

 SNC-LAVALIN	INSTRUMENT LIST		Document Code	508042-0000-48EL-0001
			Revision	00
Client City of Winnipeg				
Project Montcalm Wastewater Pumping Station Upgrades				
Package / Area				
Prepared By	Name	Signature	Date	
	V. Elimban		2012-02-23	
Checked By	Name	Signature	Date	
	C. Reimer		2012-02-23	
Approved By	Name	Signature	Date	
	C. Reimer		2012-02-23	
Notes / Comments			Seal	
			Original Sealed By: C. J. Reimer SNC-Lavalin Inc. Member #21968 2012/02/23 Rev. 00	

Revisions					
Rev	Description	Date	By	Checked	Approved
00	Issued For Tender	2012-02-23	V. Elimban	C. Reimer	C. Reimer



INSTRUMENT LIST

Rev Tag	Description	Plan Drawing	P&ID Drawing	Schem / Loop Drawing	Installation Detail	Mounting	Supplied By	Notes
00 L500-LT-A	Wet Well Level Transmitter (Submersible)	1-0164L-A0016	1-0164L-P0001	1-0164L-A0030	1-0164L-A0016	Suspended	Contractor - I&C	Submersible, Hydrostatic Pressure, 20m cable
00 L500-LT-B	Wet Well Level Transmitter (Bubbler)	1-0164L-E0006	1-0164L-P0001	1-0164L-A0031		Wall	Existing	DP Cell, Bubbler
00 L501-HS-1	Emergency Stop PB	1-0164L-E0006	1-0164L-P0002	1-0164L-E0018		Wall	Contractor - I&C	
00 L501-HS-2	Emergency Stop PB	1-0164L-E0007	1-0164L-P0002	1-0164L-E0018		Wall	Contractor - I&C	
00 L502-HS-1	Emergency Stop PB	1-0164L-E0006	1-0164L-P0002	1-0164L-E0021		Wall	Contractor - I&C	
00 L502-HS-2	Emergency Stop PB	1-0164L-E0007	1-0164L-P0002	1-0164L-E0021		Wall	Contractor - I&C	
00 L503-HS-1	Emergency Stop PB	1-0164L-E0006	1-0164L-P0003	1-0164L-E0023		Wall	Contractor - I&C	
00 L503-HS-2	Emergency Stop PB	1-0164L-E0007	1-0164L-P0003	1-0164L-E0023		Wall	Contractor - I&C	
00 L504-HS-1	Emergency Stop PB	1-0164L-E0006	1-0164L-P0003	1-0164L-E0025		Wall	Contractor - I&C	
00 L504-HS-2	Emergency Stop PB	1-0164L-E0007	1-0164L-P0003	1-0164L-E0025		Wall	Contractor - I&C	
00 L530-LSH	Comminutor Room Flood Switch	1-0164L-E0006	1-0164L-P0007	1-0164L-A0037	1-0164L-A0017	Suspended	Contractor - I&C	Suspended tilt, Form C contact
00 L533-LSH	Pump Room Flood Switch	1-0164L-E0007	1-0164L-P0007	1-0164L-A0038	1-0164L-A0017	Suspended	Contractor - I&C	Suspended tilt, Form C contact
00 L524-PSL	Instrument Air Pressure Switch Low	1-0164L-E0006	1-0164L-P0001	1-0164L-A0035		Wall	Existing	
00 L552-FE	Magnetic Flow Tube	1-0164L-E0008	1-0164L-P0004	1-0164L-A0033	1-0164L-A0017	Pipe	City	
00 L552-FIT	Flow Transmitter	1-0164L-E0004	1-0164L-P0004	1-0164L-A0033		Wall	City	
00 L557-FE	Magnetic Flow Tube	1-0164L-E0008	1-0164L-P0004	1-0164L-A0034	1-0164L-A0017	Pipe	City	
00 L557-FIT	Flow Transmitter	1-0164L-E0004	1-0164L-P0004	1-0164L-A0034		Wall	City	
00 L527-ESL	600V Voltage Relay	1-0164L-E0004	1-0164L-P0007	1-0164L-A0036		Panel	Contractor - Electrical	Integral to PNL-L1
00 L544-ESL	120V Fail Detection	1-0164L-E0004	1-0164L-P0007	1-0164L-A0041		Panel	Contractor - Electrical	Integral to PDP-L1
00 L538-XY	Transient Voltage Surge Suppressor	1-0164L-E0004	1-0164L-P0007	1-0164L-A0040		Panel	Contractor - Electrical	Integral to PNL-L1
00 L570-LSL	Flow Meter Chamber Sump Low Level Float	1-0164L-E0008	1-0164L-P0004	1-0164L-E0027	1-0164L-A0017	Suspended	Contractor - I&C	Suspended tilt, Form C contact
00 L570-LSH	Flow Meter Chamber Sump High Level Float	1-0164L-E0008	1-0164L-P0004	1-0164L-E0027	1-0164L-A0017	Suspended	Contractor - I&C	Suspended tilt, Form C contact
00 L570-LSHH	Flow Meter Chamber Sump Hi-Hi Level Float	1-0164L-E0008	1-0164L-P0004	1-0164L-A0039	1-0164L-A0017	Suspended	Contractor - I&C	Suspended tilt, Form C contact
00 L601-FV-1	Intake Air Damper with Actuator	1-0164L-M0003	1-0164L-P0005	1-0164L-A0043		Damper	Contractor - HVAC	Modulating, 24 VAC power supply, 0 - 10 VDC control, 0 - 10 VDC feedback
00 L601-FV-2	Return Air Damper with Actuator	1-0164L-M0003	1-0164L-P0005	1-0164L-A0043		Damper	Contractor - HVAC	Modulating, 24 VAC power supply, 0 - 10 VDC control, 0 - 10 VDC feedback
00 L601-FV-3	Exhaust Air Damper with Actuator	1-0164L-M0003	1-0164L-P0005	1-0164L-A0043		Damper	Contractor - HVAC	Modulating, 24 VAC power supply, 0 - 10 VDC control, 0 - 10 VDC feedback
00 L602-TT	Duct Temperature Sensor		1-0164L-P0005	1-0164L-A0044		Duct	Contractor - I&C	PT-100 RTD, loop powered
00 L603-PDS-1	Air Filter (Summer) Differential Pressure Switch		1-0164L-P0005	1-0164L-A0047		-	Contractor - HVAC	Integral to AHU-L1
00 L603-PDS-2	Air Filter (Winter) Differential Pressure Switch		1-0164L-P0005	1-0164L-A0047		-	Contractor - HVAC	Integral to AHU-L1
00 L604-TT	Mechanical Room Temperature	1-0164L-E0004	1-0164L-P0005	1-0164L-A0048		Wall	Contractor - I&C	PT-100 RTD, loop powered
00 L605-XV	Exhaust Air Damper with Actuator	1-0164L-M0003	1-0164L-P0005	1-0164L-E0028		Damper	Contractor - HVAC	On/off, spring return, 120 VAC
00 L613-TT	Electrical Room Temperature	1-0164L-E0004	1-0164L-P0006	1-0164L-E0049		Wall	Contractor - I&C	PT-100 RTD, loop powered

Notes:

1. The specific division (Mechanical, HVAC, Electrical, I&C) indicated in the "Supplied By" column is a suggestion only. The Contractor may divide the supply of the instruments between subtrades as required.