

| CITY DRAWING NUMBER | SHEET | DESCRIPTION   |
|---------------------|-------|---|
| 1-0102A-A0001       | 001   | P&ID, LEGEND AND DETAILS  |
| 1-0102A-A0001       | 002   | P&ID, LEGEND AND DETAILS  |
| 1-0102A-A0001       | 003   | P&ID, LEGEND AND DETAILS  |
| 1-0102A-B0001       | 001   | FACILITY FLOOR PLAN, LOWER LEVEL  |
| 1-0102A-B0002       | 001   | FACILITY FLOOR PLAN, MAIN LEVEL   |
| 1-0102A-E0008       | 001   | INSTALLATION DETAIL, TYPICAL FLOOR PENETRATION REQUIREMENTS               |
| 1-0102A-M0008       | 001   | PLAN VIEW, FIRE DAMPER UPGRADES, KEY PLAN                                 |
| 1-0102A-S0001       | 001   | PLAN AND SECTIONS, TYPICAL HOUSEKEEPING PAD                               |
| 1-0102B-A0013       | 001   | P&ID, INSTRUMENT AIR HEADER   |
| 1-0102B-A0024       | 001   | P&ID, MISCELLANEOUS   |
| 1-0102B-A0030       | 001   | INSTRUMENT LOOP DIAGRAM, BOILER ROOM FLOOD LEVEL, B580-LT                 |
| 1-0102B-A0031       | 001   | PANEL LAYOUT, JUNCTION BOXES, JBA-B580, JBP-B580                          |
| 1-0102B-E0006       | 001   | PLAN LAYOUT, SERVICE BUILDING ELECTRICAL AND GENERATOR ROOM               |
| 1-0102B-E0012       | 001   | PLAN LAYOUT, BOILER ROOM  |
| 1-0102B-E0013       | 001   | MOTOR SCHEMATIC, B580-SMP FLOOD PUMP                                      |
| 1-0102B-M0001       | 001   | PLAN VIEW, FIRE DAMPER UPGRADES, SERVICE BUILDING MECHANICAL ROOM         |
| 1-0102B-M0002       | 001   | PLAN VIEW, FIRE DAMPER UPGRADES, WORKSHOP                                 |
| 1-0102B-M0003       | 001   | PLAN VIEW, FIRE DAMPER UPGRADES, BOILER ROOM                              |
| 1-0102B-M0004       | 001   | PLAN VIEW, BOILER ROOM SUMP PUMPS, FLOOD UPGRADES                         |
| 1-0102B-S0001       | 001   | GENERAL NOTES   |
| 1-0102B-S0002       | 001   | PLAN, SECTION AND DETAIL, BOILER ROOM BACKUP SUMP PIT                     |
| 1-0102B-S0003       | 001   | PLAN, ELEVATIONS AND DETAILS, PIPE RACK OVER SUMP PITS                    |
| 1-0102G-A0021       | 001   | P&ID, HOT WATER BOOSTER PUMPS, G671-HWP & G672-HWP                        |
| 1-0102G-A0022       | 001   | P&ID, GLYCOL HEAT RECOVERY, G670-GP                                       |
| 1-0102G-A0026       | 001   | P&ID, ELECTRICAL ROOM AND BLOWER ROOM COOLING UNIT, G682-AHU - DEMOLITION |
| 1-0102G-A0026       | 001   | P&ID, ELECTRICAL ROOM AND BLOWER ROOM COOLING UNIT, G682-AHU              |
| 1-0102G-A0051       | 001   | JUNCTION BOX LAYOUT, JBA-GDC-G1   |
| 1-0102G-A0058       | 001   | INSTRUMENT LOOP DIAGRAM, G501 WET WELL GAS ALARM & G607 VENT. FAILURE     |
| 1-0102G-A0065       | 001   | INSTRUMENT LOOP DIAGRAM, VENTILATION INTERLOCK, LOOP G500                 |
| 1-0102G-A0071       | 001   | P&ID, GAS DETECTION   |
| 1-0102G-A0085       | 001   | PANEL LAYOUT, FDP-G FRONT VIEW  |
| 1-0102G-A0086       | 001   | PANEL LAYOUT, FDP-G REAR VIEW   |
| 1-0102G-A0087       | 001   | NETWORK BLOCK DIAGRAM, GRIT BUILDING PROCESS NETWORK                      |
| 1-0102G-A0090       | 001   | INSTRUMENT LOOP DIAGRAM, G606-HS, G606-YL-1, G606-YL-2                    |
| 1-0102G-A0093       | 001   | P&ID, WET WELL VENTILATION  |
| 1-0102G-A0094       | 001   | P&ID, WET WELL UPPER LEVEL AHU, G601-SF                                   |
| 1-0102G-A0095       | 001   | P&ID, WET WELL SUPPLY AND EXHAUST FANS, G602-SF, G686-EF, G687-EF         |
| 1-0102G-A0096       | 001   | P&ID, ELECTRICAL ROOM EXHAUST FAN, G692-EF                                |
| 1-0102G-A0097       | 001   | INSTRUMENT PLAN, WET WELL MECHANICAL ROOM - G129                          |
| 1-0102G-A0098       | 001   | INSTRUMENT PLAN, WET WELL AND FOYER                                       |
| 1-0102G-A0099       | 001   | INSTRUMENT PLAN, DRY WELL MECHANICAL ROOM - G130, WEST SIDE               |
| 1-0102G-A0100       | 001   | PANEL LAYOUT, LCP-G1  |
| 1-0102G-A0101       | 001   | POWER DISTRIBUTION SCHEMATIC, LCP-G1                                      |
| 1-0102G-A0101       | 002   | POWER DISTRIBUTION SCHEMATIC, LCP-G1                                      |
| 1-0102G-A0102       | 001   | WIRING DIAGRAM, LCP-G1 DISCRETE INPUTS                                    |
| 1-0102G-A0102       | 002   | WIRING DIAGRAM, LCP-G1 DISCRETE INPUTS                                    |
| 1-0102G-A0103       | 001   | WIRING DIAGRAM, LCP-G1 DISCRETE OUTPUTS                                   |
| 1-0102G-A0104       | 001   | WIRING DIAGRAM, LCP-G1 ANALOG INPUTS                                      |
| 1-0102G-A0105       | 001   | WIRING DIAGRAM, LCP-G1 ANALOG OUTPUTS                                     |
| 1-0102G-A0106       | 001   | TERMINAL LAYOUT, LCP-G1 MISCELLANEOUS                                     |
| 1-0102G-A0107       | 001   | PANEL LAYOUT, LCP-G2  |
| 1-0102G-A0108       | 001   | POWER DISTRIBUTION SCHEMATIC, LCP-G2                                      |
| 1-0102G-A0108       | 002   | POWER DISTRIBUTION SCHEMATIC, LCP-G2                                      |
| 1-0102G-A0109       | 001   | WIRING DIAGRAM, LCP-G2 DISCRETE INPUTS                                    |
| 1-0102G-A0110       | 001   | WIRING DIAGRAM, LCP-G2 DISCRETE OUTPUTS                                   |
| 1-0102G-A0111       | 001   | WIRING DIAGRAM, LCP-G2 ANALOG INPUTS                                      |
| 1-0102G-A0112       | 001   | WIRING DIAGRAM, LCP-G2 ANALOG OUTPUTS                                     |
| 1-0102G-A0113       | 001   | TERMINAL LAYOUT, LCP-G2 MISCELLANEOUS                                     |

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|---------------------|-------|---|
| 1-0102G-A0114       | 001   | INSTRUMENT LOOP DIAGRAM, G601-FIT, WET WELL UPPER LEVEL SUPPLY AIR FLOW                               |
| 1-0102G-A0115       | 001   | INSTRUMENT LOOP DIAGRAM, G602-FIT, WET WELL LOWER LEVEL AIR FLOW                                      |
| 1-0102G-A0116       | 001   | INSTRUMENT LOOP DIAGRAM, G603-TT-1, G603-TT-2, G603-TV, FLUSHING WATER HEAT RECOVERY                  |
| 1-0102G-A0117       | 001   | INSTRUMENT LOOP DIAGRAM, G604-TV, HOT WATER HEAT  |
| 1-0102G-A0118       | 001   | INSTRUMENT LOOP DIAGRAM, G601-PDS, G603-FSL, G604-FSL   |
| 1-0102G-A0119       | 001   | INSTRUMENT LOOP DIAGRAM, G608-PDT, WET WELL DIFFERENTIAL PRESSURE                                     |
| 1-0102G-A0120       | 001   | INSTRUMENT LOOP DIAGRAM, G682-TT-1, G682-TT-2, G682-TT-3  |
| 1-0102G-A0121       | 001   | INSTRUMENT LOOP DIAGRAM, G682-FV-1, G682-FV-2, G682-PV-3, G682-AHU INTAKE, RETURN, AND RELIEF DAMPERS |
| 1-0102G-A0122       | 001   | INSTRUMENT LOOP DIAGRAM, G682-TV-1, G682-TV-4, G682-AHU HEATING CONTROL                               |
| 1-0102G-A0123       | 001   | INSTRUMENT LOOP DIAGRAM, G682-TV-2, G682-AHU COOLING CONTROL  |
| 1-0102G-A0124       | 001   | INSTRUMENT LOOP DIAGRAM, G682-PDT   |
| 1-0102G-A0125       | 001   | INSTRUMENT LOOP DIAGRAM, G682-FSL   |
| 1-0102G-A0126       | 001   | INSTRUMENT LOOP DIAGRAM, G692-TT  |
| 1-0102G-A0127       | 001   | PANEL LAYOUT, JUNCTION BOXES  |
| 1-0102G-A0128       | 001   | INSTALLATION DETAILS  |
| 1-0102G-E0007       | 001   | PLAN LAYOUT, GRIT BUILDING ELECTRICAL ROOM  |
| 1-0102G-E0011       | 001   | PANEL SCHEDULES, GRIT BUILDING ELECTRICAL ROOM,   |
| 1-0102G-E0013       | 001   | ELECTRICAL CLASSIFICATION PLAN, GRIT BUILDING LOWER LEVEL   |
| 1-0102G-E0014       | 001   | ELECTRICAL CLASSIFICATION PLAN, GRIT BUILDING MAIN LEVEL AND STANDBY GEN BUILDING                     |
| 1-0102G-E0015       | 001   | ELECTRICAL CLASSIFICATION PLAN, WET WELL AND FOYER  |
| 1-0102G-E0016       | 001   | ELECTRICAL CLASSIFICATION PLAN, GRIT BUILDING UPPER LEVEL   |
| 1-0102G-E0036       | 001   | MOTOR SCHEMATIC, G601-SF FAN  |
| 1-0102G-E0036       | 002   | MOTOR SCHEMATIC, G601-SF FAN  |
| 1-0102G-E0037       | 001   | MOTOR SCHEMATIC, G602-FN FAN  |
| 1-0102G-E0037       | 002   | MOTOR SCHEMATIC, G602-FN FAN  |
| 1-0102G-E0038       | 001   | MOTOR SCHEMATIC, G687-EF FAN  |
| 1-0102G-E0038       | 002   | MOTOR SCHEMATIC, G687-EF FAN  |
| 1-0102G-E0039       | 001   | MOTOR SCHEMATIC, G686-EF FAN  |
| 1-0102G-E0040       | 001   | MOTOR SCHEMATIC, G603-GP GLYCOL PUMP  |
| 1-0102G-E0041       | 001   | MOTOR SCHEMATIC, G604-GP GLYCOL PUMP  |
| 1-0102G-E0042       | 001   | MOTOR SCHEMATIC, G692-FN FAN  |
| 1-0102G-E0043       | 001   | MOTOR SCHEMATIC, G682-AHU AIR HANDLING UNIT   |
| 1-0102G-E0044       | 001   | CABLE TRAY ROUTING, GRIT BUILDING, MOTOR ROOM   |
| 1-0102G-E0045       | 001   | CABLE TRAY ROUTING, GRIT BUILDING, MECHANICAL ROOMS   |
| 1-0102G-E0046       | 001   | PANEL LAYOUT, VFD-G601  |
| 1-0102G-E0047       | 001   | PANEL LAYOUT, VFD-G602  |
| 1-0102G-E0048       | 001   | PANEL LAYOUT, VFD-G687  |
| 1-0102G-M0007       | 001   | PLAN VIEW, FIRE DAMPER UPGRADES, DRYWELL MECHANICAL ROOM  |
| 1-0102G-M0008       | 001   | HVAC PLAN AND SECTIONS, WET WELL VENTILATION  |
| 1-0102G-M0009       | 001   | HVAC DUCTING PLAN, WET WELL VENTILATION   |
| 1-0102G-M0010       | 001   | HVAC DUCTING SECTION, WET WELL VENTILATION  |
| 1-0102G-M0011       | 001   | SCHEDULE AND DETAILS, WET WELL VENTILATION  |
| 1-0102G-M0012       | 001   | HVAC PLAN LAYOUT, GRIT BUILDING BLOWER AND ELECTRICAL ROOMS   |
| 1-0102G-M0013       | 001   | INSTALLATION DETAILS, WET WELL VENTILATION  |
| 1-0102G-M0014       | 001   | DEMOLITION PLAN, WET WELL VENTILATION   |
| 1-0102G-M0015       | 001   | PLAN AND SECTIONS, WET WELL EXHAUST STACK   |
| 1-0102G-M0028       | 001   | SECTIONS AND DETAILS, WET WELL VENTILATION  |
| 1-0102G-S0017       | 001   | MECHANICAL OPENING AND DETAILS, GRIT BUILDING MOTOR ROOM  |
| 1-0102G-S0018       | 001   | MECHANICAL OPENING AND DETAILS, WET WELL MECHANICAL ROOM  |
| 1-0102G-S0019       | 001   | PLAN AND DETAILS, GRIT TANK ROOM FALL RESTRAINTS  |
| 1-0102G-S0020       | 001   | PLAN AND DETAILS, GRIT TANK ROOM PENTHOUSE, G686-EF ROOF STACK  |
| 1-0102G-S0020       | 002   | PLAN AND DETAILS, GRIT TANK ROOM PENTHOUSE, G686-EF ROOF STACKS                                       |
| 1-0102S-M0001       | 001   | PLAN VIEW, FIRE DAMPER UPGRADES, VENTILATION AND ELECTRICAL ROOM                                      |
| SEP-829             | 001   | MCC SECTION, MCC-1G   |
| SEP-830             | 001   | MCC SECTION, MCC-2G   |
| SEP-908             | 001   | MCC SECTION, MCC-2B   |
| SEP-2117            | 001   | INSTRUMENT LOOP DIAGRAM, G682-AHU   |
| SEP-2118            | 001   | INSTRUMENT LOOP DIAGRAM, G682-AHU   |
| SEP-2124            | 001   | INSTRUMENT LOOP DIAGRAM, G686-EF FAN  |
| SEP-2125            | 001   | INSTRUMENT LOOP DIAGRAM, G687-EF FAN  |

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| DRAWING NUMBER | REFERENCE DRAWINGS |
|----------------|--------------------|

|     |                                      |            |        |       |
|-----|--------------------------------------|------------|--------|-------|
| NO. | REVISIONS                            | DATE       | DESIGN | CHECK |
| 01  | ISSUED FOR TENDER, BID OPP. 42-2013  | 2013/01/15 | TMC    | CJR   |
| 00  | ISSUED FOR TENDER, BID OPP. 545-2012 | 2012/10/19 | TMC    | CJR   |

**SNC-LAVALIN INC.**  
 148 Nature Park Way  
 Winnipeg, MB, Canada R3P 0X7  
 204-786-8080

DESIGNED BY: I. CHURCH  
 CHECKED BY: C. REIMER  
 DRAWN BY: MJP  
 APPROVED BY: C. REIMER  
 SCALE: NTS  
 RELEASED FOR CONSTRUCTION BY: N. HARRINGTON  
 DATE: 2012/07/13  
 DATE: 2012/10/25  
 CONSULTANT NO.: 112577-0116-40DD-0002

ENGINEER'S SEAL

FOR REFERENCE ONLY

**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE  
 VENTILATION AND MISC. UPGRADES  
 DRAWING INDEX

CITY DRAWING NUMBER: 1-0102A-D0002  
 SHEET: 001  
 REV: 01  
 SIZE: A1