



- 1 120Vac CONTROL TRANSFORMER C/W FUSED SEC.
- 2
- 3 P632-HS1 LOCK-OFF-STOP SWITCH
- 4 P632-R3 FAN FAIL RELAY
- 5 P632-1M AC MAGNETIC CONTACTOR (SLOW)
- 6 P632-QF FAN FAIL LIGHT
- 7 P632-PS FAN LOW FLOW PRESSURE SWITCH.
- 8 P632-MB FAN SLOW INDICATING LIGHT
- 9 P632-2M AC MAGNETIC CONTACTOR (FAST)
- 10 P632-KY LOW FLOW DELAY RELAY
- 11 P632-R5 EXHAUST INTERLOCK RELAY
- 12 P632-MD FAN FAST INDICATING LIGHT
- 13
- 14 P632-ZSD SUPPLY AIR DAMPER LIMIT SWITCH
- 15 P632-QF FAN FAIL SIGNAL TO DCS
- 16 P632-HS2 COMPUTER-OFF-HAND SWITCH
- 17 P632-YS C-O-H INPUT TO DCS
- 18
- 19 P632-R5 COMP SWITCH ADDITIONAL CONTACTS
- 20
- 21 P632-SB SLOW FAN SIGNAL FROM DCS
- 22
- 23
- 24 P632-R4 FAN SLOW RELAY
- 25 P632-SD FAST FAN SIGNAL FROM DCS
- 26 P632-VY DAMPER SOL. VALVE FOR DAMPER P632-VZ
- 27 P632-HS4 SLOW-FAST HAND SWITCH
- 28 P632-R1 FAN FAST RELAY
- 29 P632-R2 FAN STOP RELAY
- 30 P632-MO FAN STOP SIGNAL FROM DCS

**APEGN**  
Certificate of Authorization  
SNC-Lavalin Inc.  
No. 4489

**SNC-LAVALIN INC.**  
148 Nature Park Way  
Winnipeg, Manitoba  
Canada R3P 0X7

DESIGNED: <b>T. CHURCH</b>	APPROVED: <b>C. REIMER</b>
CHECKED: <b>C. REIMER</b>	DATE: <b>2012/02/16</b>
PROJECT No. <b>112577</b>	SUBDIV. <b>0113</b>
SUBJECT <b>47 DD</b>	SERIAL <b>2403</b>
REV. <b>6</b>	

ORIGINAL DRAWING  
SEALED BY:  
**T. M. CHURCH**  
SNC-LAVALIN  
MEMBER # 32682  
2012/02/15  
REV. 06  
CHANGES ONLY

NO	REVISIONS	DATE	BY
6	ADDED HAZARDOUS SEALS	2012/02/09	TMC
5	REVISED TO DATE	07/04/13	WKT
4	DCS ADDRESSES ADDED	MAR/94	B.T.
3	AS BUILT	MAY 91	A.H.
2	RESUBMIT FOR APRV'L	JAN15	A.H.
1	RESUBMIT FOR APRV'L	OCT1	A.H.
0	FOR APPROVAL	AUG20	A.H.

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

**Winnipeg**

PRIMARY CLARIFIER EXPANSION, CONTRACT 2 - P.D. 89-205  
PRIMARY CLARIFIER 1 & 2  
EXHAUST FAN  
LOOP DRAWING P632-EF32

**STATE CONTRACTORS**  
AUTOMATION & INSTRUMENTATION DIV.  
BRAMALEA, ONTARIO.

DRAWING ORIGINATED BY :

DRAWN BY <b>A.H.</b>	CITY DRAWING NO. <b>SEP-1189</b>
CHECKED <b>F.H.</b>	SPEC. SECTION <b>16900</b>
DATE <b>AUG 20/90</b>	SHEET <b>1 OF 2</b>
DRAWING NO: <b>05-1004-118</b>	