	INSTRUMENT IDENTIFICATION TABLE				
	FIRST-LETTER	G-LETTERS			
	MEASURED OR INITIATING VARIABLE	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION		
А	ANALYSIS (1)	ALARM			
В	BURNER, COMBUSTION	CLOSED	CLOSE		
С	CONDUCTIVITY		CONTROL		
D	DENSITY	OPEN	OPEN		
Е	VOLTAGE	SENSOR (PRIMARY ELEMENT)			
F	FLOW RATE	FAILURE			
G	GAS	GLASS, VIEWING DEVICE			
Н	HAND	HIGH			
1	CURRENT (ELECTRICAL)	INDICATE			
J	POWER				
К	TIME, TIME SCHEDULE		CONTROL STATION		
L	LEVEL	LOW, LIGHT			
М	MOTOR	OPERATING OR ON/OFF			
N	MOISTURE		START		
0		OVERLOAD	STOP		
Р	PRESSURE, VACUUM	POINT (TEST) CONNECTION			
Q	COMMON	QUANTITY			
R	RADIATION	RECORD			
S	SPEED, FREQUENCY		SWITCH		
Т	TEMPERATURE		TRANSMIT		
U	MULTIVARIABLE	MULTIFUNCTION	MULTIFUNCTION		
V	VIBRATION, MECHANICAL ANALYSIS (1)		VALVE DAMPER, LOUVER		
W	WEIGHT, FORCE	WELL			
X	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED		
Υ	EVENT, STATE OR PRESENCE (2)		RELAY, COMPUTE, CONVERT (3)		
Z	POSITION, DIMENSION		DRIVER, ACTUATOR UNCLASSIFIED FINAL CONTROL ELEMENT		

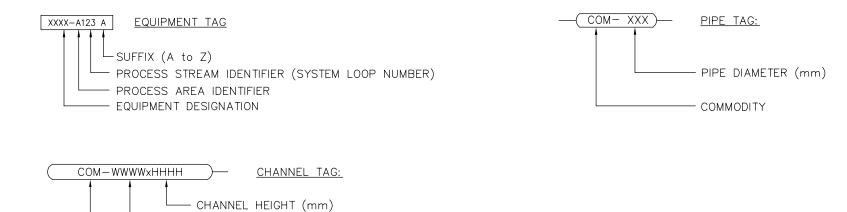
1. IT IS EXPECTED THAT THE TYPE OF ANALYSIS BE DEFINED OUTSIDE THE TAGGING BUBBLE. 2. FIRST LETTER Y IS INTENDED FOR USE WHEN CONTROL OR MONITORING RESPONCES ARE EVENT DRIVEN AS OPPOSED TO TIME OR TIME—SCHEDULE DRIVEN. THE LETTER Y, IN THIS

POSITION, CAN ALSO SIGNIFY PRESENCE OR STATE. 3. IT IS EXPECTED THAT THE FUNCTIONS ASSOCIATED WITH THE USE OF SUCCEEDING LETTER

Y WILL BE DEFINED OUTSIDE THE TAGGING BUBBLE. THIS DEFINITION NEED NOT BE MADE WHEN THE FUNCTION IS SELF-EVIDENT, AS FOR A SOLINOID VALVE IN A FLUID SIGNAL LINE.

	COMMON INSTRUMENT	/ DEVICE	IDENTIFIERS
ISA IDENTIFIER	INITIATING VARIABLE AND FUNCTION	ISA IDENTIFIER	INITIATING VARIABLE AND FUNCTION
AS	ANALYSIS SWITCH	PI	PRESSURE INDICATOR
AE	ANALYSIS ELEMENT	PT	PRESSURE TRANSMITTER
АТ	ANALYSIS TRANSMITTER	PIT	PRESSURE INDICATOR TRANSMITTER
CS	CONDUCTIVITY SWITCH	PS	PRESSURE SWITCH
СТ	CONDUCTIVITY TRANSMITTER	SC	SPEED CONTROLLER
DS	DENSITY SWITCH	SI	SPEED INDICATOR
ET	VOLTAGE TRANSMITTER	ST	SPEED TRANSMITTER
FC	FLOW CONTROLLER	TC	TEMPERATURE CONTROLLER
FE	FLOW ELEMENT	TE	TEMPERATURE ELEMENT
FI	FLOW INDICATOR	TI	TEMPERATURE INDICATOR
FS	FLOW SWITCH	TS	TEMPERATURE SWITCH
FT	FLOW TRANSMITTER	TT	TEMPERATURE TRANSMITTER
FY	FLOW RELAY	TY	TEMPERATURE RELAY
FZ	FLOW DRIVE	UR	MULTIVARIABLE RECORDER
HS	HAND SWITCH	VT	VIBRATION TRANSMITTER
ΙΤ	CURRENT TRANSMITTER	WE	WEIGHT ELEMENT
JT	POWER TRANSMITTER	WT	WEIGHT TRANSMITTER
KC	TIME CONTROLLER	XX	UNCLASSIFIED
KI	ELAPSED TIME INDICATOR	YC	STATE CONTROL
LE	LEVEL ELEMENT	YN	STATE ON
LI	LEVEL INDICATOR	YY	EVENT RELAY
LS	LEVEL SWITCH	YS	EVENT SWITCH
LT	LEVEL TRANSMITTER	ZS	POSITION SWITCH
LY	LEVEL RELAY	ZT	POSITION TRANSMITTER
PC	PRESSURE CONTROLLER	ZZ	POSITION DRIVE

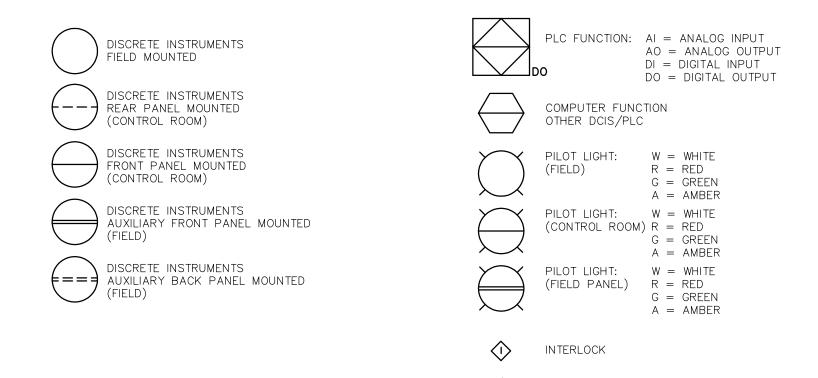
EQUIPMENT IDENTIFICATION AND TAGGING



INSTRUMENT SYMBOLS

----- CHANNEL WIDTH (mm)

--- COMMODITY



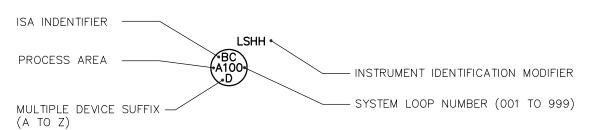
XXXX

—Source or destination

LINE CONTINUATION

ON-SITE HYPOCHLORITE GENERATION

INSTRUMENT DESIGNATION NUMBER



PURGE CONNECTION

POSITION FORMATS

PROCESS AREA IDENTIFIER		PROCESS STREAM IDENTIFIER (LOOP NUMBER)
CHEMICAL FEED DEACON BOOSTER PUMP STATION FILTRATION	C D F	001 - 999 001 - 999 001 - 999
PLANT UTILITIES: AIR PRESSURE	Н	
ELECTRICAL DISTRIBUTION EMERGENCY GENERATOR ELECTRICAL SUBSTATION HVAC SITE COMMUNICATION FLUSH WATER		600 - 650 901 - 950 951 - 999 000 - 100
NATURAL GAS FIRE PUMPS AUXILLIARY BUILDINGS HVAC BUILDING SAFETY & SECURITY PROCESS SUMPS SANITARY SUMPS POTABLE WATER		100 - 199 200 - 299 300 - 299 400 - 499 500 - 599 700 - 799
INLET WORKS & RAW WATER FREEZE THAW POND	l L	001 - 999 001 - 999
GENERAL SITE SERVICES/ MISCELLANEOUS:	М	001 — 999
YARD PIPING AND VALVE CHAMBERS SURGE TOWERS YARD PIPING YARD LIGHTING	Y Y Y	001 - 099 100 - 199 200 - 299
OZONE FLOCULATION AND DAF RESIDUALS HANDLING BULK CHEMICAL STORAGE TREATED WATER STORAGE & HANDLING (CLEARWELL) ULTRAVIOLET LIGHT DISINFECTION	O P R S T U	001 - 999 001 - 999 001 - 999 001 - 999 001 - 999 001 - 999

INSTRUMENT IDENTIFICATION MODIFIER

CAH	CONDUCTIVITY ALARM HIGH	LSH	LEVEL SWITCH HIGH
COH	COMPUTER/OFF/HAND	LSL	LEVEL SWITCH LOW
DO	DISSOLVED OXYGEN	MCC	MOTOR CONTROL CENTRE
D/P	DIFFERENTIAL PRESSURE	0/L	OVERLOAD
FAH	FLOW ALARM HIGH	PAH	PRESSURE ALARM HIGH
FAL	FLOW ALARM LOW	PAL	PRESSURE ALARM LOW
FSH	FLOW SWITCH HIGH	рН	рН
FSL	FLOW SWITCH LOW	PSH	PRESSURE SWITCH HIGH
H/A	HAND / AUTO	PSL	PRESSURE SWITCH LOW
HOA	HAND / OFF / AUTO	RTD	RESISTIVE TEMPERATURE DEVICE
1/1	CURRENT / CURRENT ISOLATOR	S/S	START / STOP
I/P	CURRENT / PRESSURE CONVERTER	SEL	SELECTOR
IAH	CURRENT ALARM HIGH	SOL	SOLENOID
LAH	LEVEL ALARM HIGH	T/C	THERMOCOUPLE
LAL	LEVEL ALARM LOW	TAH	TEMPERATURE ALARM HIGH
		TAL	TEMPERATURE ALARM LOW
		TSH	TEMPERATURE SWITCH HIGH
L/L	LEAD / LAG	TSL	TEMPERATURE SWITCH LOW
LOS	LOCK-OFF-STOP	WDG	WINDING
L/R	LOCAL / REMOTE		

PROCESS LINE CODES

COMMODITY

AA	AQUA AMMONIA	GOX	GASEOUS OXYGEN
AGA	ATOMIZING AIR	HCO	HYDRAULIC OIL
AS	AIR SCOUR (FILTERS)	HFS	HYDROFLUOSILICIC ACID
AHP	AIR HIGH PRESSURE (OZONE)	HP	HYDROGEN PEROXIDE
ALP	AIR LOW PRESSURE (OZONE)	HST	12% HYPOCHLORITE SOLUTION
BS	BRINE SOLUTION	HYP	0.8% HYPOCHLORITE SOLUTION
BWS	BACKWASH SUPPLY WATER	ITA	INSTRUMENT AIR
BWW	BACKWASH WASTE WATER	LGO	LUBRICATING OIL
CA	COMPRESSED AIR (DAF)	LOX	LIQUID OXYGEN
CCW	CIRCULATING COOLING WATER	NG	GAS
CL2	CHLORINE	OF	OVERFLOW
CLG	CHLORINE GAS	OZG	OZONE OFF GAS
CLS	CHLORINE SOLUTION	OZO	OZONATED OXYGEN
CO2	CARBON DIOXIDE	OZW	OZONATED WATER
CRW	CLARIFIER DISCHARGE WATER	PEF	PHOSPHATE FEED
CS	CAUSTIC SODA	PLD	DRY POLYMER
CWR	COOLING WATER RETURN	PLS	POLYMER SOLUTION
CWS	COOLING WATER SUPPLY	PSW	PLANT SERVICE WATER
DD	DEACON EFFLUENT (POST UV)	PW	POTABLE WATER
DDW	DEMINERALIZED WATER	RD	ROOF DRAIN
DEA	DILUTE ACID	RW	RAW WATER
DEC	DILUTE CAUSTIC	SAM	SAMPLE
DF	DAF FLOAT	SAN	SANITARY DRAINAGE
DFR	DIESEL FUEL RETURN	SBS	SODIUM BISULPHITE
DFS	DIESEL FUEL SUPPLY	SCA	SULPHURIC ACID
DHW	DOMESTIC HOT WATER	SHC	SODIUM HYPOCHLORITE

STD

SDR

SLO

SLU

SUP

SW

DRY SALT

SEAL OIL

SLUDGE

DAF RECYCLE

SUPERNATANT

SEAL WATER

TREATED WATER

TRAP PRIMER

STORMWATER DRAINAGE

VACUUM LABORATORY

VENT TO ATMOSPHERE

FERRIC CHLORIDE FILTER MEDIA EDUCTION FILTER INFLUENT

DRA

DRN

DRS

DS

DU

SOFTENED WATER FPW FIRE PROTECTION WATER FTR FILTER-TO-RECYCLE FW FILTERED WATER PIPE EXPOSURE BURIED SUB SUBMERGED EXP EXPOSED ENC CONCRETE ENCASED PIPE MATERIAL CAST IRON SOIL PIPE PCCP PRESTRESSED CONCRETE CYLINDER CEMENT LINED DUCTILE IRON PSTL PVDF LINED STEEL CORRUGATED METAL PIPE PVC POLYVINYL CHLORIDE POLYVINYLIDENE FLOURIDE COPPER PVDF CHLORINATED PVC REINFORCED CONCRETE PIPE DUCTILE IRON RSTL RUBBER LINED STEEL FIBERGLASS REINFORCED PLASTIC SST STAINLESS STEEL STL GLASS LINED DUCTILE IRON GALVANISED STEEL PIPE VITRIFIED CLAY PIPE HIGH DENSITY POLYETHYLENE

DISOLVED OXYGEN

DEACON SUCTION

DISTILLED WATER

ELECTRIC CONDUIT

DEACON UV (PRE UV)

SUBDRAIN

DRAINAGE (FLOORS)

DRAINS, CLEAN DRAINS

PRESSURE TESTING

HYDROSTATIC PNEUMATIC IN SERVICE NOT APPLICABLE

ABBREVIATIONS

ACK	ACKNOWLEDGE	NO	NORMALLY OPEN
ALM	ALARM	O/A	OUTSIDE AIR
A/M	AUTO/MANUAL	0/C	OPEN/CLOSED
A/S	AIR SUPPLY	ODE	OPPOSITE DRIVE END
BRG	BEARING	PF	POWER FACTOR
CURR	CURRENT	PO	PUMP OUT
DEC	DECREASE	PSD	PLANT SHUTDOWN
DE	DRIVE END	PV	PROCESS VARIABLE
E/A	EXHAUST AIR	PWR	POWER
E/S	ELECTRICAL SUPPLY	RSP	REMOTE SET POINT
ESD	EMERGENCY SHUTDOWN	RST	RESET
FCL	FAIL CLOSE	SP	SAMPLE POINT or SET POINT
FOP	FAIL OPEN		(Depending on Application)
F/R	FORWARD or REVERSE	STN	STATION
HI	HIGH	SPD	SPEED
HP	HORSE POWER (kW)	STDBY	STANDBY
kW	KILOWATT	STP	STOP
HVAC	HEATING/VENTILATION/AIR CONDITIONING	STR	START
INC	INCREASE	STS	STATUS
INJ	INJECTOR	TST	TEST
LO	LOW	TYP	TYPICAL
LOS	LOCAL/OFF/STOP	UV	ULTRA-VIOLET LIGHT
L/R	LOCAL/REMOTE	U/S	UNDER SIDE
MLD	MEGALITERS PER DAY	VAC	VACUUM
NC	NORMALLY CLOSED	VIB	VIBRATION
NLL	NORMALLY LIQUID LEVEL	W/S	WATER SUPPLY
NNF	NORMALLY NO FLOW	WDG	WINDING

ARY	EQUIPMENT DESIGNATIONS				
ADR	ARV	AIR RELEASE VALVE	LJB	LOCAL JUNCTION BOX	
AD AR DAYER AND AR DAYER AND AND HANDJING UNIT AND ALTOMATIC TRANSFER SWITCH AND ALTOMATIC TRANSFER SWITCH AND ALTOMATIC TRANSFER SWITCH AND MOTION CETTER BACK FLOW PREVENTER BY BACK FLOW PR	ACU	AIR CONDITIONING UNIT	LOP	LUBE OIL PUMP	
### ### ##############################	ACR	ACCESS CARD READER	LV	LEVEL CONTROL VALVE (OPEN/CLOSE)	
ATT	AD	AIR DRYER	М	MOTOR	
BATTERY	AHU	AIR HANDLING UNIT	MAU	MAKE-UP AIR UNIT	
BB SASEBARD HEATER BPY SACK FLOW PREVENTER BPY BACK FLOW PREVENTER BPY SACK FRESSLER VALVE BPY BLW SILOWER BLW SILOWER BLW SILOWER CCC COOLING COLL PVV PRESSLER COUNTER BLW SILOWER CCC COOLING COLL CCC COOLING C	ATS	AUTOMATIC TRANSFER SWITCH	MCC	MOTOR CONTROL CENTRE	
BEP	BAT	BATTERY	MD	MOTION DETECTOR	
BOK			MDV	MUD VALVE	
BIR			MP	METERING PUMP	
BUR BOLER SHEW BLOWER BLOWER			MXR	MIXER	
B. W			OP	ORIFICE PLATE	
CALL CAURATION COLUMN			,		
CCT					
COTY CLOSED CIRCUIT TELEVISION 9FC POWER FACTOR CORRECTION COR CONDENSER 9FL COUNCERS 9FL PART CONDENSER 9FL COUNCER PART CORRECTION FOOL COUNCER CALANTIC DESTRUCT UNIT 9NL PARE BOARD PROGRAMMABILE LOCIC CONTINUE. CHE CHILER CHILER PEPER (POLYMER, CHLORINATOR, ETC.) 9PU PROGRAMMABILE LOCIC CONTINUE. CHE CHILER CHILER PROFESSOR 9FV PROWER SUPPLY UNIT PRESSURE REGULATING / REDUCTOR VALVE OF COMPRESSOR 95V PRESSURE VESSEL CONTINUE. CON CONVEYOR 9V PRESSURE VESSEL VESSEL CONTINUE. CON CONVEYOR 9V PRESSURE VESSEL VESSEL CONTINUE. CON CONVEYOR 9V PRESSURE VESSEL V					
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Certificate of Authorization Earth Tech Canada Inc. No. 730 Expiry: April 30, 2006

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CH2MHILL ELEV. EarthTech Frederickson Cooper ARCHITECTS CHECKED APPROVED AHL DRAWN RELEASED FOR CONSTRUCTION BY: NONE SCALE: R. SOROKOWSKI 00 ISSUED FOR TENDER 06/03/29 LAE DATE BY DATE NO. REVISIONS DATE 2006/03/29 2005/12/21

ENGINEER'S SEAL ORIGINAL SIGNED BY S.R. BILEVICIUS

2006/03/29

CONSULTANT DRAWING NO.

WM-P0001

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT Winnipeg ENGINEERING DIVISION

CITY FILE NUMBER WATER TREATMENT PLANT GENERAL PLANT SERVICES SHEET OF MECHANICAL AND ELECTRICAL CITY DRAWING NUMBER CONSTRUCTION STANDARDS PROCESS AND INSTRUMENTATION

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IDENTIFICATION