedback	Raw Water Flow Control to DAF TNKP400A Valve Position	WP-P0002						LCP-H10	AI	
2038	1	MM-P401A	Running Status	DAF Flocculator FLC-P401A Running	WP-P0007						CP-P31	DI TCP	
2039	1	MN-P401A	Start Command	DAF Flocculator FLC-P401A Start	WP-P0007						CP-P31	DO TCP	
2040	1	SC-P401A	Speed Control Output	DAF Flocculator FLC-P401A Required Speed	WP-P0007						CP-P31	AO TCP	
2041	1	SI-P401A	Speed Indication	DAF Flocculator FLC-P401A Speed	WP-P0007						CP-P31	AI TCP	
2042	1	UF-P401A	No Fault	DAF Flocculator FLC-P401A Fault	WP-P0007						CP-P31	DI TCP	
2043	1	YS-P401A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P401A in Computer Mode	WP-P0007						CP-P31	DI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
2044	1	MM-P402A	Running Status	DAF Flocculator FLC-P402A Running	WP-P0007						CP-P31	DI TCP	
2045	1	MN-P402A	Start Command	DAF Flocculator FLC-P402A Start	WP-P0007						CP-P31	DO TCP	
2046	1	SC-P402A	Speed Control Output	DAF Flocculator FLC-P402A Required Speed	WP-P0007						CP-P31	AO TCP	
2047	1	SI-P402A	Speed Indication	DAF Flocculator FLC-P402A Speed	WP-P0007						CP-P31	AI TCP	
2048	1	UF-P402A	No Fault	DAF Flocculator FLC-P402A Fault	WP-P0007						CP-P31	DI TCP	
2049	1	YS-P402A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P402A in Computer Mode	WP-P0007						CP-P31	DI TCP	
2050	1	MM-P403A	Running Status	DAF Flocculator FLC-P403A Running	WP-P0007						CP-P31	DI TCP	
2051	1	MN-P403A	Start Command	DAF Flocculator FLC-P403A Start	WP-P0007						CP-P31	DO TCP	
2052	1	SC-P403A	Speed Control Output	DAF Flocculator FLC-P403A Required Speed	WP-P0007						CP-P31	AO TCP	
2053	1	SI-P403A	Speed Indication	DAF Flocculator FLC-P403A Speed	WP-P0007						CP-P31	AI TCP	
2054	1	UF-P403A	No Fault	DAF Flocculator FLC-P403A Fault	WP-P0007						CP-P31	DI TCP	
2055	1	YS-P403A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P403A in Computer Mode	WP-P0007						CP-P31	DI TCP	
2056	1	MM-P404A	Running Status	DAF Flocculator FLC-P404A Running	WP-P0007						CP-P31	DI TCP	
2057	1	MN-P404A	Start Command	DAF Flocculator FLC-P404A Start	WP-P0007						CP-P31	DO TCP	
2058	1	SC-P404A	Speed Control Output	DAF Flocculator FLC-P404A Required Speed	WP-P0007						CP-P31	AO TCP	
2059	1	SI-P404A	Speed Indication	DAF Flocculator FLC-P404A Speed	WP-P0007						CP-P31	AI TCP	
2060	1	UF-P404A	No Fault	DAF Flocculator FLC-P404A Fault	WP-P0007						CP-P31	DI TCP	
2061	1	YS-P404A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P404A in Computer Mode	WP-P0007						CP-P31	DI TCP	
2062	1	MM-P405A	Running Status	DAF Flocculator FLC-P405A Running	WP-P0007						CP-P31	DI TCP	
2063	1	MN-P405A	Start Command	DAF Flocculator FLC-P405A Start	WP-P0007						CP-P31	DO TCP	
2064	1	SC-P405A	Speed Control Output	DAF Flocculator FLC-P405A Required Speed	WP-P0007						CP-P31	AO TCP	
2065	1	SI-P405A	Speed Indication	DAF Flocculator FLC-P405A Speed	WP-P0007						CP-P31	AI TCP	
2066	1	UF-P405A	No Fault	DAF Flocculator FLC-P405A Fault	WP-P0007						CP-P31	DI TCP	
2067	1	YS-P405A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P405A in Computer Mode	WP-P0007						CP-P31	DI TCP	
2068	1	MM-P406A	Running Status	DAF Flocculator FLC-P406A Running	WP-P0007						CP-P31	DI TCP	
2069	1	MN-P406A	Start Command	DAF Flocculator FLC-P406A Start	WP-P0007						CP-P31	DO TCP	
2070	1	SC-P406A	Speed Control Output	DAF Flocculator FLC-P406A Required Speed	WP-P0007						CP-P31	AO TCP	
2071	1	SI-P406A	Speed Indication	DAF Flocculator FLC-P406A Speed	WP-P0007						CP-P31	AI TCP	
2072	1	UF-P406A	No Fault	DAF Flocculator FLC-P406A Fault	WP-P0007						CP-P31	DI TCP	
2073	1	YS-P406A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P406A in Computer Mode	WP-P0007						CP-P31	DI TCP	
2074	1	YS-P410A	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P400A Valve in Computer Mode	WP-P0007						CP-P31	DI	
2075	1	YS-P410B	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P400A Valve in Computer Mode	WP-P0007						CP-P31	DI	
2076	1	ZB-P410A	Closed Status	Air Saturated Water to DAF TNK-P400A Valve Closed	WP-P0007						CP-P31	DI	
2077	1	YB-P410A	Close Command	Air Saturated Water to DAF TNK-P400A Valve Close	WP-P0007						CP-P31	DO	
2078	1	ZD-P410A	Open Status	Air Saturated Water to DAF TNK-P400A Valve Open	WP-P0007						CP-P31	DI	
2079	1	YD-P410A	Open Command	Air Saturated Water to DAF TNK-P400A Valve Open	WP-P0007						CP-P31	DO	
2080	1	ZB-P410B	Closed Status	Air Saturated Water to DAF TNK-P400A Valve Closed	WP-P0007						CP-P31	DI	
2081	1	YB-P410B	Close Command	Air Saturated Water to DAF TNK-P400A Valve Close	WP-P0007						CP-P31	DO	
2082	1	ZD-P410B	Open Status	Air Saturated Water to DAF TNK-P400A Valve Open	WP-P0007						CP-P31	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

City of Winnipeg Water Treatment Program
 Supply and Installation of Water Treatment Plant Process Mechanical and Electrical
 Bid Opportunity No. 742-2005 Addendum 6

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
2083	1	YD-P410B	Open Command	Air Saturated Water to DAF TNK-P400A Valve Open	WP-P0007						CP-P31	DO	
2084	1	YD-P420A	Solenoid Actuator Output	DAF Basin Headwall Spray Wash Header Valve (TNKP400A) Open	WP-P0007						CP-P31	DO	
2085	1	YD-P420B	Solenoid Actuator Output	DAF Basin Float Trough Spray Wash Valve (TNKP400A) Open	WP-P0007						CP-P31	DO	
2086	1	YS-P440A	C/O/H Switch in Computer Position	DAF Basin Effluent Weir Bypass Gate (TNKP400A) in Computer Mode	WP-P0007						CP-P31	DI	
2087	1	ZB-P440A	Closed Status	DAF Basin Effluent Weir Bypass Gate (TNKP400A) Closed	WP-P0007						CP-P31	DI	
2088	1	ZC-P440A	Position Control Output	DAF Basin Effluent Weir Bypass Gate (TNKP400A) Required Position	WP-P0007						CP-P31	AO	
2089	1	ZD-P440A	Open Status	DAF Basin Effluent Weir Bypass Gate (TNKP400A) Open	WP-P0007						CP-P31	DI	
2090	1	ZT-P440A	Position Feedback	DAF Basin Effluent Weir Bypass Gate (TNKP400A) Position	WP-P0007						CP-P31	AI	
2091	1	FI-P500A	Flow Indication	Raw Water Flow Rate to DAF TNKP500A	WP-P0003						LCP-H10	AI	
2092	1	FQ-P500A	Flow Pulse	Raw Water Flow Total to DAF TNKP500A	WP-P0003						LCP-H10	DI	
2093	1	LF-P500A	No Fault	DAF TNKP500A Level Fault	WP-P0008						CP-P32	DI	
2094	1	LI-P500A	Level Indication	DAF TNKP500A Level	WP-P0008						CP-P32	AI	
2095	1	MF-P500A	Reverse Limit	DAF Float Reciprocating Scraper FLC-P500A Travelled Reverse	WP-P0008						CP-P32	DI TCP	
2096	1	MM-P500A	Running Status	DAF Float Reciprocating Scraper FLC-P500A Running	WP-P0008						CP-P32	DI TCP	
2097	1	MN-P500A	Start Command	DAF Float Reciprocating Scraper FLC-P500A Start	WP-P0008						CP-P32	DO TCP	
2098	1	MR-P500A	Forward Limit	DAF Float Reciprocating Scraper FLC-P500A Travelled Forward	WP-P0008						CP-P32	DI TCP	
2099	1	SC-P500A	Speed Control Output	DAF Float Reciprocating Scraper FLC-P500A Required Speed	WP-P0008						CP-P32	AO TCP	
2100	1	SI-P500A	Speed Indication	DAF Float Reciprocating Scraper FLC-P500A Speed	WP-P0008						CP-P32	AI TCP	
2101	1	UF-P500A	No Fault	DAF Float Reciprocating Scraper FLC-P500A Fault	WP-P0008						CP-P32	DI TCP	
2102	1	YS-P500A	C/O/H Switch in Computer Position	Raw Water Flow Control to DAF TNKP500A Valve in Computer Mode	WP-P0003						LCP-H10	DI	
2103	1	YS-P500A	C/O/H Switch in Computer Position	DAF Float Reciprocating Scraper FLC-P500A in Computer Mode	WP-P0008						CP-P32	DI TCP	
2104	1	ZB-P500A	Closed Status	Raw Water Flow Control to DAF TNKP500A Valve Closed	WP-P0003						LCP-H10	DI	
2105	1	ZC-P500A	Position Control Output	Raw Water Flow Control to DAF TNKP500A Valve Required Position	WP-P0003						LCP-H10	AO	
2106	1	ZD-P500A	Open Status	Raw Water Flow Control to DAF TNKP500A Valve Open	WP-P0003						LCP-H10	DI	
2107	1	ZT-P500A	Position Feedback	Raw Water Flow Control to DAF TNKP500A Valve Position	WP-P0003						LCP-H10	AI	
2108	1	MM-P501A	Running Status	DAF Flocculator FLC-P501A Running	WP-P0008						CP-P32	DI TCP	
2109	1	MN-P501A	Start Command	DAF Flocculator FLC-P501A Start	WP-P0008						CP-P32	DO TCP	
2110	1	SC-P501A	Speed Control Output	DAF Flocculator FLC-P501A Required Speed	WP-P0008						CP-P32	AO TCP	
2111	1	SI-P501A	Speed Indication	DAF Flocculator FLC-P501A Speed	WP-P0008						CP-P32	AI TCP	
2112	1	UF-P501A	No Fault	DAF Flocculator FLC-P501A Fault	WP-P0008						CP-P32	DI TCP	
2113	1	YS-P501A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P501A in Computer Mode	WP-P0008						CP-P32	DI TCP	
2114	1	MM-P502A	Running Status	DAF Flocculator FLC-P502A Running	WP-P0008						CP-P32	DI TCP	
2115	1	MN-P502A	Start Command	DAF Flocculator FLC-P502A Start	WP-P0008						CP-P32	DO TCP	
2116	1	SC-P502A	Speed Control Output	DAF Flocculator FLC-P502A Required Speed	WP-P0008						CP-P32	AO TCP	
2117	1	SI-P502A	Speed Indication	DAF Flocculator FLC-P502A Speed	WP-P0008						CP-P32	AI TCP	
2118	1	UF-P502A	No Fault	DAF Flocculator FLC-P502A Fault	WP-P0008						CP-P32	DI TCP	
2119	1	YS-P502A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P502A in Computer Mode	WP-P0008						CP-P32	DI TCP	
2120	1	MM-P503A	Running Status	DAF Flocculator FLC-P503A Running	WP-P0008						CP-P32	DI TCP	
2121	1	MN-P503A	Start Command	DAF Flocculator FLC-P503A Start	WP-P0008						CP-P32	DO TCP	
2122	1	SC-P503A	Speed Control Output	DAF Flocculator FLC-P503A Required Speed	WP-P0008						CP-P32	AO TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
2123	1	SI-P503A	Speed Indication	DAF Flocculator FLC-P503A Speed	WP-P0008						CP-P32	AI TCP	
2124	1	UF-P503A	No Fault	DAF Flocculator FLC-P503A Fault	WP-P0008						CP-P32	DI TCP	
2125	1	YS-P503A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P503A in Computer Mode	WP-P0008						CP-P32	DI TCP	
2126	1	MM-P504A	Running Status	DAF Flocculator FLC-P504A Running	WP-P0008						CP-P32	DI TCP	
2127	1	MN-P504A	Start Command	DAF Flocculator FLC-P504A Start	WP-P0008						CP-P32	DO TCP	
2128	1	SC-P504A	Speed Control Output	DAF Flocculator FLC-P504A Required Speed	WP-P0008						CP-P32	AO TCP	
2129	1	SI-P504A	Speed Indication	DAF Flocculator FLC-P504A Speed	WP-P0008						CP-P32	AI TCP	
2130	1	UF-P504A	No Fault	DAF Flocculator FLC-P504A Fault	WP-P0008						CP-P32	DI TCP	
2131	1	YS-P504A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P504A in Computer Mode	WP-P0008						CP-P32	DI TCP	
2132	1	MM-P505A	Running Status	DAF Flocculator FLC-P505A Running	WP-P0008						CP-P32	DI TCP	
2133	1	MN-P505A	Start Command	DAF Flocculator FLC-P505A Start	WP-P0008						CP-P32	DO TCP	
2134	1	SC-P505A	Speed Control Output	DAF Flocculator FLC-P505A Required Speed	WP-P0008						CP-P32	AO TCP	
2135	1	SI-P505A	Speed Indication	DAF Flocculator FLC-P505A Speed	WP-P0008						CP-P32	AI TCP	
2136	1	UF-P505A	No Fault	DAF Flocculator FLC-P505A Fault	WP-P0008						CP-P32	DI TCP	
2137	1	YS-P505A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P505A in Computer Mode	WP-P0008						CP-P32	DI TCP	
2138	1	MM-P506A	Running Status	DAF Flocculator FLC-P506A Running	WP-P0008						CP-P32	DI TCP	
2139	1	MN-P506A	Start Command	DAF Flocculator FLC-P506A Start	WP-P0008						CP-P32	DO TCP	
2140	1	SC-P506A	Speed Control Output	DAF Flocculator FLC-P506A Required Speed	WP-P0008						CP-P32	AO TCP	
2141	1	SI-P506A	Speed Indication	DAF Flocculator FLC-P506A Speed	WP-P0008						CP-P32	AI TCP	
2142	1	UF-P506A	No Fault	DAF Flocculator FLC-P506A Fault	WP-P0008						CP-P32	DI TCP	
2143	1	YS-P506A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P506A in Computer Mode	WP-P0008						CP-P32	DI TCP	
2144	1	YS-P510A	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P500A Valve in Computer Mode	WP-P0008						CP-P32	DI	
2145	1	YS-P510B	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P500A Valve in Computer Mode	WP-P0008						CP-P32	DI	
2146	1	ZB-P510A	Closed Status	Air Saturated Water to DAF TNK-P500A Valve Closed	WP-P0008						CP-P32	DI	
2147	1	YB-P510A	Close Command	Air Saturated Water to DAF TNK-P500A Valve Required Position	WP-P0008						CP-P32	DO	
2148	1	ZD-P510A	Open Status	Air Saturated Water to DAF TNK-P500A Valve Open	WP-P0008						CP-P32	DI	
2149	1	YD-P510A	Open Command	Air Saturated Water to DAF TNK-P500A Valve Position	WP-P0008						CP-P32	DO	
2150	1	ZB-P510B	Closed Status	Air Saturated Water to DAF TNK-P500A Valve Closed	WP-P0008						CP-P32	DI	
2151	1	YB-P510B	Close Command	Air Saturated Water to DAF TNK-P500A Valve Required Position	WP-P0008						CP-P32	DO	
2152	1	ZD-P510B	Open Status	Air Saturated Water to DAF TNK-P500A Valve Open	WP-P0008						CP-P32	DI	
2153	1	YD-P510B	Open Command	Air Saturated Water to DAF TNK-P500A Valve Position	WP-P0008						CP-P32	DO	
2154	1	YD-P520A	Solenoid Actuator Output	DAF Basin Headwall Spray Wash Header Valve (TNKP500A) Open	WP-P0008						CP-P32	DO	
2155	1	YD-P520B	Solenoid Actuator Output	DAF Basin Float Trough Spray Wash Valve (TNKP500A) Open	WP-P0008						CP-P32	DO	
2156	1	YS-P540A	C/O/H Switch in Computer Position	DAF Basin Effluent Weir Bypass Gate (TNKP500A) in Computer Mode	WP-P0008						CP-P32	DI	
2157	1	ZB-P540A	Closed Status	DAF Basin Effluent Weir Bypass Gate (TNKP500A) Closed	WP-P0008						CP-P32	DI	
2158	1	ZC-P540A	Position Control Output	DAF Basin Effluent Weir Bypass Gate (TNKP500A) Required Position	WP-P0008						CP-P32	AO	
2159	1	ZD-P540A	Open Status	DAF Basin Effluent Weir Bypass Gate (TNKP500A) Open	WP-P0008						CP-P32	DI	
2160	1	ZT-P540A	Position Feedback	DAF Basin Effluent Weir Bypass Gate (TNKP500A) Position	WP-P0008						CP-P32	AI	
2161	1	FI-P600A	Flow Indication	Raw Water Flow Rate to DAF TNKP600A	WP-P0003						LCP-H10	AI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
2162	1	FO-P600A	Flow Pulse	Raw Water Flow Total to DAF TNKP600A	WP-P0003						LCP-H10	DI	
2163	1	LF-P600A	No Fault	DAF TNKP600A Level Fault	WP-P0009						CP-P32	DI	
2164	1	LI-P600A	Level Indication	DAF TNKP600A Level	WP-P0009						CP-P32	AI	
2165	1	MF-P600A	Reverse Limit	DAF Float Reciprocating Scraper FLC-P600A Travelled Reverse	WP-P0009						CP-P32	DI TCP	
2166	1	MM-P600A	Running Status	DAF Float Reciprocating Scraper FLC-P600A Running	WP-P0009						CP-P32	DI TCP	
2167	1	MN-P600A	Start Command	DAF Float Reciprocating Scraper FLC-P600A Start	WP-P0009						CP-P32	DO TCP	
2168	1	MR-P600A	Forward Limit	DAF Float Reciprocating Scraper FLC-P600A Travelled Forward	WP-P0009						CP-P32	DI TCP	
2169	1	SC-P600A	Speed Control Output	DAF Float Reciprocating Scraper FLC-P600A Required Speed	WP-P0009						CP-P32	AO TCP	
2170	1	SI-P600A	Speed Indication	DAF Float Reciprocating Scraper FLC-P600A Speed	WP-P0009						CP-P32	AI TCP	
2171	1	UF-P600A	No Fault	DAF Float Reciprocating Scraper FLC-P600A Fault	WP-P0009						CP-P32	DI TCP	
2172	1	YS-P600A	C/O/H Switch in Computer Position	Raw Water Flow Control to DAF TNKP600A Valve in Computer Mode	WP-P0003						LCP-H10	DI	
2173	1	YS-P600A	C/O/H Switch in Computer Position	DAF Float Reciprocating Scraper FLC-P600A in Computer Mode	WP-P0009						CP-P32	DI TCP	
2174	1	ZB-P600A	Closed Status	Raw Water Flow Control to DAF TNKP600A Valve Closed	WP-P0003						LCP-H10	DI	
2175	1	ZC-P600A	Position Control Output	Raw Water Flow Control to DAF TNKP600A Valve Required Position	WP-P0003						LCP-H10	AO	
2176	1	ZD-P600A	Open Status	Raw Water Flow Control to DAF TNKP600A Valve Open	WP-P0003						LCP-H10	DI	
2177	1	ZT-P600A	Position Feedback	Raw Water Flow Control to DAF TNKP600A Valve Position	WP-P0003						LCP-H10	AI	
2178	1	MM-P601A	Running Status	DAF Flocculator FLC-P601A Running	WP-P0009						CP-P32	DI TCP	
2179	1	MN-P601A	Start Command	DAF Flocculator FLC-P601A Start	WP-P0009						CP-P32	DO TCP	
2180	1	SC-P601A	Speed Control Output	DAF Flocculator FLC-P601A Required Speed	WP-P0009						CP-P32	AO TCP	
2181	1	SI-P601A	Speed Indication	DAF Flocculator FLC-P601A Speed	WP-P0009						CP-P32	AI TCP	
2182	1	UF-P601A	No Fault	DAF Flocculator FLC-P601A Fault	WP-P0009						CP-P32	DI TCP	
2183	1	YS-P601A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P601A in Computer Mode	WP-P0009						CP-P32	DI TCP	
2184	1	MM-P602A	Running Status	DAF Flocculator FLC-P602A Running	WP-P0009						CP-P32	DI TCP	
2185	1	MN-P602A	Start Command	DAF Flocculator FLC-P602A Start	WP-P0009						CP-P32	DO TCP	
2186	1	SC-P602A	Speed Control Output	DAF Flocculator FLC-P602A Required Speed	WP-P0009						CP-P32	AO TCP	
2187	1	SI-P602A	Speed Indication	DAF Flocculator FLC-P602A Speed	WP-P0009						CP-P32	AI TCP	
2188	1	UF-P602A	No Fault	DAF Flocculator FLC-P602A Fault	WP-P0009						CP-P32	DI TCP	
2189	1	YS-P602A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P602A in Computer Mode	WP-P0009						CP-P32	DI TCP	
2190	1	MM-P603A	Running Status	DAF Flocculator FLC-P603A Running	WP-P0009						CP-P32	DI TCP	
2191	1	MN-P603A	Start Command	DAF Flocculator FLC-P603A Start	WP-P0009						CP-P32	DO TCP	
2192	1	SC-P603A	Speed Control Output	DAF Flocculator FLC-P603A Required Speed	WP-P0009						CP-P32	AO TCP	
2193	1	SI-P603A	Speed Indication	DAF Flocculator FLC-P603A Speed	WP-P0009						CP-P32	AI TCP	
2194	1	UF-P603A	No Fault	DAF Flocculator FLC-P603A Fault	WP-P0009						CP-P32	DI TCP	
2195	1	YS-P603A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P603A in Computer Mode	WP-P0009						CP-P32	DI TCP	
2196	1	MM-P604A	Running Status	DAF Flocculator FLC-P604A Running	WP-P0009						CP-P32	DI TCP	
2197	1	MN-P604A	Start Command	DAF Flocculator FLC-P604A Start	WP-P0009						CP-P32	DO TCP	
2198	1	SC-P604A	Speed Control Output	DAF Flocculator FLC-P604A Required Speed	WP-P0009						CP-P32	AO TCP	
2199	1	SI-P604A	Speed Indication	DAF Flocculator FLC-P604A Speed	WP-P0009						CP-P32	AI TCP	
2200	1	UF-P604A	No Fault	DAF Flocculator FLC-P604A Fault	WP-P0009						CP-P32	DI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
2201	1	YS-P604A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P604A in Computer Mode	WP-P0009						CP-P32	DI TCP	
2202	1	MM-P605A	Running Status	DAF Flocculator FLC-P605A Running	WP-P0009						CP-P32	DI TCP	
2203	1	MN-P605A	Start Command	DAF Flocculator FLC-P605A Start	WP-P0009						CP-P32	DO TCP	
2204	1	SC-P605A	Speed Control Output	DAF Flocculator FLC-P605A Required Speed	WP-P0009						CP-P32	AO TCP	
2205	1	SI-P605A	Speed Indication	DAF Flocculator FLC-P605A Speed	WP-P0009						CP-P32	AI TCP	
2206	1	UF-P605A	No Fault	DAF Flocculator FLC-P605A Fault	WP-P0009						CP-P32	DI TCP	
2207	1	YS-P605A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P605A in Computer Mode	WP-P0009						CP-P32	DI TCP	
2208	1	MM-P606A	Running Status	DAF Flocculator FLC-P606A Running	WP-P0009						CP-P32	DI TCP	
2209	1	MN-P606A	Start Command	DAF Flocculator FLC-P606A Start	WP-P0009						CP-P32	DO TCP	
2210	1	SC-P606A	Speed Control Output	DAF Flocculator FLC-P606A Required Speed	WP-P0009						CP-P32	AO TCP	
2211	1	SI-P606A	Speed Indication	DAF Flocculator FLC-P606A Speed	WP-P0009						CP-P32	AI TCP	
2212	1	UF-P606A	No Fault	DAF Flocculator FLC-P606A Fault	WP-P0009						CP-P32	DI TCP	
2213	1	YS-P606A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P606A in Computer Mode	WP-P0009						CP-P32	DI TCP	
2214	1	YS-P610A	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P600A Valve in Computer Mode	WP-P0009						CP-P32	DI	
2215	1	YS-P610B	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P600A Valve in Computer Mode	WP-P0009						CP-P32	DI	
2216	1	ZB-P610A	Closed Status	Air Saturated Water to DAF TNK-P600A Valve Closed	WP-P0009						CP-P32	DI	
2217	1	YB-P610A	Close Command	Air Saturated Water to DAF TNK-P600A Valve Close	WP-P0009						CP-P32	DO	
2218	1	ZD-P610A	Open Status	Air Saturated Water to DAF TNK-P600A Valve Open	WP-P0009						CP-P32	DI	
2219	1	YD-P610A	Open Command	Air Saturated Water to DAF TNK-P600A Valve Open	WP-P0009						CP-P32	DO	
2220	1	ZB-P610B	Closed Status	Air Saturated Water to DAF TNK-P600A Valve Closed	WP-P0009						CP-P32	DI	
2221	1	YB-P610B	Close Command	Air Saturated Water to DAF TNK-P600A Valve Close	WP-P0009						CP-P32	DO	
2222	1	ZD-P610B	Open Status	Air Saturated Water to DAF TNK-P600A Valve Open	WP-P0009						CP-P32	DI	
2223	1	YD-P610B	Open Command	Air Saturated Water to DAF TNK-P600A Valve Open	WP-P0009						CP-P32	DO	
2224	1	YD-P620A	Solenoid Actuator Output	DAF Basin Headwall Spray Wash Header Valve (TNKP600A) Open	WP-P0009						CP-P32	DO	
2225	1	YD-P620B	Solenoid Actuator Output	DAF Basin Float Trough Spray Wash Valve (TNKP600A) Open	WP-P0009						CP-P32	DO	
2226	1	YS-P640A	C/O/H Switch in Computer Position	DAF Basin Effluent Weir Bypass Gate (TNKP600A) in Computer Mode	WP-P0009						CP-P32	DI	
2227	1	ZB-P640A	Closed Status	DAF Basin Effluent Weir Bypass Gate (TNKP600A) Closed	WP-P0009						CP-P32	DI	
2228	1	ZC-P640A	Position Control Output	DAF Basin Effluent Weir Bypass Gate (TNKP600A) Required Position	WP-P0009						CP-P32	AO	
2229	1	ZD-P640A	Open Status	DAF Basin Effluent Weir Bypass Gate (TNKP600A) Open	WP-P0009						CP-P32	DI	
2230	1	ZT-P640A	Position Feedback	DAF Basin Effluent Weir Bypass Gate (TNKP600A) Position	WP-P0009						CP-P32	AI	
2231	1	FI-P700A	Flow Indication	Raw Water Flow Rate to DAF TNKP700A	WP-P0003						LCP-H10	AI	
2232	1	FQ-P700A	Flow Pulse	Raw Water Flow Total to DAF TNKP700A	WP-P0003						LCP-H10	DI	
2233	1	LF-P700A	No Fault	DAF TNKP700A Level Fault	WP-P0010						CP-P32	DI	
2234	1	LI-P700A	Level Indication	DAF TNKP700A Level	WP-P0010						CP-P32	AI	
2235	1	MF-P700A	Reverse Limit	DAF Float Reciprocating Scraper FLC-P700A Travelled Reverse	WP-P0010						CP-P32	DI TCP	
2236	1	MM-P700A	Running Status	DAF Float Reciprocating Scraper FLC-P700A Running	WP-P0010						CP-P32	DI TCP	
2237	1	MN-P700A	Start Command	DAF Float Reciprocating Scraper FLC-P700A Start	WP-P0010						CP-P32	DO TCP	
2238	1	MR-P700A	Forward Limit	DAF Float Reciprocating Scraper FLC-P700A Travelled Forward	WP-P0010						CP-P32	DI TCP	
2239	1	SC-P700A	Speed Control Output	DAF Float Reciprocating Scraper FLC-P700A Required Speed	WP-P0010						CP-P32	AO TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
						ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
2240	1	SI-P700A	Speed Indication	DAF Float Reciprocating Scraper FLC-P700A Speed	WP-P0010						CP-P32	AI TCP	
2241	1	UF-P700A	No Fault	DAF Float Reciprocating Scraper FLC-P700A Fault	WP-P0010						CP-P32	DI TCP	
2242	1	YS-P700A	C/O/H Switch in Computer Position	Raw Water Flow Control to DAF TNKP700A Valve in Computer Mode	WP-P0003						LCP-H10	DI	
2243	1	YS-P700A	C/O/H Switch in Computer Position	DAF Float Reciprocating Scraper FLC-P700A in Computer Mode	WP-P0010						CP-P32	DI TCP	
2244	1	ZB-P700A	Closed Status	Raw Water Flow Control to DAF TNKP700A Valve Closed	WP-P0003						LCP-H10	DI	
2245	1	ZC-P700A	Position Control Output	Raw Water Flow Control to DAF TNKP700A Valve Required Position	WP-P0003						LCP-H10	AO	
2246	1	ZD-P700A	Open Status	Raw Water Flow Control to DAF TNKP700A Valve Open	WP-P0003						LCP-H10	DI	
2247	1	ZT-P700A	Position Feedback	Raw Water Flow Control to DAF TNKP700A Valve Position	WP-P0003						LCP-H10	AI	
2248	1	MM-P701A	Running Status	DAF Flocculator FLC-P701A Running	WP-P0010						CP-P32	DI TCP	
2249	1	MN-P701A	Start Command	DAF Flocculator FLC-P701A Start	WP-P0010						CP-P32	DO TCP	
2250	1	SC-P701A	Speed Control Output	DAF Flocculator FLC-P701A Required Speed	WP-P0010						CP-P32	AO TCP	
2251	1	SI-P701A	Speed Indication	DAF Flocculator FLC-P701A Speed	WP-P0010						CP-P32	AI TCP	
2252	1	UF-P701A	No Fault	DAF Flocculator FLC-P701A Fault	WP-P0010						CP-P32	DI TCP	
2253	1	YS-P701A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P701A in Computer Mode	WP-P0010						CP-P32	DI TCP	
2254	1	MM-P702A	Running Status	DAF Flocculator FLC-P702A Running	WP-P0010						CP-P32	DI TCP	
2255	1	MN-P702A	Start Command	DAF Flocculator FLC-P702A Start	WP-P0010						CP-P32	DO TCP	
2256	1	SC-P702A	Speed Control Output	DAF Flocculator FLC-P702A Required Speed	WP-P0010						CP-P32	AO TCP	
2257	1	SI-P702A	Speed Indication	DAF Flocculator FLC-P702A Speed	WP-P0010						CP-P32	AI TCP	
2258	1	UF-P702A	No Fault	DAF Flocculator FLC-P702A Fault	WP-P0010						CP-P32	DI TCP	
2259	1	YS-P702A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P702A in Computer Mode	WP-P0010						CP-P32	DI TCP	
2260	1	MM-P703A	Running Status	DAF Flocculator FLC-P703A Running	WP-P0010						CP-P32	DI TCP	
2261	1	MN-P703A	Start Command	DAF Flocculator FLC-P703A Start	WP-P0010						CP-P32	DO TCP	
2262	1	SC-P703A	Speed Control Output	DAF Flocculator FLC-P703A Required Speed	WP-P0010						CP-P32	AO TCP	
2263	1	SI-P703A	Speed Indication	DAF Flocculator FLC-P703A Speed	WP-P0010						CP-P32	AI TCP	
2264	1	UF-P703A	No Fault	DAF Flocculator FLC-P703A Fault	WP-P0010						CP-P32	DI TCP	
2265	1	YS-P703A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P703A in Computer Mode	WP-P0010						CP-P32	DI TCP	
2266	1	MM-P704A	Running Status	DAF Flocculator FLC-P704A Running	WP-P0010						CP-P32	DI TCP	
2267	1	MN-P704A	Start Command	DAF Flocculator FLC-P704A Start	WP-P0010						CP-P32	DO TCP	
2268	1	SC-P704A	Speed Control Output	DAF Flocculator FLC-P704A Required Speed	WP-P0010						CP-P32	AO TCP	
2269	1	SI-P704A	Speed Indication	DAF Flocculator FLC-P704A Speed	WP-P0010						CP-P32	AI TCP	
2270	1	UF-P704A	No Fault	DAF Flocculator FLC-P704A Fault	WP-P0010						CP-P32	DI TCP	
2271	1	YS-P704A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P704A in Computer Mode	WP-P0010						CP-P32	DI TCP	
2272	1	MM-P705A	Running Status	DAF Flocculator FLC-P705A Running	WP-P0010						CP-P32	DI TCP	
2273	1	MN-P705A	Start Command	DAF Flocculator FLC-P705A Start	WP-P0010						CP-P32	DO TCP	
2274	1	SC-P705A	Speed Control Output	DAF Flocculator FLC-P705A Required Speed	WP-P0010						CP-P32	AO TCP	
2275	1	SI-P705A	Speed Indication	DAF Flocculator FLC-P705A Speed	WP-P0010						CP-P32	AI TCP	
2276	1	UF-P705A	No Fault	DAF Flocculator FLC-P705A Fault	WP-P0010						CP-P32	DI TCP	
2277	1	YS-P705A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P705A in Computer Mode	WP-P0010						CP-P32	DI TCP	
2278	1	MM-P706A	Running Status	DAF Flocculator FLC-P706A Running	WP-P0010						CP-P32	DI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
2279	1	MN-P706A	Start Command	DAF Flocculator FLC-P706A Start	WP-P0010							CP-P32	DO TCP	
2280	1	SC-P706A	Speed Control Output	DAF Flocculator FLC-P706A Required Speed	WP-P0010							CP-P32	AO TCP	
2281	1	SI-P706A	Speed Indication	DAF Flocculator FLC-P706A Speed	WP-P0010							CP-P32	AI TCP	
2282	1	UF-P706A	No Fault	DAF Flocculator FLC-P706A Fault	WP-P0010							CP-P32	DI TCP	
2283	1	YS-P706A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P706A in Computer Mode	WP-P0010							CP-P32	DI TCP	
2284	1	YS-P710A	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P700A Valve in Computer Mode	WP-P0010							CP-P32	DI	
2285	1	YS-P710B	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P700A Valve in Computer Mode	WP-P0010							CP-P32	DI	
2286	1	ZB-P710A	Closed Status	Air Saturated Water to DAF TNK-P700A Valve Closed	WP-P0010							CP-P32	DI	
2287	1	YB-P710A	Close Command	Air Saturated Water to DAF TNK-P700A Valve Close	WP-P0010							CP-P32	DO	
2288	1	ZD-P710A	Open Status	Air Saturated Water to DAF TNK-P700A Valve Open	WP-P0010							CP-P32	DI	
2289	1	YD-P710A	Open Command	Air Saturated Water to DAF TNK-P700A Valve Open	WP-P0010							CP-P32	DO	
2290	1	ZB-P710B	Closed Status	Air Saturated Water to DAF TNK-P700A Valve Closed	WP-P0010							CP-P32	DI	
2291	1	YB-P710B	Close Command	Air Saturated Water to DAF TNK-P700A Valve Close	WP-P0010							CP-P32	DO	
2292	1	ZD-P710B	Open Status	Air Saturated Water to DAF TNK-P700A Valve Open	WP-P0010							CP-P32	DI	
2293	1	YD-P710B	Open Command	Air Saturated Water to DAF TNK-P700A Valve Open	WP-P0010							CP-P32	DO	
2294	1	YD-P720A	Solenoid Actuator Output	DAF Basin Headwall Spray Wash Header Valve (TNKP700A) Open	WP-P0010							CP-P32	DO	
2295	1	YD-P720B	Solenoid Actuator Output	DAF Basin Float Trough Spray Wash Valve (TNKP700A) Open	WP-P0010							CP-P32	DO	
2296	1	YS-P740A	C/O/H Switch in Computer Position	DAF Basin Effluent Weir Bypass Gate (TNKP700A) in Computer Mode	WP-P0010							CP-P32	DI	
2297	1	ZB-P740A	Closed Status	DAF Basin Effluent Weir Bypass Gate (TNKP700A) Closed	WP-P0010							CP-P32	DI	
2298	1	ZC-P740A	Position Control Output	DAF Basin Effluent Weir Bypass Gate (TNKP700A) Required Position	WP-P0010							CP-P32	AO	
2299	1	ZD-P740A	Open Status	DAF Basin Effluent Weir Bypass Gate (TNKP700A) Open	WP-P0010							CP-P32	DI	
2300	1	ZT-P740A	Position Feedback	DAF Basin Effluent Weir Bypass Gate (TNKP700A) Position	WP-P0010							CP-P32	AI	
2301	1	FI-P800A	Flow Indication	Raw Water Flow Rate to DAF TNKP800A	WP-P0003							LCP-H10	AI	
2302	1	FQ-P800A	Flow Pulse	Raw Water Flow Total to DAF TNKP800A	WP-P0003							LCP-H10	DI	
2303	1	LF-P800A	No Fault	DAF TNKP800A Level Fault	WP-P0011							CP-P32	DI	
2304	1	LI-P800A	Level Indication	DAF TNKP800A Level	WP-P0011							CP-P32	AI	
2305	1	MF-P800A	Reverse Limit	DAF Float Reciprocating Scraper FLC-P800A Travelled Reverse	WP-P0011							CP-P32	DI TCP	
2306	1	MM-P800A	Running Status	DAF Float Reciprocating Scraper FLC-P800A Running	WP-P0011							CP-P32	DI TCP	
2307	1	MN-P800A	Start Command	DAF Float Reciprocating Scraper FLC-P800A Start	WP-P0011							CP-P32	DO TCP	
2308	1	MR-P800A	Forward Limit	DAF Float Reciprocating Scraper FLC-P800A Travelled Forward	WP-P0011							CP-P32	DI TCP	
2309	1	SC-P800A	Speed Control Output	DAF Float Reciprocating Scraper FLC-P800A Required Speed	WP-P0011							CP-P32	AO TCP	
2310	1	SI-P800A	Speed Indication	DAF Float Reciprocating Scraper FLC-P800A Speed	WP-P0011							CP-P32	AI TCP	
2311	1	UF-P800A	No Fault	DAF Float Reciprocating Scraper FLC-P800A Fault	WP-P0011							CP-P32	DI TCP	
2312	1	YS-P800A	C/O/H Switch in Computer Position	Raw Water Flow Control to DAF TNKP800A Valve in Computer Mode	WP-P0003							LCP-H10	DI	
2313	1	YS-P800A	C/O/H Switch in Computer Position	DAF Float Reciprocating Scraper FLC-P800A in Computer Mode	WP-P0011							CP-P32	DI TCP	
2314	1	ZB-P800A	Closed Status	Raw Water Flow Control to DAF TNKP800A Valve Closed	WP-P0003							LCP-H10	DI	
2315	1	ZC-P800A	Position Control Output	Raw Water Flow Control to DAF TNKP800A Valve Required Position	WP-P0003							LCP-H10	AO	
2316	1	ZD-P800A	Open Status	Raw Water Flow Control to DAF TNKP800A Valve Open	WP-P0003							LCP-H10	DI	
2317	1	ZT-P800A	Position Feedback	Raw Water Flow Control to DAF TNKP800A Valve Position	WP-P0003							LCP-H10	AI	
2318	1	MM-P801A	Running Status	DAF Flocculator FLC-P801A Running	WP-P0011							CP-P32	DI TCP	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	ENG. UNITS	I/O SPECIFICATION						
								SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
2319	1	MN-P801A	Start Command	DAF Flocculator FLC-P801A Start	WP-P0011						CP-P32	DO TCP		
2320	1	SC-P801A	Speed Control Output	DAF Flocculator FLC-P801A Required Speed	WP-P0011						CP-P32	AO TCP		
2321	1	SI-P801A	Speed Indication	DAF Flocculator FLC-P801A Speed	WP-P0011						CP-P32	AI TCP		
2322	1	UF-P801A	No Fault	DAF Flocculator FLC-P801A Fault	WP-P0011						CP-P32	DI TCP		
2323	1	YS-P801A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P801A in Computer Mode	WP-P0011						CP-P32	DI TCP		
2324	1	MM-P802A	Running Status	DAF Flocculator FLC-P802A Running	WP-P0011						CP-P32	DI TCP		
2325	1	MN-P802A	Start Command	DAF Flocculator FLC-P802A Start	WP-P0011						CP-P32	DO TCP		
2326	1	SC-P802A	Speed Control Output	DAF Flocculator FLC-P802A Required Speed	WP-P0011						CP-P32	AO TCP		
2327	1	SI-P802A	Speed Indication	DAF Flocculator FLC-P802A Speed	WP-P0011						CP-P32	AI TCP		
2328	1	UF-P802A	No Fault	DAF Flocculator FLC-P802A Fault	WP-P0011						CP-P32	DI TCP		
2329	1	YS-P802A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P802A in Computer Mode	WP-P0011						CP-P32	DI TCP		
2330	1	MM-P803A	Running Status	DAF Flocculator FLC-P803A Running	WP-P0011						CP-P32	DI TCP		
2331	1	MN-P803A	Start Command	DAF Flocculator FLC-P803A Start	WP-P0011						CP-P32	DO TCP		
2332	1	SC-P803A	Speed Control Output	DAF Flocculator FLC-P803A Required Speed	WP-P0011						CP-P32	AO TCP		
2333	1	SI-P803A	Speed Indication	DAF Flocculator FLC-P803A Speed	WP-P0011						CP-P32	AI TCP		
2334	1	UF-P803A	No Fault	DAF Flocculator FLC-P803A Fault	WP-P0011						CP-P32	DI TCP		
2335	1	YS-P803A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P803A in Computer Mode	WP-P0011						CP-P32	DI TCP		
2336	1	MM-P804A	Running Status	DAF Flocculator FLC-P804A Running	WP-P0011						CP-P32	DI TCP		
2337	1	MN-P804A	Start Command	DAF Flocculator FLC-P804A Start	WP-P0011						CP-P32	DO TCP		
2338	1	SC-P804A	Speed Control Output	DAF Flocculator FLC-P804A Required Speed	WP-P0011						CP-P32	AO TCP		
2339	1	SI-P804A	Speed Indication	DAF Flocculator FLC-P804A Speed	WP-P0011						CP-P32	AI TCP		
2340	1	UF-P804A	No Fault	DAF Flocculator FLC-P804A Fault	WP-P0011						CP-P32	DI TCP		
2341	1	YS-P804A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P804A in Computer Mode	WP-P0011						CP-P32	DI TCP		
2342	1	MM-P805A	Running Status	DAF Flocculator FLC-P805A Running	WP-P0011						CP-P32	DI TCP		
2343	1	MN-P805A	Start Command	DAF Flocculator FLC-P805A Start	WP-P0011						CP-P32	DO TCP		
2344	1	SC-P805A	Speed Control Output	DAF Flocculator FLC-P805A Required Speed	WP-P0011						CP-P32	AO TCP		
2345	1	SI-P805A	Speed Indication	DAF Flocculator FLC-P805A Speed	WP-P0011						CP-P32	AI TCP		
2346	1	UF-P805A	No Fault	DAF Flocculator FLC-P805A Fault	WP-P0011						CP-P32	DI TCP		
2347	1	YS-P805A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P805A in Computer Mode	WP-P0011						CP-P32	DI TCP		
2348	1	MM-P806A	Running Status	DAF Flocculator FLC-P806A Running	WP-P0011						CP-P32	DI TCP		
2349	1	MN-P806A	Start Command	DAF Flocculator FLC-P806A Start	WP-P0011						CP-P32	DO TCP		
2350	1	SC-P806A	Speed Control Output	DAF Flocculator FLC-P806A Required Speed	WP-P0011						CP-P32	AO TCP		
2351	1	SI-P806A	Speed Indication	DAF Flocculator FLC-P806A Speed	WP-P0011						CP-P32	AI TCP		
2352	1	UF-P806A	No Fault	DAF Flocculator FLC-P806A Fault	WP-P0011						CP-P32	DI TCP		
2353	1	YS-P806A	C/O/H Switch in Computer Position	DAF Flocculator FLC-P806A in Computer Mode	WP-P0011						CP-P32	DI TCP		
2354	1	YS-P810A	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P800A Valve in Computer Mode	WP-P0011						CP-P32	DI		
2355	1	YS-P810B	C/O/H Switch in Computer Position	Air Saturated Water to DAF TNK-P800A Valve in Computer Mode	WP-P0011						CP-P32	DI		
2356	1	ZB-P810A	Closed Status	Air Saturated Water to DAF TNK-P800A Valve Closed	WP-P0011						CP-P32	DI		
2357	1	YB-P810A	Close Command	Air Saturated Water to DAF TNK-P800A Valve Close	WP-P0011						CP-P32	DO		

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
2358	1	ZD-P810A	Open Status	Air Saturated Water to DAF TNK-P800A Valve Open	WP-P0011							CP-P32	DI	
2359	1	YD-P810A	Open Command	Air Saturated Water to DAF TNK-P800A Valve Open	WP-P0011							CP-P32	DO	
2360	1	ZB-P810B	Closed Status	Air Saturated Water to DAF TNK-P800A Valve Closed	WP-P0011							CP-P32	DI	
2361	1	YB-P810B	Close Command	Air Saturated Water to DAF TNK-P800A Valve Close	WP-P0011							CP-P32	DO	
2362	1	ZD-P810B	Open Status	Air Saturated Water to DAF TNK-P800A Valve Open	WP-P0011							CP-P32	DI	
2363	1	YD-P810B	Open Command	Air Saturated Water to DAF TNK-P800A Valve Open	WP-P0011							CP-P32	DO	
2364	1	YD-P820A	Solenoid Actuator Output	DAF Basin Headwall Spray Wash Header Valve (TNKP800A) Open	WP-P0011							CP-P32	DO	
2365	1	YD-P820B	Solenoid Actuator Output	DAF Basin Float Trough Spray Wash Valve (TNKP800A) Open	WP-P0011							CP-P32	DO	
2366	1	YS-P840A	C/O/H Switch in Computer Position	DAF Basin Effluent Weir Bypass Gate (TNKP800A) in Computer Mode	WP-P0011							CP-P32	DI	
2367	1	ZB-P840A	Closed Status	DAF Basin Effluent Weir Bypass Gate (TNKP800A) Closed	WP-P0011							CP-P32	DI	
2368	1	ZC-P840A	Position Control Output	DAF Basin Effluent Weir Bypass Gate (TNKP800A) Required Position	WP-P0011							CP-P32	AO	
2369	1	ZD-P840A	Open Status	DAF Basin Effluent Weir Bypass Gate (TNKP800A) Open	WP-P0011							CP-P32	DI	
2370	1	ZT-P840A	Position Feedback	DAF Basin Effluent Weir Bypass Gate (TNKP800A) Position	WP-P0011							CP-P32	AI	
2371	1	PI-P900A	Pressure Indication	DAF Air Receiver Pressure	WP-P0016							CP-H30	AI	
2372	1	MM-P910A	Running Status	DAF Air Compressor CMP-P910A Running	WP-P0016							CP-P32	DI	
2373	1	MN-P910A	Start Command	DAF Air Compressor CMP-P910A Start	WP-P0016							CP-P32	DO	
2374	1	UF-P910A	No Fault	DAF Air Compressor CMP-P910A Fault	WP-P0016							CP-P32	DI	
2375	1	MM-P920A	Running Status	DAF Air Compressor CMP-P920A Running	WP-P0016							CP-P32	DI	
2376	1	MN-P920A	Start Command	DAF Air Compressor CMP-P920A Start	WP-P0016							CP-P32	DO	
2377	1	UF-P920A	No Fault	DAF Air Compressor CMP-P920A Fault	WP-P0016							CP-P32	DI	
2378	1	LI-P930A	Level Indication	DAF Float Sump P930A Level	WP-P0018							LCP-H10	AI	
2379	1	LI-P930B	Level Indication	DAF Float Sump P930A Level	WP-P0018							LCP-H10	AI	
2380	1	MM-P931A	Running Status	DAF Float Sump Sludge Pump P-P931A Running	WP-P0018							LCP-H10	DI	
2381	1	MN-P931A	Start Command	DAF Float Sump Sludge Pump P-P931A Start	WP-P0018							LCP-H10	DO	
2382	1	UF-P931A	No Fault	DAF Float Sump Sludge Pump P-P931A Fault	WP-P0018							LCP-H10	DI	
2383	1	YS-P931A	C/O/H Switch in Computer Position	DAF Float Sump Sludge Pump P-P931A in Computer Mode	WP-P0018							LCP-H10	DI	
2384	1	ZB-P931E	Closed Status	DAF Float Transfer Pump P931A Discharge Valve Closed	WP-P0018							LCP-H10	DI	
2385	1	ZD-P931E	Open Status	DAF Float Transfer Pump P931A Discharge Valve Open	WP-P0018							LCP-H10	DI	
2386	1	MM-P932A	Running Status	DAF Float Sump Sludge Pump P-P932A Running	WP-P0018							LCP-H10	DI	
2387	1	MN-P932A	Start Command	DAF Float Sump Sludge Pump P-P932A Start	WP-P0018							LCP-H10	DO	
2388	1	UF-P932A	No Fault	DAF Float Sump Sludge Pump P-P932A Fault	WP-P0018							LCP-H10	DI	
2389	1	YS-P932A	C/O/H Switch in Computer Position	DAF Float Sump Sludge Pump P-P932A in Computer Mode	WP-P0018							LCP-H10	DI	
2390	1	ZB-P932E	Closed Status	DAF Float Transfer Pump P-P932A Discharge Valve Closed	WP-P0018							LCP-H10	DI	
2391	1	ZD-P932E	Open Status	DAF Float Transfer Pump P-P932A Discharge Valve Open	WP-P0018							LCP-H10	DI	
2392	1	LI-P940A	Level Indication	DAF Float Sump P940A Level	WP-P0018							LCP-H10	AI	
2393	1	LI-P940B	Level Indication	DAF Float Sump P940A Level	WP-P0018							LCP-H10	AI	
2394	1	MM-P941A	Running Status	DAF Float Sump Sludge Pump P-P941A Running	WP-P0018							LCP-H10	DI	
2395	1	MN-P941A	Start Command	DAF Float Sump Sludge Pump P-P941A Start	WP-P0018							LCP-H10	DO	
2396	1	UF-P941A	No Fault	DAF Float Sump Sludge Pump P-P941A Fault	WP-P0018							LCP-H10	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	FUNCTION	DESCRIPTION	SERVICE	P&ID DRAWING	I/O SPECIFICATION							
							ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
								LOW	HIGH	LOW	HIGH			
2397	1	YS-P941A	C/O/H Switch in Computer Position	DAF Float Sump Sludge Pump P-P941A in Computer Mode	WP-P0018							LCP-H10	DI	
2398	1	ZB-P941E	Closed Status	DAF Float Transfer Pump P-P941A Discharge Valve Closed	WP-P0018							LCP-H10	DI	
2399	1	ZD-P941E	Open Status	DAF Float Transfer Pump P-P941A Discharge Valve Open	WP-P0018							LCP-H10	DI	
2400	1	MM-P942A	Running Status	DAF Float Sump Sludge Pump P-P942A Running	WP-P0018							LCP-H10	DI	
2401	1	MN-P942A	Start Command	DAF Float Sump Sludge Pump P-P942A Start	WP-P0018							LCP-H10	DO	
2402	1	MM-P962A	Running Status	DAF Float Sump Sludge Pump P-P962A Running	WP-P0019							LCP-H10	DI	
2403	1	MN-P962A	Start Command	DAF Float Sump Sludge Pump P-P962A Start	WP-P0019							LCP-H10	DO	
2404	1	UF-P942A	No Fault	DAF Float Sump Sludge Pump P-P942A Fault	WP-P0018							LCP-H10	DI	
2405	1	UF-P962A	No Fault	DAF Float Sump Sludge Pump P-P962A Fault	WP-P0019							LCP-H10	DI	
2406	1	YS-P942A	C/O/H Switch in Computer Position	DAF Float Sump Sludge Pump P-P942A in Computer Mode	WP-P0018							LCP-H10	DI	
2407	1	YS-P962A	C/O/H Switch in Computer Position	DAF Float Sump Sludge Pump P-P962A in Computer Mode	WP-P0019							LCP-H10	DI	
2408	1	ZB-P942A	Closed Status	DAF Float Transfer Pump P-P942A Discharge Valve Closed	WP-P0018							LCP-H10	DI	
2409	1	ZD-P942A	Open Status	DAF Float Transfer Pump P-P942A Discharge Valve Open	WP-P0018							LCP-H10	DI	
2410	1	ZB-P92E	Closed Status	DAF Float Transfer Pump P-P962A Discharge Valve Closed	WP-P0019							LCP-H10	DI	
2411	1	ZD-P962E	Open Status	DAF Float Transfer Pump P-P962A Discharge Valve Open	WP-P0019							LCP-H10	DI	
2412	1	LI-P950A	Level Indication	DAF Float Sump P950A Level	WP-P0019							LCP-H10	AI	
2413	1	LI-P950B	Level Indication	DAF Float Sump P950A Level	WP-P0019							LCP-H10	AI	
2414	1	MM-P951A	Running Status	DAF Float Sump Sludge Pump P-P951A Running	WP-P0019							LCP-H10	DI	
2415	1	MN-P951A	Start Command	DAF Float Sump Sludge Pump P-P951A Start	WP-P0019							LCP-H10	DO	
2416	1	UF-P951A	No Fault	DAF Float Sump Sludge Pump P-P951A Fault	WP-P0019							LCP-H10	DI	
2417	1	YS-P951A	C/O/H Switch in Computer Position	DAF Float Sump Sludge Pump P-P951A in Computer Mode	WP-P0019							LCP-H10	DI	
2418	1	ZB-P951E	Closed Status	DAF Float Transfer Pump P951A Discharge Valve Closed	WP-P0019							LCP-H10	DI	
2419	1	ZD-P951E	Open Status	DAF Float Transfer Pump P951A Discharge Valve Open	WP-P0019							LCP-H10	DI	
2420	1	MM-P952A	Running Status	DAF Float Sump Sludge Pump P-P952A Running	WP-P0019							LCP-H10	DI	
2421	1	MN-P952A	Start Command	DAF Float Sump Sludge Pump P-P952A Start	WP-P0019							LCP-H10	DO	
2422	1	UF-P952A	No Fault	DAF Float Sump Sludge Pump P-P952A Fault	WP-P0019							LCP-H10	DI	
2423	1	YS-P952A	C/O/H Switch in Computer Position	DAF Float Sump Sludge Pump P-P952A in Computer Mode	WP-P0019							LCP-H10	DI	
2424	1	ZB-P952E	Closed Status	DAF Float Transfer Pump P-P952A Discharge Valve Closed	WP-P0019							LCP-H10	DI	
2425	1	ZD-P952E	Open Status	DAF Float Transfer Pump P-P952A Discharge Valve Open	WP-P0019							LCP-H10	DI	
2426	1	LI-P960A	Level Indication	DAF Float Sump P960A Level	WP-P0019							LCP-H10	AI	
2427	1	LI-P960B	Level Indication	DAF Float Sump P960A Level	WP-P0019							LCP-H10	AI	
2428	1	MM-P961A	Running Status	DAF Float Sump Sludge Pump P-P961A Running	WP-P0019							LCP-H10	DI	
2429	1	MN-P961A	Start Command	DAF Float Sump Sludge Pump P-P961A Start	WP-P0019							LCP-H10	DO	
2430	1	UF-P961A	No Fault	DAF Float Sump Sludge Pump P-P961A Fault	WP-P0019							LCP-H10	DI	
2431	1	YS-P961A	C/O/H Switch in Computer Position	DAF Float Sump Sludge Pump P-P961A in Computer Mode	WP-P0019							LCP-H10	DI	
2432	1	ZB-P961E	Closed Status	DAF Float Transfer Pump P-P961A Discharge Valve Closed	WP-P0019							LCP-H10	DI	
2433	1	ZD-P961E	Open Status	DAF Float Transfer Pump P-P961A Discharge Valve Open	WP-P0019							LCP-H10	DI	
2434	1	LA-P970A	Level Alarm	DAF Effluent Channel West Side (Train 1) High High Level	WP-P0017							CP-H30	DI	
2435	1	LF-P970A	Level Fault	DAF Effluent Channel West Side (Train 1) Level Fault	WP-P0017							CP-H30	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

City of Winnipeg Water Treatment Program
 Supply and Installation of Water Treatment Plant Process Mechanical and Electrical
 Bid Opportunity No. 742-2005 Addendum 6

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
2436	1	LI-P970A	Level Indication	DAF Effluent Channel West Side (Train 1) Level	WP-P0017						CP-H30	AI	
2437	1	LA-P971A	Level Alarm	DAF Effluent Channel East Side (Train 2) High High Level	WP-P0017						CP-H30	DI	
2438	1	LA-P971A	Level Fault	DAF Effluent Channel East Side (Train 2) Level Fault	WP-P0017						CP-H30	DI	
2439	1	LI-P971A	Level Indication	DAF Effluent Channel East Side (Train 2) Level	WP-P0017						CP-H30	AI	
2440	1	AT-P975A	Turbidity Indication	DAF Common Effluent Channel Turbidity	WP-P0017						CP-H30	AI	
2441	1	FA-P975A	Flow Alarm	DAF Common Effluent Channel Turbidity Low Sample Flow	WP-P0017						CP-H30	DI	
2442	1	LF-P980A	Level Fault	DAF Area Process Sump Pump Level Fault	WP-P0020						LCP-H10	DI	
2443	1	LI-P980A	Level Indication	DAF Area Process Sump Pump Level	WP-P0020						LCP-H10	AI	
2444	1	LF-P980B	Level Fault	DAF Area Process Sump Pump Level Fault	WP-P0020						LCP-H10	DI	
2445	1	LI-P980B	Level Indication	DAF Area Process Sump Pump Level	WP-P0020						LCP-H10	AI	
2446	1	MM-P981A	Running Status	DAF Area Process Sump Pump P-P981A Running	WP-P0020						LCP-H10	DI	
2447	1	MN-P981A	Start Command	DAF Area Process Sump Pump P-P981A Start	WP-P0020						LCP-H10	DO	
2448	1	UF-P981A	No Fault	DAF Area Process Sump Pump P-P981A Fault	WP-P0020						LCP-H10	DI	
2449	1	YS-P981A	C/O/H Switch in Computer Position	DAF Area Process Sump Pump P-P981A in Computer Mode	WP-P0020						LCP-H10	DI	
2450	1	MM-P982A	Running Status	DAF Area Process Sump Pump P-P982A Running	WP-P0020						LCP-H10	DI	
2451	1	MN-P982A	Start Command	DAF Area Process Sump Pump P-P982A Start	WP-P0020						LCP-H10	DO	
2452	1	UF-P982A	No Fault	DAF Area Process Sump Pump P-P982A Fault	WP-P0020						LCP-H10	DI	
2453	1	YS-P982A	C/O/H Switch in Computer Position	DAF Area Process Sump Pump P-P982A in Computer Mode	WP-P0020						LCP-H10	DI	
2454	1	MM-P983A	Running Status	DAF Area Process Sump Pump P-P983A Running	WP-P0020						LCP-H10	DI	
2455	1	MN-P983A	Start Command	DAF Area Process Sump Pump P-P983A Start	WP-P0020						LCP-H10	DO	
2456	1	UF-P983A	No Fault	DAF Area Process Sump Pump P-P983A Fault	WP-P0020						LCP-H10	DI	
2457	1	YS-P983A	C/O/H Switch in Computer Position	DAF Area Process Sump Pump P-P983A in Computer Mode	WP-P0020						LCP-H10	DI	
2458	1	FI-P990A	Flow Indication	Sump P930A and Sump P940A Float Flow Rate	WP-P0018						LCP-H10	AI	
2459	1	FQ-P990A	Flow Pulse	Sump P930A and Sump P940A Float Flow Total	WP-P0018						LCP-H10	DI	
2460	1	FI-P993A	Flow Indication	Sump P930A and Sump P940A Float Flow Rate	WP-P0019						LCP-H10	AI	
2461	1	FQ-P993A	Flow Pulse	Sump P930A and Sump P940A Float Flow Total	WP-P0019						LCP-H10	DI	
2462	1	AT-P976A	pH Indication	DAF Common Effluent Channel Ph	WP-P0017						CP-H30	AI	
2463	1	MM-H001	Running Status	Supply fan MUA-H001 status	WB-H0501						CP-H30	DI	
2464	1	TI-H001A	Temperature Indication	Filter Gallery Temperature T-H001A	WB-H0501						CP-H30	AI	
2465	1	TI-H001B	Temperature Indication	Filter Pipe Gallery Temperature T-H001B	WB-H0501						CP-H30	AI	
2466	1	TI-H001C	Temperature Indication	Effluent Gate Room Temperature T-H001C	WB-H0501						CP-H30	AI	
2467	1	MM-H002	Running Status	Exhaust fan EF-H002 status	WB-H0501						CP-H30	DI	
2468	1	MM-H003	Running Status	Exhaust fan EF-H003 status	WB-H0501						CP-H30	DI	
2469	1	MM-H004	Running Status	Exhaust fan EF-H004 status	WB-H0501						CP-H30	DI	
2470	1	MM-H005	Running Status	Exhaust fan EF-H005 status	WB-H0501						CP-H30	DI	
2471	1	MM-H011	Running Status	Supply fan MUA-H011 status	WB-H0501						CP-H30	DI	
2472	1	TI-H011A	Temperature Indication	Pilot Plant Room Temperature T-H011A	WB-H0501						CP-H30	AI	
2473	1	MM-H012	Running Status	Supply fan MUA-H012 status	WB-H0501						CP-H30	DI	
2474	1	TA-H012A	Temperature Indication	Wash Water Recovery Gallery Temperature T-H012A	WB-H0501						CP-H30	AI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION		P&ID DRAWING	I/O SPECIFICATION							
			FUNCTION	SERVICE		ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
2475	1	MM-H013	Running Status	Exhaust fan EF-H013 status	WB-H0501						CP-H30	DI	
2476	1	MM-H014	Running Status	Exhaust fan EF-H014 status	WB-H0501						CP-H30	DI	
2477	1	MM-H015	Running Status	Exhaust fan EF-H015 status	WB-H0501						CP-H30	DI	
2478	1	TA-H015D	Temperature Indication	Mechanical Room No.2 Temperature T-H015D	WB-H0501						CP-H30	AI	
2479	1	MM-H040	Running Status	Exhaust fan EF-H040 status	WB-H0501						CP-H30	DI	
2480	1	TI-H040A	Temperature Indication	Blower Room Temperature T-H040A	WB-H0501						CP-H30	AI	
2481	1	YA-H001	General Alarm	Filter Gallery System General Alarm	WB-H0501						CP-H30	DI	
2482	1	YA-H005	General Alarm	Chemical Injection area System General Alarm	WB-H0501						CP-H30	DI	
2483	1	YA-H040	General Alarm	Blower Room System General Alarm	WB-H0501						CP-H30	DI	
2484	1	YA-H011	General Alarm	Pilot Plant Room System General Alarm	WB-H0501						CP-H30	DI	
2485	1	YA-H012	General Alarm	Wash Water Recovery Gallery System General Alarm	WB-H0501						CP-H30	DI	
2486	1	YA-H015	General Alarm	Mechanical Room No.2 System General Alarm	WB-H0501						CP-H30	DI	
2487	1	MM-H021	Running Status	Supply fan MUA-H021 status	WB-H0502						CP-H30	DI	
2488	1	MM-H022	Running Status	Supply fan HRU-H022 status	WB-H0502						CP-H30	DI	
2489	1	MM-H022	Running Status	Exhaust fan HRU-H022 status	WB-H0502						CP-H30	DI	
2490	1	TI-H022	Temperature Indication	HRU-H022 Supply air Temperature	WB-H0502						CP-H30	AI	
2491	1	TI-H022A	Temperature Indication	Ozone Room Temperature T-H022A	WB-H0502						CP-H30	AI	
2492	1	TI-H022B	Temperature Indication	Access Corridor No.2 Temperature T-H022B	WB-H0502						CP-H30	AI	
2493	1	TI-H022C	Temperature Indication	Access Corridor No.3 Temperature T-H022C	WB-H0502						CP-H30	AI	
2494	1	TI-H022D	Temperature Indication	Access Corridor No.5 Temperature T-H022D	WB-H0502						CP-H30	AI	
2495	1	TI-H022E	Temperature Indication	Access Corridor No.6 Temperature T-H022E	WB-H0502						CP-H30	AI	
2496	1	MM-H023	Running Status	Exhaust fan EF-H023 status	WB-H0502						CP-H30	DI	
2497	1	MM-H031	Running Status	Supply fan MAU-H031 status	WB-H0502						CP-H30	DI	
2498	1	TI-H031A	Temperature Indication	Polymer Feed and Preparation Room Temperature T-H031A	WB-H0502						CP-H30	AI	
2499	1	TI-H031B	Temperature Indication	Receiving Bay Temperature T-H031B	WB-H0502						CP-H30	AI	
2500	1	TA-H031C	Temperature Indication	Polymer Storage Room Temperature T-H031C	WB-H0502						CP-H30	AI	
2501	1	MM-H032	Running Status	Supply fan MAU-H032 status	WB-H0502						CP-H30	DI	
2502	1	TI-H032A	Temperature Indication	Peroxide Room Temperature T-H035A	WB-H0502						CP-H30	AI	
2503	1	TI-H032A	Temperature Indication	Electrical Room No.2 Temperature T-H035A	WB-H0502						CP-H30	AI	
2504	1	MM-H033	Running Status	Supply fan MAU-H033 status	WB-H0502						CP-H30	DI	
2505	1	TI-H033A	Temperature Indication	SBS Storage & Feed Room Temperature T-H033A	WB-H0502						CP-H30	AI	
2506	1	MM-H035	Running Status	Supply fan AHU-H035 status	WB-H0502						CP-H30	DI	
2507	1	MM-H037	Running Status	Exhaust fan EF-H037 status	WB-H0502						CP-H30	DI	
2508	1	MM-H038	Running Status	Exhaust fan EF-H038 status	WB-H0502						CP-H30	DI	
2509	1	MM-H039	Running Status	Exhaust fan EF-H039 status	WB-H0502						CP-H30	DI	
2510	1	YA-H021	General Alarm	Ozone Emergency System General Alarm	WB-H0502						CP-H30	DI	
2511	1	YA-H022	General Alarm	Ozone Room System General Alarm	WB-H0502						CP-H30	DI	
2512	1	YA-H031	General Alarm	Polymer Facility System General Alarm	WB-H0502						CP-H30	DI	
2513	1	YA-H032	General Alarm	Peroxide Room System General Alarm	WB-H0502						CP-H30	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
2514	1	YA-H033	General Alarm	SBS Room System General Alarm	WB-H0502						CP-H30	DI	
2515	1	YA-H035	General Alarm	Electrical Room No.2 System General Alarm	WB-H0502						CP-H30	DI	
2516	1	MM-H034B	Running Status	Exhaust fan EF-H034B status	WB-H0503						CP-H30	DI	
2517	1	MM-H034A	Running Status	Supply fan MAU-H034 status	WB-H0503						CP-H30	DI	
2518	1	TI-H034A	Temperature Indication	Maintenance Workshop Room Temperature T-H034A	WB-H0503						CP-H30	AI	
2519	1	MM-H041	Running Status	Exhaust fan EF-H041 status	WB-H0503						CP-H30	DI	
2520	1	TI-H041A	Temperature Indication	Mechanical Room No.3 Room Temperature T-H041A	WB-H0503						CP-H30	AI	
2521	1	MM-H043	Running Status	Exhaust fan EF-H043 status	WB-H0503						CP-H30	DI	
2522	1	MM-H044	Running Status	Exhaust fan EF-H044 status	WB-H0503						CP-H30	DI	
2523	1	MM-H051	Running Status	Supply fan MAU-H051 status	WB-H0503						CP-H30	DI	
2524	0	TI-H051A	Temperature Indication	DAF Process Gallery Temperature T-H051A	WB-H0503						CP-H30	AI	
2525	0	TI-H051B	Temperature Indication	DAF Pump Gallery Temperature T-H051B	WB-H0503						CP-H30	AI	
2526	0	TI-H051C	Temperature Indication	DAF Influent Gallery Temperature T-H051C	WB-H0503						CP-H30	AI	
2527	0	MM-H052	Running Status	Exhaust fan EF-H052 status	WB-H0503						CP-H30	DI	
2528	0	MM-H053	Running Status	Transfer fan EF-H053 status	WB-H0503						CP-H30	DI	
2529	0	MM-H062	Running Status	Supply fan AHU-H062 status	WB-H0503						CP-H30	DI	
2530	0	TI-H062A	Temperature Indication	Electrical Room No.1 Temperature T-H062A	WB-H0503						CP-H30	AI	
2531	1	YA-H034	General Alarm	Maintenance Workshop System General Alarm	WB-H0503						CP-H30	DI	
2532	1	YA-H043	General Alarm	Maintenance Workshop WR Exhaust System General Alarm	WB-H0503						CP-H30	DI	
2533	1	YA-H041	General Alarm	Mechanical Room No.3 System General Alarm	WB-H0503						CP-H30	DI	
2534	0	YA-H051	General Alarm	DAF Process System General Alarm	WB-H0503						CP-H30	DI	
2535	0	YA-H062	General Alarm	Electrical Room No.1 System General Alarm	WB-H0503						CP-H30	DI	
2536	1	MM-H061	Running Status	Supply fan AHU-H061 status	WB-H0504						CP-H30	DI	
2537	1	TI-H061A	Temperature Indication	Raw Water Pump Room Temperature T-H061A	WB-H0504						CP-H30	AI	
2538	1	TI-H061B	Temperature Indication	Raw Water Pump Room Temperature T-H061B	WB-H0504						CP-H30	AI	
2539	1	MM-H063	Running Status	Exhaust fan EF-H063 status	WB-H0504						CP-H30	DI	
2540	1	TI-H063A	Temperature Indication	Fire Pump Room Temperature T-H063A	WB-H0504						CP-H30	AI	
2541	1	MM-H064	Running Status	Exhaust fan EF-H064 status	WB-H0504						CP-H30	DI	
2542	1	TI-H064A	Temperature Indication	Mechanical Room No.1 Temperature T-H064A	WB-H0504						CP-H30	AI	
2543	1	MM-H071	Running Status	Supply fan AHU-H071 status	WB-H0504						CP-H30	DI	
2544	1	MM-H073	Running Status	Exhaust fan EF-H073 status	WB-H0504						CP-H30	DI	
2545	1	MM-H074	Running Status	Exhaust fan EF-H074 status	WB-H0504						CP-H30	DI	
2546	1	TI-H074A	Temperature Indication	Mechanical Room No.1 Temperature T-H074A	WB-H0504						CP-H30	AI	
2547	1	MM-H075	Running Status	Exhaust fan EF-H075 status	WB-H0504						CP-H30	DI	
2548	1	MM-H076	Running Status	Exhaust fan EF-H076 status	WB-H0504						CP-H30	DI	
2549	1	MM-H079	Running Status	Exhaust fan EF-H079 status	WB-H0504						CP-H30	DI	
2550	1	TI-H079A	Temperature Indication	Electrical Closet Temperature T-H097A	WB-H0504						CP-H30	AI	
2551	1	YA-H061	General Alarm	Raw Water Pump Room System General Alarm	WB-H0504						CP-H30	DI	
2552	1	YA-H063	General Alarm	Fire Pump Room System General Alarm	WB-H0504						CP-H30	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION		P&ID DRAWING	I/O SPECIFICATION							
			FUNCTION	SERVICE		ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
2553	1	YA-H071	General Alarm	Admin Area Ventilation System General Alarm	WB-H0504						CP-H30	DI	
2554	1	YA-H073	General Alarm	Sanitary Exhaust System General Alarm	WB-H0504						CP-H30	DI	
2555	1	YA-H079	General Alarm	Electrical Closet Exhaust System General Alarm	WB-H0504						CP-H30	DI	
2556	1	YA-H064	General Alarm	Mechanical Room No.1 System General Alarm	WB-H0504						CP-H30	DI	
2557	1	YA-H074	General Alarm	Mechanical Room No.1 System General Alarm	WB-H0504						CP-H30	DI	
2558	1	MM-H045	Running Status	Heat Pump HP-H045 status	WB-H0504						CP-H30	DI	
2559	1	TI-H045	Temperature Indication	Instrumentation Repair Shop Zone Temperature T-H045A	WB-H0504						CP-H30	AI	
2560	1	YA-H045	General Alarm	Heat Pump HP-H045 System General Alarm	WB-H0504						CP-H30	DI	
2561	1	MM-H046	Running Status	Heat Pump HP-H046 status	WB-H0504						CP-H30	DI	
2562	1	TI-H046	Temperature Indication	Backup Server Room Zone Temperature T-H046A	WB-H0504						CP-H30	AI	
2563	1	YA-H046	General Alarm	Heat Pump HP-H046 System General Alarm	WB-H0504						CP-H30	DI	
2564	1	MM-H070	Running Status	Heat Pump HP-H070 status	WB-H0504						CP-H30	DI	
2565	1	TI-H070	Temperature Indication	Server Room Zone Temperature T-H070A	WB-H0504						CP-H30	AI	
2566	1	YA-H070	General Alarm	Heat Pump HP-H070 System General Alarm	WB-H0504						CP-H30	DI	
2567	1	MM-H077	Running Status	Heat Pump HP-H077 status	WB-H0504						CP-H30	DI	
2568	1	TI-H077	Temperature Indication	Control Room Zone Temperature T-H077A	WB-H0504						CP-H30	AI	
2569	1	YA-H077	General Alarm	Heat Pump HP-H077 System General Alarm	WB-H0504						CP-H30	DI	
2570	1	MM-H078	Running Status	Heat Pump HP-H078 status	WB-H0504						CP-H30	DI	
2571	1	TI-H078	Temperature Indication	Womens Change Room Zone Temperature T-H078A	WB-H0504						CP-H30	AI	
2572	1	YA-H078	General Alarm	Heat Pump HP-H078 System General Alarm	WB-H0504						CP-H30	DI	
2573	1	MM-H079	Running Status	Heat Pump HP-H079 status	WB-H0504						CP-H30	DI	
2574	1	TI-H079A	Temperature Indication	Mens Change Room Zone Temperature T-H079A	WB-H0504						CP-H30	AI	
2575	1	YA-H079	General Alarm	Heat Pump HP-H079 System General Alarm	WB-H0504						CP-H30	DI	
2576	1	MM-H080	Running Status	Heat Pump HP-H080 status	WB-H0504						CP-H30	DI	
2577	1	TI-H080A	Temperature Indication	Technicians Area Zone Temperature T-H080A	WB-H0504						CP-H30	AI	
2578	1	YA-H080	General Alarm	Heat Pump HP-H080 System General Alarm	WB-H0504						CP-H30	DI	
2579	1	MM-H080	Running Status	Heat Pump HP-H080 status	WB-H0504						CP-H30	DI	
2580	1	TI-H080A	Temperature Indication	Technicians Area Zone Temperature T-H080A	WB-H0504						CP-H30	AI	
2581	1	YA-H080	General Alarm	Heat Pump HP-H080 System General Alarm	WB-H0504						CP-H30	DI	
2582	1	MM-H081	Running Status	Heat Pump HP-H081 status	WB-H0504						CP-H30	DI	
2583	1	TI-H081A	Temperature Indication	UPS Room Zone Temperature T-H081A	WB-H0504						CP-H30	AI	
2584	1	YA-H081	General Alarm	Heat Pump HP-H081 System General Alarm	WB-H0504						CP-H30	DI	
2585	1	MM-H082	Running Status	Heat Pump HP-H082 status	WB-H0504						CP-H30	DI	
2586	1	TI-H082A	Temperature Indication	Lunch Room Zone Temperature T-H082A	WB-H0504						CP-H30	AI	
2587	1	YA-H082	General Alarm	Heat Pump HP-H082 System General Alarm	WB-H0504						CP-H30	DI	
2588	1	MM-H083	Running Status	Heat Pump HP-H083 status	WB-H0504						CP-H30	DI	
2589	1	TI-H083A	Temperature Indication	Offices 1-2, 1-3, 1-4 Zone Temperature T-H083A	WB-H0504						CP-H30	AI	
2590	1	YA-H083	General Alarm	Heat Pump HP-H083 System General Alarm	WB-H0504						CP-H30	DI	
2591	1	MM-H084	Running Status	Heat Pump HP-H084 status	WB-H0504						CP-H30	DI	
2592	1	TI-H084A	Temperature Indication	Offices 1-1 Zone Temperature T-H084A	WB-H0504						CP-H30	AI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION			I/O SPECIFICATION							
			FUNCTION	SERVICE	P&ID DRAWING	ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS
							LOW	HIGH	LOW	HIGH			
2593	1	YA-H084	General Alarm	Heat Pump HP-H084 System General Alarm	WB-H0504						CP-H30	DI	
2594	1	MM-H085	Running Status	Heat Pump HP-H085 status	WB-H0504						CP-H30	DI	
2595	1	TI-H085A	Temperature Indication	Conference Room Zone Temperature T-H085A	WB-H0504						CP-H30	AI	
2596	1	YA-H085	General Alarm	Heat Pump HP-H085 System General Alarm	WB-H0504						CP-H30	DI	
2597	1	MM-H086	Running Status	Heat Pump HP-H086 status	WB-H0504						CP-H30	DI	
2598	1	TI-H086A	Temperature Indication	Stair No.1 Zone Temperature T-H086A	WB-H0504						CP-H30	AI	
2599	1	YA-H086	General Alarm	Heat Pump HP-H086 System General Alarm	WB-H0504						CP-H30	DI	
2600	1	MM-H087	Running Status	Heat Pump HP-H087 status	WB-H0504						CP-H30	DI	
2601	1	TI-H087A	Temperature Indication	Laboratory Zone Temperature T-H087A	WB-H0504						CP-H30	AI	
2602	1	YA-H087	General Alarm	Heat Pump HP-H087 System General Alarm	WB-H0504						CP-H30	DI	
2603	1	MM-H088	Running Status	Heat Pump HP-H088 status	WB-H0504						CP-H30	DI	
2604	1	TI-H088A	Temperature Indication	Offices 2, 3, 4-4 Zone Temperature T-H088A	WB-H0504						CP-H30	AI	
2605	1	YA-H088	General Alarm	Heat Pump HP-H088 System General Alarm	WB-H0504						CP-H30	DI	
2606	1	MM-H089	Running Status	Heat Pump HP-H089 status	WB-H0504						CP-H30	DI	
2607	1	TI-H089A	Temperature Indication	Reception Zone Temperature T-H089A	WB-H0504						CP-H30	AI	
2608	1	YA-H089	General Alarm	Heat Pump HP-H089 System General Alarm	WB-H0504						CP-H30	DI	
2609	1	MM-H090	Running Status	Heat Pump HP-H090 status	WB-H0504						CP-H30	DI	
2610	1	TI-H090A	Temperature Indication	Offices 3, 6-9 Zone Temperature T-H090A	WB-H0504						CP-H30	AI	
2611	1	YA-H090	General Alarm	Heat Pump HP-H090 System General Alarm	WB-H0504						CP-H30	DI	
2612	1	MM-H091	Running Status	Heat Pump HP-H091 status	WB-H0504						CP-H30	DI	
2613	1	TI-H091A	Temperature Indication	Conference Room No.1 Zone Temperature T-H091A	WB-H0504						CP-H30	AI	
2614	1	YA-H091	General Alarm	Heat Pump HP-H091 System General Alarm	WB-H0504						CP-H30	DI	
2615	1	MM-H092	Running Status	Heat Pump HP-H092 status	WB-H0504						CP-H30	DI	
2616	1	TI-H092A	Temperature Indication	Conference Room No.2 Zone Temperature T-H092A	WB-H0504						CP-H30	AI	
2617	1	YA-H092	General Alarm	Heat Pump HP-H092 System General Alarm	WB-H0504						CP-H30	DI	
2618	1	MM-H093	Running Status	Heat Pump HP-H093 status	WB-H0504						CP-H30	DI	
2619	1	TI-H093A	Temperature Indication	Office No.2 and General Office Zone Temperature T-H093A	WB-H0504						CP-H30	AI	
2620	1	YA-H093	General Alarm	Heat Pump HP-H093 System General Alarm	WB-H0504						CP-H30	DI	
2621	1	MM-H094	Running Status	Heat Pump HP-H094 status	WB-H0504						CP-H30	DI	
2622	1	TI-H094A	Temperature Indication	Office No.1 Zone Temperature T-H094A	WB-H0504						CP-H30	AI	
2623	1	YA-H094	General Alarm	Heat Pump HP-H094 System General Alarm	WB-H0504						CP-H30	DI	
2624	1	MM-H095	Running Status	Heat Pump HP-H095 status	WB-H0504						CP-H30	DI	
2625	1	TI-H095A	Temperature Indication	Office No.4-5 Zone Temperature T-H095A	WB-H0504						CP-H30	AI	
2626	1	YA-H095	General Alarm	Heat Pump HP-H095 System General Alarm	WB-H0504						CP-H30	DI	
2627	1	MM-H096	Running Status	Heat Pump HP-H096 status	WB-H0504						CP-H30	DI	
2628	1	TI-H096A	Temperature Indication	Lobby and Vestibule Zone Temperature T-H096A	WB-H0504						CP-H30	AI	
2629	1	YA-H096	General Alarm	Heat Pump HP-H096 System General Alarm	WB-H0504						CP-H30	DI	
2630	1	MM-H097	Running Status	Heat Pump HP-H097 status	WB-H0504						CP-H30	DI	
2631	1	TI-H097A	Temperature Indication	Elevator Machine Room Cooling Zone Temperature T-H097A	WB-H0504						CP-H30	AI	
2632	1	YA-H097	General Alarm	Heat Pump HP-H097 System General Alarm	WB-H0504						CP-H30	DI	
2633	1	MM-H098	Running Status	Heat Pump HP-H098 status	WB-H0504						CP-H30	DI	

I/O POINT TYPES: TCP = Modbus/TCP Ethernet, AI = Analog Input, AO = Analog Output, DI = Discrete Input, DO = Discrete Output

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION		P&ID DRAWING	I/O SPECIFICATION								
			FUNCTION	SERVICE		ENG. UNITS	SCALE		ALARMS		PLC CABINET	I/O TYPE	I/O ADDRESS	
							LOW	HIGH	LOW	HIGH				
2634	1	TI-H098A	Temperature Indication	Corridor No.3 Zone Temperature T-H098A	WB-H0504							CP-H30	AI	
2635	1	YA-H098	General Alarm	Heat Pump HP-H098 System General Alarm	WB-H0504							CP-H30	DI	
2636	1	MM-H099	Running Status	Heat Pump HP-H099 status	WB-H0504							CP-H30	DI	
2637	1	TI-H099A	Temperature Indication	Library Zone Temperature T-H099A	WB-H0504							CP-H30	AI	
2638	1	YA-H099	General Alarm	Heat Pump HP-H099 System General Alarm	WB-H0504							CP-H30	DI	
2639	1	MM-H007	Running Status	Cooling Water Pump P-H007 status	WB-H0506							CP-H30	DI	
2640	1	MM-H008	Running Status	Cooling Water Pump P-H008 status	WB-H0506							CP-H30	DI	
2641	1	MM-H016	Running Status	Condenser Water Pump P-H016 status	WB-H0506							CP-H30	DI	
2642	1	MM-H017	Running Status	Condenser Water Pump P-H017 status	WB-H0506							CP-H30	DI	
2643	1	FA-H711A	Flow Alarm	Emergency Eyewash Operating	WB-H0533								DI	
2644	1	FA-H712A	Flow Alarm	Emergency Eyewash Operating	WB-H0533								DI	
2645	1	FA-H713A	Flow Alarm	Emergency Eyewash Operating	WB-H0533								DI	
2646	1	FA-H701A	Flow Alarm	Emergency Shower Operating	WB-H0533								DI	
2647	1	FA-H702A	Flow Alarm	Emergency Shower Operating	WB-H0533								DI	
2648	1	FA-H703A	Flow Alarm	Emergency Shower Operating	WB-H0533								DI	
2649	1		Caustic Chemical Feed Line Heat Trace Alarm										DI	
2650			Miscellaneous Alarms	UPS #1									DI	
2651			Miscellaneous Alarms	UPS #1									DI	
2652			Miscellaneous Alarms	UPS #1									DI	
2653			Miscellaneous Alarms	UPS #1									DI	
2654			Miscellaneous Alarms	UPS #1									DI	
2655			Miscellaneous Alarms	UPS #1									AI	
2656			Miscellaneous Alarms	UPS #1									AI	
2657			Miscellaneous Alarms	UPS #1									AI	
2658			Miscellaneous Alarms	UPS #2									DI	
2659			Miscellaneous Alarms	UPS #2									DI	
2660			Miscellaneous Alarms	UPS #2									DI	
2661			Miscellaneous Alarms	UPS #2									DI	
2662			Miscellaneous Alarms	UPS #2									DI	
2663			Miscellaneous Alarms	UPS #2									AI	
2664			Miscellaneous Alarms	UPS #2									AI	
2665			Miscellaneous Alarms	UPS #2									AI	