
To:	Bijaya Adhikari, PhD IWB	From:	Arlen Foster, P. Eng. Stantec
File:	144902412 08-16	Date:	October 22, 2018

Reference: 144902412 Paulatuk Water Treatment Plant Modifications - Additional Info

As per the request from the Inuvialuit Water Board, we provide the following summary and attached drawings to indicate the work that is proposed at the Hamlet's water treatment plant.

Existing intake casings will remain. The existing submersible pumps will be removed and replaced with the same ones providing a maximum truckfill flowrate of 1,000 L/m. No in-water works of the intake line will take place.

Disconnection of the intake from the existing building will take place at the flanged connection and the new prefabricated building will be connected at the flanged connection.

The new process system will have water withdrawn from the lake as current practice and then be prescreened with dual mesh basket strainers (0.5mm perforations) before heading to flocculation and membrane filtration prior to truck loading. Disinfection will be provided by Chlorine / Sodium Hypochlorite addition.

Stantec Architecture Ltd.

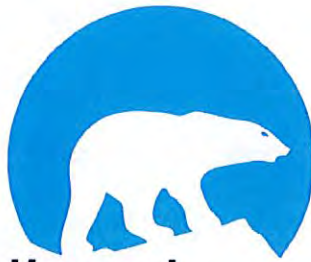


Arlen Foster P. Eng.
Associate

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Attachment: Issued for Construction Drawings

c.



**Northwest
Territories**

**Government of the Northwest Territories
DESIGN-BUILD
ISSUED FOR CONSTRUCTION DRAWINGS -
Paulatuk**

**SUBMISSION DATE:
Friday, Sept 14, 2018**

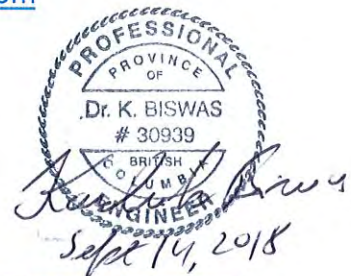
SUBMITTED BY:



AWC Water Solutions Ltd.
#104 – 19074 22 Ave.
Surrey, British Columbia V3Z 3S6

Main Contact: John Sainas, P.Eng. - VP Sales
Telephone: 778 558 5994
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IN ASSOCIATION WITH:



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HORIZONTAL DATUM NOTE
 PROJECTION: UNIVERSAL TRANSVERSE MERCATOR
 DATUM: GANES: UTM ZONE 11 | PAULATUK: UTM ZONE 10 | WEXWEET: UTM ZONE 11
 NAD 83 (CRS 2002.0)

VERTICAL DATUM NOTE
 ELEVATIONS ARE APPROXIMATE ONLY AND ARE DERIVED FROM CONTOURS PROVIDED BY MUNICIPAL AND COMMUNITY AFFAIRS (MCA) OF THE GNWT THROUGH THEIR PUBLIC GIS WEBSITE: <http://gis.burkina.gov.nt.ca/Website/index.asp>

Legend

➤ FLOW ARROW

Notes

C	ISSUED FOR CONSTRUCTION	NL	AF	18.09.11
B	ISSUED FOR 100% REVIEW	NL	AF	18.07.13
A	ISSUED FOR 70% REVIEW	JD	AF	18.03.13
Issued		By	Appd.	YY.MM.DD

Permit-Seal



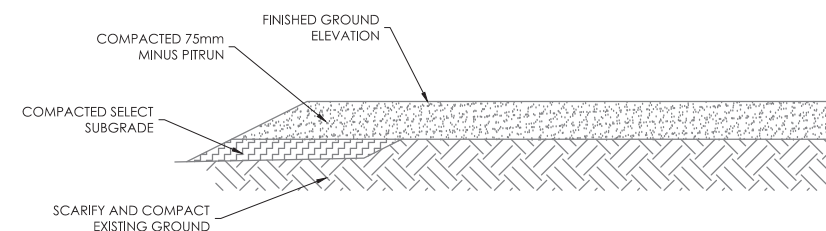
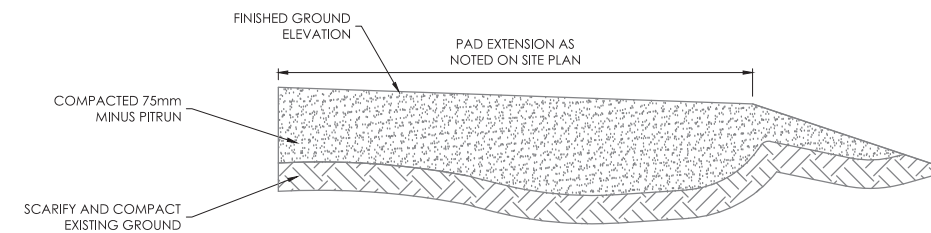
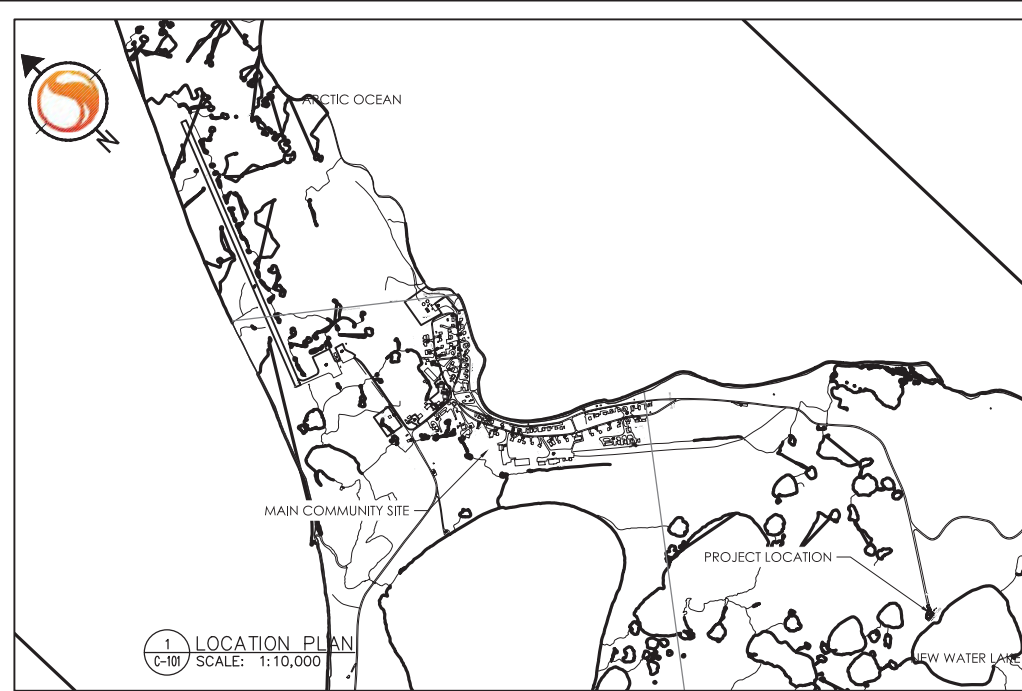
Client/Project

GOVERNMENT OF THE
 NORTHWEST TERRITORIES
 BUNDLED WATER TREATMENT PLANT

Paulatuk, NT

Title
 SITE PLAN

Project No.	Scale
144902412	AS NOTED
Drawing No.	Sheet
C-101	1 of 3
	Revision
	C/



FLOW		LEVEL		PRESSURE		TEMPERATURE		MISCELLANEOUS	
FAH	HIGH - FLOW ALARM	LAH	LEVEL ALARM - HIGH	PAH	PRESSURE ALARM - HIGH	TAH	TEMPERATURE ALARM - HIGH SET POINT	CI	CONDUCTIVITY INDICATOR
FAL	LOW - FLOW ALARM	LAHH	LEVEL ALARM - VERY HIGH	PAHH	PRESSURE ALARM - VERY HIGH	TAL	TEMPERATURE ALARM - LOW SET POINT	CR	CONDUCTIVITY RECORDER
FCV	FLOW CONTROL VALVE	LAL	LEVEL ALARM - LOW	PAL	PRESSURE ALARM - LOW	TCV	TEMPERATURE CONTROL VALVE	CSH	CONDUCTIVITY SWITCH - HIGH SET POINT
FE	FLOW ELEMENT (PRIMARY ELEMENT WITHOUT TRANSMITTER)	LALL	LEVEL ALARM - VERY LOW	PALL	PRESSURE ALARM - VERY LOW	TE	TEMPERATURE ELEMENT (PRIMARY ELEMENT WITHOUT TRANSMITTER)	CSL	CONDUCTIVITY SWITCH - LOW SET POINT
FG	FLOW SIGHT GLASS	LC	LEVEL CONTROLLER	PC	PRESSURE CONTROLLER	TI	TEMPERATURE INDICATOR	HC	HAND CONTROLLER (MANUAL LOADING STATION)
FI	FLOW INDICATOR	LCV	LEVEL CONTROL VALVE	PCV (RD)	PRESSURE CONTROL VALVE (REFER TO LEGEND)	TIC	TEMPERATURE INDICATING CONTROLLER	HIC	HAND INDICATING CONTROLLER (MANUAL LOADING STATION WITH OUTPUT GAUGE)
FIC	FLOW INDICATING CONTROLLER	LG	LEVEL GAUGE GLASS	PDSH	PRESSURE DIFFERENTIAL SWITCH - HIGH	TJI	MULTIPOINT TEMPERATURE INDICATOR (SCANNING TEMPERATURE INDICATOR)	HJS	MANUAL SELECTOR SWITCH
FIT	FLOW INDICATING TRANSMITTER	LI	LEVEL INDICATOR	PDSL	PRESSURE DIFFERENTIAL SWITCH - LOW	TJR	MULTIPOINT TEMPERATURE RECORDER (SCANNING TEMPERATURE RECORDER)	HS	HAND SWITCH
FO	FLOW RESTRICTION ORIFICE	LIC	LEVEL INDICATING CONTROLLER	PDT	PRESSURE DIFFERENTIAL TRANSMITTER	TP	TEMPERATURE TEST POINT	KC	TIME SEQUENCING PROGRAMMER
FOS	FLOW TOTALIZER SWITCH (PREDETERMINING COUNTER)	LR	LEVEL RECORDER	PI	PRESSURE INDICATOR	TR	TEMPERATURE RECORDER	QS	EVENT SWITCH
FOI	FLOW TOTALIZING INDICATOR	LSH	LEVEL SWITCH - HIGH SET POINT	PIC	PRESSURE INDICATING CONTROLLER	TRC	TEMPERATURE RECORDING CONTROLLER	SC	SPEED CONTROL (SCR DRIVE)
FR	FLOW RECORDER	LSL	LEVEL SWITCH - LOW SET POINT	PIT	PRESSURE INDICATING TRANSMITTER	TSH	TEMPERATURE SWITCH - HIGH SET POINT	JS	LOSS OF POWER SWITCH
FRC	FLOW RECORDING CONTROLLER	LY <input checked="" type="checkbox"/>	LEVEL - LOW SELECT RELAY	PP	PRESSURE TEST POINT	TSL	TEMPERATURE SWITCH - LOW SET POINT	WR	WEIGHT RECORDER
FSH	FLOW SWITCH - HIGH SET POINT	LY <input checked="" type="checkbox"/>	LEVEL - HIGH SELECT RELAY	PR	PRESSURE RECORDER	TS	TEMPERATURE SWITCH	XS	VIBRATION SWITCH
FSL	FLOW SWITCH - LOW SET POINT	LT	LEVEL TRANSMITTER	PRC	PRESSURE RECORDING CONTROLLER	TT	TEMPERATURE TRANSMITTER	XAH	VIBRATION ALARM - HIGH SET POINT
FT	FLOW TRANSMITTER	LY	LEVEL SOLENOID VALVE	PS	PRESSURE SWITCH	TW	THERMOWELL (WITHOUT THERMOCOUPLE)	YS	TORQUE SWITCH
FX	FLOW STRAIGHTENING VANES	LY I/P	LEVEL SIGNAL CONVERTER (CURRENT INPUT / PNEUMATIC OUTPUT)	PSE	PRESSURE RUPTURE DISK	TZ	TEMPERATURE FINAL CONTROL ELEMENT (DAMPER OPERATOR FOR LOUVERS)	YAH	TORQUE ALARM - HIGH SET POINT
FY	FLOW SOLENOID VALVE	LIS	LEVEL INDICATING SWITCH	PSH	PRESSURE SWITCH - HIGH SET POINT			YAHH	TORQUE ALARM VERY HIGH
FY I/P	FLOW SIGNAL CONVERTER (CURRENT INPUT / PNEUMATIC OUTPUT)	LX ^{10KΩ}	LEVEL POTENTIOMETER 10,000 OHMS RESISTANCE	PSL	PRESSURE SWITCH - LOW SET POINT			ZS	LIMIT SWITCH
FY S	FLOW SIGNAL INTEGRATER	LS	LEVEL SWITCH	PDI	PRESSURE DIFFERENTIAL INDICATOR			AE PH	ANALYZING ELEMENT (REFER TO LEGEND)
FY √	FLOW SQUARE ROOT EXTRACTOR			PT	PRESSURE TRANSMITTER			AT	ANALYZING TRANSMITTER
FY Σ	FLOW SIGNAL SUMMATION			PY	PRESSURE SOLENOID VALVE			AAH TUR	ANALYZING ALARM - HIGH SET POINT
FS	FLOW SWITCH			PY I/P	PRESSURE SIGNAL CONVERTER (CURRENT INPUT / PNEUMATIC OUTPUT)			KS	TIMER OR COUNTER

PROFESSIONAL ENGINEER
 PROVINCE OF BRITISH COLUMBIA
Dr. K. BISWAS
 # 30939
 Sept 19, 2018

REGISTERED PROFESSIONAL ENGINEER
 S.S. YAP
 LICENSEE
 NWTABU
 9/14/18













REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
-	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
REVISIONS					

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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP SYMBOLS & LEGENDS SHEET 1 OF 8	
DESIGN	KB		
CHECKED	KB		
APPROVED	JY		
DATE	2016-12-14		
SCALE	NTS	DRAWING NO. 10338-P-02-00	REV -






	PRIMARY LOCATION ***NORMALLY ACCESSIBLE TO OPERATOR	FIELD MOUNTED	AUXILIARY LOCATION ***NORMALLY ACCESSIBLE TO OPERATOR
DISCRETE INSTRUMENTS	1.  IP1**	2. 	3. 
SHARED DISPLAY SHARED CONTROL	4. 	5. 	6. 
COMPUTER FUNCTION	7. 	8. 	9. 
PROGRAMMABLE LOGIC CONTROL	10. 	11. 	12. 

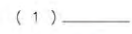






* SYMBOL SIZE MAY VARY ACCORDING TO THE USER'S NEEDS AND THE TYPE OF DOCUMENT. A SUGGESTED SQUARE AND CIRCLE SIZE FOR LARGER DIAGRAMS IS SHOWN ABOVE. CONSISTENCY IS RECOMMENDED.

** ABBREVIATION OF THE USER'S CHOICE SUCH AS IP1 (INSTRUMENT PANEL #1), IC2 (INSTRUMENT CONSOLE #2), CC3 (COMPUTER CONSOLE #3), ECT., MAY BE USED WHEN IT IS NECESSARY TO SPECIFY INSTRUMENT OR FUNCTION LOCATION.

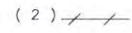
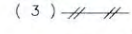
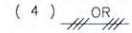
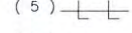
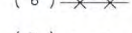
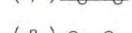
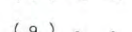
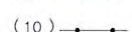

*** NORMALLY INACCESSIBLE OR BEHIND-THE-PANEL DEVICES OR FUNCTIONS MAY BE DEPICTED BY USING THE SAME SYMBOLS BUT WITH DASHED HORIZONTAL BARS, I.E.



-  LOCALLY MOUNTED INSTRUMENT
-  PANEL MOUNTED INSTRUMENT
-  BACK OF PANEL MOUNTED INSTRUMENT
-  PILOT LIGHT
-  UNDEFINED INTERLOCK LOGIC

- (1)  CONNECTION TO PROCESS, MECHANICAL LINK, OR INSTRUMENT SUPPLY
THE FOLLOWING ABBREVIATIONS DENOTE TYPES OF POWER SUPPLY
-  AIR SUPPLY (PLANT AIR, HEADER SUPPLY REGULATED eg ADJUSTED TO 552 kPa)
 -  FILTERED AIR SUPPLY (REGULATED eg ADJUSTED TO 138 kPa)
 -  ELECTRIC SUPPLY
 -  GAS SUPPLY
 -  STEAM SUPPLY
 -  WATER SUPPLY

1 PSI = 6.894 kPa

- (2)  UNDEFINED SIGNAL
- (3)  PNEUMATIC SIGNAL **
- (4)  ELECTRICAL SIGNAL
- (5)  HYDRAULIC SIGNAL
- (6)  CAPILLARY TUBING (FILLED SYSTEM)
- (7)  ELECTROMAGNETIC OR SONIC SIGNAL *** (GUIDED)
- (8)  ELECTROMAGNETIC OR SONIC SIGNAL *** (NOT GUIDED)
- (9)  INTERNAL SYSTEM LINK (SOFTWARE OR DATA LINK)
- (10)  MECHANICAL LINK

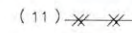
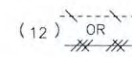
PRESSURE CONTROL VALVE LEGEND

- SU SUSTAINING
- RD REDUCING
- RL RELIEVING
- SA SURGE ANTICIPATING
- VR VACUUM RELIEF
- RF RATE OF FLOW

ANALYZING ELEMENT / ALARM LEGEND

- CHL CHLORINE
- TUR TURBIDITY
- PH PH
- DO DISSOLVED OXYGEN
- CON CONDUCTIVITY
- ETC etc

OPTIONAL BINARY (ON-OFF) SYMBOLS

- (11)  PNEUMATIC BINARY SIGNAL
- (12)  ELECTRIC BINARY SIGNAL









NOTE: 'OR' MEANS USER'S CHOICE. CONSISTENCY IS RECOMMENDED. THE FOLLOWING ABBREVIATIONS ARE SUGGESTED TO DENOTE THE TYPES OF POWER SUPPLY. THESE DESIGNATIONS MAY ALSO BE APPLIED TO PURGE FLUID SUPPLIES.

- AS - AIR SUPPLY
- IA - INSTRUMENT AIR
- PA - PLANT AIR
- ES - ELECTRICAL SUPPLY
- GS - GAS SUPPLY
- HS - HYDRAULIC SUPPLY
- NS - NITROGEN SUPPLY
- SS - STEAM SUPPLY
- WS - WATER SUPPLY

* THE SUPPLY LEVEL MAY BE ADDED TO THE INSTRUMENT SUPPLY LINE, E.G., AS-100, A 100-PSIG AIR SUPPLY; ES-24DC, A 24 VOLT DIRECT CURRENT POWER SUPPLY.

** THE PNEUMATIC SIGNAL SYMBOL APPLIES TO A SIGNAL USING ANY GAS AS THE MEDIUM. IF A GAS OTHER THAN AIR IS USED, THE GAS MAY BE IDENTIFIED BY A NOTE ON THE SIGNAL SYMBOL OR OTHERWISE.

*** ELECTROMAGNETIC PHENOMENA INCLUDE HEAT, RADIO WAVES, NUCLEAR RADIATION, AND LIGHT.

-  LINE FILTER
-  PRE FILTER
-  REFRIGERATED DRYER
-  DESSICCANT DRYER
-  AUTOMATIC DRAIN (FLOAT TYPE)
-  WATER COOLER
-  COMBINATION REGULATOR LINE FILTER
-  COMBINATION LINE FILTER REGULATOR, LUBRICATOR



REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
-	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
REVISIONS					

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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP SYMBOLS & LEGENDS SHEET 2 OF 8
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02-00
		REV -

PIPE MATERIAL CODE

CODE	PIPE MATERIAL AND RATING
ST40	STEEL PIPE, ANSI 150 POUND FLANGE RATING, 40° C TEMP, 1900 kPa MAX. DESIGN PRESSURE
GSP	GALVANIZED STEEL PIPE, ANSI 150 # FLANGE RATING, 40° C TEMP, 1875 kPa MAX. DESIGN PRESSURE
PVC40	PVC PIPE, SCH 40-80, 40° C TEMP
PVC80	PVC-DWV, 80° C TEMP
TUBE	PLASTIC FLEXIBLE TUBING
CI	C.I.-DWV PIPE, 60° C TEMP
COPK	TYPE K COPPER PIPE, 100° C TEMP
COPL	TYPE L COPPER PIPE, 100° C TEMP
D1	DUCTILE IRON CLASS 52

PIPE TREATMENT CODE

CODE	DESCRIPTION
A	CEMENT MORTAR LINING
B	EXTERNAL COAL TAR ENAMEL & DENSO TAPE WRAP
C	-
D	INTERNAL EPOXY LINING
E	EXTERNAL EPOXY COATING
F	-
G	EXTERNAL YELLOW JACKETING
H	INSULATION (SEE SPEC FOR TYPE AND THICKNESS)

EQUIPMENT SYMBOLS

SYMBOL	EQUIPMENT
AT	AIR TANK
BFP	BACKFLOW PREVENTOR
BLO	BLOWER
BSP	BACKWASH WATER SUPPLY PUMP
BST	BASKET STRAINER
BTP	BACKWASH TRANSFER PUMP
BWP	BACKWASH WATER WASTE PUMP
COMP	AIR COMPRESSOR
CO	CLEAN OUT
ENG	ENGINE
ESH	EMERGENCY SHOWER UNIT
FD	FLOOR DRAIN
FEX	FIRE EXTINGUISHER
FIL	FILTER (WATER)
HB	HOSE BIBB
HR	HOSE REEL
HWT	HOT WATER HEATER/TANK
LSP	LIME SOLUTION PUMP
M	MOTOR (ELECTRIC)
MH	MANHOLE
MIX	MIXER
P	PUMP (UNSPECIFIED SERVICE)
PP	PROPORTIONING PUMP
RP	RECYCLE PUMP
RWP	RAW WATER PUMP
SIL	SILENCER (MUFFLER)
SP	SUMP PUMP
SHT	SEWAGE HOLDING TANK
TFP	TRUCK FILL PUMP
VB	VALVE BOX
VFD	VARIABLE FREQUENCY DRIVE
AHU	AIR HANDLING UNIT
D	DAMPER
DM	DAMPER MOTOR
EF	EXHAUST FAN
F	FAN
FUR	FURNACE
FX	FIRE EXTINGUISHER
L	LOUVRE
MAU	MAKEUP AIR UNIT
SF	SUPPLY AIR FAN
UH	UNIT HEATER

COMMODITY SYMBOLS

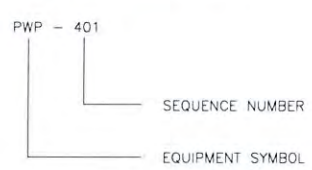
SYMBOL	COMMODITY
ALS	ALUM SOLUTION
AS	AIR SCOUR
AWS	AIR WASH SUPPLY (AIR)
BWS	BACKWASH SUPPLY (WATER)
BWW	BACKWASH WASTE (WATER)
CIRC	RELIEF CIRCULATION WATER
CW	CLARIFIER WATER
CWW	COOLING WASTE WATER
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DR	DRAIN
FA	FILTER AID
FTW	FILTER TO WASTE
FW	FILTERED WATER
DHW	DOMESTIC HOT WATER
HWS	HEATING (HOT) WATER SUPPLY
IA	INSTRUMENT AIR (INSTRUMENT AIR SUPPLY)
LS	LIME SOLUTION
NGM	NATURAL GAS (MEDIUM PRESSURE)
OV	OVERFLOW
POLY	POLYMER (LIQUID)
PPS	POTASSIUM PERMANGANATE SOLUTION
PRL	PRESSURE RELIEF LINE
PSW	PLANT SERVICE WATER
PW	POTABLE WATER (TOTALLY TREATED, SAFE FOR HUMANS)
REC	RECIRCULATION LINE
RW	RAW WATER (PRIOR TO ANY TREATMENT)
RWC	RECYCLED WATER SUPPLY
SAM	SAMPLE LINE
SAS	SODA ASH SOLUTION
SW	SANITARY WASTE (PLUMBING)
TW	TREATED WATER (FIRST STAGES OF TREATMENT)
WW	WASTE WATER
VE	VENT

PIPE CONVERSION CHART

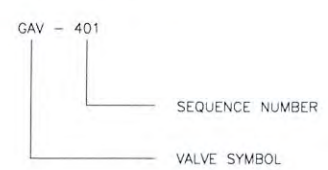
NOMINAL IMPERIAL DESIGNATION SIZE IN INCHES	NOMINAL METRIC DESIGNATION SIZE IN MILLIMETRES	NOMINAL IMPERIAL DESIGNATION SIZE IN INCHES	NOMINAL METRIC DESIGNATION SIZE IN MILLIMETRES
1/8	6	14	350
1/4	8	15	375
3/8	10	16	400
1/2	15	18	450
3/4	20	20	500
1	25	24	600
1 1/4	32	30	750
1 1/2	40	36	900
2	50	42	1050
2 1/2	65	48	1200
3	80	54	1350
4	100	60	1500
5	125	66	1650
6	150	72	1800
8	200	78	1950
10	250	84	2100
12	300		

NOTE: PIPE SIZE FROM 2" THROUGH TO 60" - CONVERSION BASED ON CSA STANDARD Z245.1
PIPE SIZE 2" AND SMALLER - CONVERSION BASED ON EUROPEAN ISO STANDARD
OTHER PIPE SIZES ARE U.S. CONVERSIONS TO THE METRIC SYSTEM

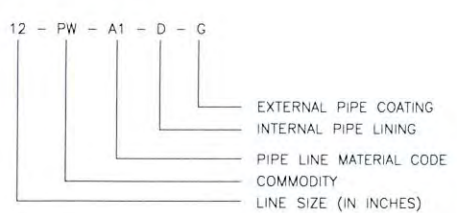
EQUIPMENT IDENTIFICATION



VALVE IDENTIFICATION



LINE IDENTIFICATION



REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
-	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
REVISIONS					

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		REV -

PIPE TO VALVE CONNECTIONS

DESCRIPTION	DOUBLE LINE	SINGLE LINE
FLANGED CONNECTION (WELD NECK FLANGE)		
FLANGED CONNECTION (SLIP-ON FLANGE)		
WELDED CONNECTION		
THREADED CONNECTION		
VICTAULIC CONNECTION		
PIPE CONNECTION DETAILS		
DESCRIPTION	DOUBLE LINE	SINGLE LINE
WELD NECK FLANGE CONNECTION		
SLIP ON FLANGE CONNECTION		
VICTAULIC FLANGE CONNECTION		
UNION		
INSULATING FLANGE		
WELDED CONNECTION (RANDOM LENGTH PIPE)		
SCREWED CONNECTION (RANDOM LENGTH PIPE)		
BELL AND SPIGOT, RING TIGHT, MECHANICAL JOINT CONNECTION		
BLIND FLANGE		
COMPRESSION COUPLING (DRESSER STYLE 38 eg)		
FLANGED/COMPRESSION COUPLING (DRESSER STYLE 128 eg)		
VICTAULIC JOINT CONNECTION		

PIPE ACCESSORY SYMBOLS

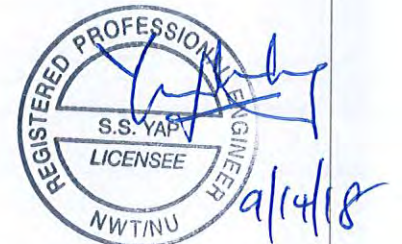
	STRAINER, Y TYPE		CONC. REDUCER
	STRAINER, BASKET TYPE OR INLINE		ECC. REDUCER
	STRAINER, BASKET TYPE (DUPLEX)		FLEXIBLE CONNECTION
	BACK FLOW PREVENTER		HOSE CONNECTION (BIBB)
	JET MIXER, EJECTOR, EDUCTOR		SAFETY SHOWER
	PIG LAUNCHER		EYE WASH
	PIG RECEIVER		OPEN DRAIN TO SEWER OR FLOOR DRAIN
	RUPTURE DISC		FIRE HYDRANT
	DIAPHRAGM SEAL		EXPANSION JOINT (BELLOWS)
	PULSATION DAMPER		LIQUID DIFFUSER
			MUSHROOM VENT
			GOOSE NECK VENT (PIPE)
			FLEXIBLE HOSE (OR TUBING)

LINE SYMBOLS

	PRIMARY FLOW LINE		CONNECTING LINES
	SECONDARY FLOW LINE		(BREAK ALL VERTICAL LINES) CROSSOVER LINES
	DIRECTION OF FLOW		DRAIN TRENCH
	2% SLOPE DIRECTION OF SLOPE (DOWN)		DWG. No.
	FUTURE LINE		DWG. No.
	EXISTING LINE (SUBDUED) (CONTINUOUS OR DASHED FORMAT)		LINE CONTINUATION FROM ANOTHER DRAWING
	INSULATION COLD OR PERSONAL PROTECTION		LINE CONTINUATION FROM ANOTHER DRAWING
	INSULATION TRACE - ELECTRIC		LINE SPECIFICATION CHANGE
	INSULATION TRACE - STEAM OR GLYCOL		SAMPLE POINT
			DRAIN POINT
			MANUAL VENT / PURGE POINT

FLOW AND METERING SYMBOLS

	FE	FLUME		FE	WEIR		FE	TURBINE OR PROPELLER TYPE PRIMARY ELEMENT		FE	FLOAT SWITCH		FE	POSITIVE DISPLACEMENT TYPE FLOW TOTALIZING INDICATOR		FE	VORTEX SENSOR
	FI	ROTEAMETER TYPE FLOW INDICATOR		FE	PITOT TUBE OR PITOT VENTURI TUBE		FE	ORIFICE PLATE TYPE FLOW INDICATOR		M	FE	MAGNETIC FLOWMETER WITH INTEGRAL TRANSMITTER		FE	SONIC FLOWMETER "DOPPLER" OR "TRANSIT TIME" MAY BE ADDED		
	FI	FLOW SIGHT GLASS		FX	FLOW STRAIGHTENING VANES		FE	VENTURI TUBE		M	FE	MAGNETIC FLOWMETER					



REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
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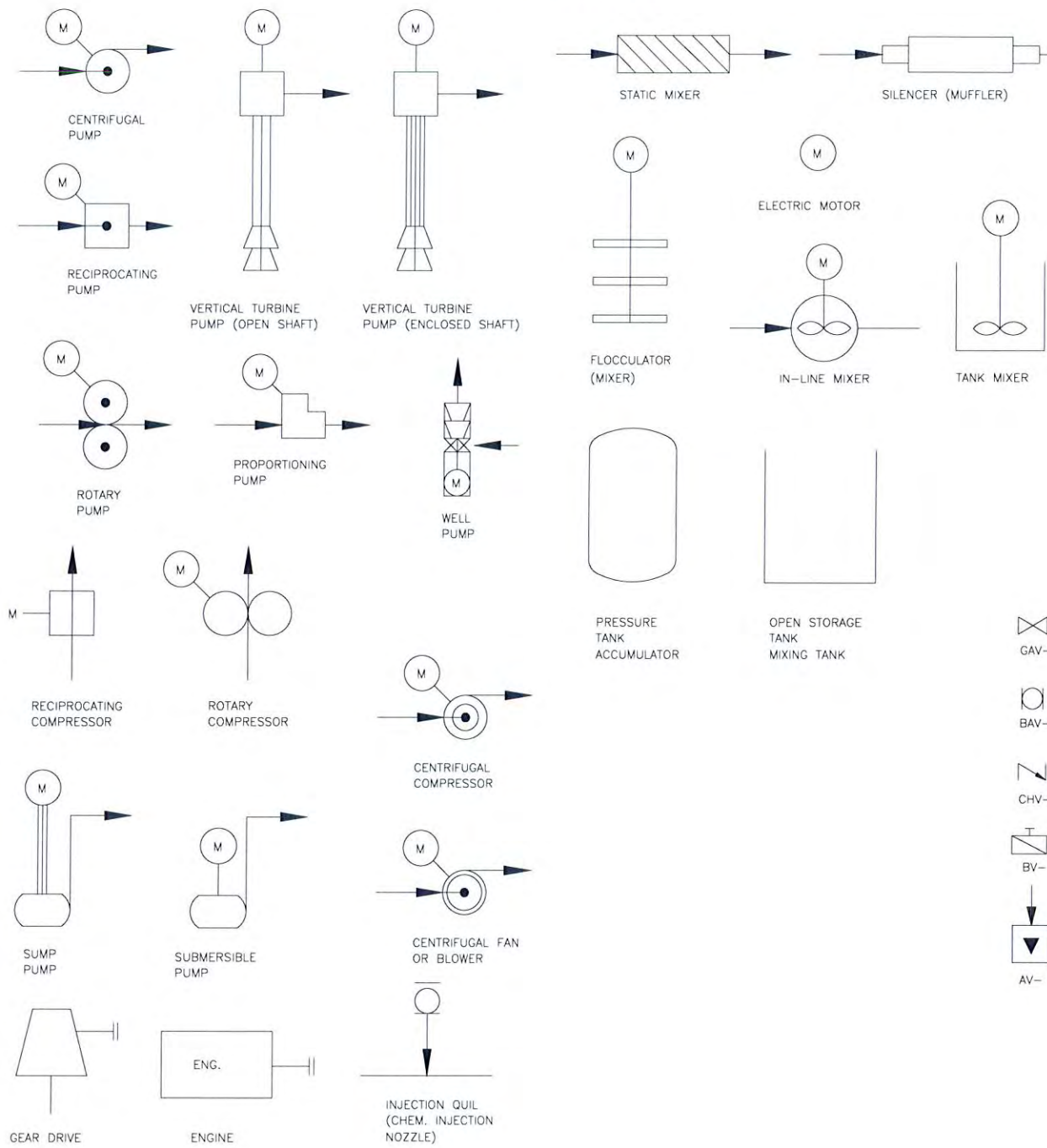
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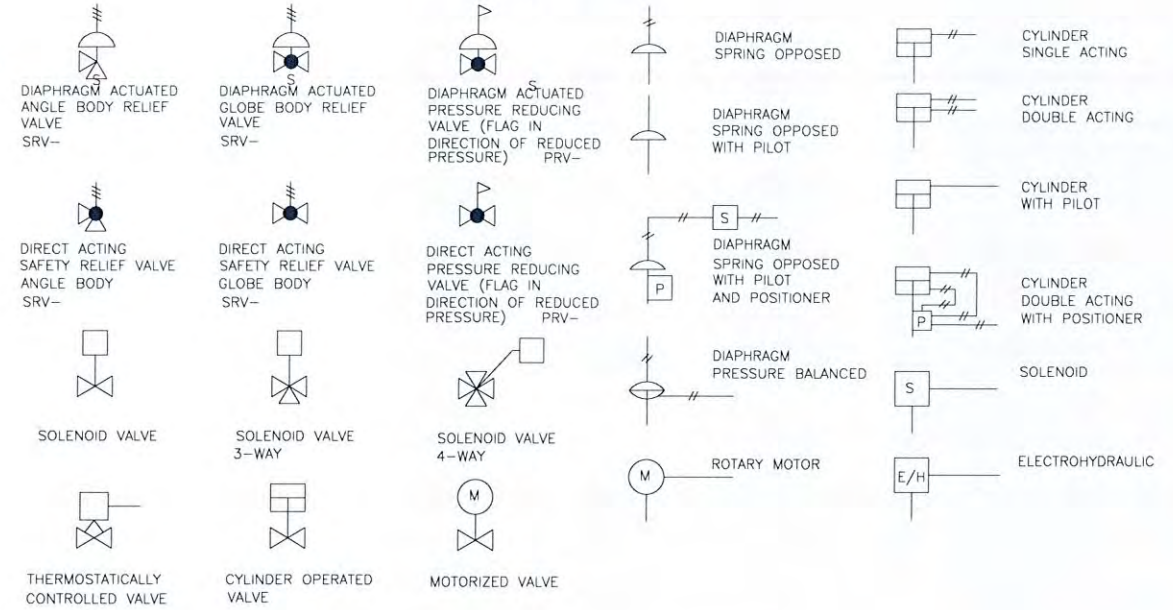
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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP SYMBOLS & LEGENDS SHEET 4 OF 8
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02-00
		REV -

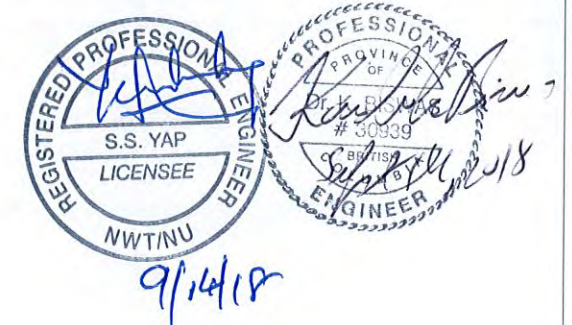
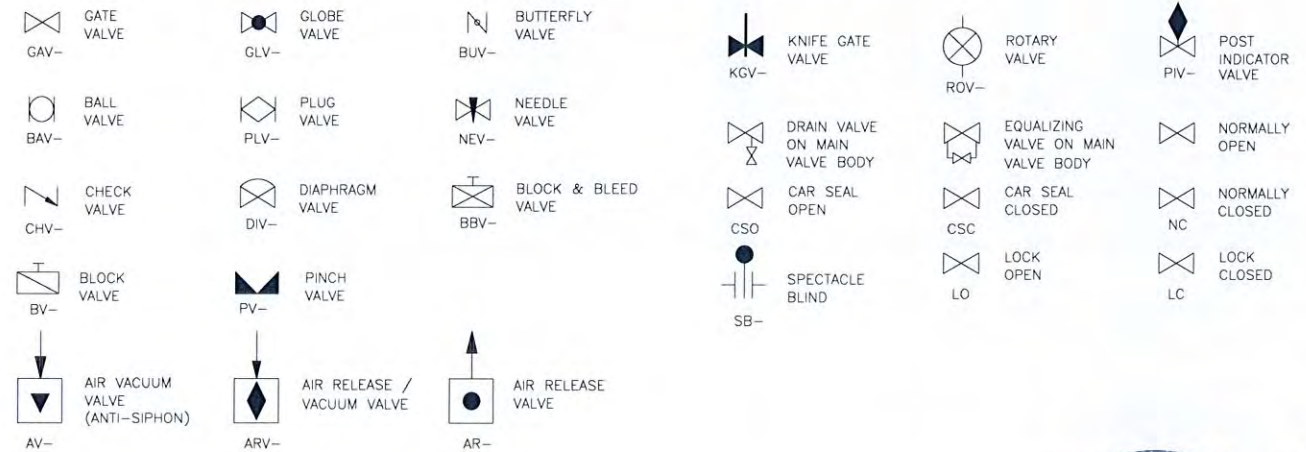
EQUIPMENT SYMBOLS



CONTROL VALVE SYMBOLS



VALVE SYMBOLS AND IDENTIFICATION TAGS



REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
-	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
REVISIONS					

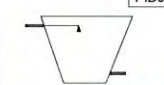
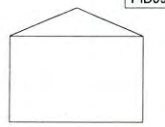
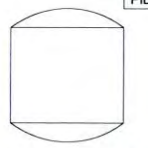

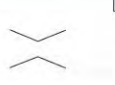

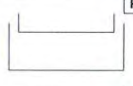
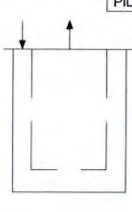


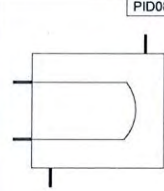
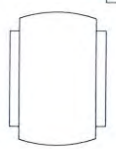
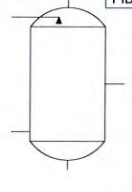

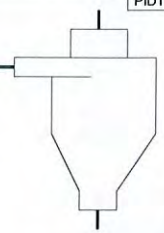
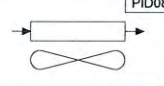

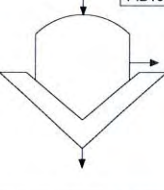
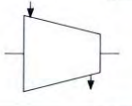

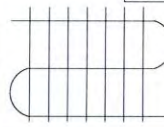
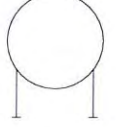
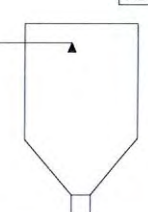

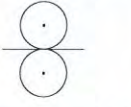

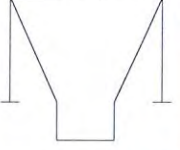
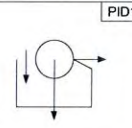
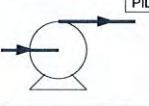
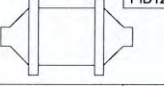

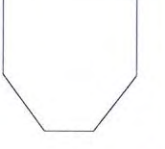

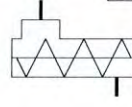
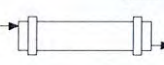



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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP SYMBOLS & LEGENDS SHEET 5 OF 8
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02-00
		REV -


	PID084	COOLING TOWER		PID092	ATMOSPHERIC TANK		PID100	REACTOR		PID106	MOTOR?		PID115	FLUME
	PID085	DISTILLATION TOWER		PID093	FLOATING ROOF TANK		PID101	LIQUID FILTER		PID107	MOTOR?		PID116	FURNACE
	PID086	EVAPORATOR		PID094	JACKETED VESSEL		PID102	SCRUBBER		PID108	BLOWER		PID117	CYCLONE SEPARATOR
	PID087	FORCED AIR EXCHANGER		PID095	VESSEL		PID103	VACUUM FILTER		PID109	COMPRESSOR		PID118	ROTARY FEEDER
	PID088	FINNED EXCHANGER		PID096	PRESSURE STORAGE VESSEL		PID104	SPRAY DRIER		PID110	PUMP		PID119	ROLL STAND
	PID089	HEAT EXCHANGER		PID097	WEIGH HOPPER		PID105	ROTORY SEPERATOR		PID111	PUMP (2)		PID120	MILL
	PID090	HEAT EXCHANGER (2)		PID098	BIN		PID099	AGITATOR		PID112	SCREW CONVEYOR		PID121	ROTARY KILN
	PID091	GAS HOLDER								PID113	CONVEYOR			
										PID114	POSITIVE DISPLACEMENT PUMP			



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	PID016	TWO-WAY GATE VALVE NORMALLY OPEN		PID037	TWO-WAY VALVE W/ DIAPHRAGM ACTUATOR		PID048	HAND WHEEL		PID061	VORTEX FLOWMETER		PID072	DAMPER OR LOUVER
	PID017	TWO-WAY GATE VALVE NORMALLY CLOSED		PID038	TWO-WAY VALVE FAIL-CLOSED		PID049	SPRING, WEIGHT OR PILOT FOR SAFETY/RELIEF VALVE		PID062	SONIC FLOWMETER INCL. TRANSIT TIME OR DOPPLER		PID073	RUPTURE DISK PRESSURE RELIEF
	PID018	GLOBE VALVE NORMALLY OPEN		PID039	TWO-WAY VALVE FAIL-OPEN		PID050	DIAPHRAGM ACTUATOR		PID063	SONIC FLOWMETER		PID074	RUPTURE DISK VACUUM RELIEF
	PID019	GLOBE VALVE NORMALLY CLOSED		PID040	THREE-WAY VALVE		PID051	DIAPHRAGM SPRING OPERATED OR UNSPECIFIED ACTUATOR		PID064	TARGET FLOWMETER		PID075	WATER
	PID020	BALL VALVE NORMALLY CLOSED		PID041	THREE-WAY VALVE FAIL TO PATH INDICATED BY ARROW		PID052	SOLENOID		PID065	TURBINE FLOWMETER		PID076	RESTRICTION ORIFACE PLATE
	PID021	BALL VALVE NORMALLY OPEN		PID042	FOUR-WAY VALVE		PID053	UNSPECIFIED ACTUATOR (INSERT S=SOLENOID, D=DIGITAL, P=PILOT)		PID066	MAGNETIC FLOWMETER		PID077	RESTRICTION ORIFACE DRILLED IN VALVE
	PID022	PLUG VALVE NORMALLY CLOSED		PID043	FOUR-WAY VALVE FAIL TO PATHS INDICATED BY ARROWS		PID054	DIAPHRAGM PRESSURE-BALANCED		PID067	VARIABLE AREA FLOW INDICATOR		PID078	FLOW NOZZLE
	PID023	PLUG VALVE NORMALLY OPEN		PID044	PRESSURE RELIEF OR SAFETY VALVE		PID055	SPRING-OPPOSED SINGLE-ACTING CYLINDER ACTUATOR		PID068	VARIABLE AREA FLOW INDICATOR (2)		PID079	FLOW STRAIGHTENING VANE
	PID024	HAND-WHEEL ACTUATED VALVE		PID045	VACUUM RELIEF VALVE		PID056	SPRING-OPPOSED DOUBLE-ACTING CYLINDER ACTUATOR		PID069	AVERAGING PILOT TUBE		PID080	VENTURI TUBE
	PID025	BUTTERFLY VALVE		PID046	PRESSURE REGULATOR		PID057	CYLINDER WITH POSITIONER AND OVERRIDING PILOT VALVE		PID070	PILOT TUBE, SINGLE PORT		PID081	ORIFACE PLATE WITH QUICK-CHANGE FITTING
	PID026	CHECK VALVE		PID047	PRESSURE REGULATOR (2)		PID058	ACTUATOR WITH ATTACHED ELECTROPNEUMATIC CONVERTER		PID071	POSITIVE DISPLACEMENT FLOW TOTALIZING INDICATOR		PID082	INLINE MIXER
	PID027	ANGLE VALVE					PID059	ACTUATOR WITH ATTACHED ELECTROPNEUMATIC CONVERTER		PID083	PURGE OR FLUSHING DEVICE			
	PID028	TWO-WAY VALVE W/ ACTUATOR					PID060	RESET FOR LATCH-TYPE ACTUATOR						
	PID029	ROTARY VALVE												
	PID030	DIAPHRAGM												
	PID031	DIAPHRAGM SEAL												
	PID032	REDUCER												
	PID033	UNION												
	PID034	TEE												
	PID035	CAP OR PLUG												
	PID036	BLIND FLANGE												



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DESIGN	KB	
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SCALE	NTS	DRAWING NO. 10338-P-02-00
		REV -

ISA NAMING NOMENCLATURE				
FIRST LETTER		SUCCEEDING LETTERS		
MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS			
B	COMBUSTION, BURNER FLAME	ALARM		
C	USER'S CHOICE (CONDUCTIVITY (ELECTRICAL))	USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
D	USER'S CHOICE (DENSITY (MASS) OR SPECIFIC GRAVITY)		CONTROL	
E	VOLTAGE (EMF)			
F	FLOW RATE	SENSOR (PRIMARY ELEMENT)		
G	USER'S CHOICE (GAGING (DIMENSIONAL))			
H	USER'S CHOICE (HAND (MANUALLY INITIATED))			HIGH
I	CURRENT (ELECTRICAL)	INDICATE		
J	POWER			
K	TIME OR TIME SCHEDULE		CONTROL STATION	
L	LEVEL	LIGHT (PILOT)		LOW
M	USER'S CHOICE (MOTOR OR MOISTURE)			MIDDLE, INTERMEDIATE
N	USER'S CHOICE	USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE	ORIFICE (RESTRICTION)		
P	PRESSURE OR VACUUM			
Q	QUANTITY OR EVENT	POINT (TEST) CONNECTION		
R	RADIATION (RADIOACTIVITY)	RECORD OR PRINT		
S	SPEED OR FREQUENCY	SAFETY		SWITCH
T	TEMPERATURE		TRANSMIT	
U	MULTIVARIABLE	MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS		VALVE, DAMPER OR LOUVER	
W	WEIGHT, FORCE (TORQUE)	WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE OR PRESENCE (USER'S CHOICE)	Y AXIS	RELAY, COMPUTE OR CONVERT	
Z	POSITION, DIMENSION	Z AXIS	DRIVE, ACTUATOR OR UNCLASSIFIED FINAL CONTROL ELEMENT	

LINE LEGEND	
	EQUIPMENT OR FIELD PANEL DEMARKATION
	WATER LINE
	FUTURE LINE
	HYD_SIGNAL
	UNDEFINED SIGNAL
	PNEUMATIC SIGNAL (BINARY)
	PNEUMATIC SIGNAL (ANALOG)
	CAPILLARY TUBE
	ELECTRIC SIGNAL (DIGITAL)
	ELECTRIC SIGNAL (BINARY)
	ELECTRIC SIGNAL (ANALOG)
	ELECTROMAGNETIC OR SONIC SIGNAL

LINE CONNECTIONS	
	CONNECTING LINES
	NON-CONNECTING LINES
	CONDUCTORS OR WIRING CONNECTED
	CONDUCTORS OR WIRING NOT CONNECTED
	INTERNAL SYSTEM LINK (SOFTWARE OR DATA LINK)
	MECHANICAL LINK
	POWER SUPPLY
	INSTRUMENT AIR

INSTRUMENT SYMBOLS					
	PID001	DISCRETE INSTRUMENT PRIMARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR		PID007	SHARED DISPLAY/CONTROL PRIMARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR
	PID002	DISCRETE INSTRUMENT PRIMARY LOCATION LOCATED INSIDE PANEL		PID008	SHARED DISPLAY/CONTROL FIELD MOUNTED
	PID003	DISCRETE INSTRUMENT FIELD MOUNTED		PID009	SHARED DISPLAY/CONTROL AUXILIARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR
	PID004	DISCRETE INSTRUMENT AUXILIARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR		PID010	COMPUTER FUNCTION PRIMARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR
	PID005	DISCRETE INSTRUMENT AUXILIARY LOCATION LOCATED INSIDE PANEL		PID011	COMPUTER FUNCTION FIELD MOUNTED
	PID006	INTERLOCK			

FIRST LETTER

SUCCEEDING LETTERS

TAG NUMBER = TWO DIGITS FOR ZONE
+ TWO DIGITS FOR ITEM IN ZONE

1234

TAG NUMBER

COMMON COMPONENT ABBREVIATIONS			
AE/AIT	CHLORINE, pH OR TURBIDITY ELEMENT, LOCAL INDICATOR & TRANSMITTER	PDB	POWER DISTRIBUTION BLOCK
ATS	AUTOMATIC TRANSFER SWITCH	PDS	PRESSURE DIFFERENTIAL SWITCH
C	CAPACITOR	PIS	PRESSURE INDICATING SWITCH
CB	CIRCUIT BREAKER	PLC	PROGRAMMABLE LOGIC CONTROLLER
CE/CIT	CONDUCTIVITY ELEMENT, LOCAL INDICATOR & TRANSMITTER	PM	POWER/PHASE MONITOR
CR	CONTROL RELAY	PS	PRESSURE SWITCH
ETM	ELAPSED TIME METER	PSH	PRESSURE SWITCH HIGH
FE	FLOW ELEMENT	PSL	PRESSURE SWITCH LOW
FE/FIT	FLOW ELEMENT, LOCAL INDICATOR & TRANSMITTER	R	RESISTOR
FE/FT	FLOW ELEMENT & TRANSMITTER	RCP	RECEPTICAL (I.E. GENERATOR PLUG OR OUTLET)
FU	FUSE	SS	SOFT START
HMI	HUMAN-MACHINE INTERFACE (I.E. PANELVIEW)	T	TERMINAL
HS	HAND SWITCH (MULTIPOSITION)	TB	TERMINAL BLOCK
HTR	HEATER	TE/TIT	TEMPERATURE ELEMENT, LOCAL INDICATOR & TRANSMITTER
HV	HAND OPERATED VALVE	TMR	TIMER/CLOCK
ISB	INTRINSIC SAFE BARRIER (ANALOG)	TR	TIME DELAY RELAY
ISR	INTRINSIC SAFE RELAY	TX	TRANSFORMER
L	INDUCTOR	UPS	UNINTERRUPTABLE POWER SUPPLY
LE/LIT	LEVEL ELEMENT, LOCAL INDICATOR & TRANSMITTER	VFD	VARIABLE FREQUENCY DRIVE
LP	LIGHTING PANEL	XCV	CHECK VALVE
LPC	LINE POWER CONDITIONER	XFILT	FILTER
LR	LINE REACTOR OR CHOKE	XTANK	TANK
LS	LEVEL SWITCH	YL	LIGHT, NON-CONTROL (I.E. FLUORESCENT LIGHT)
LSH	LEVEL SWITCH HIGH	YV	SOLENOID VALVE (ON/OFF CONTROL)
LSL	LEVEL SWITCH LOW	YZC	CONTROL VALVE (4 - 20 mA)
M	MOTOR		
MS	MOTOR STARTER OR HP RATED CONTACTOR		
MTS	MANUAL TRANSFER SWITCH		
PB	PUSHBUTTON		

NOTE:
 ELEMENTS OUTPUT A MILLIVOLT OR MILLIAMP SIGNAL
 TRANSMITTERS OUTPUT A 4 - 20 mA SIGNAL



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-	100% SUBMITTAL	RT	KB	JY	JUL-13-2018

NOTE

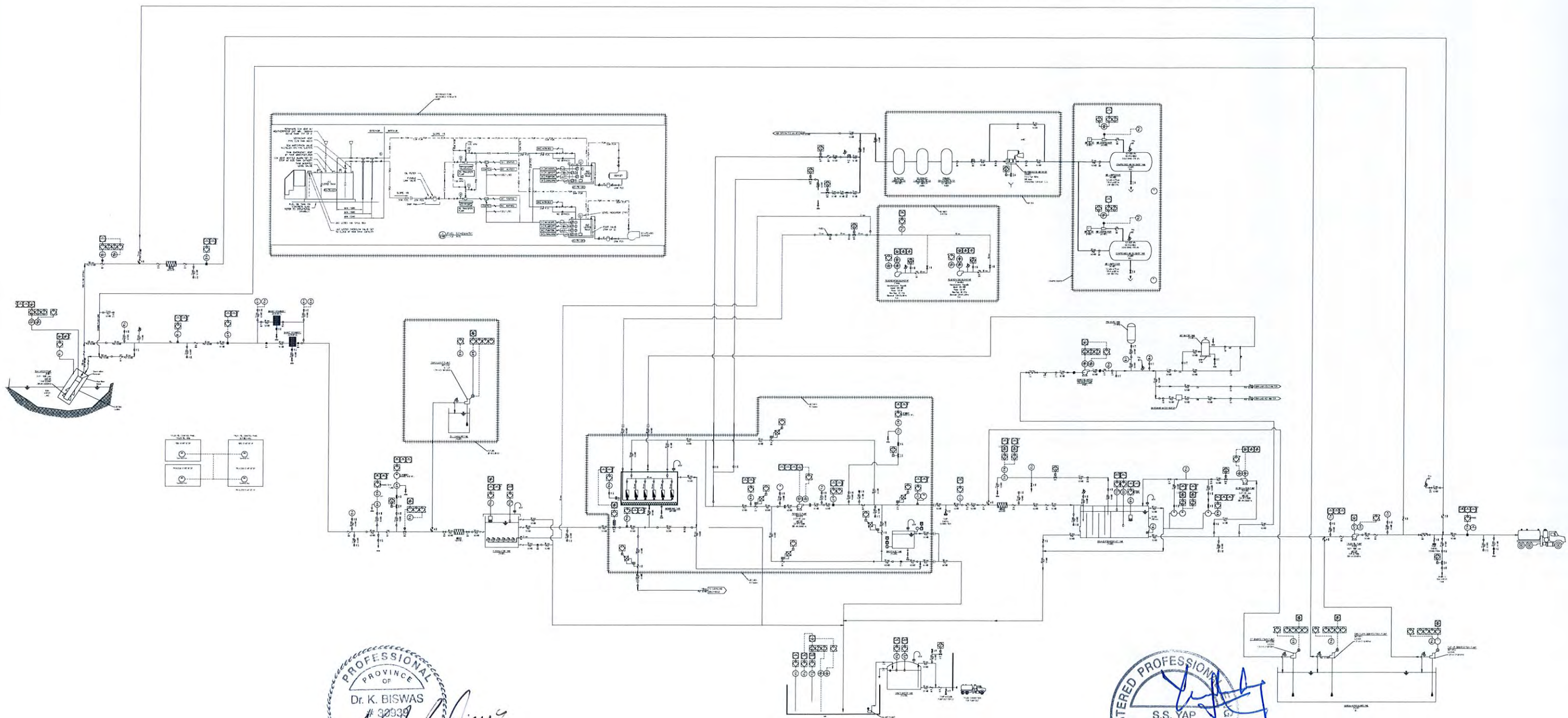
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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP SYMBOLS & LEGENDS SHEET 8 OF 8
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02-00
		REV -

LINE TYPES	
—	WATER LINE (BY AWC INSTALLED BY OTHERS)
---	WATER LINE (SUPPLIED & INSTALLED BY OTHERS)
---	AIR LINE (BY AWC INSTALLED BY OTHERS)
---	AIR LINE (SUPPLIED & INSTALLED BY OTHERS)



PROFESSIONAL
 PROVINCE OF
 BRITISH COLUMBIA
 ENGINEER
 Dr. K. BISWAS
 # 32939
[Signature]
 Sept 14, 2018

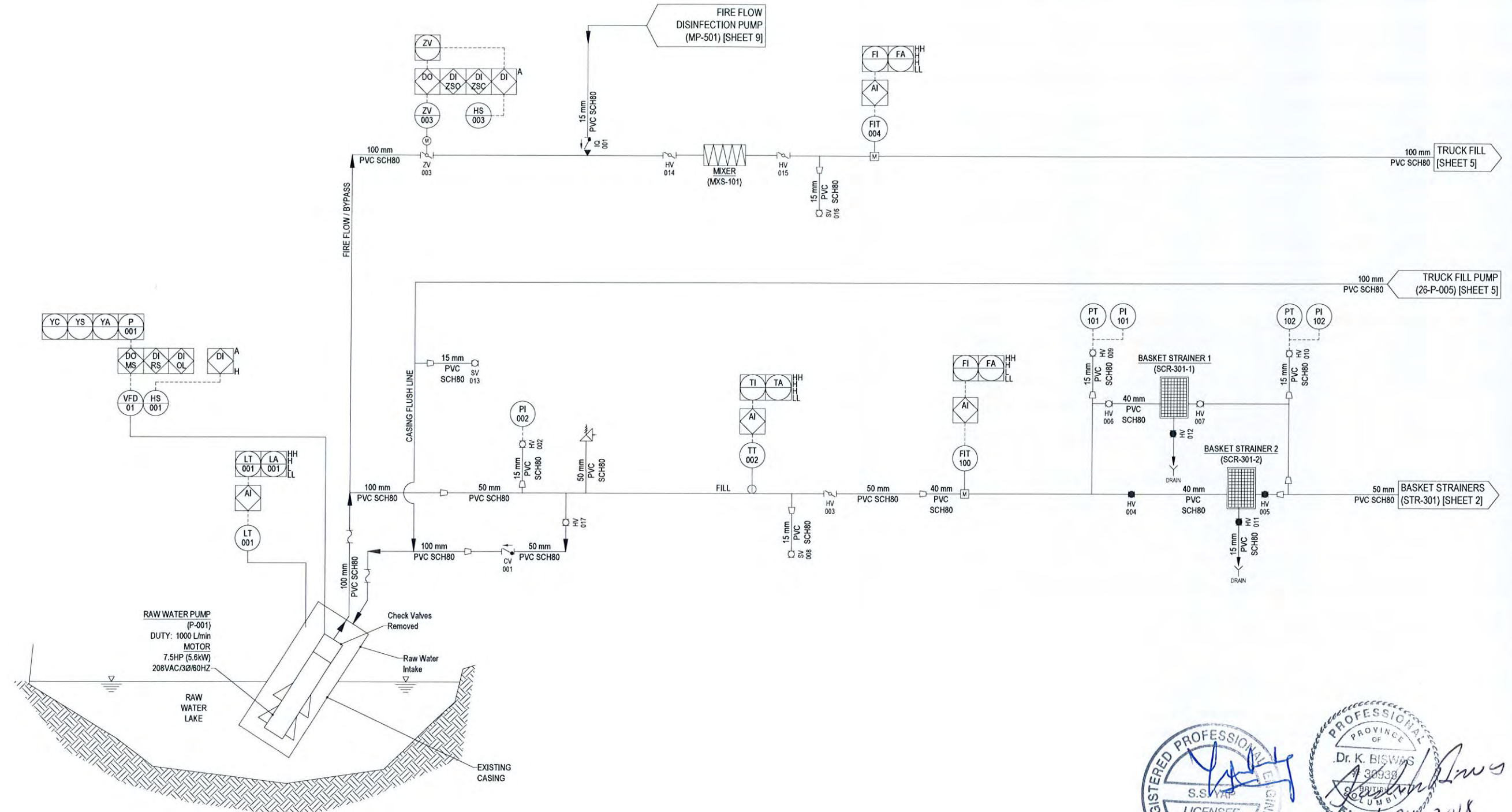
REGISTERED PROFESSIONAL ENGINEER
 S.S. YAP
 LICENSEE
 NWT/NU
[Signature]
 9/14/18

REV	DESCRIPTION	BY	CHKD	APPD	DATE
A	ISSUED FOR CONSTRUCTION	RT	KB	JY	SEP-11-2018
-	100% SUBMITTAL	RT	KB	JY	JUL-13-2018

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DRAWN	RT	GNWT3-PALATUK WTP (Ref. #10338) AWC UF WTP PROCESS & INSTRUMENTATION DIAGRAM SHEET 1 OF 1
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02
		REV A



REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
D	ISSUED FOR CONSTRUCTION	RT	KB	JY	SEP-11-2018
C	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
B	UPDATED - INTERNAL REVIEW	RT	KB	JY	JUN-21-2018
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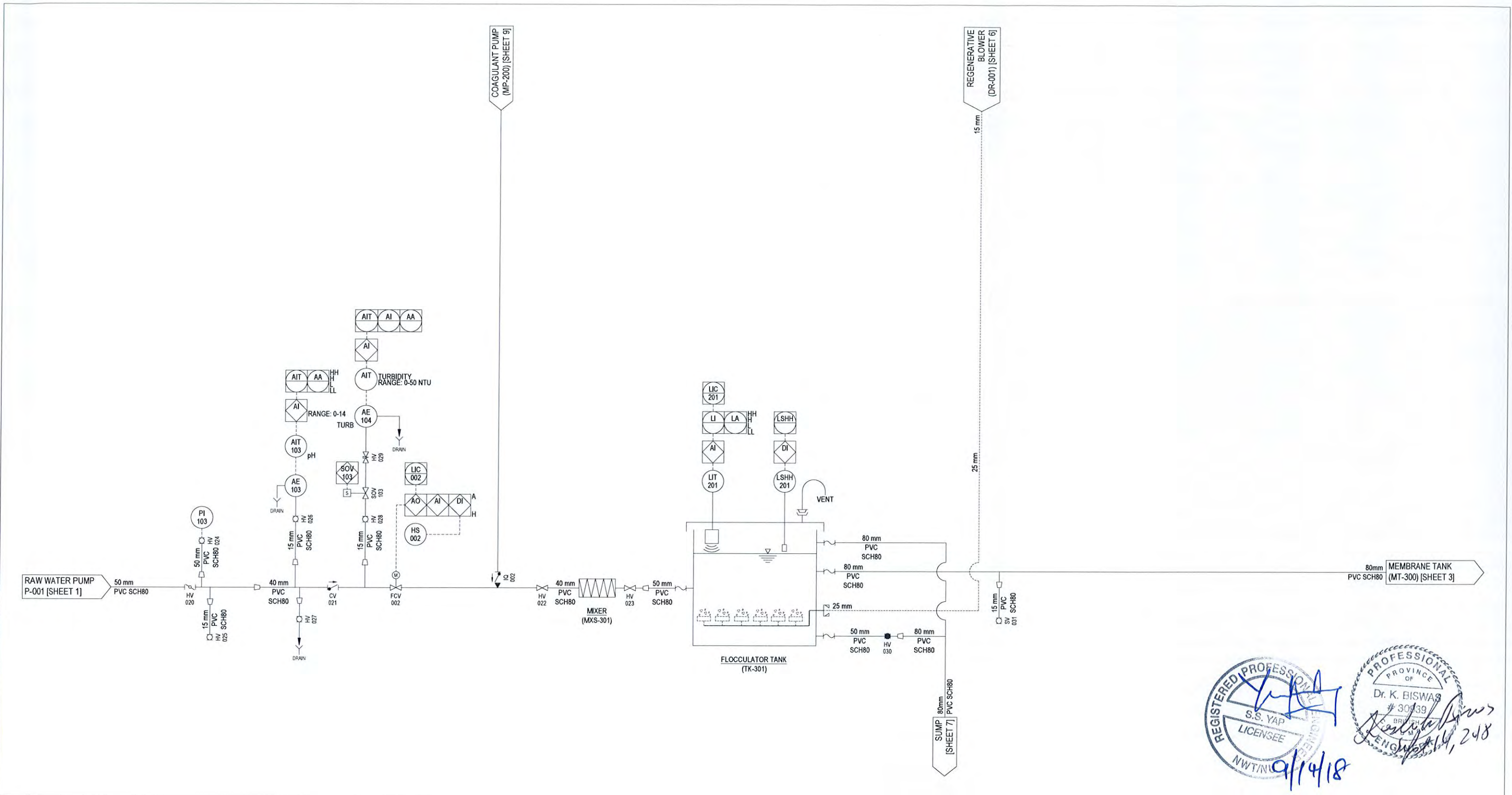
REVISIONS

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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP PROCESS & INSTRUMENTATION DIAGRAM SHEET 1 OF 9
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CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02
		REV D



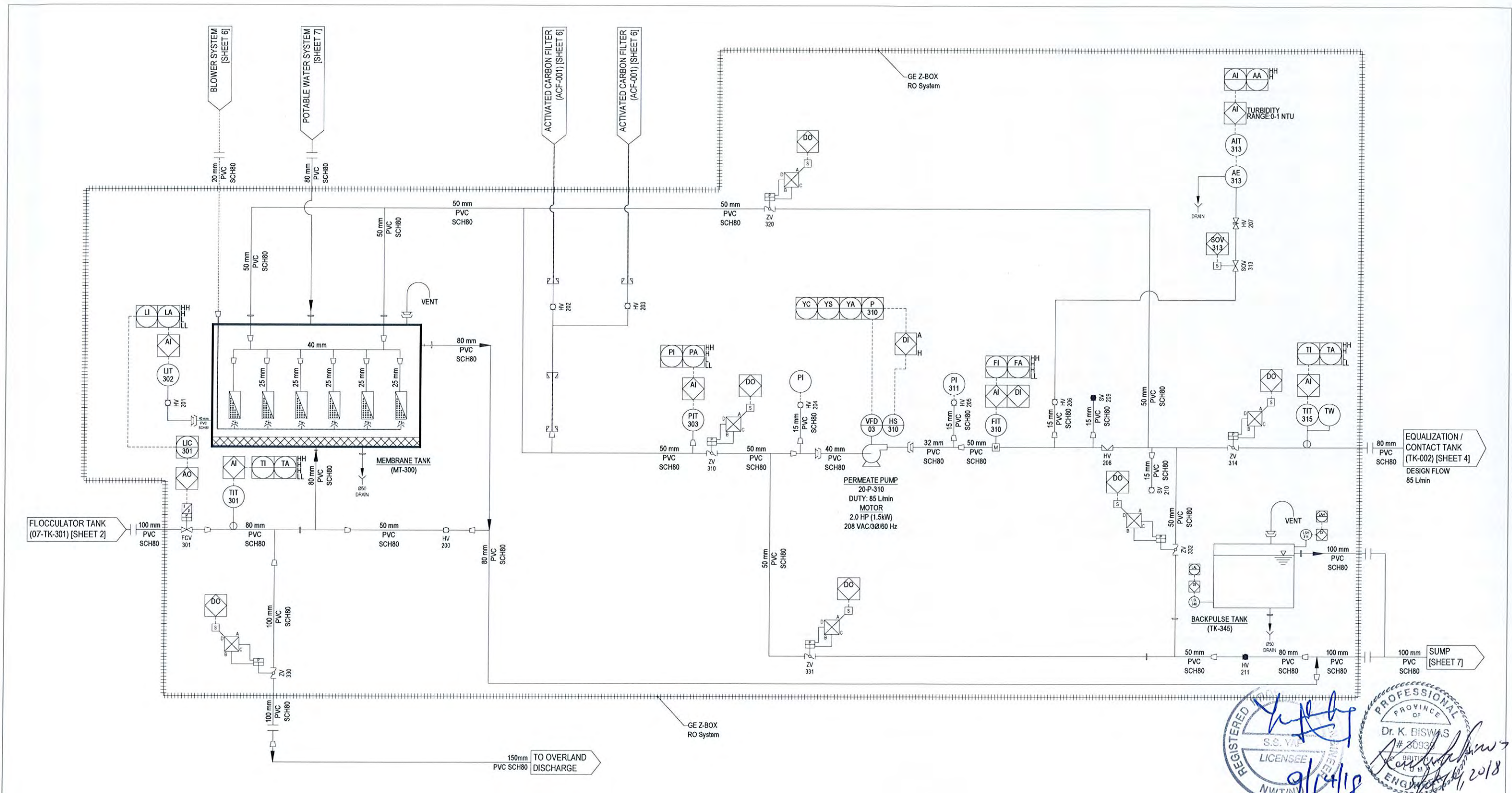
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C	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
B	UPDATED - INTERNAL REVIEW	RT	KB	JY	JUN-21-2018
A	70% SUBMITTAL	RT	KB	JY	APR-09-2018
REVISIONS					

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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP PROCESS & INSTRUMENTATION DIAGRAM SHEET 2 OF 9
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02
		REV D




REGISTERED PROFESSIONAL ENGINEER
 PROVINCE OF BRITISH COLUMBIA
 Dr. K. BISWAS
 # 20933
 9/11/18

REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
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C	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
B	UPDATED - INTERNAL REVIEW	RT	KB	JY	JUN-21-2018
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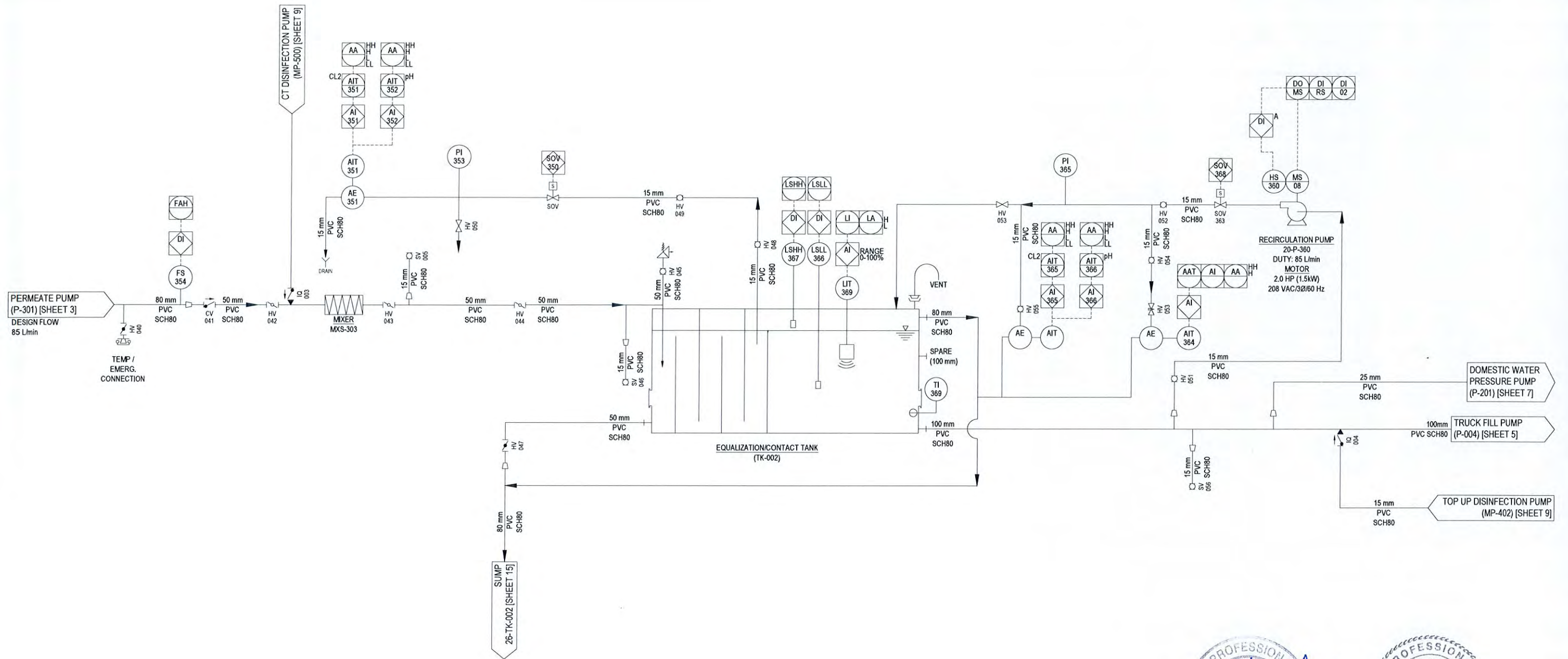
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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP PROCESS & INSTRUMENTATION DIAGRAM SHEET 3 OF 9
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CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
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		REV D



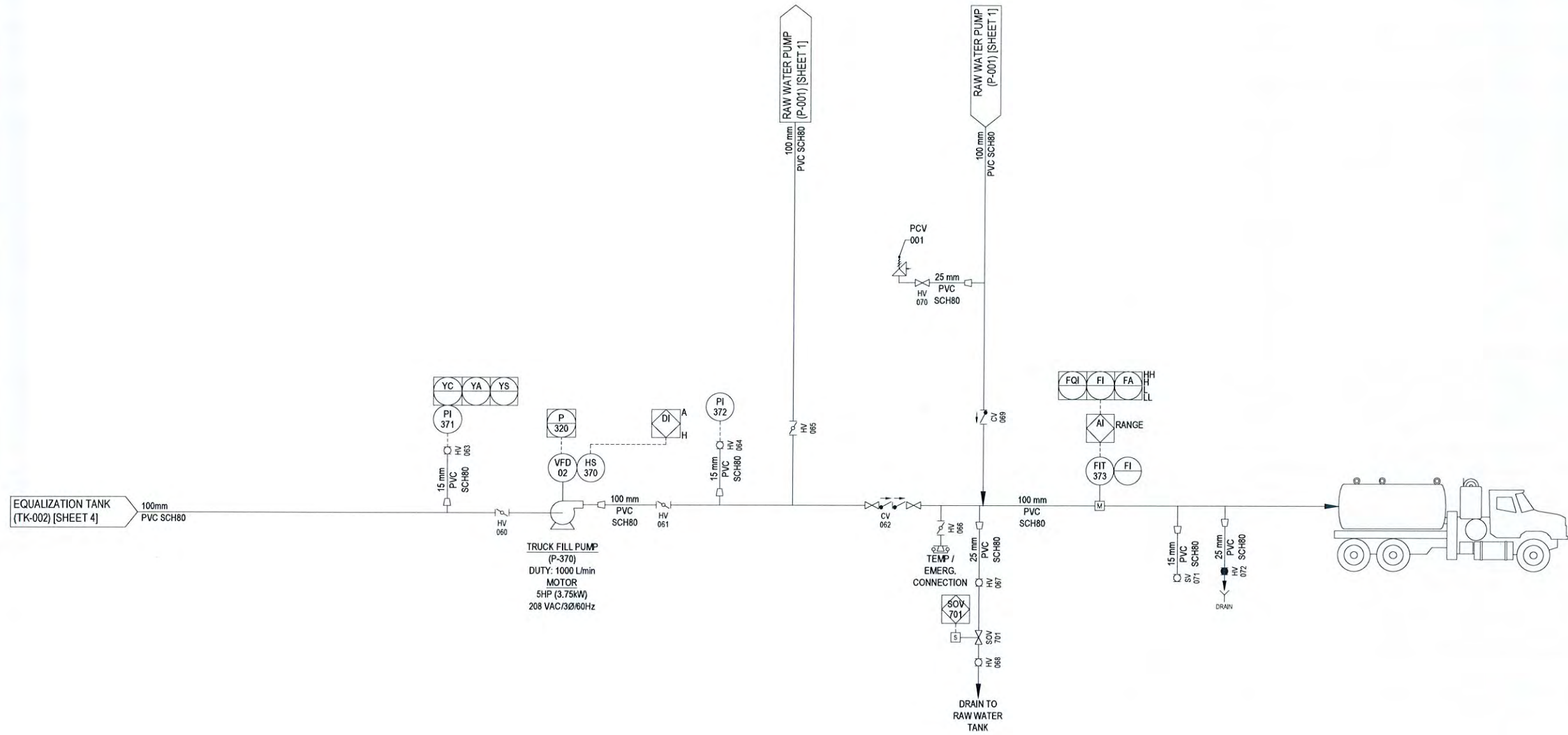
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B	UPDATED - INTERNAL REVIEW	RT	KB	JY	JUN-21-2018
A	70% SUBMITTAL	RT	KB	JY	APR-09-2018
REVISIONS					

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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP PROCESS & INSTRUMENTATION DIAGRAM SHEET 4 OF 9
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02
		REV D



TRUCK FILL PUMP
 (P-370)
 DUTY: 1000 L/min
 MOTOR
 5HP (3.75kW)
 208 VAC/3Ø/60Hz

REGISTERED PROFESSIONAL
 PROVINCE OF BRITISH COLUMBIA
 S.S. YAP
 LICENSEE
 # 30939
 Dr. K. BISWAS
 # 30939
 Sept 14, 2018

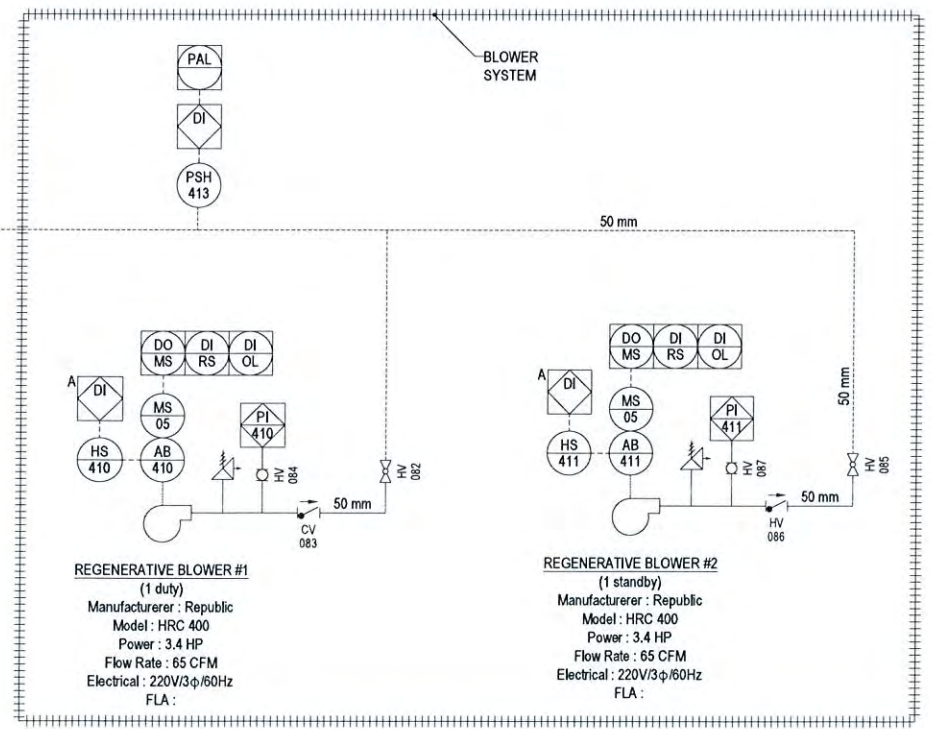
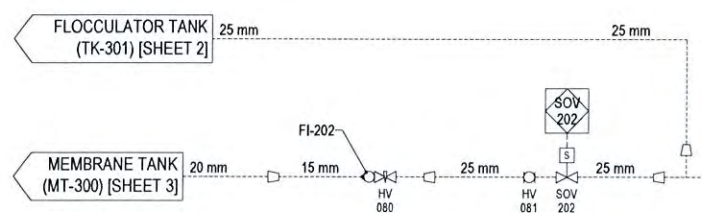
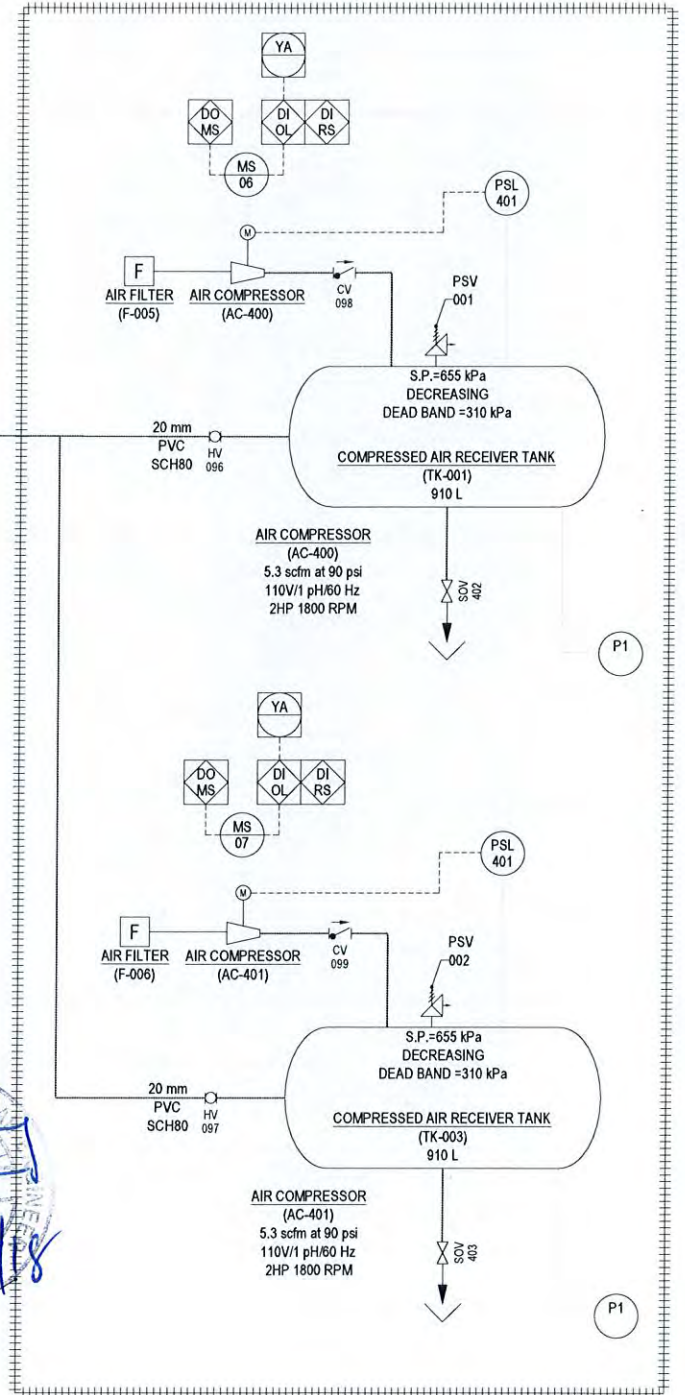
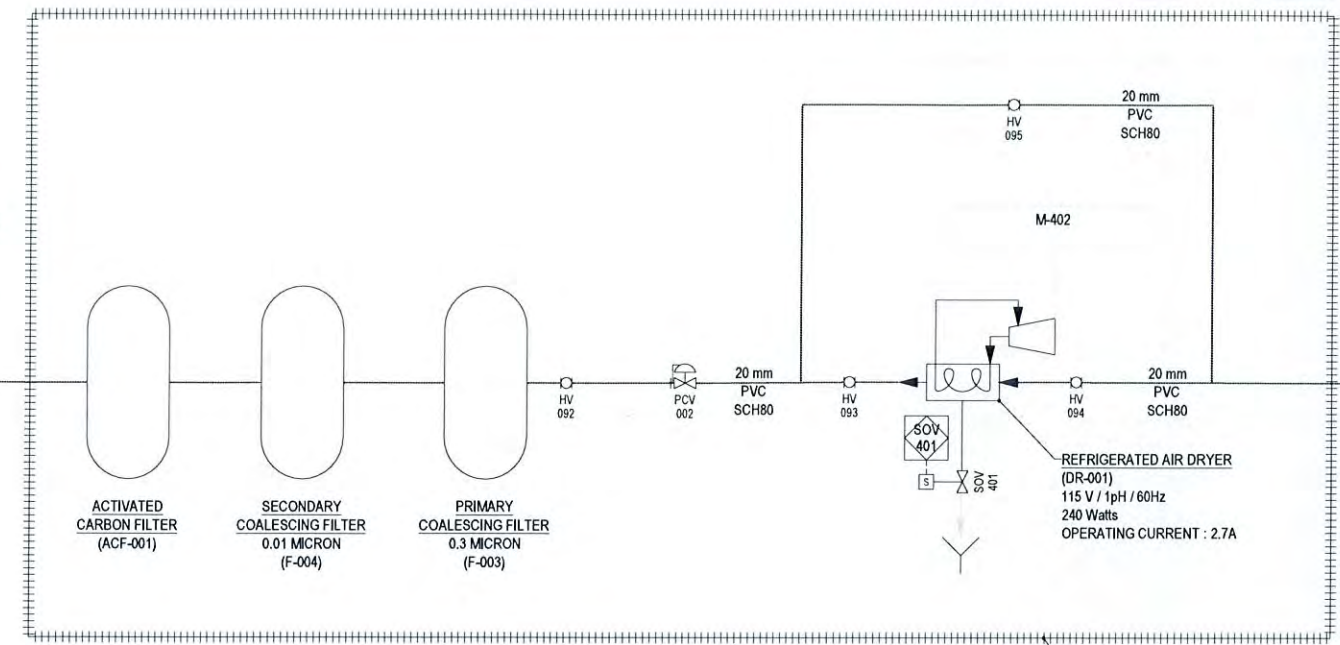
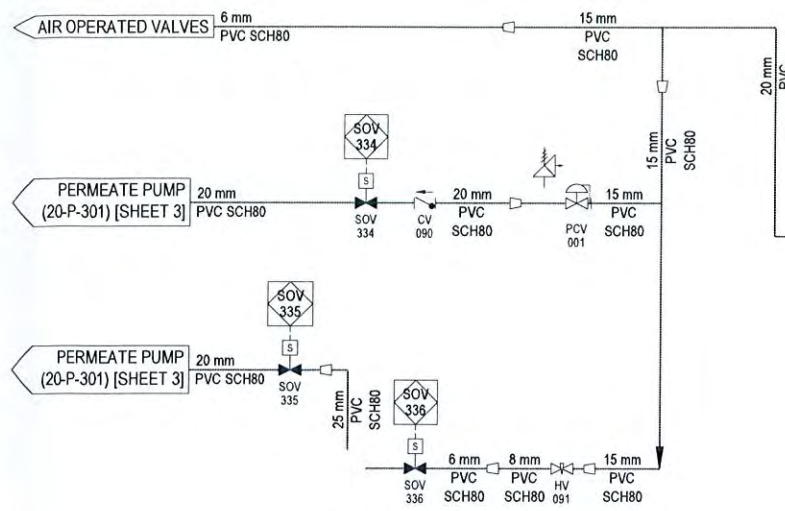
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B	UPDATED - INTERNAL REVIEW	RT	KB	JY	JUN-21-2018
A	70% SUBMITTAL	RT	KB	JY	APR-09-2018
REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
REVISIONS					

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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP PROCESS & INSTRUMENTATION DIAGRAM SHEET 5 OF 9
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02
		REV D



Dr. K. BISWAS
 30939
 ENGINEER
 SEP 2018

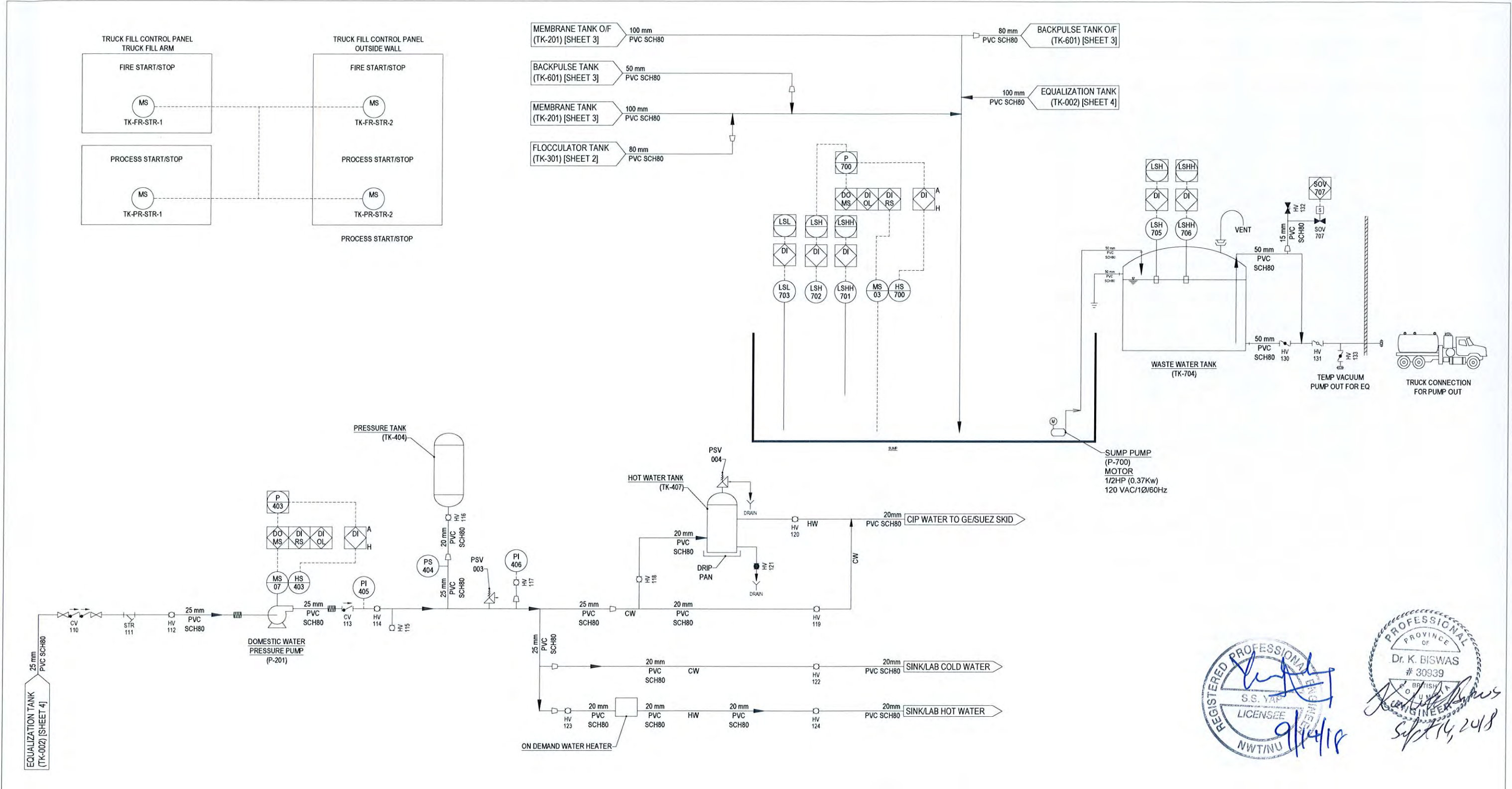
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B	UPDATED - INTERNAL REVIEW	RT	KB	JY	JUN-21-2018
A	70% SUBMITTAL	RT	KB	JY	APR-09-2018
REVISIONS					

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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP PROCESS & INSTRUMENTATION DIAGRAM SHEET 6 OF 9
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02
		REV D



REGISTERED PROFESSIONAL ENGINEER
 PROVINCE OF
 S.S. YAP
 LICENSEE
 #30939
 NWT/NU
 9/14/18
 Dr. K. BISWAS
 #30939
 BRITISH COLUMBIA
 REGISTERED PROFESSIONAL ENGINEER
 Sept 14, 2018

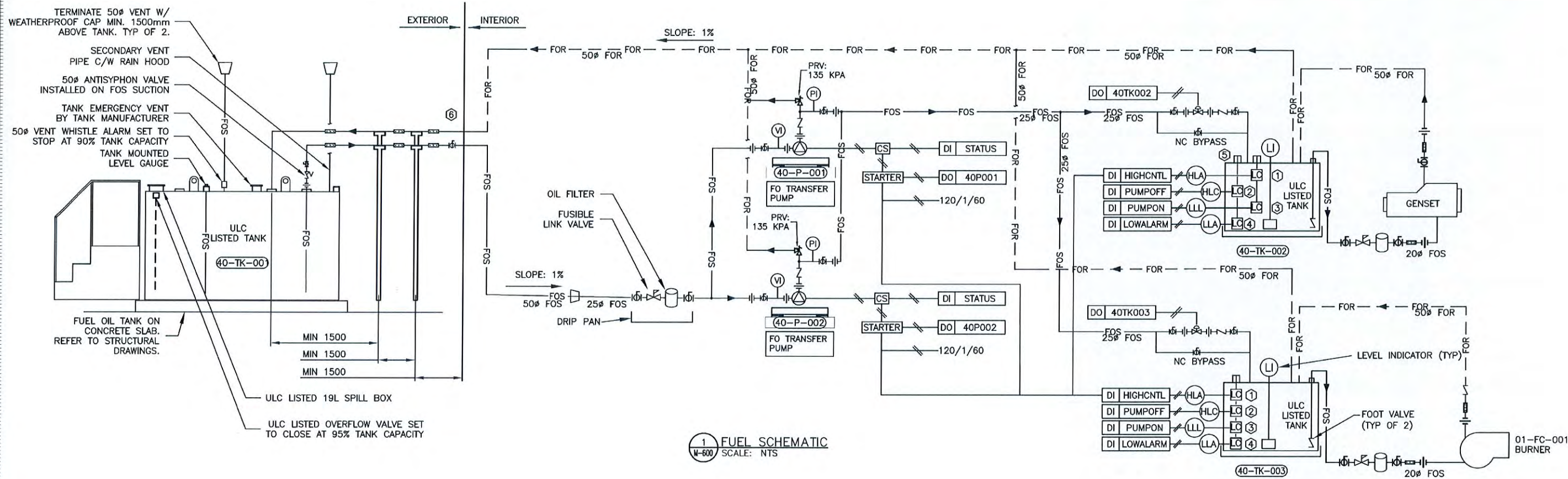
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B	UPDATED - INTERNAL REVIEW	RT	KB	JY	JUN-21-2018
A	70% SUBMITTAL	RT	KB	JY	APR-09-2018
REVISIONS					

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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP PROCESS & INSTRUMENTATION DIAGRAM SHEET 7 OF 9
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02 REV D

REFERENCE FROM
MECHANICAL SCHEMATIC
M-600



1 FUEL SCHEMATIC
SCALE: NTS

REGISTERED PROFESSIONAL
S.S. YAP
LICENSEE
NWTNU
9/14/18

PROFESSIONAL
PROVINCE OF
Dr. K. BISWAS
30939
ENGINEER
9/14/18

REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
D	ISSUED FOR CONSTRUCTION	RT	KB	JY	SEP-11-2018
C	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
B	UPDATED - INTERNAL REVIEW	RT	KB	JY	JUN-21-2018
A	70% SUBMITTAL	RT	KB	JY	APR-09-2018
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REVISIONS

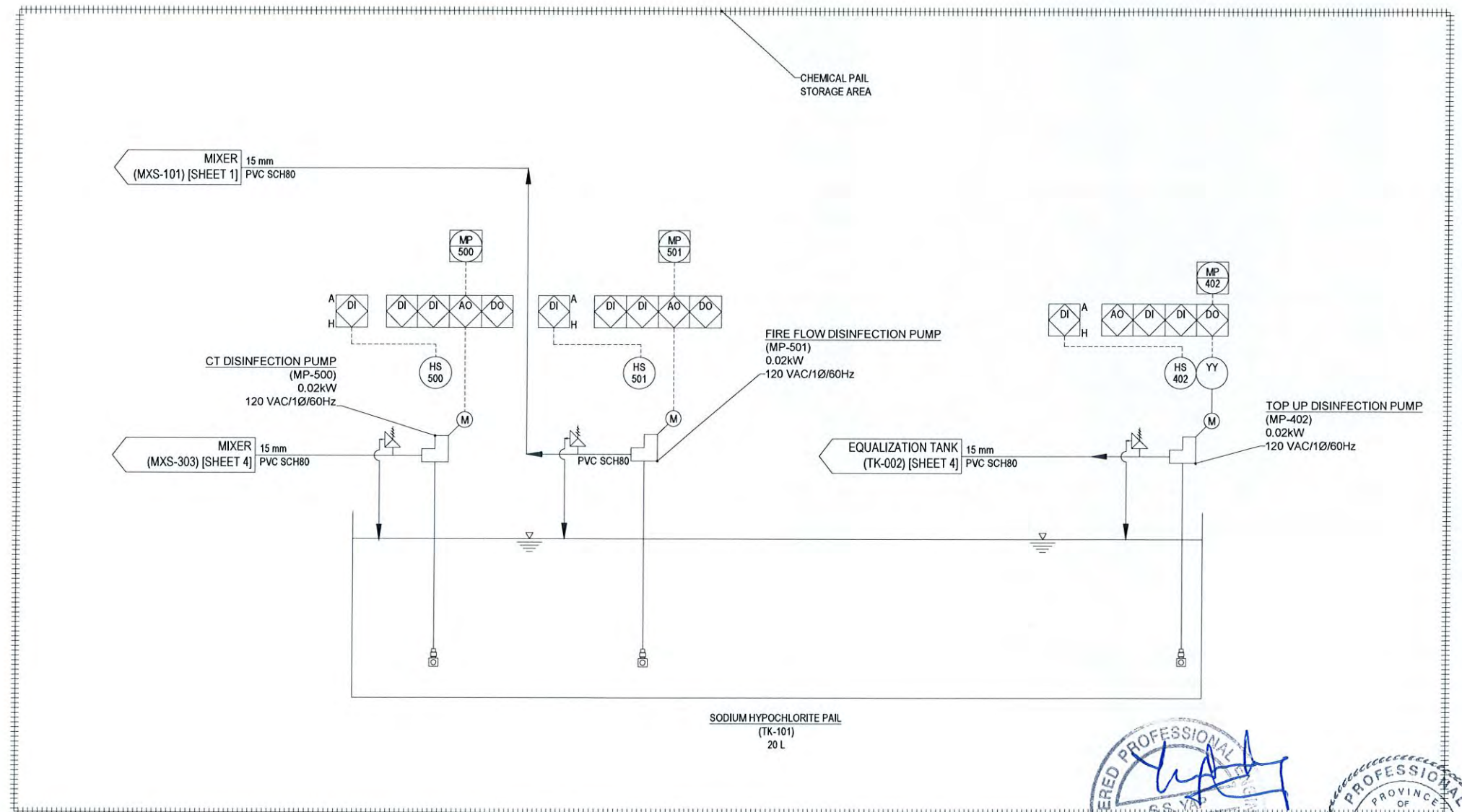
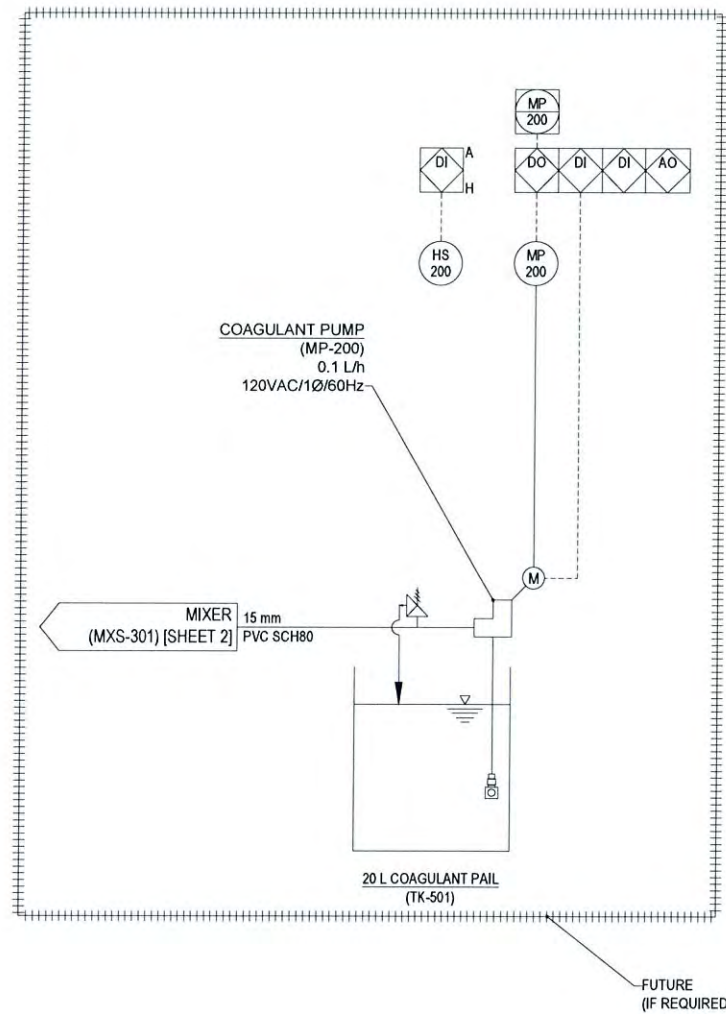
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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP PROCESS & INSTRUMENTATION DIAGRAM SHEET 8 OF 9
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02
		REV D



REGISTERED PROFESSIONAL ENGINEER
 PROVINCE OF BRITISH COLUMBIA
 LICENSE # 20939
 Dr. K. BISWAS
 9/14/18

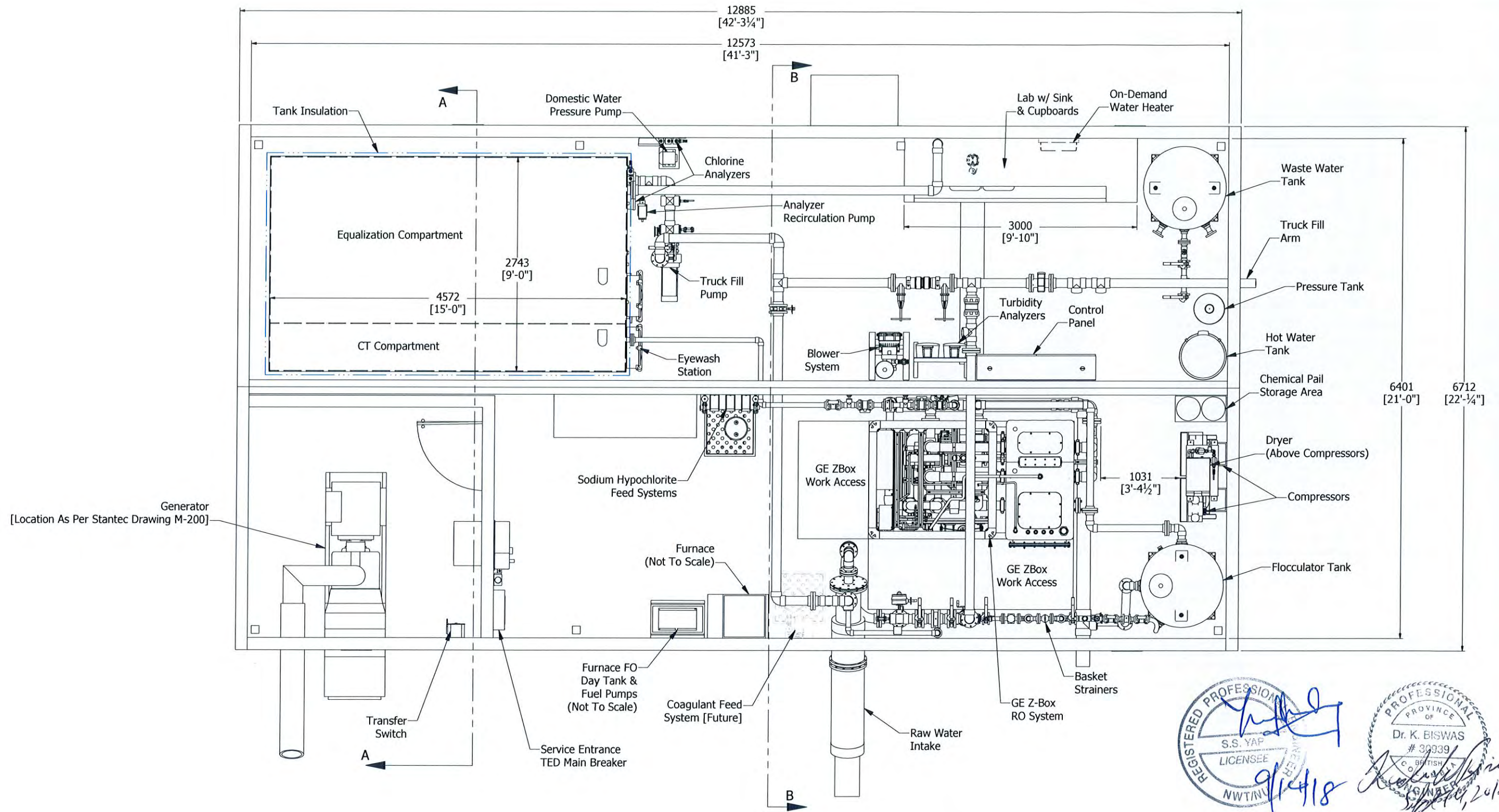
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B	UPDATED - INTERNAL REVIEW	RT	KB	JY	JUN-21-2018
A	70% SUBMITTAL	RT	KB	JY	APR-09-2018
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DRAWN	RT	GNWT3-PAULATUK WTP (Ref. #10338) AWC UF WTP PROCESS & INSTRUMENTATION DIAGRAM SHEET 9 OF 9
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	2016-12-14	
SCALE	NTS	DRAWING NO. 10338-P-02
		REV D



REGISTERED PROFESSIONAL ENGINEER
 S.S. YAP
 LICENSEE
 NWTINVT
 9/14/18

PROFESSIONAL ENGINEER
 PROVINCE OF BRITISH COLUMBIA
 Dr. K. BISWAS
 # 30939
 11/16/2018

REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
D	OVERFLOW RAISED ON FLOCCULATOR TANK	RT	KB	JY	SEP-06-2018
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B	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
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REV	DESCRIPTION	BY	CHK'D	APP'D	DATE

REVISIONS

NOTE

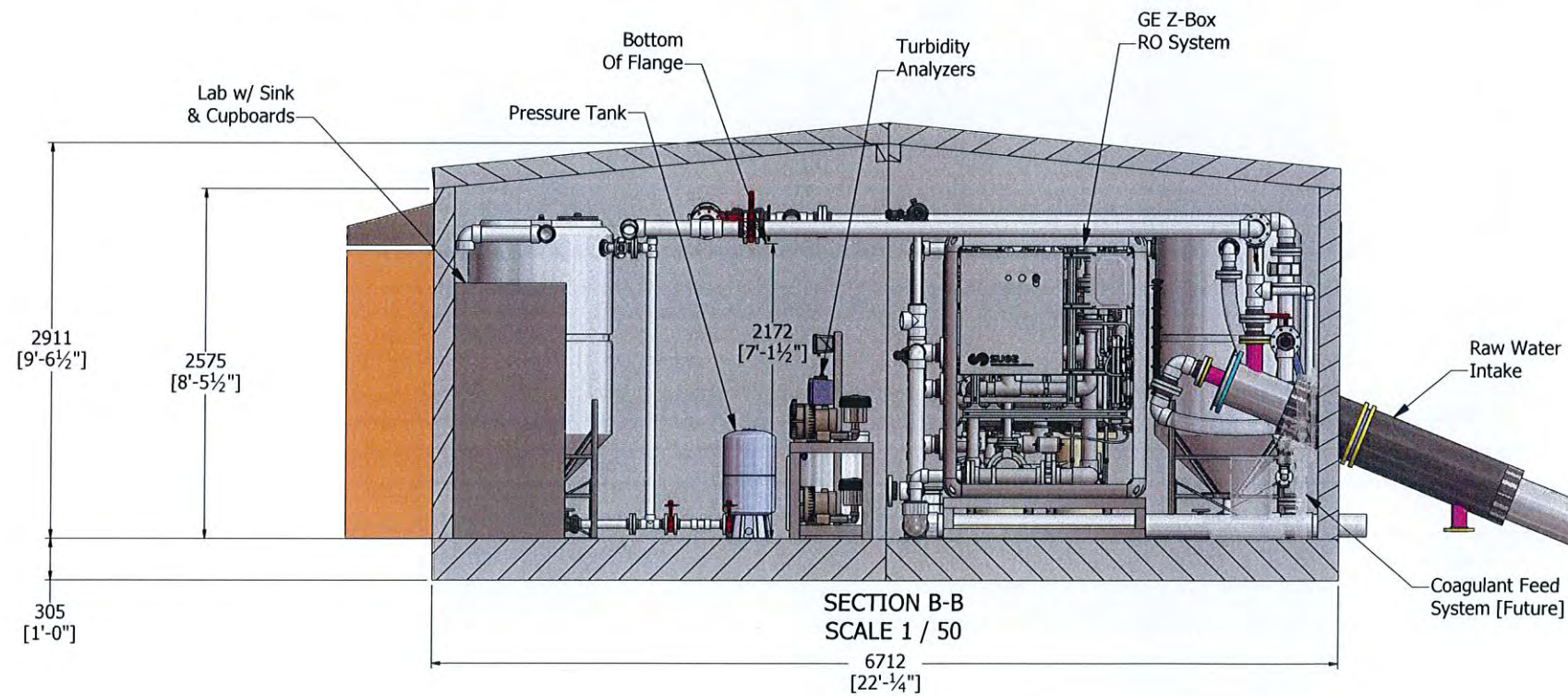
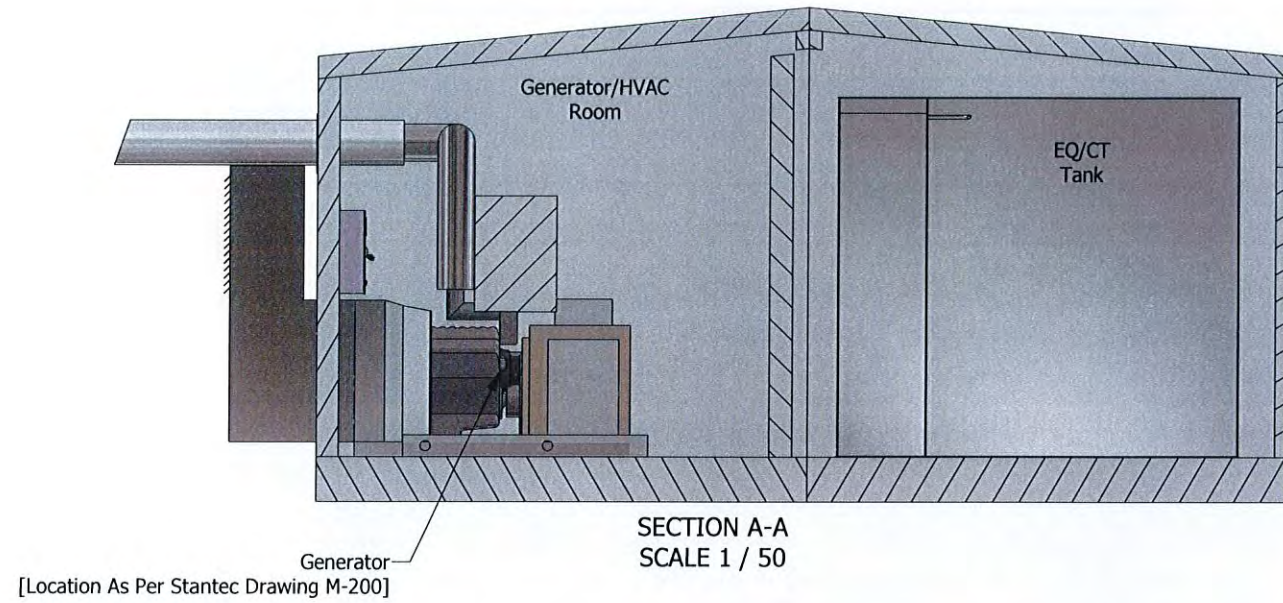
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DRAWN	RT
DESIGN	KB
CHECKED	KB
APPROVED	JY
DATE	JAN-29-2018
SCALE	NTS

GNWT3-PAULATUK WTP (REF #10338)
AWC UF WTP GENERAL ARRANGEMENT
SHEET 1 OF 3
DRAWING NO. 10338-P-01
REV D



REGISTERED PROFESSIONAL ENGINEER
S.S. YAP
LICENSEE
NWT/NV

PROFESSIONAL ENGINEER
PROVINCE OF
Dr. K. BISWAS
30939
BRITISH COLUMBIA
ENGINEER

9/14/18

5/26/14, 2018

REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
D	OVERFLOW RAISED ON FLOCCULATOR TANK	RT	KB	JY	SEP-06-2018
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REVISIONS

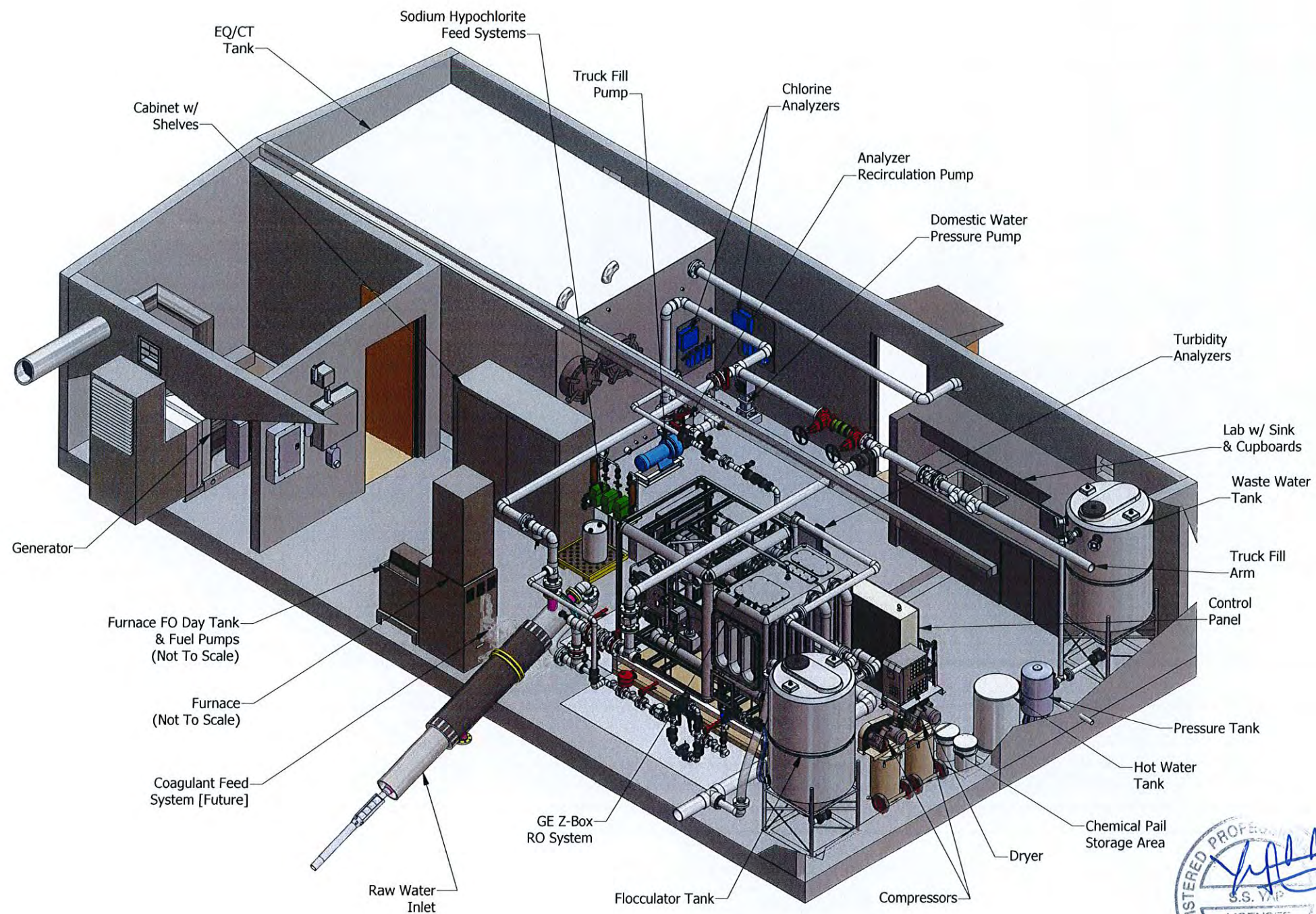
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DRAWN	RT	GNWT3-PAULATUK WTP (REF #10338) AWC UF WTP GENERAL ARRANGEMENT SHEET 2 OF 3	
DESIGN	KB		
CHECKED	KB		
APPROVED	JY		
DATE	JAN-29-2018		
SCALE	NTS	DRAWING NO. 10338-P-01	REV D



REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
D	OVERFLOW RAISED ON FLOCCULATOR TANK	RT	KB	JY	SEP-06-2018
C	UPDATE	RT	KB	JY	AUG-20-2018
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REVISIONS

NOTE

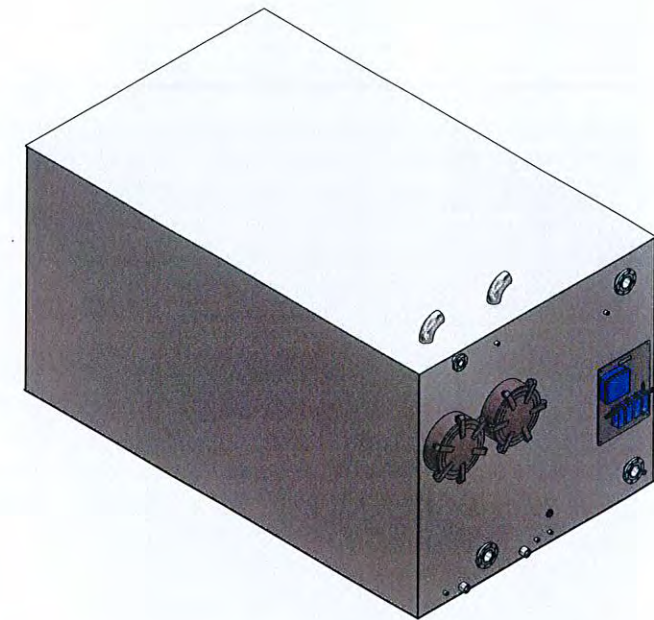
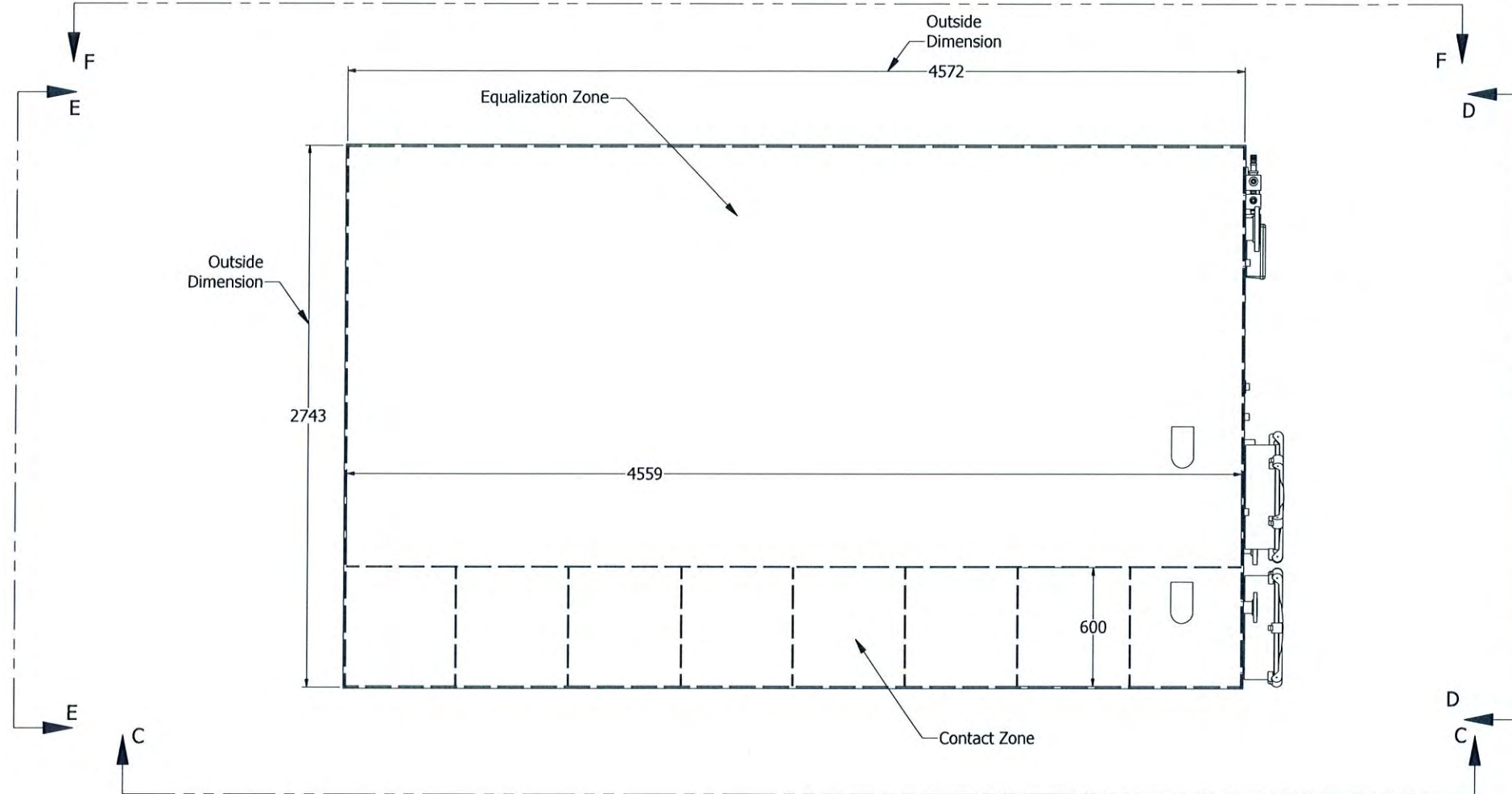
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DRAWN	RT
DESIGN	KB
CHECKED	KB
APPROVED	JY
DATE	JAN-29-2018
SCALE	NTS

GNWT3-PAULATUK WTP
 (REF #10338)
 AWC UF WTP
 GENERAL ARRANGEMENT
 SHEET 3 OF 3

DRAWING NO.	10338-P-01	REV	D
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NOTES

All Material To Be Aluminum Unless Noted Otherwise.

All Walls To Be 6 Thick Unless Noted Otherwise.

All Flanges To Be 150# Flat Faced-Slip On Unless Noted Otherwise.

REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
REVISIONS					

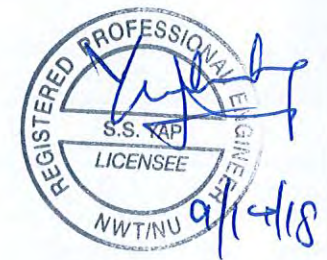
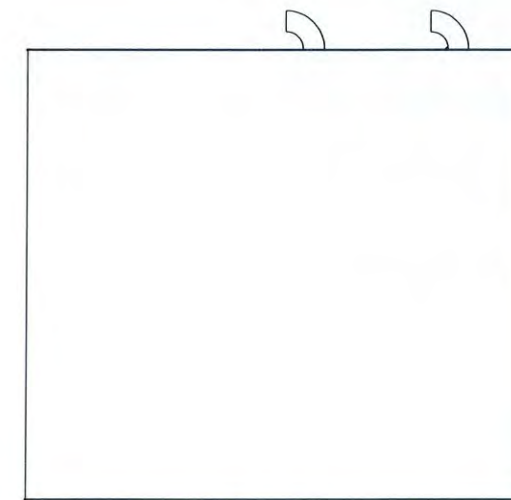
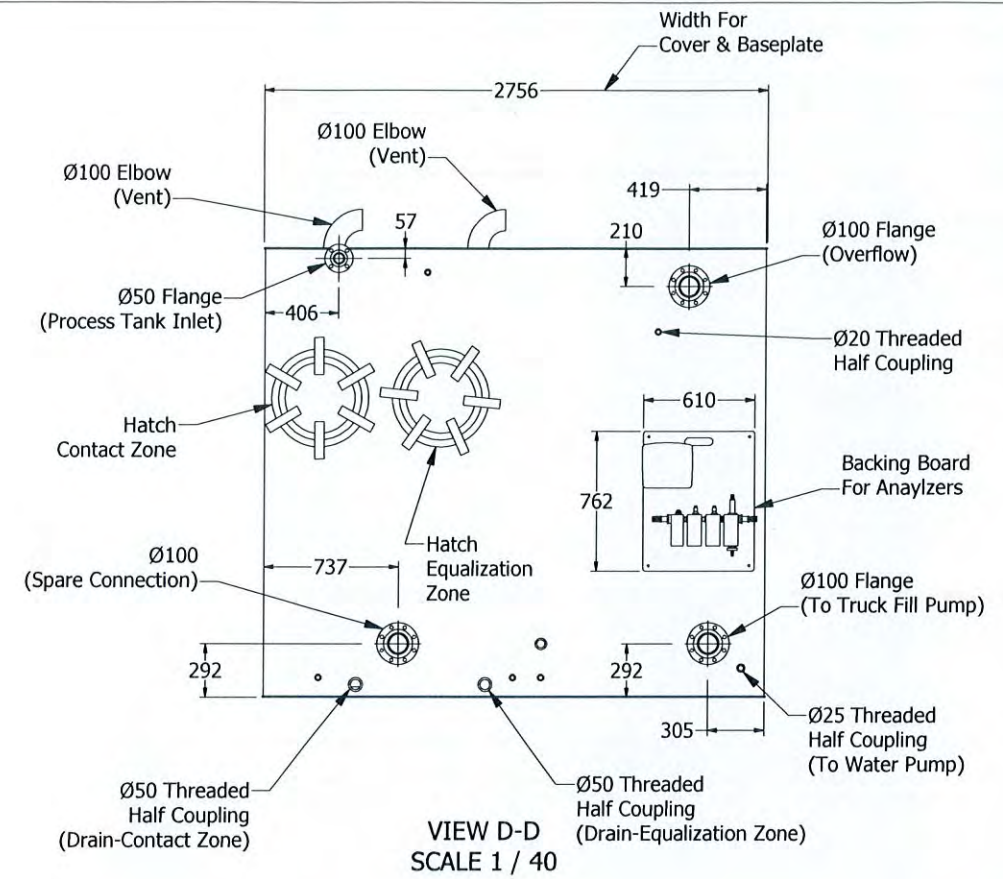
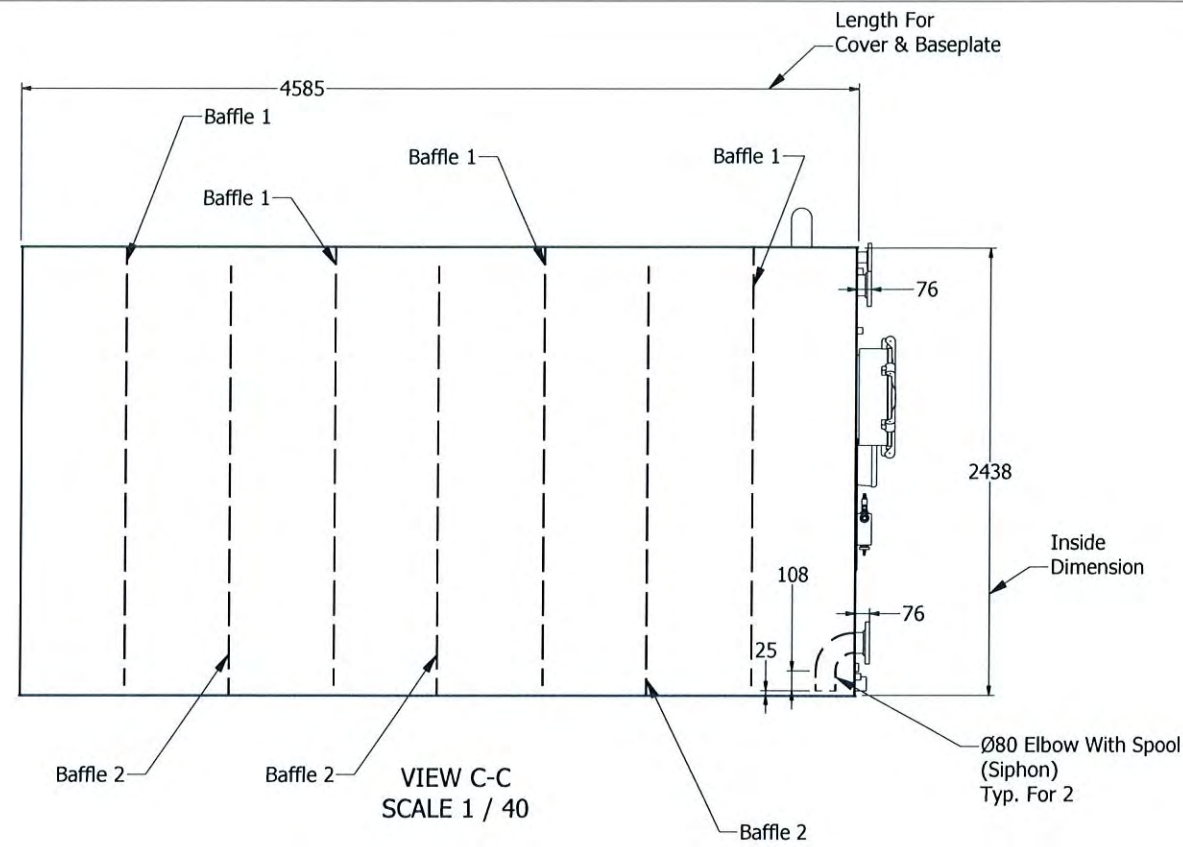
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DRAWN	RT
DESIGN	KB
CHECKED	KB
APPROVED	JY
DATE	DEC-08-2016
SCALE	NTS

GNWT3-PAULATUK WTP (REF #10338) AWC UF WTP CONTACT/EQUALIZATION TANK SHEET 1 OF 2	
DRAWING NO.	10338-P-01-01
REV	-



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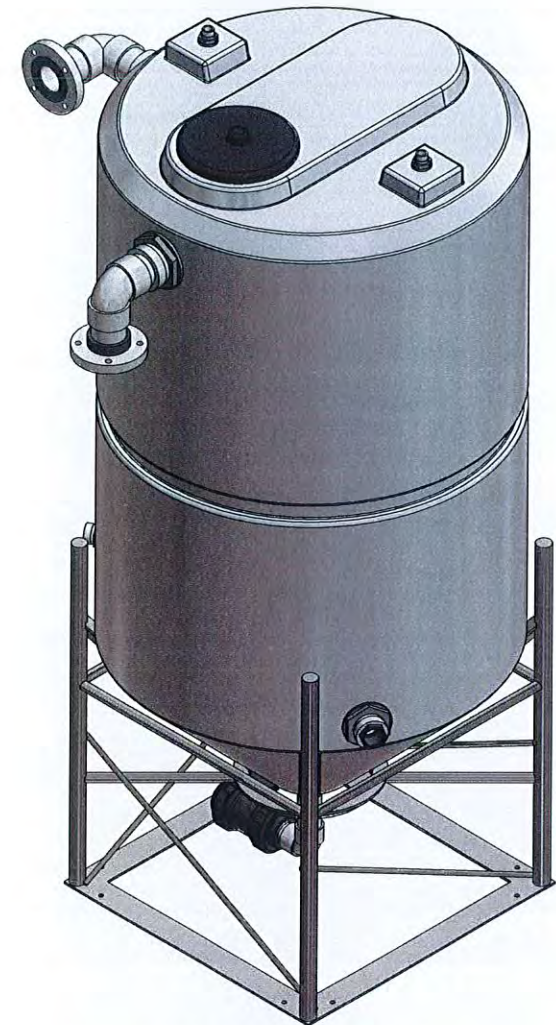
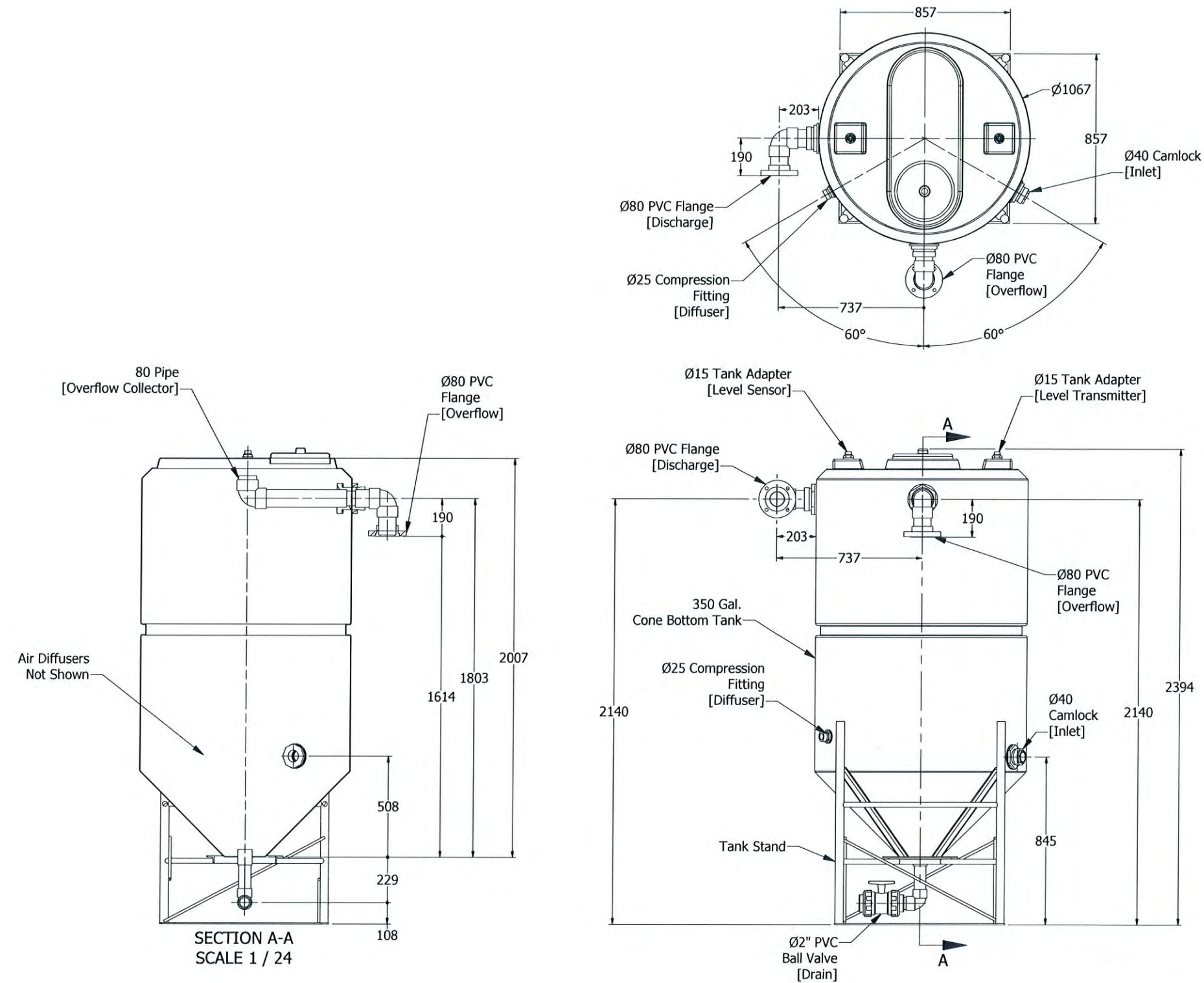
AWC WATER SOLUTIONS LTD.
#104-19074 22nd Avenue Surrey, BC Canada V3Z 3S6
Phone : 604-638-0760 Fax: 604-638-0795
www.awcwater.com

DRAWN	RT
DESIGN	KB
CHECKED	KB
APPROVED	JY
DATE	DEC-08-2016
SCALE	NTS

GNWT3-PAULATUK WTP
(REF #10338)
AWC UF WTP
CONTACT/EQUALIZATION TANK
SHEET 2 OF 2

DRAWING NO.	10338-P-01-01	REV	-
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REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
-	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
REVISIONS					



FLOCCULATION TANK
QTY : 1

PROFESSIONAL
PROVINCE OF
Dr. K. BISWAS
30939
REGISTERED PROFESSIONAL ENGINEER
S.S. YAP
LICENSÉE
NW 1001

Sept 14, 2018

REGISTERED PROFESSIONAL ENGINEER
S.S. YAP
LICENSÉE
NW 1001

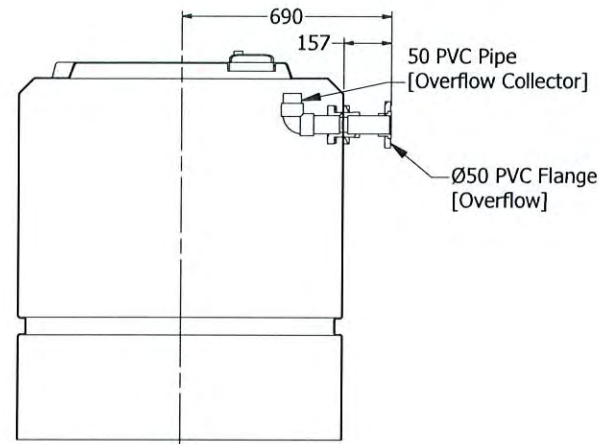
NOTES
All Piping & Fittings To Be Sch. 80 PVC Unless Noted Otherwise.
All Flanges To Be 150# PVC Unless Noted Otherwise.
Tank Material To Be Polyethylene Unless Noted Otherwise.

REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
A	TANK AND STAND CHANGED	RT	KB	JY	AUG-30-2018
-	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
REVISIONS					

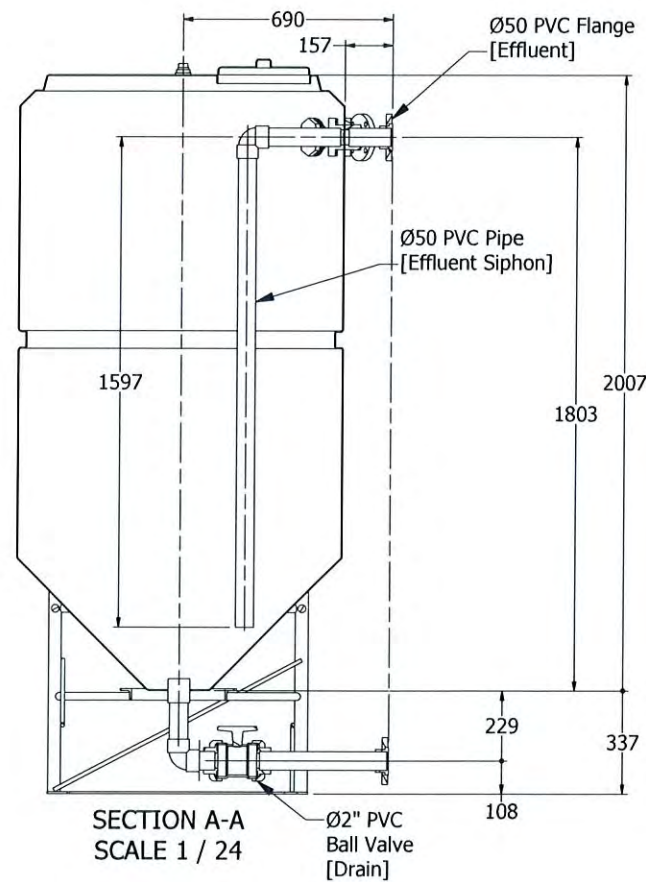
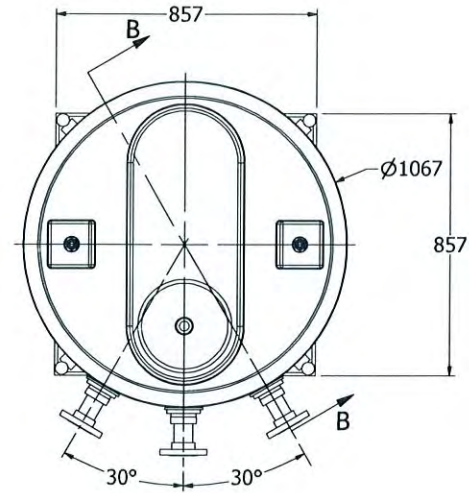
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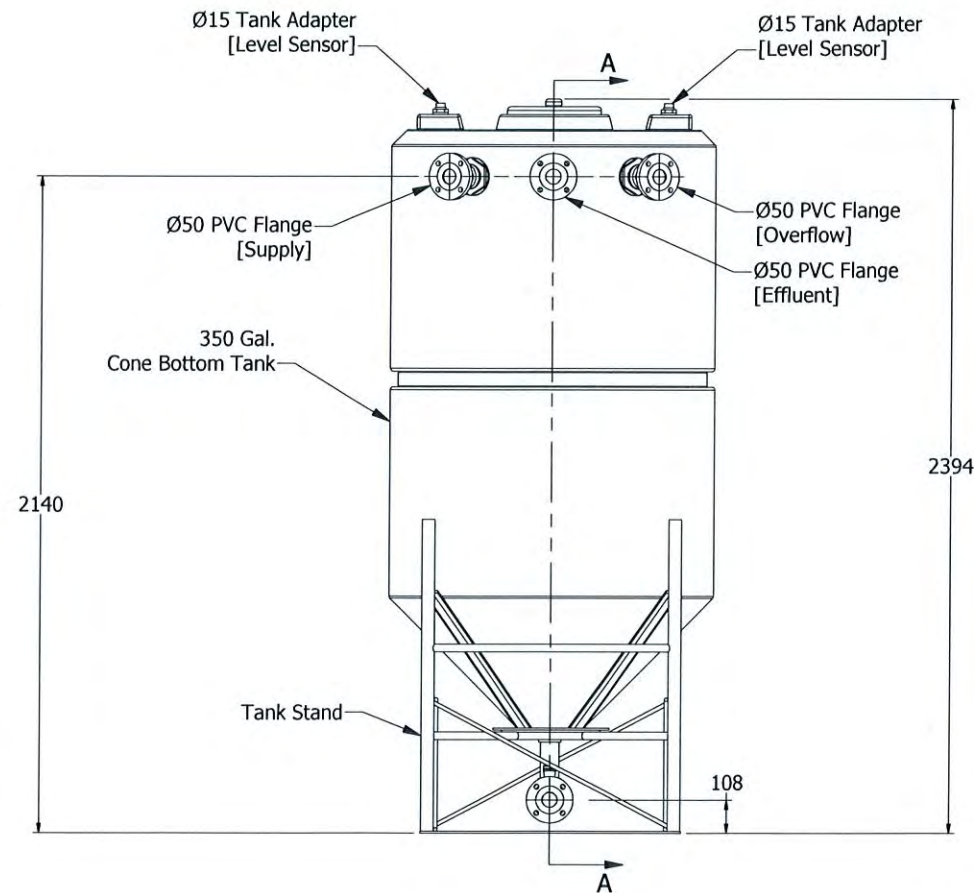
DRAWN	RT	GNWT3-PAULATUK WTP (REF #10338) AWC UF WTP FLOCCULATION TANK SHEET 1 OF 1
DESIGN	KB	
CHECKED	KB	
APPROVED	JY	
DATE	DEC-08-2016	
SCALE	NTS	DRAWING NO. 10338-P-01-02
		REV A



SECTION B-B
SCALE 1 / 24



SECTION A-A
SCALE 1 / 24



WASTE WATER HOLDING TANK
QTY : 1

PROFESSIONAL
OF
Dr. K. BISWAS
30939
BRITISH
COLUMBIA
REGISTERED
ENGINEER
Sept 14, 2018

REGISTERED PROFESSIONAL ENGINEER
S.S. YAP
LICENSEE
9/16/18
NWTND

NOTES

All Piping & Fittings To Be Sch. 80 PVC Unless Noted Otherwise.

All Flanges To Be 150# PVC Unless Noted Otherwise.

Tank Material To Be Polyethylene Unless Noted Otherwise.

REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
A	TANK AND STAND CHANGED	RT	KB	JY	AUG-30-2018
-	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
REVISIONS					

NOTE

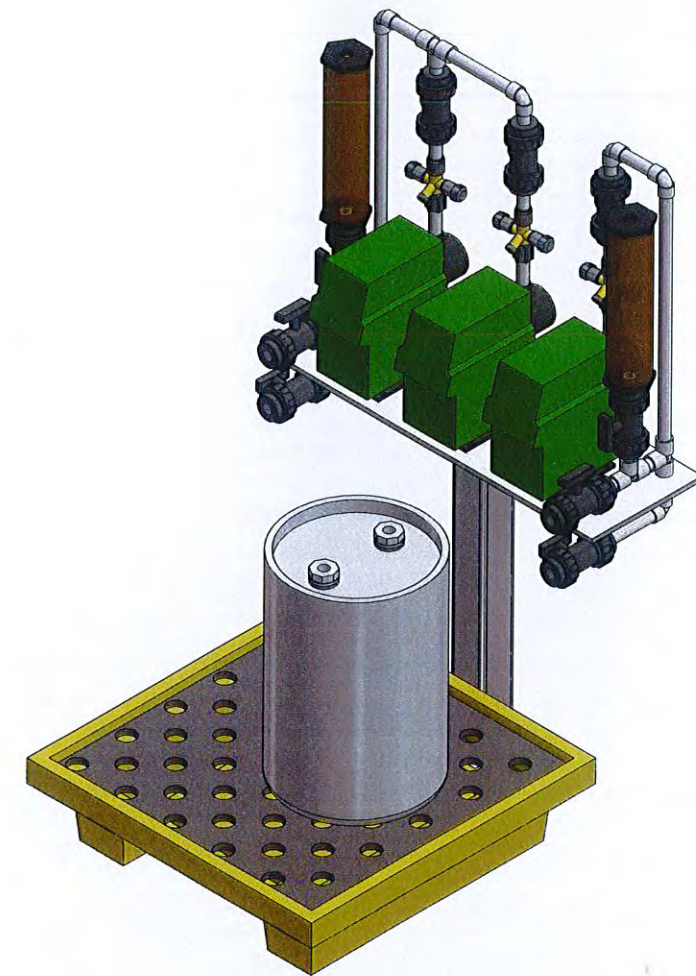
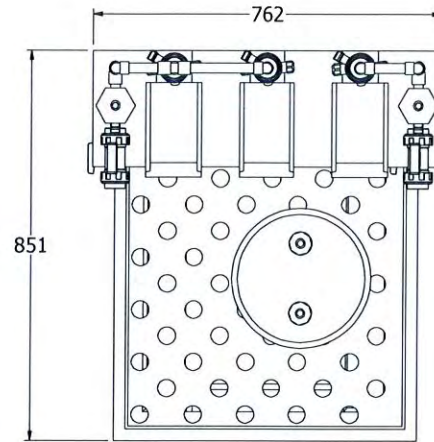
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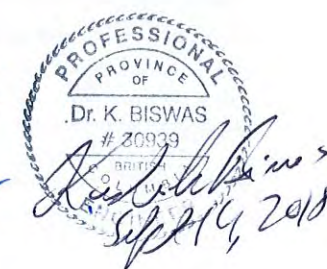
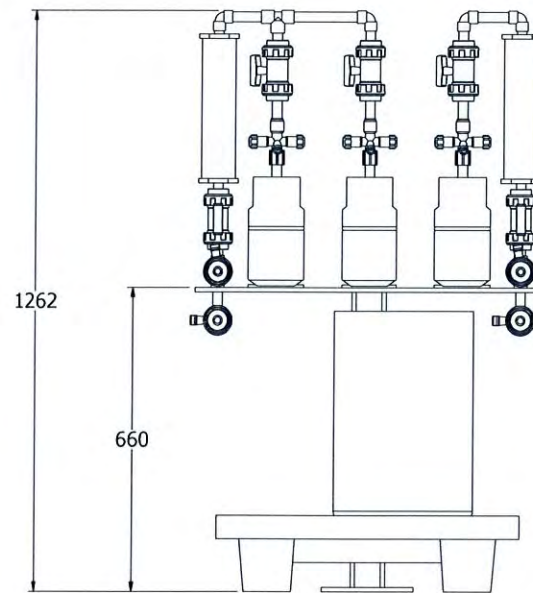
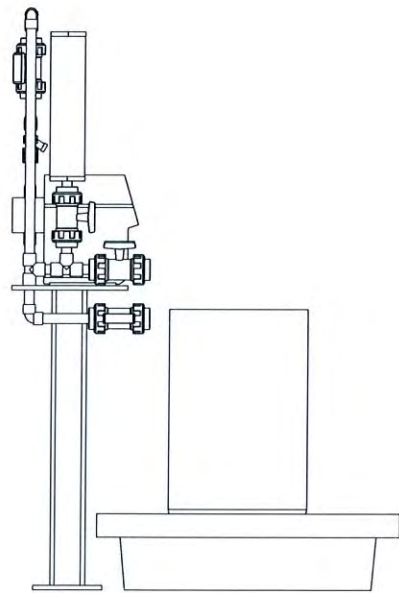
DRAWN	RT
DESIGN	KB
CHECKED	KB
APPROVED	JY
DATE	DEC-08-2016
SCALE	NTS

GNWT3-PAULATUK WTP
(REF #10338)
AWC UF WTP
WASTE WATER HOLDING TANK
SHEET 1 OF 1

DRAWING NO.	10338-P-01-03	REV	A
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SODIUM HYPOCHLORITE CHEMICAL SYSTEMS
QTY : 1



REV	DESCRIPTION	BY	CHK'D	APP'D	DATE
-	100% SUBMITTAL	RT	KB	JY	JUL-13-2018
REVISIONS					

NOTE

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DRAWN	RT	GNWT3-PAULATUK WTP (REF #10338) AWC UF WTP CHEMICAL DOSING SYSTEMS SHEET 1 OF 1	
DESIGN	KB		
CHECKED	KB		
APPROVED	JY		
DATE	JAN-29-2018		
SCALE	NTS	DRAWING NO. 10338-P-01-05	REV -