

City of Winnipeg
Chlorine Ventilation Upgrades
At Regional Pumping Stations
Tender Opportunity 415-2025

APPENDIX B

Equipment Lists

 Equipment List - Maclean Station	Document Code 694715-0000-40EL-0001
	Revision 00
Client City of Winnipeg	
Project Chlorine Ventilation at Regional Pumping Stations	
Area Maclean Regional Pumping Station	

Notes / Comments

Revisions					
Rev	Description	Date	By	Checked	Approved
0	Issued for Tender and Construction	2025-04-30	B. Wilks	V. Elimban	V. Elimban

Maclean Station

Equipment Tag	Description	Training Required	Lamacoid	Shop Drawing Required	Drawing Number
<i>Chlorine Building "C"</i>					
SCBR-C670	Chlorine Gas Scrubber, 480V, 3φ, 3W, 40HP	Yes	Yes	Yes	1-0630M-E0024-001
CB-C670	90A, 3P Circuit Breaker Scrubber Feeder	No	Yes	Yes	1-0630M-E0024-001
XFMR-C670	600/480V, 3φ, 75kVA Autotransformer	No	Yes	Yes	1-0630M-E0073-001
DS-C670	Chlorine Gas Scrubber Disconnect Switch, 60A	No	Yes	Yes	1-0630M-E0024-001
XV-C6701	Scrubber SCBR-C670 Motorized Damper, 120V, 1φ	No	Yes	Yes	1-0630M-E0073-001
CB-C534	125A feed breaker for U-C534 Tankless Water Heater	No	Yes	Yes	1-0630M-E0023-001
CB-C535	125A feed breaker for U-C535 Tankless Water heater	No	Yes	Yes	1-0630M-E0023-001
U-C534	Tankless Water Heater 102kW, Chlorinator Equipment Room	Yes	Yes	Yes	1-0630M-E0023-001
U-C535	Tankless Water Heater 102kW, Ammonia Room	Yes	Yes	Yes	1-0630M-E0023-001
OD-C597	Tonner Storage Room Overhead Door	Yes	Yes	Yes	1-0630M-E0024-001
DS-C597	Tonner Storage Room Overhead Door Disconnect Switch	No	Yes	Yes	1-0630M-E0024-001
AHU-C601	Make-Up Air Unit, 600V, 3φ, 3W, 119KW	Yes	Yes	Yes	1-0630M-E0024-001
CB-C601	150A, 3P Circuit Breaker	No	Yes	Yes	1-0630M-E0024-001
CP-C601	AHU-C601 Ventilation Control Panel	No	Yes	Yes	1-0630M-E0071-001
DS-C601	AHU-C601 Disconnect Switch, 200A	No	Yes	Yes	1-0630M-E0024-001
HCE-C620	Duct Heater Heating Coil Element, 600V, 3φ, 3W, 20kW	No	Yes	Yes	1-0630M-E0025-001
CB-C620	30A, 3P Circuit Breaker	No	Yes	Yes	1-0630M-E0025-001
EF-C640	Exhaust Fan, 600V, 3φ, 3W, 1.5 HP, 2.4 FLA	No	Yes	Yes	1-0630M-E0025-001
DS-C640	Exhaust Fan EF-C640 15A Disconnect Switch	No	Yes	Yes	1-0630M-E0025-001
XV-C6401	Exhaust Fan EF-C640 ON/OFF Damper, 120V, 1φ	No	Yes	Yes	1-0630M-E0079-001
EF-C641	Exhaust Fan, 120V, 1φ, 1.25 HP, 5.8 FLA	No	Yes	Yes	1-0630M-E0080-001
MS-C641	Exhaust Fan EF-C641 Motor Starter Panel	No	Yes	Yes	1-0630M-E0080-001
XV-C6411	Exhaust Fan EF-C641 ON/OFF Damper, 120V, 1φ	No	Yes	Yes	1-0630M-E0080-001
DS-C641	Exhaust Fan EF-C641 Disconnect switch 15A, single phase	No	Yes	Yes	1-0630M-E0080-001
EF-C642	Exhaust Fan, 120V, 1φ, 0.5 HP, 5.8 FLA	No	Yes	Yes	1-0630M-E0082-001
MS-C642	Exhaust Fan EF-C642 Motor Starter Panel	No	Yes	Yes	1-0630M-E0082-001
XV-C6421	Exhaust Fan EF-C642 ON/OFF Damper, 120V, 1φ	No	Yes	Yes	1-0630M-E0082-001
DS-C642	Exhaust Fan EF-C642 Disconnect switch 15A, single phase	No	Yes	Yes	1-0630M-E0080-001
UH-C663	Unit Heater, 4kW, 208V, 1φ	No	Yes	Yes	1-0630M-E0073-001
UH-C664	Unit Heater, 1.5kW, 120V, 1φ	No	Yes	Yes	1-0630M-E0073-001
UH-C665	Unit Heater, 1.5kW, 120V, 1φ	No	Yes	Yes	1-0630M-E0073-001
SF-C630	Supply Fan, 120V, 1φ, 0.25 HP, 6.4 FLA	No	Yes	Yes	1-0630M-E0081-001
MS-C630	Supply Fan SF-C630 Starter Panel	No	Yes	Yes	1-0630M-E0081-001
DS-C630	Supply Fan SF-C630 Disconnect switch 15A, single phase	No	Yes	Yes	1-0630M-E0081-001
XV-C6301	Supply Fan SF-C630 ON/OFF Damper, 120V, 1φ	No	Yes	Yes	1-0630M-E0082-001
JBA-C6903	Junction Box JBA-C6903	No	Yes	Yes	1-0630M-A0070-001
JBA-C6701	Junction Box JBA-C6701	No	Yes	Yes	1-0630M-E0083-001
AIT-C6903-1	Chlorine Gas Level Transmitter Controller AIT-C6903-1	Yes	Yes	Yes	1-0630M-A0065-001
AE-C6903-1	Chlorine Gas Sensor AE-C6903-1	No	Yes	Yes	1-0630M-A0065-001
AIT-C6903-3	Chlorine Gas Level Transmitter Controller AIT-C6903-3	Yes	Yes	Yes	1-0630M-A0067-001
AE-C6903-3	Chlorine Gas Sensor AE-C6903-3	No	Yes	Yes	1-0630M-A0067-001
TT-C6041	Chlorinator Equipment Room Temperature Transmitter	No	Yes	Yes	1-0630M-A0068-001
TT-C6042	Tonner Storage Room Temperature Transmitter	No	Yes	Yes	1-0630M-A0068-001
TT-C6043	Outdoor Air Temperature Transmitter	No	Yes	Yes	1-0630M-A0068-001
U-C5301	Emergency Saftey Shower with integral flow switch (Vendor Supplied)	Yes	Yes	Yes	1-0630M-A0061-001
U-C5311	Emergency Saftey Shower with integral flow switch (Vendor Supplied)	Yes	Yes	Yes	1-0630M-A0061-001
U-C5321.FS	Emergency Shower Flow Switch	No	Yes	Yes	1-0630M-A0061-001
HS-C6001	Station Occupancy Single Pole Light Switch, 120V	No	Yes	Yes	1-0630M-A0062-001
HS-C6002	Station Occupancy Single Pole Light Switch, 120V	No	Yes	Yes	1-0630M-A0062-001
PDT-C6012	Tonner Storage Room Pressure Differential Transmitter	No	Yes	Yes	1-0630M-A0069-001
TSL-C6044	West Vestibule Temperature Switch	No	Yes	Yes	1-0630M-A0063-001
TSL-C6045	South Vestibule Temperature Switch	No	Yes	Yes	1-0630M-A0063-001
AAH-C6903-1	Chlorine Alarm Horn/Strobe West Vestibule	No	Yes	Yes	1-0630M-A0067-001
AAH-C6903-2	Chlorine Alarm Horn/Strobe South Vestibule	No	Yes	Yes	1-0630M-A0067-001
LZ-809-HS-1	Tonner Room Chlorine Bypass Switch Panel	No	Yes	Yes	1-0630M-A0073-001
Type A Lighting	Phillips Model No. V3W4351L840-UNV-LFA, Wall Mounted	No	No	Yes	1-0630M-E0076-001
Type B Lighting	Phillips Model No. V3W451L840-UNV-LFA, Wall Mounted	No	No	Yes	1-0630M-E0076-001
Exit Sign NEMA 4X	NEMA 4X, Single Faced - Lumacell -LNC1W12N60LD9AT	No	No	Yes	1-0630M-E0076-001
FS-C6011	Flow Switch, Make-Up Air Unit AHU-C601	No	Yes	Yes	1-0630M-E0074-001
FS-C6402	Flow Switch, Exhaust Fan EF-C640	No	Yes	Yes	1-0630M-E0073-001
FS-C6412	Flow Switch, Exhaust Fan EF-C641	No	Yes	Yes	1-0630M-E0073-001
FS-C6422	Flow Switch, Exhaust Fan EF-C642	No	Yes	Yes	1-0630M-E0073-001
FS-C6302	Flow Switch, Supply Fan SF-C630	No	Yes	Yes	1-0630M-E0073-001
JBA-C6111	Junction Box JBA-C6111	No	Yes	Yes	1-0630M-E0073-001
XV-C6111	Emergency Damper ON/OFF Damper, 120V, 1φ	No	Yes	Yes	1-0630M-E0075-001

General Notes

1. Not all equipment required for the project is included in the list herein. This is a partial list of main equipment only.
2. Include all costs for the supply and complete installation of all equipment herein, and all equipment shown on the drawings and in the specifications.
3. Include all costs for new lamacoids, and training.
4. In the event of discrepancy between this list and the drawings/specifications, the most onerous and costly option takes precedence prior to clarification from the City.

 Equipment List - McPhillips Station	Document Code 694715-0000-40EL-0002
	Revision 00
Client City of Winnipeg	
Project Chlorine Ventilation at Regional Pumping Stations	
Area McPhillips Regional Pumping Station	

Notes / Comments

Revisions					
Rev	Description	Date	By	Checked	Approved
0	Issued for Tender and Construction	2025-04-30	B. Wilks	V. Elimban	V. Elimban

McPhillips Station

Equipment Tag	Description	Training Required	Lamacoid	Shop Drawing Required	Drawing Number
Chlorine Building "C"					
SCBR-C670	Chlorine Gas Scrubber, 480V, 3φ, 3W, 40HP	Yes	Yes	Yes	1-0640C-E0003-001
CB-C670	90A, 3P Circuit Breaker Scrubber Feeder	No	Yes	Yes	1-0640C-E0003-001
XFMR-C670	600/480V, 3φ, 75kVA Autotransformer	No	Yes	Yes	1-0640C-E0003-001
DS-C670	Chlorine Gas Scrubber Disconnect Switch, 60A	No	Yes	Yes	1-0640C-E0003-001
XV-C6701	Scrubber SCBR-C670 Motorized Damper, 120V, 1φ	No	Yes	Yes	1-0640C-E0025-001
CB-C534	125A feed breaker for U-C534 Tankless Water Heater	No	Yes	Yes	1-0640C-E0003-001
U-C534	Tankless Water Heater 102kW, Chlorinator Equipment Room	Yes	Yes	Yes	1-0640C-E0003-001
OD-C597	Tonner Storage Room Overhead Door	Yes	Yes	Yes	1-0640C-E0003-001
DS-C597	Tonner Storage Room Overhead Door Disconnect Switch	No	Yes	Yes	1-0640C-E0003-001
AHU-C601	Make-Up Air Unit, 600V, 3φ, 3W, 119kW	Yes	Yes	Yes	1-0640C-E0003-001
AHU-C602	Make-Up Air Unit, 600V, 3φ, 3W, 35kW	Yes	Yes	Yes	1-0640C-E0003-001
FV-C6111	Make Up Air Unit Air Flow Modulating Damper	No	Yes	Yes	1-0640C-E0003-001
CB-C601	200A, 3P Circuit Breaker	No	Yes	Yes	1-0640C-E0003-001
CB-C602	60A, 3P Circuit Breaker	No	Yes	Yes	1-0640C-E0003-001
CP-C601	AHU-C601 & AHU-C602 Ventilation Control Panel	No	Yes	Yes	1-0640C-A0022-001
DS-C601	AHU-C601 Disconnect Switch, 100A	No	Yes	Yes	1-0640C-E0003-001
DS-C602	AHU-C602 Disconnect Switch, 60A	No	Yes	Yes	1-0640C-E0003-001
HCE-C620	Duct Heater Heating Coil Element, 600V, 3φ, 3W, 9kW	No	Yes	Yes	1-0640C-E0003-001
CB-C620	15A, 3P Circuit Breaker	No	Yes	Yes	1-0640C-E0003-001
EF-C640	Exhaust Fan, 120V, 3φ, 3W, 0.25 HP, 5.8 FLA	No	Yes	Yes	1-0640C-E0020-001
DS-C640	Exhaust Fan EF-C640 15A Disconnect Switch	No	Yes	Yes	1-0640C-E0020-001
MS-C640	Exhaust Fan EF-C640 Motor Starter Panel	No	Yes	Yes	1-0640C-E0020-001
XV-C6401	Exhaust Fan EF-C640 ON/OFF Damper	No	Yes	Yes	1-0640C-E0020-001
EF-C641	Exhaust Fan, 120V, 1φ, 0.25 HP, 5.8 FLA	No	Yes	Yes	1-0640C-E0021-001
MS-C641	Exhaust Fan EF-C641 Motor Starter Panel	No	Yes	Yes	1-0640C-E0021-001
XV-C6411	Exhaust Fan EF-C641 ON/OFF, 120V, 1φ	No	Yes	Yes	1-0640C-E0021-001
DS-C641	Exhaust Fan EF-C641 Disconnect switch 15A, single phase	No	Yes	Yes	1-0640C-E0021-001
EF-C642	Exhaust Fan, 120V, 1φ, 0.5 HP, 5.8 FLA	No	Yes	Yes	1-0640C-E0024-001
MS-C642	Exhaust Fan EF-C642 Motor Starter Panel	No	Yes	Yes	1-0640C-E0024-001
XV-C6421	Exhaust Fan EF-C642 ON/OFF, 120V, 1φ	No	Yes	Yes	1-0640C-E0024-001
DS-C642	Exhaust Fan EF-C642 Disconnect switch 15A, single phase	No	Yes	Yes	1-0640C-E0024-001
HTR-C663	Unit Heater, 4kW, 208V, 1φ	No	Yes	Yes	1-0640C-E0015-001
HTR-C664	Unit Heater, 1.5kW, 120V, 1φ	No	Yes	Yes	1-0640C-E0015-001
HTR-C665	Unit Heater, 1.5kW, 120V, 1φ	No	Yes	Yes	1-0640C-E0015-001
SF-C630	Supply Fan, 120V, 1φ, 0.25 HP, 6.4 FLA	No	Yes	Yes	1-0640C-E0023-001
MS-S630	Supply Fan SF-C630 Starter Panel	No	Yes	Yes	1-0640C-E0023-001
DS-C630	Supply Fan SF-C630 Disconnect switch 15A, single phase	No	Yes	Yes	1-0640C-E0023-001
XV-C6301	Supply Fan SF-C630 ON/OFF Damper, 120V, 1φ	No	Yes	Yes	1-0640C-E0023-001
JBA-C6903	Junction Box JBA-C6903	No	Yes	Yes	1-0640C-A0023-001
AIT-C6903-1	Chlorine Gas Level Transmitter Controller AIT-C6903-1	Yes	Yes	Yes	1-0640C-A0015-001
AE-C6903-1	Chlorine Gas Sensor AE-C6903-1	No	Yes	Yes	1-0640C-A0015-001
AIT-C6903-3	Chlorine Gas Level Transmitter Controller AIT-C6903-3	Yes	Yes	Yes	1-0640C-A0016-001
AE-C6903-3	Chlorine Gas Sensor AE-C6903-3	No	Yes	Yes	1-0640C-A0016-001
TT-C6041	Chlorinator Equipment Room Temperature Transmitter	No	Yes	Yes	1-0640C-A0017-001
TT-C6042	Tonner Storage Room Temperature Transmitter	No	Yes	Yes	1-0640C-A0017-001
U-C5301	Emergency Saftey Shower with integral flow switch (Vendor Supplied)	Yes	Yes	Yes	1-0640C-A0011-001
U-C5311.FS	Emergency Shower Flow Switch	No	Yes	Yes	1-0640C-A0011-001
HS-C6001	Station Occupancy Single Pole Light Switch, 120V	No	Yes	Yes	1-0640C-A0012-001
PDT-C6012	Tonner Storage Room Pressure Differential Transmitter	No	Yes	Yes	1-0640C-A0019-001
TSL-C6044	West Vestibule Temperature Switch	No	Yes	Yes	1-0640C-A0013-001
AAH-C6903-1	Chlorine Alarm Horn/Strobe Chlorinator Equipment Room	No	Yes	Yes	1-0640C-A0017-001
AAH-C6903-2	Chlorine Alarm Horn/Strobe Tonner Room Entrance	No	Yes	Yes	1-0640C-A0017-001
PZ-809-HS-1	Tonner Room Chlorine Bypass Switch Panel	No	Yes	Yes	1-0640C-A0026-001
PC-809-HS-3	Chlorine Isolation System Emergency Switch at Tonner Room Entrance	No	Yes	Yes	1-0640C-A0026-001
TC-C5302	Tonner Room Vestibule Drainage Pipe Heat Trace Controller	Yes	Yes	Yes	1-0640C-E0017-001
TC-JB-C5302-1	Tonner Room Vestibule Drainage Pipe Heat Trace Power Connector JB	Yes	Yes	Yes	1-0640C-E0017-001
TC-JB-C5302-2	Tonner Room Vestibule Drainage Pipe Heat Trace End Seal JB	Yes	Yes	Yes	1-0640C-E0017-001
Heat Trace Cable	Heat Trace Cable - Raychem cable	Yes	Yes	Yes	1-0640C-E0017-001
Heat Trace RTD	Heat Trace Temperature Sensor	Yes	Yes	Yes	1-0640C-E0017-001
Parking lot Receptacle	IPLC Duplex Receptacle with in use weatherproof cover.	No	Yes	Yes	1-0640C-E0016-001
FS-C6011	Flow Switch, Make-Up Air Unit AHU-C601	No	Yes	Yes	1-0640C-E0015-001
FS-C6021	Flow Switch, Make-Up Air Unit AHU-C602	No	Yes	Yes	1-0640C-E0015-001
FS-C6402	Flow Switch, Exhaust Fan EF-C640	No	Yes	Yes	1-0640C-E0015-001
FS-C6412	Flow Switch, Exhaust Fan EF-C641	No	Yes	Yes	1-0640C-E0015-001
FS-C6422	Flow Switch, Exhaust Fan EF-C642	No	Yes	Yes	1-0640C-E0015-001
FS-C6302	Flow Switch, Supply Fan SF-C630	No	Yes	Yes	1-0640C-E0015-001
Type A Lighting	Phillips Model No. V3W435L840-UNV-LFA, Wall Mounted	No	No	Yes	1-0640C-E0008-001

General Notes

- Not all equipment required for the project is included in the list herein. This is a partial list of main equipment only.
- Include all costs for the supply and complete installation of all equipment herein, and all equipment shown on the drawings and in the specifications.
- Include all costs for new lamacoids, and training.
- In the event of discrepancy between this list and the drawings/specifications, the most onerous and costly option takes precedence prior to clarification from the City.

 Equipment List - Hurst Station	Document Code 694715-0000-40EL-0003
	Revision 00
Client City of Winnipeg	
Project Chlorine Ventilation at Regional Pumping Stations	
Area Hurst Regional Pumping Station	

Notes / Comments

Revisions					
Rev	Description	Date	By	Checked	Approved
0	Issued for Tender and Construction	2025-04-30	B. Wilks	V. Elimban	V. Elimban

Hurst Station

Equipment Tag	Description	Training Required	Lamacoid	Shop Drawing Required	Drawing Number
Chlorine Building "C"					
SCBR-C670	Chlorine Gas Scrubber, 480V, 3φ, 3W, 40HP	Yes	Yes	Yes	1-0650M-E0017-001
CB-C670	90A, 3P Circuit Breaker Scrubber Feeder	Yes	Yes	Yes	1-0650M-E0017-001
XFMR-C670	600/480V, 3φ, 75kVA Autotransformer	No	Yes	Yes	1-0650M-E0017-001
DS-C670	Chlorine Gas Scrubber Disconnect Switch, 60A	No	Yes	Yes	1-0650M-E0017-001
XV-C6701	Scrubber SCBR-C670 Motorized Damper, 120V, 1φ	No	Yes	Yes	1-0650M-E0056-001
CB-C534	125A feed breaker for U-C534 Tankless Water Heater	No	Yes	Yes	1-0650M-E0015-001
U-C534	Tankless Water Heater 102kW, Chlorinator Equipment Room	Yes	Yes	Yes	1-0650M-E0015-001
OD-C597	Tonner Storage Room Overhead Door	Yes	Yes	Yes	1-0650M-E0016-001
DS-C597	Tonner Storage Room Overhead Door Disconnect Switch	No	Yes	Yes	1-0650M-E0016-001
OD-M597	Pump House Overhead Door	Yes	Yes	Yes	1-0650M-E0016-001
DS-M597	Pump House Overhead Door Disconnect Switch	No	Yes	Yes	1-0650M-E0016-001
AHU-C601	Make-Up Air Unit, 600V, 3φ, 3W, 119kW	Yes	Yes	Yes	1-0650M-E0017-001
AHU-C602	Make-Up Air Unit, 600V, 3φ, 3W, 76kW	Yes	Yes	Yes	1-0650M-E0017-001
CB-C601	150A, 3P Circuit Breaker	No	Yes	Yes	1-0650M-E0017-001
CB-C602	100A, 3P Circuit Breaker	No	Yes	Yes	1-0650M-E0017-001
CP-C601	AHU-C601 & AHU-C602 Ventilation Control Panel	No	Yes	Yes	1-0650M-A0078-001
DS-C601	AHU-C601 Disconnect Switch, 200A	No	Yes	Yes	1-0650M-E0017-001
DS-C602	AHU-C602 Disconnect Switch, 100A	No	Yes	Yes	1-0650M-E0017-001
HCE-C620	Duct Heater Heating Coil Element, 600V, 3φ, 3W, 11kW	No	Yes	Yes	1-0650M-E0015-001
CB-C620	20A, 3P Circuit Breaker	No	Yes	Yes	1-0650M-E0015-001
EF-C640	Exhaust Fan, 120V, 3φ, 3W, 13.8 FLA	No	Yes	Yes	1-0650M-E0050-001
DS-C640	Exhaust Fan EF-C640 30A Disconnect Switch	No	Yes	Yes	1-0650M-E0050-001
MS-C640	Exhaust Fan EF-C640 Motor Starter Panel	No	Yes	Yes	1-0650M-E0050-001
XV-C6401	Exhaust Fan EF-C640 ON/OFF Damper 120, 1ph	No	Yes	Yes	1-0650M-E0050-001
EF-C641	Exhaust Fan, 120V, 1φ, 0.25 HP, 5.8 FLA	No	Yes	Yes	1-0650M-E0051-001
MS-C641	Exhaust Fan EF-C641 Motor Starter Panel	No	Yes	Yes	1-0650M-E0051-001
XV-C6411	Exhaust Fan EF-C641 ON/OFF, Damper, 120V, 1φ	No	Yes	Yes	1-0650M-E0051-001
DS-C641	Exhaust Fan EF-C641 Disconnect switch 15A, single phase	No	Yes	Yes	1-0650M-E0051-001
EF-C642	Exhaust Fan, 120V, 1φ, 0.5 HP, 13.8 FLA	No	Yes	Yes	1-0650M-E0054-001
MS-C642	Exhaust Fan EF-C642 Motor Starter Panel	No	Yes	Yes	1-0650M-E0054-001
XV-C6421	Exhaust Fan EF-C642 ON/OFF, Damper, 120V, 1φ	No	Yes	Yes	1-0650M-E0054-001
DS-C642	Exhaust Fan EF-C642 Disconnect switch 30A, single phase	No	Yes	Yes	1-0650M-E0054-001
EF-C644	Exhaust Fan, 120V, 1φ, 2.85 FLA	No	Yes	Yes	1-0650M-E0054-001
MS-C644	Exhaust Fan EF-C644 Motor Starter Panel	No	Yes	Yes	1-0650M-E0055-001
XV-C6441	Exhaust Fan EF-C644 ON/OFF, Damper, 120V, 1φ	No	Yes	Yes	1-0650M-E0055-001
DS-C644	Exhaust Fan EF-C644 Disconnect switch 15A, single phase	No	Yes	Yes	1-0650M-E0055-001
HTR-C663	Unit Heater, 2kW, 208V, 1φ	No	Yes	Yes	1-0650M-E0045-001
UH-C664	Unit Heater, 2kW, 208V, 1φ	No	Yes	Yes	1-0650M-E0045-001
SF-C630	Supply Fan, 120V, 1φ, 0.25 HP, 2.85 FLA	No	Yes	Yes	1-0650M-E0053-001
MS-S630	Supply Fan SF-C630 Starter Panel	No	Yes	Yes	1-0650M-E0053-001
DS-C630	Supply Fan SF-C630 Disconnect switch 15A, single phase	No	Yes	Yes	1-0650M-E0053-001
XV-C6301	Supply Fan SF-C630 ON/OFF Damper, 120V, 1φ	No	Yes	Yes	1-0650M-E0053-001
JBA-C6903	Junction Box JBA-C6903	No	Yes	Yes	1-0650M-A0079-001
AIT-C6903-1	Chlorine Gas Level Transmitter Controller AIT-C6903-1	Yes	Yes	Yes	1-0650M-A0072-001
AE-C6903-1	Chlorine Gas Sensor AE-C6903-1	No	Yes	Yes	1-0650M-A0072-001
AIT-C6903-3	Chlorine Gas Level Transmitter Controller AIT-C6903-3	Yes	Yes	Yes	1-0650M-A0074-001
AE-C6903-3	Chlorine Gas Sensor AE-C6903-3	No	Yes	Yes	1-0650M-A0074-001
TT-C6041	Chlorinator Equipment Room Temperature Transmitter	No	Yes	Yes	1-0650M-A0075-001
TT-C6042	Tonner Storage Room Temperature Transmitter	No	Yes	Yes	1-0650M-A0075-001
TT-C6043	Outdoor Air Temperature Transmitter	No	Yes	Yes	1-0650M-A0075-001
U-C5301	Emergency Saftey Shower with integral flow switch (Vendor Supplied)	Yes	Yes	Yes	1-0650M-A0068-001
U-C5311.FS	Emergency Saftey Shower with integral flow switch (Vendor Supplied)	Yes	Yes	Yes	1-0650M-A0068-001
U-C5321.FS	Emergency Shower Flow Switch	No	Yes	Yes	1-0650M-A0068-001
HS-C6001	Tonner Room Vestibule 1 Occupancy Single Pole Light Switch, 120V	No	Yes	Yes	1-0650M-A0069-001
HS-C6002	Tonner Room Vestibule 2 Occupancy Single Pole Light Switch, 120V	No	Yes	Yes	1-0650M-A0069-001
PDT-C6012	Tonner Storage Room Pressure Differential Transmitter	No	Yes	Yes	1-0650M-A0076-001
TSL-C6044	Vestibule 1 Temperature Switch	No	Yes	Yes	1-0650M-A0070-001
TSL-C6044	Vestibule 2 Temperature Switch	No	Yes	Yes	1-0650M-A0070-001
AAH-C6903-1	Chlorine Alarm Horn/Strobe Chlorinator Equipment Room	No	Yes	Yes	1-0650M-A0074-001
AAH-C6903-2	Chlorine Alarm Horn/Strobe Tonner Room Entrance	No	Yes	Yes	1-0650M-A0074-001
HZ-809-HS-1	Tonner Room Chlorine Bypass Switch Panel	No	Yes	Yes	1-0650M-A0026-001
HC-809-HS-2	Chlorine Isolation System Emergency Switch at Vestibule 1	No	Yes	Yes	1-0650M-A0026-001
HC-809-HS-3	Chlorine Isolation System Emergency Switch at Vestibule 2	No	Yes	Yes	1-0650M-A0026-001
ZSC-C9001	Chlorine Tonner Storage Room Vestibule 1 Door Contact	No	Yes	Yes	1-0650M-A0077-001
ZSC-C9002	Chlorine Tonner Storage Room Vestibule 2 Door Contact	No	Yes	Yes	1-0650M-A0077-001
Type A Lighting	Phillips Model No. V3W435L840-UNV-LFA, Wall Mounted	No	No	Yes	1-0650M-E0057-001
Type B Lighting	Phillips Model No. V3W451L840-UNV-LFA, Wall Mounted	No	No	Yes	1-0650M-E0057-001
TC-CS302	Tonner Room Vestibule 1 Drainage Pipe Heat Trace Controller	Yes	Yes	Yes	1-0650M-E0046-001
TC-JB-CS302-1	Tonner Room Vestibule 1 Drainage Pipe Heat Trace Power Connector JB	Yes	Yes	Yes	1-0650M-E0046-001
TC-JB-CS302-2	Tonner Room Vestibule 1 Drainage Pipe Heat Trace End Seal JB	Yes	Yes	Yes	1-0650M-E0046-001
Heat Trace Cable	Heat Trace Cable Vestibule 1 - Raychem cable	Yes	Yes	Yes	1-0650M-E0046-001
Heat Trace RTD	Heat Trace Temperature Sensor Vestibule 1	Yes	Yes	Yes	1-0650M-E0046-001
TC-CS303	Tonner Room Vestibule 2 Drainage Pipe Heat Trace Controller	Yes	Yes	Yes	1-0650M-E0047-001
TC-JB-CS303-1	Tonner Room Vestibule 2 Drainage Pipe Heat Trace Power Connector JB	Yes	Yes	Yes	1-0650M-E0047-001
TC-JB-CS303-2	Tonner Room Vestibule 2 Drainage Pipe Heat Trace End Seal JB	Yes	Yes	Yes	1-0650M-E0047-001
Heat Trace Cable	Heat Trace Cable Vestibule 2 - Raychem cable	Yes	Yes	Yes	1-0650M-E0047-001
Heat Trace RTD	Heat Trace Temperature Sensor Vestibule 2	Yes	Yes	Yes	1-0650M-E0047-001
FACP-M922	Fire Alarm Control Panel	No	Yes	Yes	1-0650M-E0062-001
Fire Alarm Smoke Detectors	Fire Alarm Smoke Detectors	No	Yes	Yes	1-0650M-E0062-001
Fire Alarm Pull Stations	Fire Alarm Pull Stations	No	Yes	Yes	1-0650M-E0062-001
Fire Alarm Control Input Module	Fire Alarm Control Input Module	No	Yes	Yes	1-0650M-E0062-001
Fire Alarm Heat Detector	Fire Alarm Heat Detector	No	Yes	Yes	1-0650M-E0062-001
Fire Alarm End of Line Resistorr	Fire Alarm End of Line Resistorr	No	Yes	Yes	1-0650M-E0062-001
Fire Alarm Horn/Strobe	Fire Alarm Horn/Strobe	No	Yes	Yes	1-0650M-E0063-001
Fire Alarm Strobe	Fire Alarm Strobe	No	Yes	Yes	1-0650M-E0063-001
FS-C6011	Flow Switch, Make-Up Air Unit AHU-C601	No	Yes	Yes	1-0650M-E0045-001
FS-C6021	Flow Switch, Make-Up Air Unit AHU-C602	No	Yes	Yes	1-0650M-E0045-001
FS-C6402	Flow Switch, Exhaust Fan EF-C640	No	Yes	Yes	1-0650M-E0045-001
FS-C6412	Flow Switch, Exhaust Fan EF-C641	No	Yes	Yes	1-0650M-E0045-001
FS-C6422	Flow Switch, Exhaust Fan EF-C642	No	Yes	Yes	1-0650M-E0045-001
FS-C6442	Flow Switch, Exhaust Fan EF-C644	No	Yes	Yes	1-0650M-E0045-001
FS-C6302	Flow Switch, Supply Fan SF-C630	No	Yes	Yes	1-0650M-E0045-001
CP-C620	HCE-C620 Control Panel	No	Yes	Yes	1-0650M-A0082-001

General Notes

- Not all equipment required for the project is included in the list herein. This is a partial list of main equipment only.
- Include all costs for the supply and complete installation of all equipment herein, and all equipment shown on the drawings and in the specifications.
- Include all costs for new lamacoids, and training.
- In the event of discrepancy between this list and the drawings/specifications, the most onerous and costly option takes precedence prior to clarification from the City.