

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
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

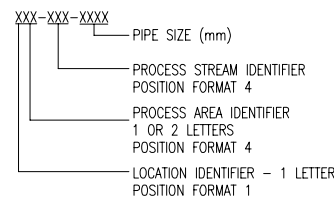
NOTES FOR INSTRUMENT AND DEVICE IDENTIFICATION TABLE:

- 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.

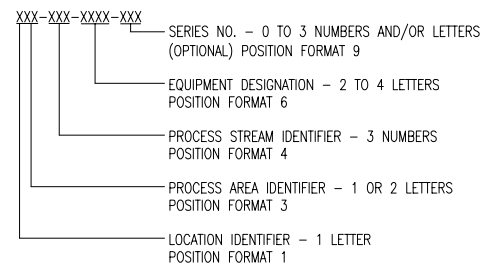
POSITION FORMATS	
1. LOCATION IDENTIFIER - 1 LETTER	
I INTAKE	
D DEACON	
T TACHE	
C CENTRAL CONTROL - MCPHILLIPS	
H HURST	
L MACLEAN	
P MCPHILLIPS	
Q DISTRIBUTION SYSTEM	
W WATER TREATMENT PLANT (FUTURE)	
A AQUEDUCT	
R RIVER	
2. PLC OR RTU IDENTIFIER - 1 LETTER	
- ASCENDING FROM A TO Z	
- USE "M" FOR STATION MASTER	
- USE A - G FOR STATION PUMPS 1 TO 7	
3. 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	
4. 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	
5. INSTRUMENT OR DEVICE IDENTIFICATION - 2-4 LETTERS	
- REFER TO TABLE AT LEFT	
6. EQUIPMENT DESIGNATION - 2-4 LETTERS	
- REFER TO EQUIPMENT LIST AT RIGHT	
7. 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	
8. INTERNAL VALUE - 1 LETTER	
A - CONTROL VALUE	
C - CALCULATION	
E - OPERATOR ENTRY	
M - MANUAL DATA	
9. 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)

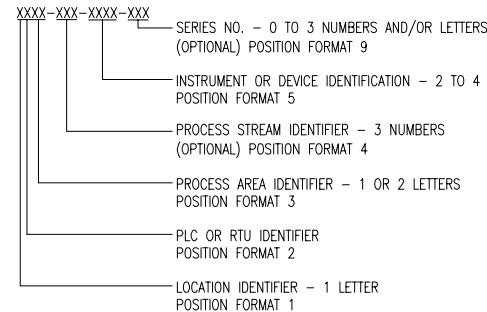
PROCESS LINE IDENTIFIERS



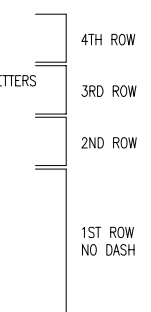
EQUIPMENT IDENTIFICATION



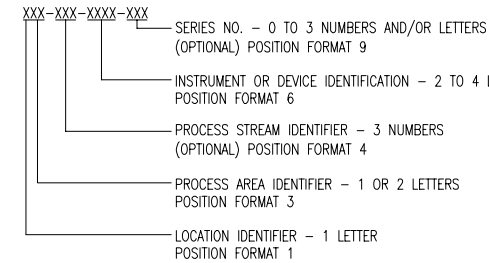
INPUT/OUTPUT (I/O) IDENTIFICATION



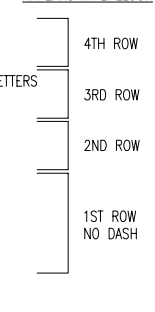
APPEARS IN BALLOON



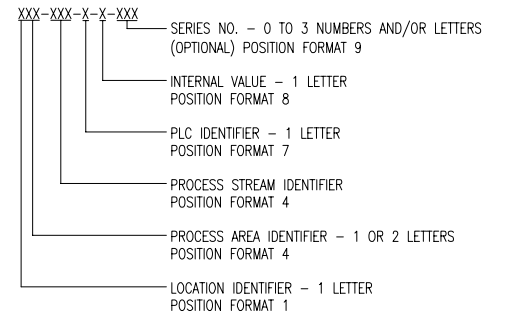
FIELD DEVICES AND INSTRUMENTATION



APPEARS IN BALLOON



INTERNAL SOFTWARE POINT IDENTIFICATION



DRAWING NUMBER	REFERENCE DRAWINGS
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B.M. ELEV.	FIELD BOOK #:		
POSTED TO LBIS		DESIGNED BY	EXISTING
		CHECKED BY	CJR
		DRAWN BY	CJR
		APPROVED BY	CJR
		HOR. SCALE	NTS
		VERTICAL	NTS
01 REVISED DRAWING NUMBER	2008/02/13 AEO	RELEASED FOR CONSTRUCTION	
00 ISSUED FOR CITY USE	2007/08/28 Y.M	DATE	2005/09/19
NO. REVISIONS	DATE	BY	FILENAME: 1-0650M-A001-002-01.dwg

ENGINEER'S SEAL			
		WATER AND WASTE DEPARTMENT	
		HURST PUMPING STATION	
		PROCESS & INSTRUMENTATION DIAGRAMS LEGEND & DETAILS	
CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0650M-A001	002	01	A1