	E(QUIPMENT IDENTIFIERS	
	IDENTIFIER	DEFINITION	
	AB	AIR BLOWER	
	AC ACU	AIR COMPRESSOR AIR CONDITIONING UNIT	+
	AD	AIR DRYER	
	AEF AF	AXIAL EXHAUST FAN AERATION FAN (EXISTING OR NEW)	+
	AHU	AIR HANDLING UNIT	
	BD BF	BACK DRIVE BOILER FAN (EXISTING OR NEW)	+
	BP	BOILER PUMP (EXISTING OR NEW)	1
	CA CAP	CAKE AGITATOR CAKE PUMP	
	CC	COOLING COIL	1
	CE	CENTRIFUGE	
	CM CMP	CLARIFIER MECHANISM COMPRESSOR	
	CON	CONVEYOR]
	CP CU	CIRCULATING PUMP CONDENSING UNIT	-
	DC	DRAG CONVEYOR	
	DF DP	DIGESTER FAN (EXISTING OR NEW) DIGESTER PUMP (EXISTING OR NEW)	-
	DR	DIGESTER COMPRESSOR (EXISTING OR NEW)	1
	DU	DIGESTER UNIT HEATER (EXISTING OR NEW) DEWATERING PUMP	4
	DWP EF	EXHAUST FAN	1
	EW	EYE WASH	1
	EXH F OR FN	HEAT EXCHANGER FAN	-
	FG	FLAP GATE	1
	FIL GB	FILTER STRAINER GRIT BLOWER	-
	GP	GLYCOL PUMP	1
	HC	HEAT COIL]
	HRC HWP	HEAT RECOVERY COIL HOT WATER PUMP	-
_/	JHWT~~	THOT-WATER FANK ~~~	1
_	LCP	LOCAL CONTROL PANEL	
	MAU	MAKE-UP AIR UNIT	
	M MXR	MOTOR MIXER	-
	Р	PUMP	1
	PB PF	PURGE BLOWER PRIMARY FAN (EXISTING OR NEW)	-
	PM	PRIMARY MOTOR	
	POD	POLYMER BLOWER	
	POF POM	POLYMER FED PUMP POLYMER MIXER	1
	PP	PRIMARY PUMP (EXISTING OR NEW)]
	PR PSF	PRIMARY AIR COMPRESSOR POLYMER SCREW FEEDER	+
	PU	PRIMARY UNIT HEATER (EXISTING OR NEW)	1
	R RAP	COMPRESSOR (REFRIGERANT) RAS PUMP	-
	RH	RADIANT HEATER	1
_/	\$	SAMPLER SODA ASH AIR CANNON	1
_	SAC	SODA ASH AIR CANNON SCREW-FEEDER	
	SC	SLUDGE COLLECTOR (TRAVELING BRIDGE)	1
	SCA SE	SLUDGE CAKE AUGER SAMPLER ELEMENT	1
	SFP	SLUDGE FEED PUMP	1
	SG SL	SLUICE GATE STOP LOG	-
	SLP	PRIMARY SLUDGE PUMP	1
	SMP SP	SUMP PUMP SCUM PUMP	-
	SST	SLUDGE STORAGE TANK	_
	STP	SLUDGE TRANSFER PUMP	-
	SWP TD	SWASH PLATE TRUCK DOOR	1
	TNK	TANK	1
	UPS UH	UNINTERRUPTIBLE POWER SUPPLY UNIT HEATER	-
	UV	ULTRAVIOLET LAMP ASSEMBLY	1
	VFD WAR	VARIABLE FREQUENCY DRIVE	-
	WAP WP	WAS PUMP WELL PUMP	1
	W	WEIR]
	WG	WEIR GATE	Ĺ

	INSTRUMENT SIGNAL IDEN	ITIFIERS
IDENTIFIER	DEFINITION	SIGNAL TYPE
AA	ANALYSIS ALARM (1ST STAGE)	DIGITAL INPUT
AF	ANALYSIS (SAMPLER) FAIL	DIGITAL INPUT
AH	ANALYSIS HIGH ALARM (1ST OR 2ND STAGE)	DIGITAL INPUT
AM	ANALYSIS (SAMPLER) ON/OFF STATUS	DIGITAL INPUT
AN	ANALYSIS (SAMPLER) START	DIGITAL OUTPUT
AT	ANALYSIS TRANSMIT (APPLIED TO ALL TYPES OF ANALYTICAL MEASUREMENTS)	ANALOG INPUT
AU	ANALYSIS MULTIFUNCTION (USED FOR COMMON ANALYTICAL POINT)	DIGITAL INPUT
BF	BURNER FLAME FAILURE	DIGITAL INPUT
BL	BOILER LOW FIRE	DIGITAL INPUT
ВН	BOILER HIGH FIRE	DIGITAL INPUT
ВМ	BURNER FLAME STATUS ON	DIGITAL INPUT
BS	BOILER SAFETY (BOILER FIRE ENABLED)	DIGITAL INPUT
DT	DENSITY TRANSMIT	ANALOG INPUT
ET	VOLTAGE TRANSMIT	ANALOG INPUT
FL	FLOW RATE LOW	DIGITAL INPUT
FT	FLOW TRANSMIT	ANALOG INPUT
GA	GAS ALARM	DIGITAL INPUT
HM	MANUAL STATUS ON	DIGITAL INPUT
LH	LEVEL HIGH	DIGITAL INPUT
LL	LEVEL LOW	DIGITAL INPUT
LT	LEVEL TRANSMIT	ANALOG INPUT
MF	MOTOR FAILURE	DIGITAL READOUT
ММ	MOTOR ON/OFF STATUS	DIGITAL INPUT
MN	MOTOR START	DIGITAL OUTPUT
MO	MOTOR STOP	DIGITAL OUTPUT
MX	MOTOR UNCLASSIFIED $(X = RESET)$	DIGITAL OUTPUT
NA	HUMIDITY ALARM	DIGITAL INPUT
PA	PRESSURE ALARM (1ST STAGE)	DIGITAL INPUT
PH	PRESSURE HIGH ALARM (1ST OR 2ND STAGE)	DIGITAL INPUT
PL	PRESSURE LOW	DIGITAL INPUT
PT	PRESSURE TRANSMIT	ANALOG INPUT
QA	COMMON ALARM (OR TROUBLE)	DIGITAL INPUT
QF	COMMON FAIL ALARM	DIGITAL INPUT
SB	SPEED DECREASE	MODULATING OUTPUT
SD	SPEED INCREASE	MODULATING OUTPUT
SM	SPEED CONTROLLER STATUS	DIGITAL INPUT
ST	SPEED TRANSMIT	ANALOG INPUT
TH	TEMPERATURE HIGH	DIGITAL INPUT
TT	TEMPERATURE TRANSMIT	ANALOG INPUT
UA	MULTIFUNCTION ALARM (MULTIPLE SYSTEM ALARM—ALTERNATE SYMBOL = QA)	DIGITAL INPUT
VB	VALVE CLOSE (OR DECREASE)	DIGITAL OR MODULATING OUTPUT
VD VD	VALVE OPEN (OR INCREASE)	DIGITAL OR MODULATING OUTPUT
	,	
XA	UNCLASSIFIED ALARM (X = FIRE)	DIGITAL INPUT
XT	UNCLASSIFIED TRANSMIT (X = POWER FACTOR)	ANALOG INPUT
YK	COMPUTER/LOCAL STATION	DIGITAL INPUT
YM	COMPUTER OPERATIONAL	DIGITAL INPUT
YS	COMPUTER SWITCH STATUS	DIGITAL INPUT
YX	COMPUTER UNCLASSIFIED (STATUS ON)	DIGITAL INPUT
ZB	POSITION CLOSED (LIMIT SWITCH)	ANALOG INPUT
ZD	POSITION OPEN (LIMIT SWITCH)	DIGITAL INPUT
ZL	POSITION LOW (BELT TENSION)	DIGITAL INPUT
	POSITION TRANSMIT	ANALOG INPUT

IMPERIAL PIPE SIZE CHART

(METRIC EQUIVALENT)

(IVIL I I KIO	LQOIVILLI	\ ' /
IN MM	IN	ММ
1/8 = 3	14 =	350
1/4 = 6	16 =	400
3/8 = 10	18 =	450
1/2 = 12	20 =	500
3/4 = 20	22 =	550
1 = 25	24 =	600
$1 \ 1/4 = 32$	26 =	650
$1 \frac{1}{2} = 38$	28 =	700
2 = 50	30 =	750
2 1/2 = 65	32 =	800
3 = 75	34 =	850
3 1/2 = 90	36 =	900
4 = 100	38 =	950
4 1/2 = 112	40 =	1000
5 = 125	42 =	1050
6 = 150	44 =	1100
7 = 175	46 =	1150
8 = 200	48 =	1200
9 = 225	50 =	1250
10 = 250	52 =	1300
11 = 275	54 =	1350
12 = 300		

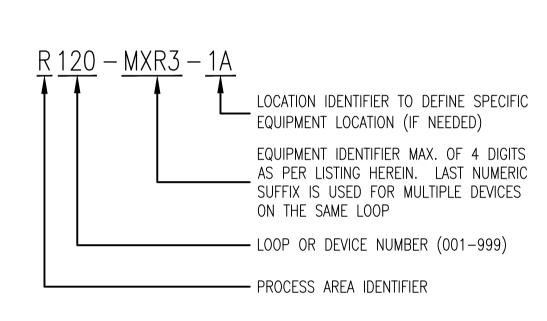
IN MM	IN	MM
1/8 = 3	14 =	350
1/4 = 6	16 =	400
3/8 = 10	18 =	450
1/2 = 12	20 =	500
3/4 = 20	22 =	550
1 = 25	24 =	600
$1 \ 1/4 = 32$	26 =	650
$1 \ 1/2 = 38$	28 =	700
2 = 50	30 =	750
2 1/2 = 65	32 =	800
3 = 75	34 =	850
3 1/2 = 90	36 =	900
4 = 100	38 =	950
4 1/2 = 112	40 =	1000
5 = 125	42 =	1050
6 = 150	44 =	1100
7 = 175	46 =	1150
8 = 200	48 =	1200
9 = 225	50 =	1250
10 = 250	52 =	1300
11 = 275	54 =	1350
12 = 300		

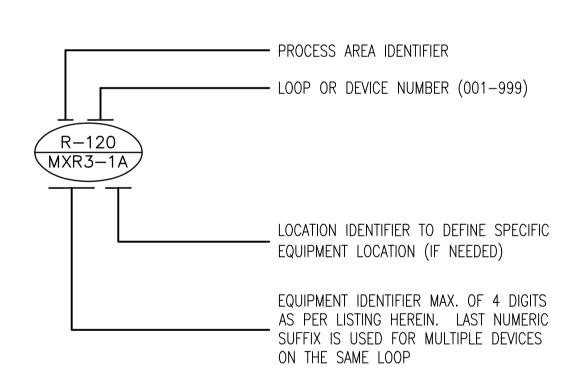
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Certificate of Authorization AECOM Canada Ltd. No. 4671 Date: Sour 23/16	03 02 01	ISSUED AS-C
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PROCESS AREA IDENTIFIERS		
IDENTIFIER DEFINITION		
В	BOILERS	
С	CENTRATE NITROGEN REMOVAL	
D	DIGESTERS	
G	PRE-AERATION AND GRIT REMOVAL	
Н	SLUDGE GAS	
М	MAIN BUILDING	
Р	PRIMARY CLARIFIERS	
R	OXYGEN REACTORS	
S	SECONDARY CLARIFIERS	
T	WAS SLUDGE THICKENING	
U UV DISINFECTION		
W	SLUDGE DEWATERING	

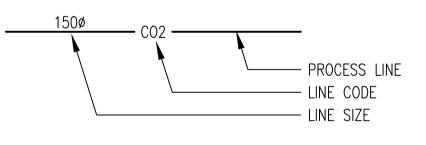
EQUIPMENT IDENTIFICATION

THE EQUIPMENT IDENTIFICATION MAY BE IN EITHER TEXT OR EQUIPMENT TAG FORMAT.





PROCESS LINE DESIGNATION



AC ALTERNATING CURRENT (ELECTRICAL) CCW CIRCULATING COOLING WATER CL CHORING CL CHURNING CLR COMPRESSED LIQUEFIED REFRIGERANT CO2 CARBON DIOXIDE CON CONDENSATE CS SLUDGE CAKE CWR COLD WATER RETURN CWB COLSE WATER RETURN DA DRY AIR D6 DIGESTED SLUDGE D7 DRY DOLYMER D8 DIGESTED SLUDGE D9 DRY POLYMER EDR EVAPORATED REFRIGERANT ES ELECTROLYTE SOLUTION FC FERRIC CHLORIDE FFE FINAL EFFLUENT FW FLUSHING WATER GR GYTOL RETURN OS CLYCOL RETURN OS CLYCOL RETURN HWB HOT WATER SUPPLY HYD HYDGOSEN IAS INSTRUMENT AIR SUPPLY HYD HYDROGEN IAS INSTRUMENT AIR SUPPLY IAS INSTRUMENT AIR SUPPLY IAS INSTRUMENT IAS INSTRUMENT AIR SUPPLY IAS INSTRUMENT AIR SUPPLY IAS INS		IDENTIFIER	DEFINITION	
CE CENTRATE CL CHLORINE CLR COMPRESSED LIQUEFIED REFRIGERANT CO2 CARBON DIOXDE CON CONDENSATE CS SLUDGE CWR COLD WATER REURN CWB		AC	ALTERNATING CURRENT (ELECTRICAL)	1
CL CHLORINE CLR COMPRESSED LIQUEFIED REFRIGERANT CO2 CARBON DIOXIDE CON CONDENSATE CS SLUDGE CAKE CWR COLD WATER RETURN TOWN COLDS WATER RETURN TOWN COLDS WATER RETURN DA DRY AIR DR DRY POLYMER EDR EVAPORATED REFRIGERANT ES ELECTROLYTE SOLUTION FC FERRIC CHICRDE FE FINAL EFFLUENT FW FLUSHING WATER GE GRIT EFFLUENT GR GLYCOL RETURN CS CTYNOL SOLUTION HAN HUMID AIR HAND HAND AIR HOW THE WATER RETURN HWS HOT WATER RETURN HWS HOT WATER SUPPLY HYD HYDROGEN IAS INSTRUMEN OR: LIM LIME CLEAR MALE CLEAR MALE MATER AIR SUPPLY LCP LIQUID CONCENTRATED POLYMER LIM LIME CLEAR MALE MATER AIR SUPPLY MIL MIXED LIQUOR MP MYED POLYMER NOT WATER AIR SUPPLY LOP PROCESS OVERFLOW PS PRIMARY SETLENT PO PROCESS OVERFLOW PS PRIMARY SETLENT PO PROCESS OVERFLOW PS PRIMARY SETLENT PW POTABLE WATER RAS RETURN ACTIVATED SLUDGE RW RECIRCULATED WATER RS RAW SEWAGE SA SODA ASH SE SECONDARY EFFLUENT SEA SERVICE AIR SC SCUM SW SEAL WATER TCE TREATED CENTRATE TCE TREATED CENTRATE TS THIN SLUDGE WAN AVECUM AIR VIA WATER WATER VIA WATER WATER VIA WATER WATER WATER VIA WATER WATER WATER VIA WATER		CCW	CIRCULATING COOLING WATER	1
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CO2 CARBON DIOXIDE CON CONDENSATE CS SLUDGE CAKE CWR COLD WATER RETURN CWS CODSTWATER SUPPRY DA DRY AR DB DE DESSER-YASP DB DB DESSER-YASP DGH HIGH PRESSURE DIGESTER GAS DL DECANT LIQUOR DS DIGESTEL SLUDGE DP DRY POLYMER EDR EVAPORATED REFRIGERANT ES ELECTROLITE SOLUTION FC FERRIC CHLORIDE FE FINAL EFFLUENT FW FLUSHING WATER GR GLYCOL RETURN CS CLYSOL SUPPLY HA HUMD AR HARD MAYER SUPPLY HA HUMD AR HARD HOT WATER RETURN HWS HOT WATER SUPPLY HYD HYDROGEN IAS INSTRUMENT AIR SUPPLY LCP LIQUID CONCENTRATED POLYMER DB HARD MAYER POLYMER NE CLEAR MET METHANOR MP MIXED POLYMER NIG NATURAL GAS NO OUTSIDE AR OR PROMABLE GAS NO OUTSIDE AR OR PROMABLE GAS NO OUTSIDE AR OR PROMABLE WATER RAS RETURN ACTIVATED SULDICE RW RECIRCULATED WATER RS RAW SEWAGE SA SODA ASH SE SECONDARY EFFLUENT SEA SERVICE AIR SC SCUM SW SEAL WATER TOE TREATED CENTRATE TOE		CL	CHLORINE	
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CWR COLD WATER RETURN CWS COLDS WATER SUPREY DA DRY AIR DB SOCKESSER SAS* DCH HIGH PRESSURE DIGESTER GAS DL DECANT LIQUOR DS DIGESTED SLUDGE DP DRY POLYMER EDR EVAPORATED REFRIGERANT ES ELECTROLYTE SOLUTION FC FERRIC CHICRIDE FE FINAL EFFLUENT FW FLUSHING WATER GE GRIT EFFLUENT GR GLYCOL RETURN CS GLYCOL RETURN HA HUMO AIR HIGO TAPPRABLE OIL* HWR HOT WATER RETURN HWS HOT WATER RETURN HWS HOT WATER SUPPLY HYD HYDROGEN IAS INSTRUMENT AIR SUPPLY LOP LIQUID CONCENTRATED POLYMER CS CUSSION AIR MET METANDEL* MET METANDEL* DA OUTSIDE AIR DO OUTSIDE AIR PE PRIMARY SLUDGE PV PROCESS VERFLOW PS PRIMARY SLUDGE RW RECIRCULATED WATER RS RAW SEWAGE SA SODA ASH SE SECONDARY EFFLUENT SEA SERVICE AIR SC SCUM SW SEAL WATER TCE TREATED CENTRATE TCE TREATED CENTRATE TO THOSPHERE WATER WATER WATER WATER WATER WATER WATER WATER WATER TCE TREATED CENTRATE TCE TREATED CENTRATE TCE TREATED CENTRATE WATER				
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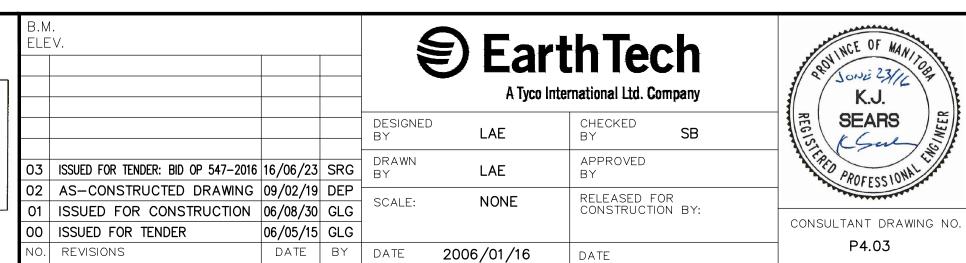
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Winnipeg

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION

NEWPCC CENTRATE NUTRIENT TREATMENT NITROGEN REMOVAL FACILITY

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