



- 1 120Vac CONTROL TRANSFORMER C/W FUSED SEC.
- 2
- 3 P638-HS1 LOCK-OFF-STOP SWITCH
- 4 P638-R3 FAN FAIL RELAY
- 5 P638-1M AC MAGNETIC CONTACTOR (SLOW)
- 6 P638-QF FAN FAIL LIGHT
- 7 P638-PS FAN LOW FLOW PRESSURE SWITCH.
- 8 P638-MB FAN SLOW INDICATING LIGHT
- 9 P638-2M AC MAGNETIC CONTACTOR (FAST)
- 10 P638-KY LOW FLOW DELAY RELAY
- 11 P638-R5 EXHAUST INTERLOCK RELAY
- 12 P638-MD FAN FAST INDICATING LIGHT
- 13
- 14 P638-ZSD SUPPLY AIR DAMPER LIMIT SWITCH
- 15 P638-QF FAN FAIL SIGNAL TO DCS
- 16 P638-HS2 COMPUTER-OFF-HAND SWITCH
- 17 P638-YS C-O-H INPUT TO DCS
- 18 P638-R6 COMP SWITCH ADDITIONAL CONTACTS
- 19
- 20
- 21 P638-SB SLOW FAN SIGNAL FROM DCS
- 22
- 23
- 24 P638-R4 FAN SLOW RELAY
- 25 P638-SD FAST FAN SIGNAL FROM DCS
- 26 P638-VY DAMPER SOL. VALVE FOR DAMPER P638-VZ
- 27 P638-HS4 SLOW-FAST HAND SWITCH
- 28 P638-R1 FAN FAST RELAY
- 29 P638-R2 FAN STOP RELAY
- 30 P638-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: T. CHURCH	APPROVED: C. REIMER
CHECKED: C. REIMER	DATE: 2012/02/16
PROJECT No. 112577	SUBDIV. 0113
SUBJECT 47 DD	SERIAL 2406
REV. 7	

ORIGINAL DRAWING
SEALED BY:
T. M. CHURCH
SNC-LAVALIN
MEMBER # 32682
2012/02/15
REV. 07
CHANGES ONLY

7	ADDED HAZARDOUS SEALS	2012/02/08	TMC
6	REVISED TO DATE	07/03/02	WKT
5	REVISED TO DATE	07/02/28	WKT
4	DCS ADDRESSES ADDED	MAR/94	B.T.
3	AS BUILT	MAY 91	A.H.
2	RESUBMIT FOR APR'V'L	JAN15	A.H.
1	RESUBMIT FOR APR'V'L	OCT1	A.H.
0	FOR APPROVAL	AUG20	A.H.
NO	REVISIONS	DATE	BY

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

Winnipeg

PRIMARY CLARIFIER EXPANSION, CONTRACT 2 - P.D. 89-205
PRIMARY CLARIFIER 3
EXHAUST FAN
LOOP DRAWING P638-EF36

DRAWING ORIGINATED BY : STATE CONTRACTORS AUTOMATION & INSTRUMENTATION DIV. BRAMALEA, ONTARIO.	
DRAWN BY A.H.	CITY DRAWING NO. SEP-1197
CHECKED F.H.	SPEC. SECTION 16900
DATE AUG 20/90	SHEET 1 OF 2
DRAWING NO: 05-1004-122	