

INSTRUMENT AND DEVICE IDENTIFICATION TABLE				
FIRST-LETTER		SUCCEEDING-LETTERS		
MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS OR SAMPLER		ALARM, TROUBLE	
B	BURNER FLAME			CLOSE, DECREASE
C	CONDUCTIVITY		CONTROL	
D	DENSITY	DIFFERENTIAL		OPEN, INCREASE
E	VOLTAGE (EMF)		SENSOR (PRIMARY ELEMENT)	
F	FLOW RATE	RATIO (FRACTION)	FAILURE	
G	GAS		GLASS, VIEWING DEVICE	GENERATOR (ULTRASONIC)
H	HAND (MANUAL)			HIGH
I	CURRENT (ELECTRICAL)		INDICATE	
J	POWER	SCAN		
K	TIME	TIME RATE OF CHANGE		CONTROL STATION
L	LEVEL		LIGHT	LOW
M	MOTOR	MOMENTARY	OPERATE, ON/OFF	MIDDLE, INTERMEDIATE
N	MOISTURE			START
O	TORQUE		ORIFICE, RESTRICTION	STOP, OVERLOAD
P	PRESSURE, VACUUM		POINT (TEST CONNECTION)	
Q	COMMON, QUANTITY	INTEGRATE, TOTALIZE		
R	RADIOACTIVITY		RECORD	
S	SPEED, FREQUENCY	SAFETY		SWITCH
T	TEMPERATURE		TRANSMITTER	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS, VALVE, DAMPER (2)			VALVE, DAMPER, LOUVER
W	WEIGHT, FORCE		WELL	
X	UNCLASSIFIED (1)	X AXIS	UNCLASSIFIED (1)	UNCLASSIFIED (1)
Y	EVENT, STATE, OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT
Z	POSITION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT

NOTES FOR INSTRUMENT AND DEVICE IDENTIFICATION TABLE:

- THE LETTER X IS TO BE DEFINED AT THE TIME OF USE, AND MAY BE USED FOR MULTIPLE DEFINITIONS WHERE NO OTHER LETTER IS APPLICABLE.
- THE USE OF V AS AN INITIAL LETTER TO REPRESENT A VALVE OR A DAMPER DOES NOT MEET THE INTENT OF ISA STANDARD 5.1, AND ITS CURRENT USE SHOULD BE REVIEWED.

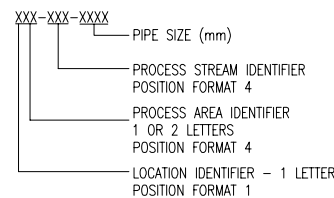
POSITION FORMATS

- LOCATION IDENTIFIER - 1 LETTER**
 I INTAKE
 D DEACON
 T TACHE
 C CENTRAL CONTROL - MCPHILLIPS
 H HURST
 L MACLEAN
 P MCPHILLIPS
 Q DISTRIBUTION SYSTEM
 W WATER TREATMENT PLANT (FUTURE)
 A AQUEDUCT
 R RIVER
- PLC OR RTU IDENTIFIER - 1 LETTER**
 - ASCENDING FROM A TO Z
 - USE "M" FOR STATION MASTER
 - USE A - G FOR STATION PUMPS 1 TO 7
- PROCESS AREA - UP TO 2 LETTERS**
 C CHLORINE
 S SUCTION
 D DISCHARGE
 R RESERVOIR
 T TELEMETERING
 E ELECTRIC DRIVE
 G GAS DRIVE
 H HVAC
 Z GENERAL STATION FUNCTIONS (UTILITIES)
 SA SARGENT AVENUE AND ST. JAMES STREET
 RR ROUGE ROAD AND ASSINIBOINE AVENUE
 JB JOHN BLACK AVENUE AND MAIN STREET
 IB INKSTER BOULEVARD AND BROOKSIDE BOULEVARD
 GR GATEWAY ROAD AND SPRINGFIELD ROAD
 PR PLESSIS ROAD AND DEVONSHIRE DRIVE
 LB LAGIMODIERE BOULEVARD AT OFFTAKE TO SMUGGLER'S COVE
 PC PADDINGTON ROAD AND CHARING CROSS CRESCENT
 PH PEMBINA HIGHWAY AND CHANCELLOR MATHESON ROAD
 RS REDONDA STREET AND KILDARE AVENUE
 RV RUE DES TRAPPISTES AND VILLENEUVE BOULEVARD
 FG FORT GARRY BRIDGE
 JA JAMES AVENUE
 KB KILDONAN BRIDGE
- PROCESS STREAM IDENTIFIER - 3 DIGITS**
 001 TO 039 AQUEDUCT AND RESERVOIR PIPING
 040 SUCTION HEADER
 041 TO 049 PIPING AND EQUIPMENT BETWEEN SUCTION AND DISCHARGE HEADER
 050 DISCHARGE HEADER
 051 TO 059 BRANCHES OFF DISCHARGE
 100 TO 599 EXTERIOR PIPING AND DISTRIBUTION SYSTEM
 599 REMOTE PRESSURE POINTS
 600 TO 699 HVAC
 800 TO 899 CHEMICAL SYSTEMS
 800 TO 829 CHLORINE
 830 TO 839 AMMONIA
 840 TO 849 FLOURIDE
 850 TO 899 MISC.
 900 TO 999 GENERAL UTILITIES
 900 TO 909 AIR PRESSURE
 910 TO 919 ELECTRICAL DISTRIBUTION
 920 TO 929 BUILDING SAFETY AND SECURITY
 930 TO 939 SUMPS
 940 TO 949 FLOOD
 950 TO 959 FLUSH WATER
 960 TO 969 GAS (NATURAL)
 970 TO 999 MISC.
 999 RIVER MONITORING
- INSTRUMENT OR DEVICE IDENTIFICATION - 2-4 LETTERS**
 - REFER TO TABLE AT LEFT
- EQUIPMENT DESIGNATION - 2-4 LETTERS**
 - REFER TO EQUIPMENT LIST AT RIGHT
- PLC IDENTIFIER - 1 LETTER**
 - FROM A TO Z IF APPLICABLE, IE. CONTROLLER, SETPOINT, OUTPUT, ETC.
 - 0 IF THE INFORMATION IS NOT EXPLICITLY ASSOCIATED WITH A PARTICULAR PLC
- INTERNAL VALUE - 1 LETTER**
 A - CONTROL VALUE
 C - CALCULATION
 E - OPERATOR ENTRY
 M - MANUAL DATA
- SERIES NUMBER - UP TO 3 DIGITS OR LETTERS**
 - ANY COMBINATION OF THREE LETTERS AND/OR NUMBERS

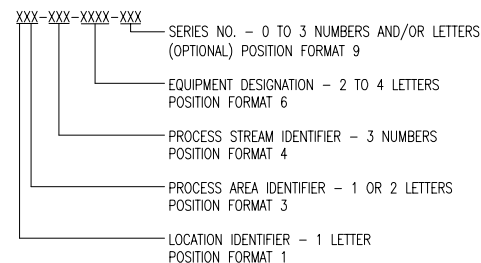
EQUIPMENT DESIGNATIONS

AC	AIR COMPRESSOR
AV	AQUEDUCT VALVE
CAR	COMPRESSED AIR RECEIVER
CL (CL2)	CHLORINE VALVE
CLR	CHLORINATOR
DHV	DISCHARGE HEADER VALVE
DV	DISCHARGE VALVE
GN	ELECTRIC GENERATOR
INJ	INJECTOR
PP	PUMP
RV	RESERVOIR VALVE
SHV	SUCTION HEADER VALVE
SV	SUCTION VALVE
VLV	VALVE (GENERAL)

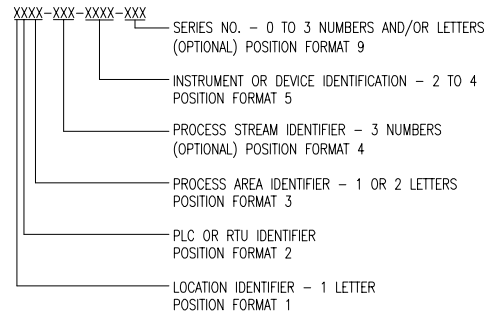
PROCESS LINE IDENTIFIERS



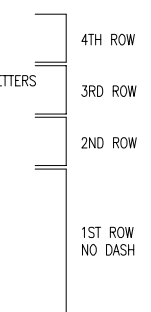
EQUIPMENT IDENTIFICATION



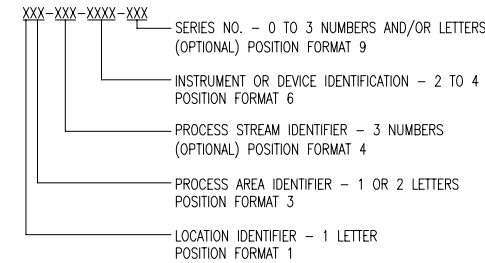
INPUT/OUTPUT (I/O) IDENTIFICATION



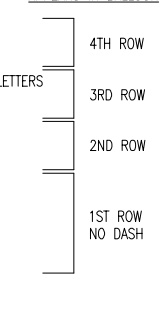
APPEARS IN BALLOON



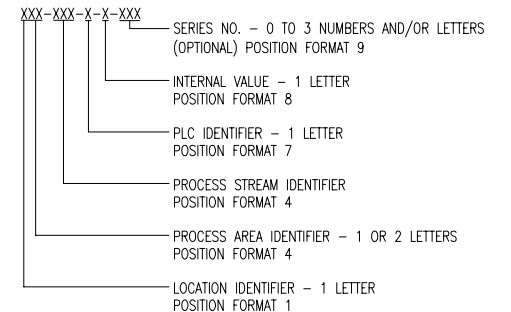
FIELD DEVICES AND INSTRUMENTATION



APPEARS IN BALLOON



INTERNAL SOFTWARE POINT IDENTIFICATION



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

B.M. ELEV.	FIELD BOOK #:	SNC-LAVALIN INC. 148 Huttery Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080			
POSTED TO LBIS		DESIGNED BY	EXISTING	CHECKED BY	CJR
		DRAWN BY	CJR	APPROVED BY	CJR
		HOR. SCALE	NTS	RELEASED FOR CONSTRUCTION	
		VERTICAL	NTS		
01 REVISED DRAWING NUMBER	2008/02/13 AEO	DATE	2005/09/19	DATE	
00 ISSUED FOR CITY USE	2007/08/28 Y.M	DATE	2005/09/19	DATE	
NO. REVISIONS	DATE	BY	FILENAME: 1-0640M-A001-002-01.dwg		

ENGINEER'S SEAL		THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
MCPHILLIPS PUMPING STATION			
PROCESS & INSTRUMENTATION DIAGRAMS LEGEND & DETAILS			
CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0640M-A001	002	01	A1