

Instrument List
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Tylehurst Lift Station Upgrades
1042-2025
Project Number: 8400-011-00
1/9/2026

Tag Name	Instrument Description	Location	Standardized Instrument	Specification	P&ID Drawing	Loop Diagram	Comments
LT-S751	CSO Level Transmitter Upstream of Weir	(Field)		-	-	1-0193L-A0052	Existing
LI-S751	CSO Level Display Upstream of Weir	Main Floor		-	-	1-0193L-A0052	Located on existing CSO Panel
FE-S761-1	CSO Flow 1 Upstream of Weir	(Field)		-	-	1-0193L-A0051	Existing
FE-S761-2	CSO Flow 2 Upstream of Weir	(Field)		-	-	1-0193L-A0051	Existing
FIT-S761	CSO Flow Upstream of Weir Transmitter	Main Floor		-	-	1-0193L-A0051	Located in existing CSO Panel
LT-S951 (TYL-S-951-LIT)	CSO Level Transmitter Downstream of Flap Gate	(Field)		-	-	1-0193L-A0052	Existing
LI-S951 (TYL-S-951-LI)	CSO Level Display Downstream of Flap Gate	Main Floor		-	-	1-0193L-A0052	Located on existing CSO Panel
ZI-S851 (TYL-S-851-ZI)	CSO Flap Gate Inclination Display	Main Floor		-	-	1-0193L-A0053	Located on existing CSO Panel
ZT-S851 (TYL-S-851-ZT1)	CSO Flap Gate Inclination Transmitter	(Field)		-	-	1-0193L-A0053	Existing
AE-L510-1	H2S Gas Sensor	Pump Room	Yes	40 30 02	1-0193L-P0003-001	1-0193L-A0022	Supplied with AIT-L510
AE-L510-2	H2S Gas Sensor	Comminutor Chamber	Yes	40 30 02	1-0193L-P0003-001	1-0193L-A0022	Supplied with AIT-L510
AIT-L510	H2S Gas Transmitter	Pump Room	Yes	40 30 02	1-0193L-P0003-001	1-0193L-A0022	
AE-L520-1	Methane Gas Sensor	Generator Room	Yes	40 30 02	1-0193L-P0004-001	1-0193L-A0023	Supplied with AIT-L520
AE-L520-2	CO Gas Sensor	Generator Room	Yes	40 30 02	1-0193L-P0004-001	1-0193L-A0023	Supplied with AIT-L520
AIT-L520	Generator Room Gas Transmitter	Main Floor	Yes	40 30 02	1-0193L-P0004-001	1-0193L-A0023	
ESL-L72E1	600 VAC Power Fail Relay	Main Floor		26 24 19	-	1-0193L-E0017	Supplied with MCC-L72E
ESL-L812	120 VAC Power Fail Relay 1	Main Floor		-	-	1-0193L-A0006	Supplied with PLC Control Panel CP-L81.
FE-L012	P-L01 Discharge Flow Sensor	Motor Room	Yes	40 30 02	1-0193L-P0002-001	1-0193L-A0024	Supplied with FIT-L012
FE-L022	P-L02 Discharge Flow Sensor	Motor Room	Yes	40 30 02	1-0193L-P0002-002	1-0193L-A0025	Supplied with FIT-L022
FE-L032	P-L03 Discharge Flow Sensor	Motor Room	Yes	40 30 02	1-0193L-P0002-002	1-0193L-A0026	Supplied with FIT-L032
FIT-L012	P-L01 Discharge Flow Transmitter	Motor Room	Yes	40 30 02	1-0193L-P0002-001	1-0193L-A0024	
FIT-L022	P-L02 Discharge Flow Transmitter	Motor Room	Yes	40 30 02	1-0193L-P0002-002	1-0193L-A0025	
FIT-L032	P-L03 Discharge Flow Transmitter	Motor Room	Yes	40 30 02	1-0193L-P0002-002	1-0193L-A0026	
FSL-L011	P-L01 Seal Water Flow Switch	Pump Room		40 30 02	1-0193L-P0002-001	1-0193L-A0038	
FSL-L021	P-L02 Seal Water Flow Switch	Pump Room		40 30 02	1-0193L-P0002-002	1-0193L-A0040	
FSL-L031	P-L03 Seal Water Flow Switch	Pump Room		40 30 02	1-0193L-P0002-002	1-0193L-A0042	
FSL-L613	HVAC Supply Duct Air Proving Switch	Main Floor		40 30 02	1-0193L-P0003-001	1-0193L-A0030	
FSL-L622	HVAC Exhaust Duct Air Proving Switch	Main Floor		40 30 02	1-0193L-P0003-001	1-0193L-A0030	
FV-L611	HVAC Ventilation Supply Air Damper	Main Floor		23 33 15	1-0193L-P0003-001	1-0193L-A0032	Modulating, 24 VAC power supply, 0 - 10 VDC
FV-L612	HVAC Ventilation Return Air Damper	Main Floor		23 33 15	1-0193L-P0003-001	1-0193L-A0032	Modulating, 24 VAC power supply, 0 - 10 VDC
FV-L621	HVAC Ventilation Exhaust Air Damper	Main Floor		23 33 15	1-0193L-P0003-001	1-0193L-A0032	Modulating, 24 VAC power supply, 0 - 10 VDC
FV-L631	Generator Room Exhaust Fan Damper	Generator Room		23 33 15	1-0193L-P0004-001	1-0193L-A0034	Modulating, 24 VAC power supply, 0 - 10 VDC
FV-L632	Generator Combustion Intake Air Damper	Generator Room		23 33 15	1-0193L-P0004-001	1-0193L-A0035	Modulating, 24 VAC power supply, 0-10 VDC
FV-L633	Generator Cooling Intake Air Damper	Generator Room		23 33 15	1-0193L-P0004-001	1-0193L-A0035	Modulating, 24 VAC power supply, 0-10 VDC
FV-L634-1	Generator Cooling Exhaust Air Damper	Generator Room		23 33 15	1-0193L-P0004-001	1-0193L-A0035	Modulating, 24 VAC power supply, 0-10 VDC
FV-L634-2	Generator Cooling Recirculation 1 Air Damper	Generator Room		23 33 15	1-0193L-P0004-001	1-0193L-A0035	Modulating, 24 VAC power supply, 0-10 VDC
FV-L634-3	Generator Cooling Recirculation 2 Air Damper	Generator Room		23 33 15	1-0193L-P0004-001	1-0193L-A0035	Modulating, 24 VAC power supply, 0-10 VDC
HS-L604-1	Main Floor Light Switch	Main Floor		40 30 02	1-0193L-P0003-001	1-0193L-A0031	
HS-L604-2	Generator Room Light Switch	Generator Room		40 30 02	1-0193L-P0004-001	1-0193L-A0031	
HS-L817	Alarm Test Mode Switch	Main Floor		-	-	-	Supplied with PLC Control Panel CP-L81.
HSS-L010-2	Lift Pump P-L01 Emergency Stop	Motor Room		40 90 01	1-0193L-P0002-001	1-0193L-E0008	
HSS-L010-3	Lift Pump P-L01 Emergency Stop	Pump Room		40 90 01	1-0193L-P0002-001	1-0193L-E0008	
HSS-L020-2	Lift Pump P-L02 Emergency Stop	Motor Room		40 90 01	1-0193L-P0002-002	1-0193L-E0010	
HSS-L020-3	Lift Pump P-L02 Emergency Stop	Pump Room		40 90 01	1-0193L-P0002-002	1-0193L-E0010	
HSS-L030-2	Lift Pump P-L03 Emergency Stop	Motor Room		40 90 01	1-0193L-P0002-002	1-0193L-E0012	
HSS-L030-3	Lift Pump P-L03 Emergency Stop	Pump Room		40 90 01	1-0193L-P0002-002	1-0193L-E0012	
LG-L100-1	Wet Well Level Gauge 1	Pump Room		-	1-0193L-P0002-001	-	
LG-L100-2	Wet Well Level Gauge 2	Pump Room		-	1-0193L-P0002-001	-	
LIC-L100-1	Wet Well Level Controller 1	Main Floor		40 92 00	1-0193L-P0002-001	1-0193L-A0020	
LIC-L100-2	Wet Well Level Controller 2	Main Floor		40 92 00	1-0193L-P0002-001	1-0193L-A0021	
LIT-L100-1	Wet Well Level Transmitter 1	Pump Room	Yes	40 30 02	1-0193L-P0002-001	1-0193L-A0020	
LIT-L100-2	Wet Well Level Transmitter 2	Pump Room	Yes	40 30 02	1-0193L-P0002-001	1-0193L-A0021	
LSHH-L101	Wet Well High High Level Float Switch	Wet Well		40 30 02	1-0193L-P0002-001	1-0193L-A0027	
LSH-L501	Pump Room Flood Float Switch	Pump Room		40 30 02	1-0193L-P0002-001	1-0193L-A0028	
LSH-L502	Comminutor Chamber Flood Float Switch	Comminutor Chamber		40 30 02	1-0193L-P0002-001	1-0193L-A0028	
LSH-S663	CSO Weir Overflow Alarm Float Switch	Gate Chamber		40 30 02	1-0193L-P0002-001	1-0193L-A0029	
PDSH-L601	HVAC Supply Air Filter Differential Pressure Switch	Main Floor		40 30 02	1-0193L-P0003-001	1-0193L-A0030	
PSL-L526	Potable Water Supply Low Pressure Switch	Motor Room		40 30 02	1-0193L-P0002-001	1-0193L-A0047	
TE-L600	HVAC Supply Duct Temperature Sensor	Main Floor		40 30 02	1-0193L-P0003-001	1-0193L-A0033	Installed in duct downstream of duct heater
TE-L635-1	Generator room Temperature Sensor 1	Generator Room		40 30 02	1-0193L-P0004-001	1-0193L-A0036	
TE-L635-2	Generator room Temperature Sensor 2	Generator Room		40 30 02	1-0193L-P0004-001	1-0193L-A0036	

Tag Name	Instrument Description	Location	Standardized Instrument	Specification	P&ID Drawing	Loop Diagram	Comments
TIC-L600	HVAC Temperature Controller	Main Floor		40 92 00	1-0193L-P0003-001	1-0193L-A0033	Installed in CP-L83
TIC-L630	Generator Cooling Controller	Generator Room		40 92 00	1-0193L-P0004-001	1-0193L-A0036	
TSH-L011	P-L01 Motor High Temperature Switch	Motor Room		-	1-0193L-P0002-001	1-0193L-A0048	Supplied with MTR-L01
TSH-L021	P-L02 Motor High Temperature Switch	Motor Room		-	1-0193L-P0002-002	1-0193L-A0049	Supplied with MTR-L02
TSH-L031	P-L03 Motor High Temperature Switch	Motor Room		-	1-0193L-P0002-002	1-0193L-A0050	Supplied with MTR-L03
TSH-L600	Main Floor High Temperature Switch	Main Floor		40 30 02	1-0193L-P0003-001	1-0193L-A0031	Wired to TIC-L600 for modulation control, does not go to PLC
TS-L631	Motor Room Heater Thermostat	Motor Room		-	1-0193L-P0003-001	-	Supplied with UH-L63
TS-L661	Main Floor Heater Thermostat	Main Floor		-	1-0193L-P0003-001	-	Supplied with UH-L66
TS-L671	Generator Room Heater Thermostat	Main Floor		-	1-0193L-P0004-001	-	Supplied with UH-L67
TS-L681	Lower Level Unit Heater Thermostat	Basement		-	1-0193L-P0003-001	-	Supplied with UH-L68
TS-L691	Pump Room Unit Heater Thermostat	Pump Room		-	1-0193L-P0003-001	-	Supplied with UH-L692
TSL-L600	Exterior Low Temperature Switch	Exterior		40 30 02	1-0193L-P0003-001	1-0193L-A0031	Wired to TIC-L600 for modulation control, does not go to PLC
TE-L010-1	P-L01 Upper Drive shaft Bearing Temperature Transmitter	Motor Room		40 30 02	1-0193L-P0002-001	1-0193L-A0039	Emerson AMS Sensor
TE-L010-2	P-L01 Lower Drive Shaft Bearing Temperature Transmitter	Pump Room		40 30 02	1-0193L-P0002-001	1-0193L-A0039	Emerson AMS Sensor
TE-L020-1	P-L02 Upper Drive shaft Bearing Temperature Transmitter	Motor Room		40 30 02	1-0193L-P0002-002	1-0193L-A0041	Emerson AMS Sensor
TE-L020-2	P-L02 Lower Drive Shaft Bearing Temperature Transmitter	Pump Room		40 30 02	1-0193L-P0002-002	1-0193L-A0041	Emerson AMS Sensor
TE-L030-1	P-L03 Upper Drive shaft Bearing Temperature Transmitter	Motor Room		40 30 02	1-0193L-P0002-002	1-0193L-A0043	Emerson AMS Sensor
TE-L030-2	P-L03 Lower Drive Shaft Bearing Temperature Transmitter	Pump Room		40 30 02	1-0193L-P0002-002	1-0193L-A0043	Emerson AMS Sensor
TT-L635	Generator Room Temperature Transmitter	Generator Room	Yes	40 30 02	1-0193L-P0004-001	1-0193L-A0036	
TT-L661	Main Floor Temperature Transmitter	Main Floor	Yes	40 30 02	1-0193L-P0003-001	1-0193L-A0044	
TT-L691	Motor Room Temperature Transmitter	Motor Room	Yes	40 30 02	1-0193L-P0003-001	1-0193L-A0045	
TT-L692	Pump Room Temperature Transmitter	Pump Room	Yes	40 30 02	1-0193L-P0003-001	1-0193L-A0046	
TY-L651	Duct Heater HCE-L65 SCR Controller	Main Floor		-	1-0193L-P0003-001	1-0193L-A0033	Supplied with Duct Heater HCE-L67
FDP-L010	P-L01 Bearing Monitoring System	Motor Room		Section E 27.8.1	1-0193L-P0002-001	1-0193L-A0039	
FDP-L020	P-L02 Bearing Monitoring System	Motor Room		Section E 27.8.1	1-0193L-P0002-002	1-0193L-A0041	
FDP-L030	P-L03 Bearing Monitoring System	Motor Room		Section E 27.8.1	1-0193L-P0002-002	1-0193L-A0043	
VE-L010-1	P-L01 Upper Drive shaft Bearing Vibration Transmitter	Motor Room		Section E 27.8.1	1-0193L-P0002-001	1-0193L-A0039	CTC Vibration AMS Sensor
VE-L010-2	P-L01 Lower Drive Shaft Bearing Vibration Transmitter	Pump Room		Section E 27.8.1	1-0193L-P0002-001	1-0193L-A0039	CTC Vibration AMS Sensor
VE-L020-1	P-L02 Upper Drive shaft Bearing Vibration Transmitter	Motor Room		Section E 27.8.1	1-0193L-P0002-002	1-0193L-A0041	CTC Vibration AMS Sensor
VE-L020-2	P-L02 Lower Drive Shaft Bearing Vibration Transmitter	Pump Room		Section E 27.8.1	1-0193L-P0002-002	1-0193L-A0041	CTC Vibration AMS Sensor
VE-L030-1	P-L03 Upper Drive shaft Bearing Vibration Transmitter	Motor Room		Section E 27.8.1	1-0193L-P0002-002	1-0193L-A0043	CTC Vibration AMS Sensor
VE-L030-2	P-L03 Lower Drive Shaft Bearing Vibration Transmitter	Pump Room		Section E 27.8.1	1-0193L-P0002-002	1-0193L-A0043	CTC Vibration AMS Sensor
XS-L711	MCC-L71 SPD Status Relay	Main Floor		26 24 19	-	1-0193L-E0017	Supplied with MCC-L71
XV-L010	Lift Pump P-L01 Seal Water Solenoid	Pump Room		40 30 02	1-0193L-P0002-001	1-0193L-E0008	
XV-L020	Lift Pump P-L02 Seal Water Solenoid	Pump Room		40 30 02	1-0193L-P0002-002	1-0193L-E0010	
XV-L030	Lift Pump P-L03 Seal Water Solenoid	Pump Room		40 30 02	1-0193L-P0002-002	1-0193L-E0012	