

DRAWINGS

FOR

INTUTECH
GRANULAR MEDIA FILTRATION MODULE F900
PROJECT 1611

FOR

INSTALLATION

RELEASE #7

MARCH 14, 2024

DRAWING TITLE	DRAWING NAME	REVISION NUMBERS BY RELEASE									
		1	2	3	4	5	6	7	8	9	10
PROCESS & INSTRUMENTATION DIAGRAM SYMBOL LEGEND	0000-X1RL-01	0	0	0	0						
DEVICE TAG LEGEND	0000-X1RL-02	0	0	0	0						
ELECTRICAL SYMBOL LEGEND	0000-X1RL-03	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - PROCESS & INSTRUMENTATION DIAGRAM	1611-X0PP-01	5	5	5	6						
GRANULAR MEDIA FILTRATION MODULE - PROCESS & INSTRUMENTATION DIAGRAM	1611-X0PP-02	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - FILTRATION MODULE MASTER - GENERAL	1611-X0ML-01	2	2	2	3						
GRANULAR MEDIA FILTRATION MODULE - FILTRATION MODULE MASTER - GENERAL	1611-X0ML-02	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - FILTRATION MODULE - SHIPPING GENERAL	1611-X0ML-03	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - SAMPLE PANEL - ASSEMBLY	1611-X1MF-10	3	3	3	3						
GRANULAR MEDIA FILTRATION MODULE - BACKWASH TANK ASSEMBLY - EXTERNAL	1611-X2MF-01	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - BACKWASH TANK ASSEMBLY - INTERNAL	1611-X2MF-02	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - 6 INCH FILTER COLUMN MASTER - ASSEMBLY	1611-X3MF-01	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - 6 INCH FILTER COLUMN LOWER - ASSEMBLY	1611-X3MF-02	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - 6 INCH FILTER COLUMN UPPER - ASSEMBLY	1611-X3MF-03	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - FILTRATION MODULE MASTER - PIPING GENERAL	1611-X4ML-01	2	2	2	3						
GRANULAR MEDIA FILTRATION MODULE - FILTER PIPING - FABRICATION 1 OF 2	1611-X4MF-01	1	1	1	2						
GRANULAR MEDIA FILTRATION MODULE - FILTER PIPING - FABRICATION 2 OF 2	1611-X4MF-02	1	1	1	2						
GRANULAR MEDIA FILTRATION MODULE - RAW WATER PIPING - FABRICATION	1611-X4MF-03	3	3	3	3						
GRANULAR MEDIA FILTRATION MODULE - EFFLUENT PIPING 1 - FABRICATION	1611-X4MF-04	2	2	2	2						
GRANULAR MEDIA FILTRATION MODULE - EFFLUENT PIPING 2 - FABRICATION	1611-X4MF-05	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - PRESSURE WASTE - FABRICATION	1611-X4MF-06	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - AIR SCOUR HEAT EXCHANGER - FABRICATION	1611-X4MF-07	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - AIR SCOUR PIPING - FABRICATION	1611-X4MF-08	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - BACKWASH TANK INLET - FABRICATION	1611-X4MF-09	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - BACKWASH SUCTION & TANK DRAIN - FABRICATION	1611-X4MF-10	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - BACKWASH DISCHARGE PUMP PIPING - FABRICATION	1611-X4MF-11	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - WASTE & DRAIN PIPING - FABRICATION	1611-X4MF-12	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - FILTER X100 SERIES - FABRICATION	1611-X4MF-13	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - FILTER X300 SERIES - FABRICATION	1611-X4MF-14	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - COLUMN WEIR - FABRICATION	1611-X4MF-15	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - DECK WITH COMPONENTS - ASSEMBLY	1611-X5MF-01	2	2	2	2						
GRANULAR MEDIA FILTRATION MODULE - FEED PUMP - ASSEMBLY	1611-X5MF-05	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - BACKWASH PUMP - ASSEMBLY	1611-X5MF-06	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - AIR SCOUR BLOWER - ASSEMBLY	1611-X5MF-08	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - CHEMICAL CONTAINMENT WITH TANKS - FABRICATION	1611-X5MF-13	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - INSTRUMENT PANEL - ASSEMBLY 1 OF 2	1611-X5MF-14	2	2	2	2						
GRANULAR MEDIA FILTRATION MODULE - INSTRUMENT PANEL - ASSEMBLY 2 OF 2	1611-X5MF-15	2	2	2	2						
GRANULAR MEDIA FILTRATION MODULE - TURBIDIMETER - ASSEMBLY	1611-X5MF-17	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - FESTO MANIFOLD - ASSEMBLY	1611-X5MF-18	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - ELECTRICAL PANEL ENCLOSURE - LAYOUT	1611-X1EL-01	2	2	2	2						
GRANULAR MEDIA FILTRATION MODULE - ELECTRICAL CONTROL PANEL - LAYOUT	1611-X1EL-02	1	3	3	3						
GRANULAR MEDIA FILTRATION MODULE - IO PANEL - LAYOUT	1611-X1EL-03	2	3	3	3						
GRANULAR MEDIA FILTRATION MODULE - CONTROL PANEL LAYOUT	1611-X1EL-04	1	3	3	3						
GRANULAR MEDIA FILTRATION MODULE - ASSEMBLY 2 - LAYOUT	1611-X1EL-05	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - ASSEMBLY 4 - LAYOUT	1611-X1EL-06	1	2	2	2						
GRANULAR MEDIA FILTRATION MODULE - ASSEMBLY 6 - LAYOUT	1611-X1EL-07	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - ASSEMBLY 8 - LAYOUT	1611-X1EL-08	0	2	2	2						
GRANULAR MEDIA FILTRATION MODULE - ASSEMBLY 9 - LAYOUT	1611-X1EL-09	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - ONE LINE DIAGRAM	1611-X0LD-01	0	1	2	2						
GRANULAR MEDIA FILTRATION MODULE - CONTROL PANEL - AC POWER WIRING 1 OF 6	1611-X1EP-01	2	2	2	2						
GRANULAR MEDIA FILTRATION MODULE - CONTROL PANEL - AC POWER WIRING 2 OF 6	1611-X1EP-02	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - CONTROL PANEL - AC POWER WIRING 3 OF 6	1611-X1EP-03	0	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - CONTROL PANEL - DC POWER WIRING 1 OF 6	1611-X1EP-04	1	1	2	2						
GRANULAR MEDIA FILTRATION MODULE - CONTROL PANEL - DC POWER WIRING 2 OF 6	1611-X1EP-05	1	1	1	1						
GRANULAR MEDIA FILTRATION MODULE - DISTRIBUTED IO WIRING 1 OF 6	1611-X1IO-01		0	0	0						
GRANULAR MEDIA FILTRATION MODULE - DISTRIBUTED IO WIRING 2 OF 6	1611-X1IO-02		0	0	0						
GRANULAR MEDIA FILTRATION MODULE - DISTRIBUTED IO WIRING 3 OF 6	1611-X1IO-03		0	0	0						
GRANULAR MEDIA FILTRATION MODULE - DISTRIBUTED IO WIRING 4 OF 6	1611-X1IO-04		0	0	0						
GRANULAR MEDIA FILTRATION MODULE - DISTRIBUTED IO WIRING 5 OF 6	1611-X1IO-05		0	0	0						
GRANULAR MEDIA FILTRATION MODULE - DISTRIBUTED IO WIRING 6 OF 6	1611-X1IO-06		0	0	0						
GRANULAR MEDIA FILTRATION MODULE - ANALOG OUTPUT WIRING 1 OF 2	1611-X1AO-01		0	0	0						
GRANULAR MEDIA FILTRATION MODULE - ANALOG OUTPUT WIRING 2 OF 2	1611-X1AO-02		0	0	0						
GRANULAR MEDIA FILTRATION MODULE - ANALOG INPUT WIRING	1611-X1AI-01		0	0	0						
GRANULAR MEDIA FILTRATION MODULE - CONTROL PANEL - NETWORK DIAGRAM	1611-X1ND-01	1	2	2	2						
GRANULAR MEDIA FILTRATION MODULE - ELECTRICAL DETAIL	1611-X1ED-01		0	0	0						
GRANULAR MEDIA FILTRATION MODULE - CONTROL PANEL - PNEUMATIC SCHEMATIC	1611-X1NS-01	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - CONTROL PANEL - PNEUMATIC SCHEMATIC	1611-X1NS-02	0	0	0	0						
GRANULAR MEDIA FILTRATION MODULE - CONTROL PANEL - ENCLOSURE TAGS	1611-X1TL-01		0	0	0						

REV	DATE	BY	DESCRIPTION
1			
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FRAC: ± 1/16 0.XX: ± 0.01
 ANGLES: ± 1° 0.XXX: ± 0.005

TITLE:		REVISION HISTORY	
CLIENT: INTUITECH	PROJECT: 1611		
DRAWN BY: DGW	DRAWN DATE: 07-12-19		
DRAWING NAME: 1611-X6RR-01.VSD	P.O.:		
SCALE: NONE	REVISION: 0		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DEVICE SYMBOLS				INSTRUMENTATION				PROCESS EQUIPMENT				PUMPS/BLOWERS				VALVES				CONTROL PHILOSOPHY			
FIELD-MOUNTED DEVICE PANEL-MOUNTED DEVICE DEVICE MOUNTED BEHIND PANEL PROGRAMMABLE OPERATOR INTERFACE (PANEL-MOUNTED) PROGRAMMABLE LOGIC CONTROLLER (MOUNTED BEHIND PANEL)				VARIABLE AREA FLOWMETER PADDLE WHEEL/ TURBINE FLOWMETER MAGNETIC FLOWMETER LAMINAR FLOWMETER VORTEX SHEDDING FLOWMETER THERMAL DISPERSION FLOWMETER ULTRASONIC LEVEL DEVICE OPTICAL DISTANCE TRANSMITTER FLOAT LEVEL DEVICE SIGHT LEVEL DEVICE GUIDED WAVE RADAR LEVEL DEVICE PRESSURE DEVICE CAPACITIVE LEVEL DEVICE				ELECTRIC MIXER HEAT EXCHANGER HEATER STATIC MIXER PIPE WEIR WITH AIR BREAK EDUCTOR FILTER / STRAINER COALESCING FILTER ORIFICE PLATE RUPTURE DISK PRESSURE GAUGE ISOLATOR PIPE REDUCER FLOW THROUGH CELL INSPECTION LIGHT				BLOWER CENTRIFUGAL PUMP DIAPHRAGM PUMP FLEXIBLE IMPELLER PUMP BI-DIRECTIONAL FLEXIBLE IMPELLER PUMP PERISTALTIC PUMP PROGRESSIVE CAVITY PUMP ROTARY LOBE PUMP GEAR PUMP COMPRESSOR				NEEDLE VALVE BUTTERFLY VALVE BALL VALVE CHECK VALVE GLOBE VALVE DIAPHRAGM VALVE GATE VALVE 3-WAY BALL VALVE 3-WAY GENERAL VALVE PLUG VALVE GENERAL VALVE AIR RELIEF VALVE VACUUM RELIEF VALVE PRESSURE / SAFETY RELIEF VALVE				SEQUENCER STEP DECISION OPERATOR INPUT PROCESS REFERENCE TO A DIFFERENT PAGE IF CONDITION IS TRUE CONTINUE			
MISCELLANEOUS																							
MINOR PROCESS LINE MAJOR PROCESS LINE ELECTRICAL SIGNAL WATER SURFACE MAJOR ARROW MINOR ARROW PROCESS VALUE POINT DRAIN WITH AIR BREAK PROCESS BOUNDARY CONDUIT SEAL-OFF																							
												CONTROL FUNCTIONS				ACTUATORS							
												PROPORTIONAL, INTEGRAL & DERIVATIVE FLOW PACING SUBTRACTION PULSE WIDTH MODULATION CALCULATION SELECTION SUMMATION MULTIPLEXER TRIM SET POINT LIMITING				PRESSURE REGULATING ACTUATOR AIR-TO-OPEN/ SPRING TO CLOSE ACTUATOR AIR-TO-OPEN/ AIR-TO-CLOSE ACTUATOR AIR-TO-CLOSE/ SPRING-TO-OPEN ACTUATOR ELECTRIC ACTUATOR SOLENOID ACTUATOR HAND ACTUATOR LEVEL ACTUATOR							

REV	DATE	BY	DESCRIPTION
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FRAC: ± 1/16 0.XX: ± 0.01
 ANGLES: ± 1° 0.XXX: ± 0.005

TITLE: PROCESS & INSTRUMENTATION DIAGRAM SYMBOL LEGEND			
CLIENT:		PROJECT:	
DRAWN BY:		DRAWN DATE:	
DRAWING NAME: 0000-XXRL-01.VSD		P.O.:	
SCALE: NONE		REVISION:	

INPUT DEVICE TAG PREFIXES						
PARAMETER	ELEMENT / SENSOR	INDICATOR	TRANSMITTER		SWITCH	
			BLIND	INDICATING	HIGH	LOW
AMMONIUM	AME	AMI	AMT	AMIT	AMSH	AMSL
ANALYTICAL (UNSPECIFIED)	AE	AI	AT	AIT	ASH	ASL
CHLORINE	CHE	CHI	CHT	CHIT	CHSH	CHSL
CONDUCTIVITY	CE	CI	CT	CIT	CSH	CSL
CURRENT	CUE	CUI	CUT	CUIT	CUSH	CUSL
DISSOLVED OXYGEN	DOE	DOI	DOT	DOIT	DOSH	DOSL
FLOW RATE	FE	FI	FT	FIT	FSH	FSL
FLOW TOTALIZER	FQE	FQI	FQT	FQIT	FQSH	FQSL
HARDNESS	HE	HI	HT	HT	HSH	HSL
HYDROGEN SULFIDE	HSE	HSI	HST	HSIT	HSSH	HSSL
LEVEL	LE	LI	LT	LIT	LSH	LSL
NITROGEN	NE	NI	NT	NIT	NSH	NSL
ORP	ORE	ORI	ORT	ORIT	ORSH	ORSL
OXYGEN	OXE	OXI	OXT	OXIT	OXSH	OXSL
OZONE	OZE	OZI	OZT	OZIT	OZSH	OZSL
PARTICLE	PCE	PCI	PCT	PCIT	PCSH	PCSL
PH	PHE	PHI	PHT	PHIT	PHSH	PHSL
POSITION	ZE	ZI	ZT	ZIT	ZSH	ZSL
POWER	PWE	PWI	PWT	PWIT	PWSH	PWSL
POWER TOTALIZER	PWQE	PWQI	PWQT	PWQIT	PWQSH	PWQSL
PRESSURE	PE	PI	PT	PIT	PSH	PSL
PRESSURE DIFFERENTIAL	PDE	PDI	PDT	PDIT	PDSH	PDSL
RESISTIVITY	RE	RI	RT	RIT	RSH	RSL
RELATIVE HUMIDITY	RHE	RHI	RHT	RHIT	RHSH	RHSL
SPEED	SE	SI	ST	SIT	SSH	SSL
STREAMING CURRENT	SCE	SCI	SCT	SCIT	SCSH	SCSL
SUSPENDED SOLIDS	SSE	SSI	SST	SSIT	SSSH	SSSL
TEMPERATURE	TE	TI	TT	TIT	TSH	TSL
TIME TOTALIZER	TQE	TQI	TQT	TQIT	TQSH	TQSL
TOTAL ORGANIC CARBON	TCE	TCI	TCT	TCIT	TCSH	TCSL
TURBIDITY	TUE	TUI	TUT	TUIT	TUSH	TUSL
UV ABSORPTION OR TRANSMITTANCE	UVE	UVI	UVT	UVIT	UVSH	UVSL
VOLTAGE	VE	VI	VT	VIT	VSH	VSL
WEIGHT / FORCE	WE	WI	WT	WIT	WSH	WSL

ALARM DEVICE TAG PREFIXES		
PARAMETER	HIGH	LOW
AMMONIUM	AMAH	AMAL
ANALYTICAL (UNSPECIFIED)	AAH	AAL
CHLORINE	CAH	CHAL
CONDUCTIVITY	CAH	CAL
CURRENT	CUAH	CUAL
DISSOLVED OXYGEN	DOAH	DOAL
FLOW RATE	FAH	FAL
FLOW TOTALIZER	FQAH	FQAL
HARDNESS	HAH	HAL
HYDROGEN SULFIDE	HSAH	HSAL
LEVEL	LAH	LAL
NITROGEN	NAH	NAL
OXYGEN	OXAH	OXAL
OZONE	OZAH	OZAL
PARTICLE	CAH	PCAL
PH	PAH	PHAL
POWER	PWAH	PWAL
POWER TOTALIZER	PWQAH	PWQAL
PRESSURE	PAH	PAL
PRESSURE DIFFERENTIAL	PDH	PDAL
RESISTIVITY	RAH	RAL
RELATIVE HUMIDITY	RHAH	RHAL
SPEED	SAH	SAL
STREAMING CURRENT	SCAH	SCAL
SUSPENDED SOLIDS	SSAH	SSAL
TEMPERATURE	TAH	TAL
TIME TOTALIZER	TQAH	TQAL
TOTAL ORGANIC CARBON	TCAH	TCAL
TURBIDITY	TUAH	TUAL
UV ABSORPTION	UVAH	UVAL
VOLTAGE	VAH	VAL
WEIGHT / FORCE	WAH	WAL

OUTPUT DEVICE TAG PREFIXES	
DESCRIPTION	TAG
CHECK VALVE	CV
DISCRETE VALVE (OPEN/CLOSED)	DV
INJECTION VALVE	IV
PILOT VALVE	YV
PRESSURE REGULATOR	PR
PROPORTIONAL VALVE (MODULATING)	PV
RELIEF VALVE	RV
SAMPLE VALVE	SV

CONTROL DEVICE TAG PREFIXES	
DESCRIPTION	TAG
FLOW CONTROLLER	FC
FLOW INDICATING CONTROLLER	FIC
PRESSURE CONTROLLER	PC
PRESSURE INDICATING CONTROLLER	PIC
SPEED CONTROLLER	SC
SPEED INDICATING CONTROLLER (VFD)	SIC
TEMPERATURE CONTROLLER	TC
TEMPERATURE INDICATING CONTROLLER	TIC

REV	DATE	BY	DESCRIPTION
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 FRAC: ± 1/16 0.XX: ± 0.01
 ANGLES: ± 1° 0.XXX: ± 0.005

TITLE: DEVICE TAG LEGEND	
CLIENT:	PROJECT:
DRAWN BY:	DRAWN DATE:
DRAWING NAME: 0000-XXRL-02.VSD	P.O.:
SCALE: NONE	REVISION: 0

ELECTRICAL

	WIRING PROVIDED BY OTHERS		RESISTOR
	INTERNAL WIRING OR COMPONENTS		VARISTOR
	NON-WIRE JUMPERS		CAPACITOR
	STRANDED COPPER WIRE		HAND-OFF-AUTO SWITCH
	TWISTED PAIR CABLE WITH SHIELD & DRAIN		TWO POSITION SWITCH
	MOLDED CABLE, M12, 4PIN, 22AWG		FLOW SWITCH
	SPECIAL CABLE		LIQUID LEVEL SWITCH
	INTEGRAL CABLE		TEMPERATURE SWITCH
	CAT5E CABLE		NORMALLY OPEN PUSH-BUTTON
	PANEL PANEL BOUNDARY		NORMALLY CLOSED PUSH-BUTTON
	DEVICE AND COMPONENT BOUNDARIES		LINE REACTOR
	VARIABLE FREQUENCY DRIVE		SIGNAL POLE SWITCH
	SEAL-OFF CONNECTOR		PRESSURE SWITCH
	SURGE PROTECTION DEVICE		
	NON-INDUCTIVE LOAD		
	MOTOR		
	TRANSFORMER		
	SHIELD		
	PLUG CONNECTOR		
	INLINE CONNECTOR (SPLICE, WIRE NUT, ETC)		
	GROUND		
	TERMINAL		
	COIL		
	LIGHT WITH COLOR		
	CIRCUIT BREAKER		
	FUSE		
	NORMALLY OPEN CONTACT		
	NORMALLY CLOSED CONTACT		
	OVERLOAD RELAY		

REV	DATE	BY	DESCRIPTION
1			
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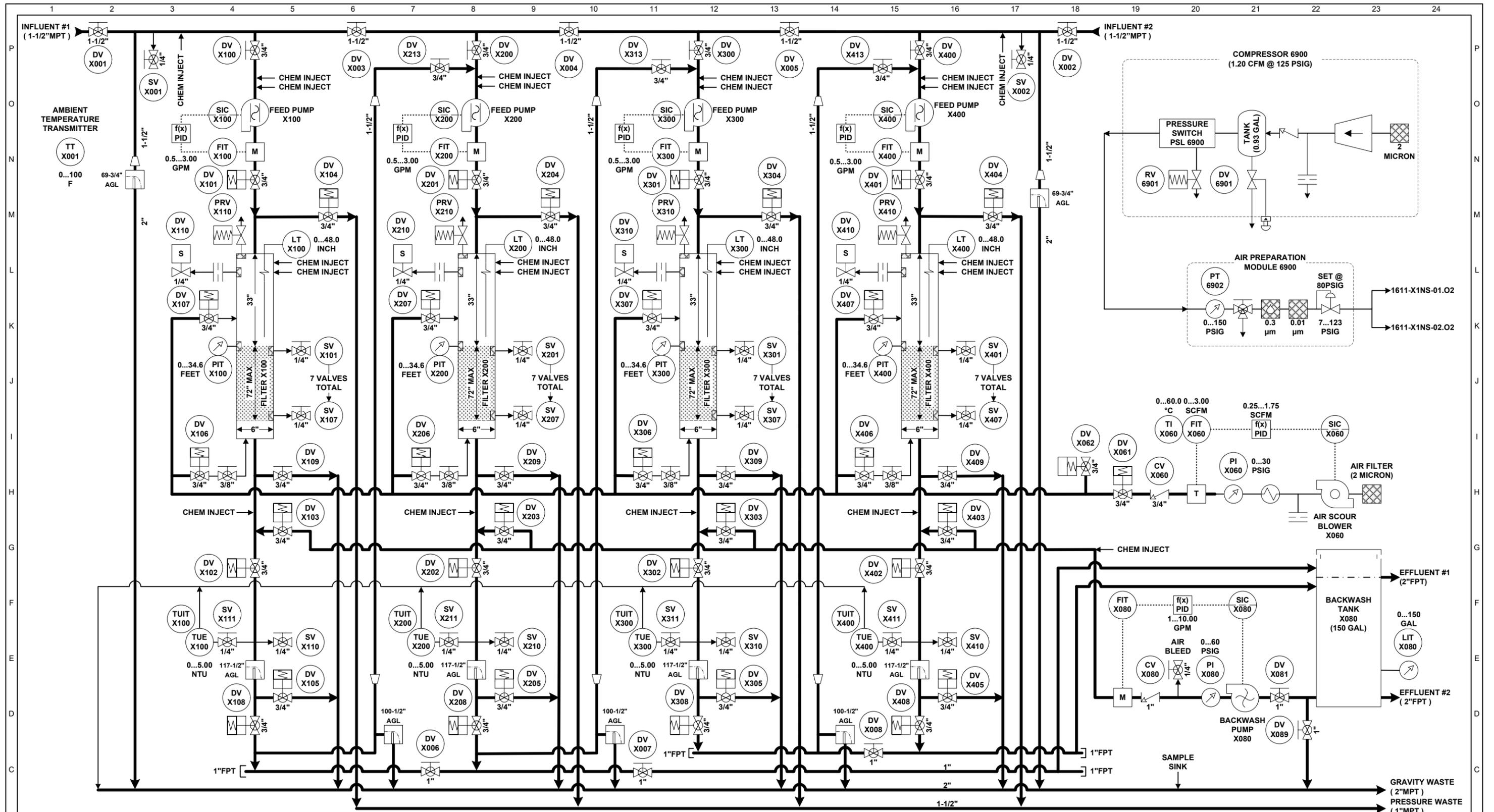

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FRAC: ± 1/16 0.XX: ± 0.01
 ANGLES: ± 1° 0.XXX: ± 0.005

TITLE: ELECTRICAL SYMBOL LEGEND	
CLIENT:	PROJECT:
DRAWN BY:	DRAWN DATE:
DRAWING NAME: 0000-XXRL-03.VSD	P.O.:
SCALE: NONE	REVISION: 0



REV	DATE	BY	DESCRIPTION
7	01-04-21	BNL	REMOVED PH PROBE, ADJUSTED TURB RANGE, ADDED DV-X902
8	02-22-23	MCF	CHANGED DV-X310 HAND VALVE TO DV-X009
9	06-27-23	HHB	MODIFIED SERIES PIPING BETWEEN COLUMNS 2 & 3
10	03-14-24	MCF	UPDATED THE COMPRESSOR


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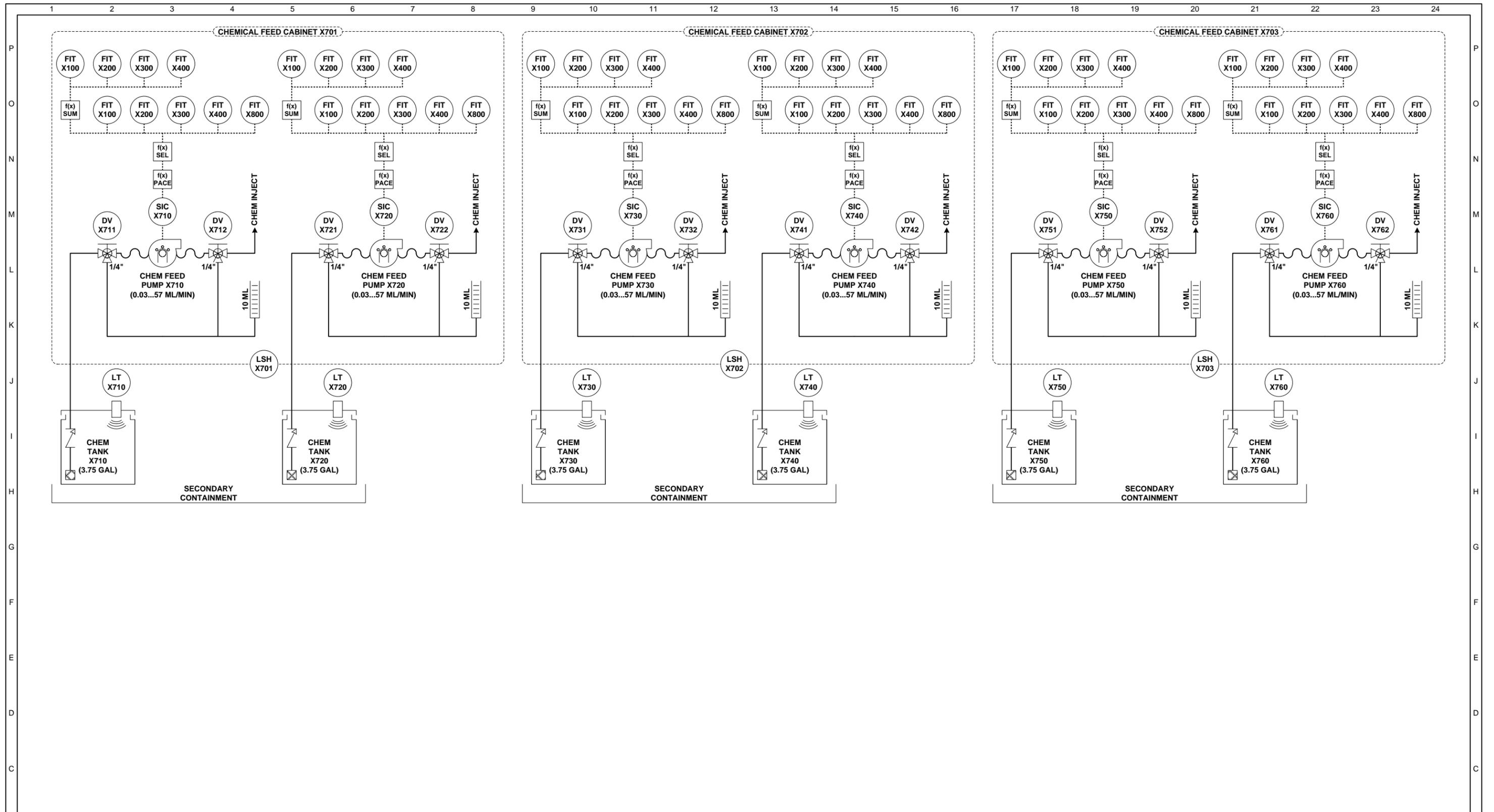
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FRAC: ± 1/16 0.XX: ± 0.01

ANGLES: ± 1° 0.XXX: ± 0.005

TITLE: GRANULAR MEDIA FILTRATION MODULE	
PROCESS & INSTRUMENTATION DIAGRAM – PROCESS	
CLIENT: INTUITECH	PROJECT: 1611
DRAWN BY: CLR	DRAWN DATE: 02-26-18
DRAWING NAME: 1611-X0PP-01.VSD	P.O.:
SCALE: NONE	REVISION: 10



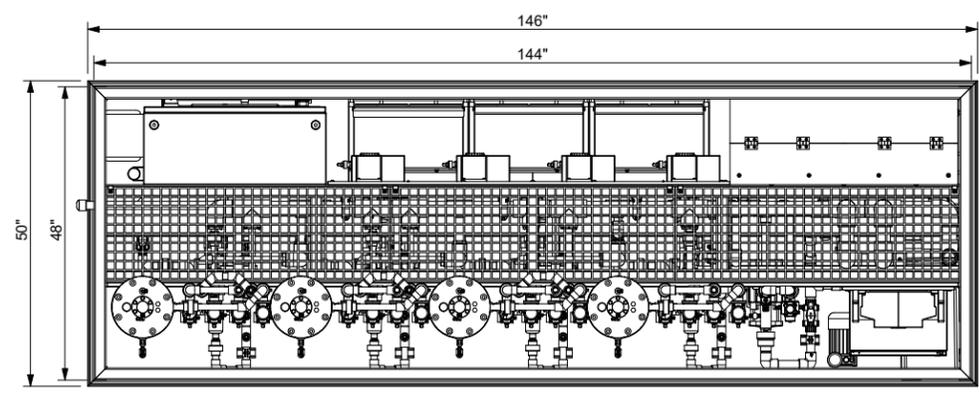
REV	DATE	BY	DESCRIPTION
1	08-29-18	AJB	ADDED CHEMICAL CABINET X703 WITH ASSOCIATED CHEMICAL PUMPS AND TANKS
2	01-04-20	BNL	ADDED CHECK VALVE TO CHEM TANKS
3			
4			


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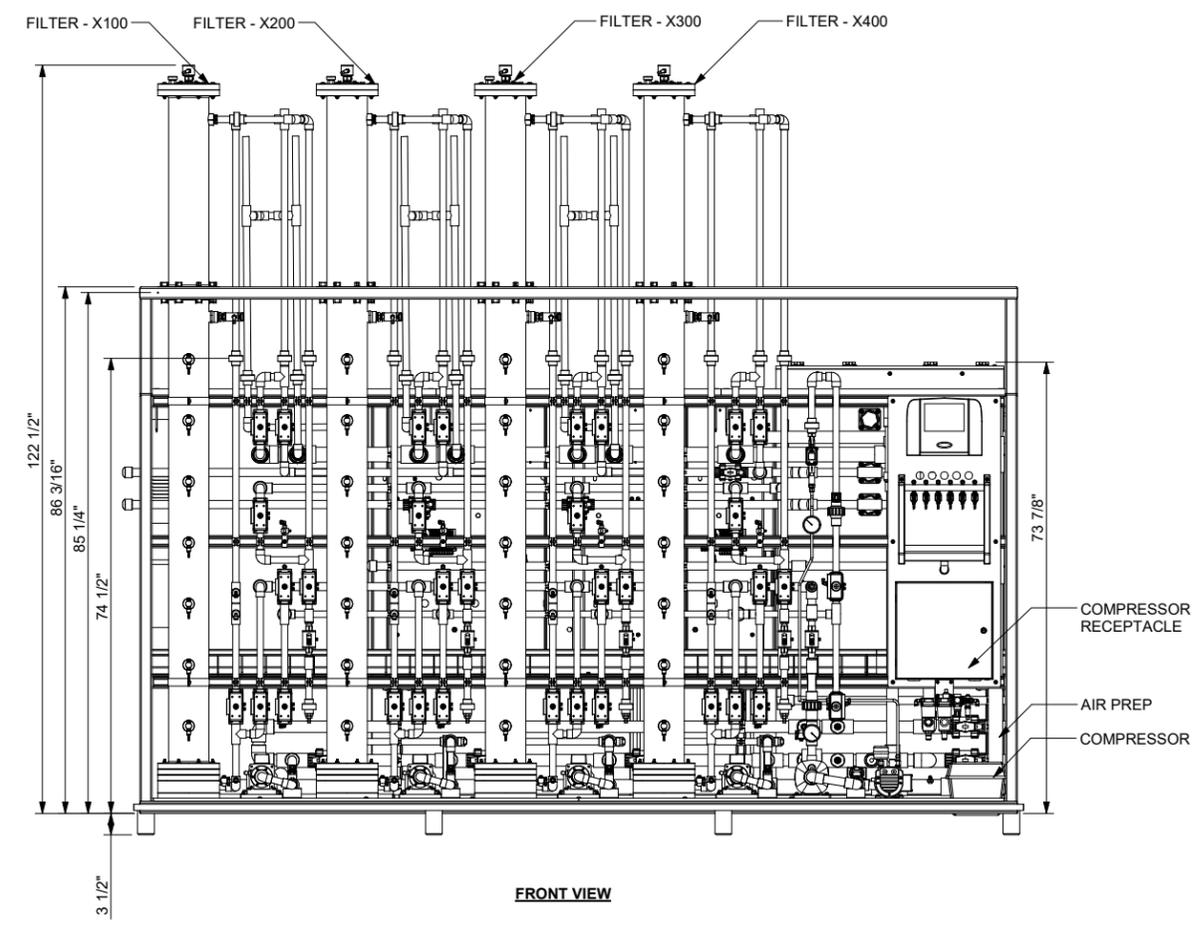
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 FRAC: ± 1/16 0.XX: ± 0.01
 ANGLES: ± 1° 0.XXX: ± 0.005

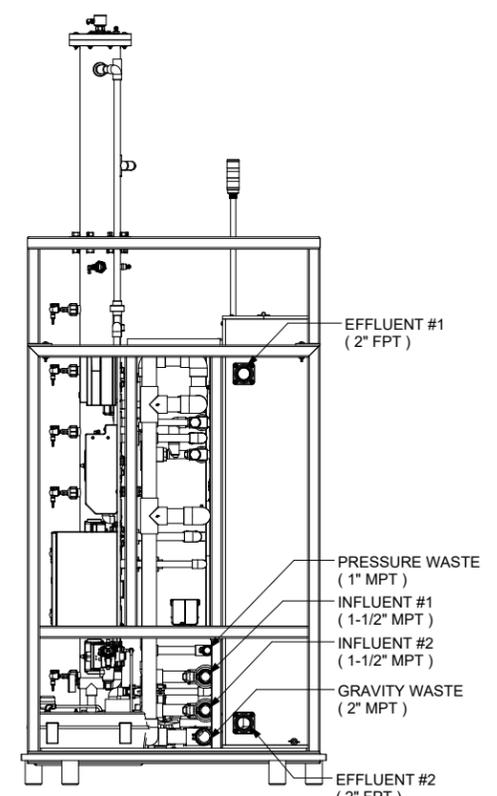
TITLE: GRANULAR MEDIA FILTRATION MODULE	
PROCESS & INSTRUMENTATION DIAGRAM - CHEMICAL	
CLIENT: INTUITECH	PROJECT: 1611
DRAWN BY: CLR	DRAWN DATE: 02-26-18
DRAWING NAME: 1611-X0PP-02.VSD	P.O.:
SCALE: NONE	REVISION: 2



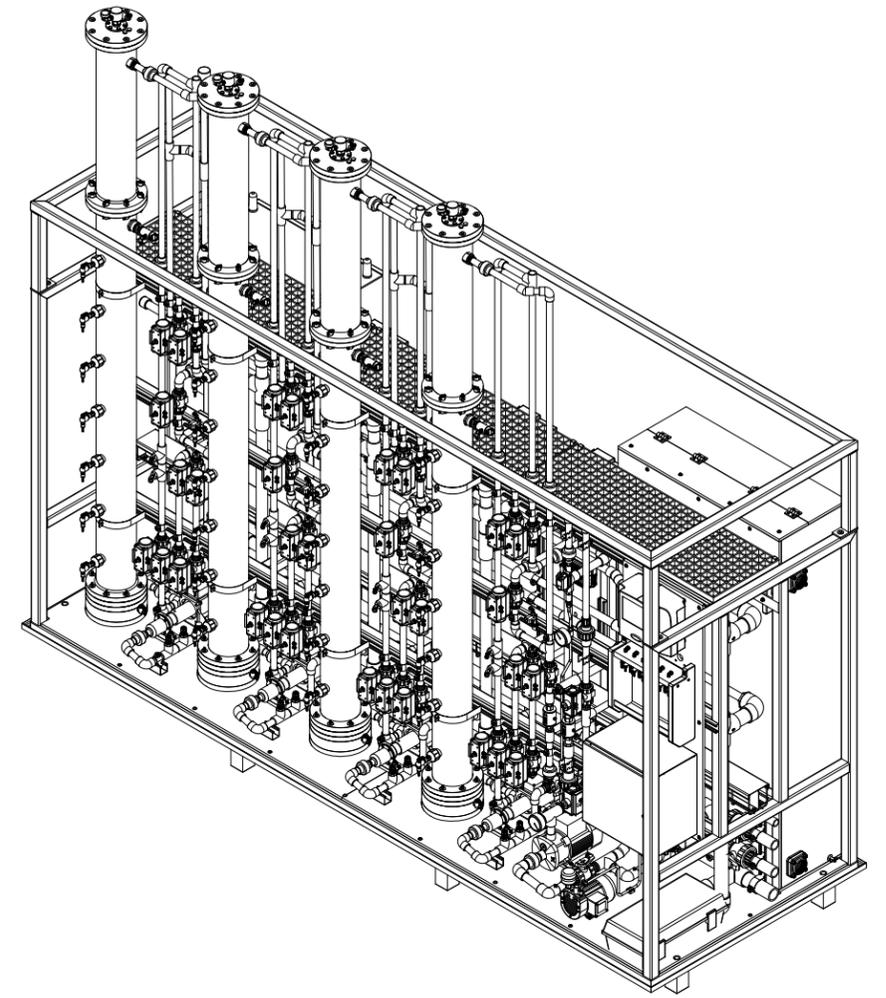
TOP VIEW



FRONT VIEW



RIGHT VIEW



- NOTES:**
1. UNITS: INCHES
 2. ESTIMATED DRY WEIGHT: 2800 LBS.
 3. ESTIMATED WET WEIGHT: 4700 LBS.

REV	DATE	BY	CHECKED	DESCRIPTION
1	07-09-18	CLR		UPDATE PROCESS CONNECTION CALLOUTS
2	08-31-18	CLR		UPDATE DRAWING TO SHOW ALL MECHANICAL MODIFICATIONS, ADD PH PROBE
3	05-22-20	CLR		UPDATE DRAWING TO SHOW ALL MECHANICAL MODIFICATIONS, ADD CHEM INJECT FOR FILTER PIPING
4	06-27-23	HHB		UPDATED FOR SERIES PIPING MODIFICATIONS

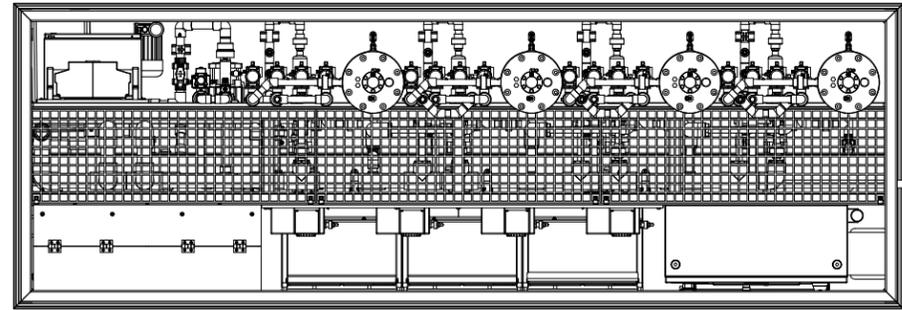

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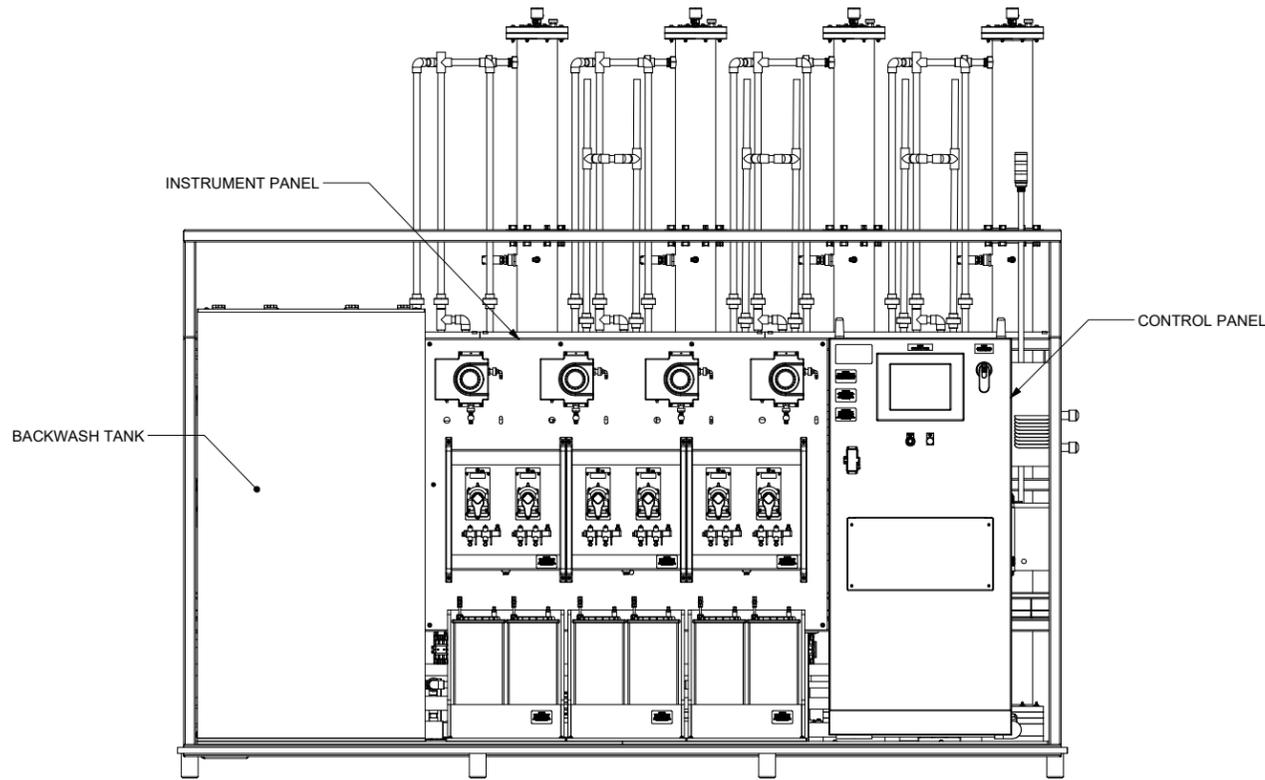
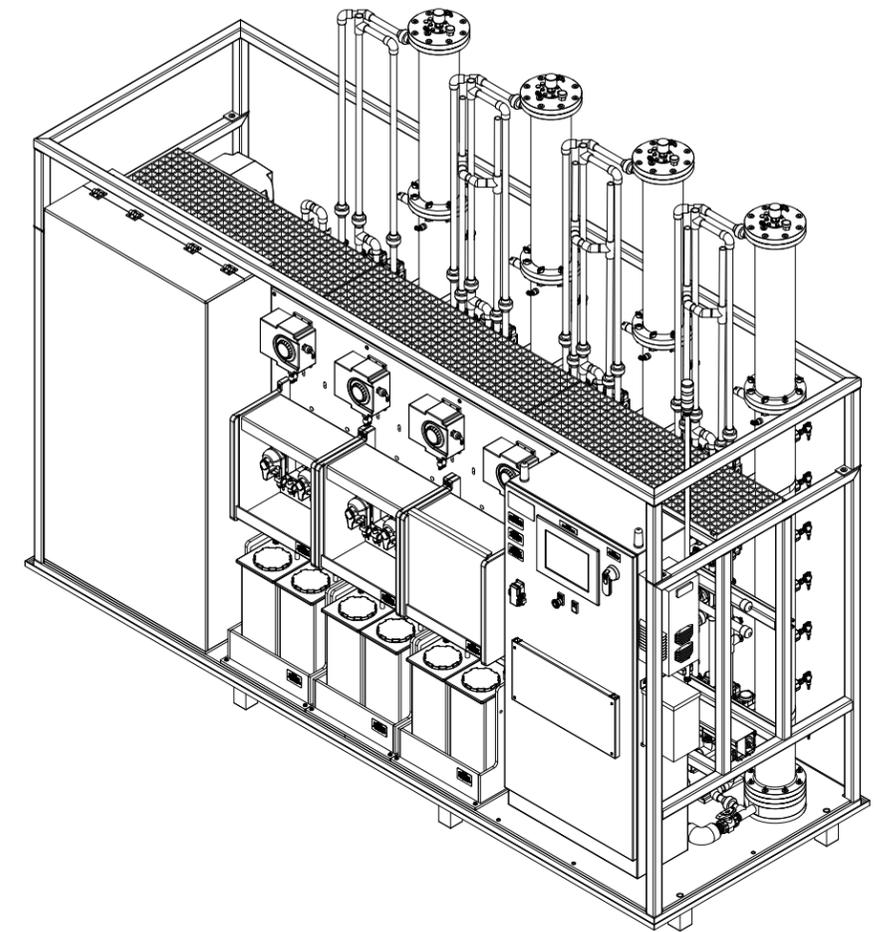
DIMENSIONAL TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED

FRAC: ±1/16 0.XX: ±0.01
 ANGLES: ±1° 0.XXX: ±0.005

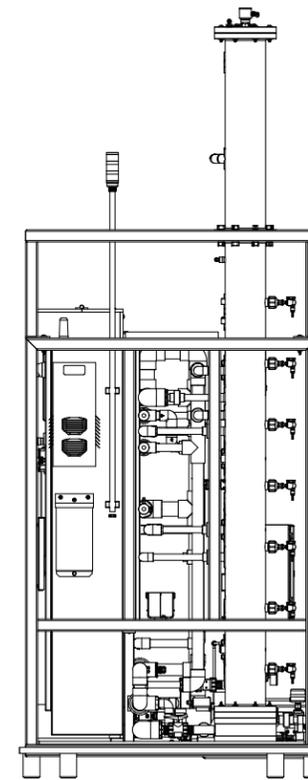
TITLE: GRANULAR MEDIA FILTRATION MODULE FILTRATION MODULE - GENERAL ARRANGEMENT	
CLIENT: INTUITECH	PROJECT: 1611
DRAWN BY: CLR	DRAWN DATE: 7/15/2019
DRAWING NAME: 1611-X0ML-01	P.O.:
SCALE: NONE	REVISION: 4



TOP VIEW



BACK VIEW



RIGHT VIEW

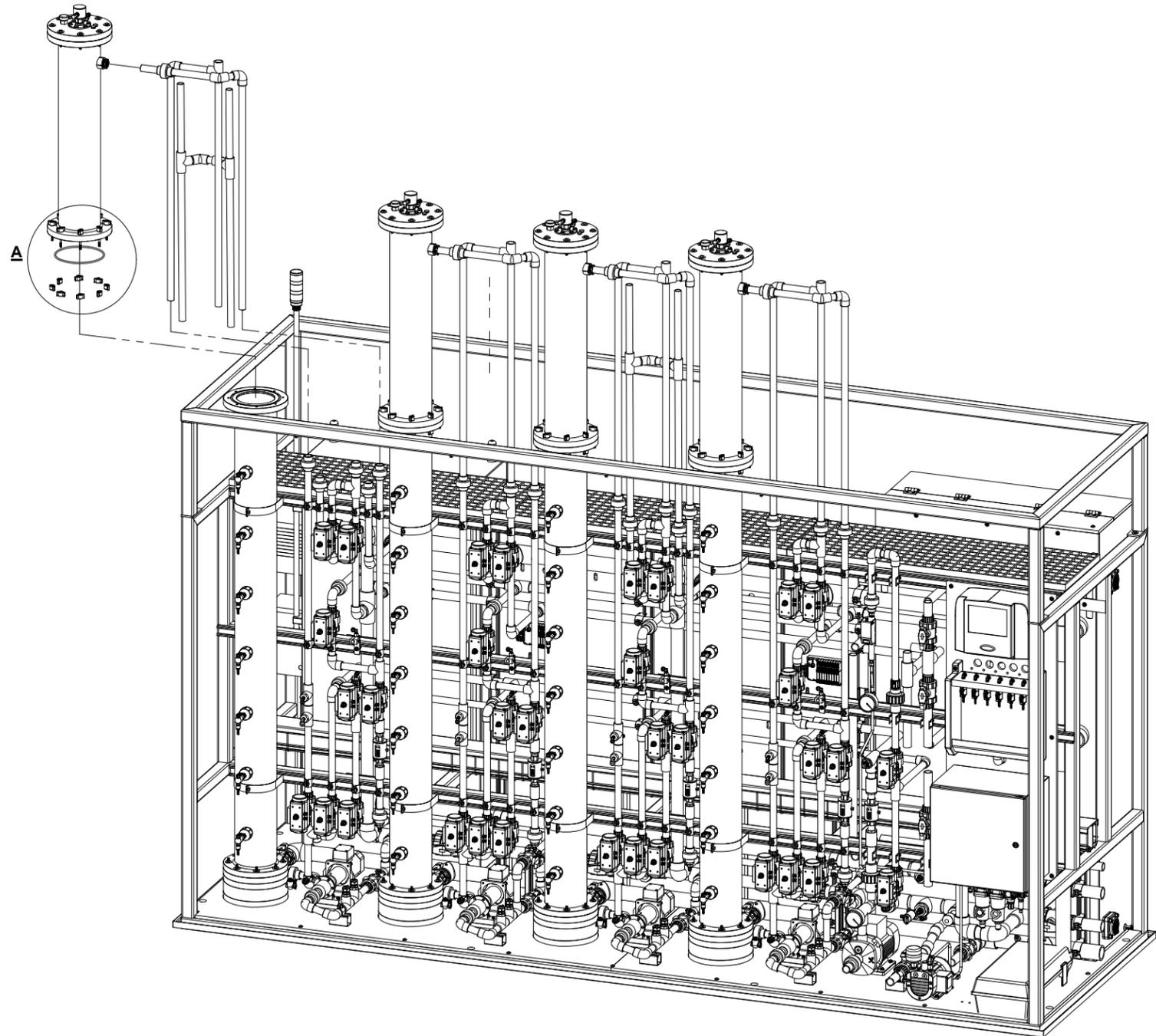
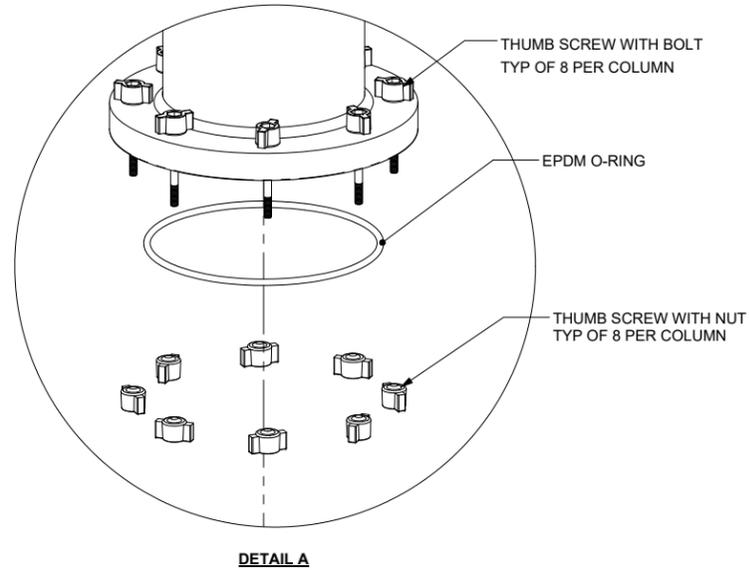
REV	DATE	BY	CHECKED	DESCRIPTION
1	08-31-18	CLR		UPDATE DRAWING TO SHOW ALL MECHANICAL MODIFICATIONS, ADD ADDITIONAL CHEMICAL CABINET AND ASSOCIATED COMPONENTS
2	06-27-23	HHB		UPDATED FOR SERIES PIPING MODIFICATIONS
3				
4				


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DIMENSIONAL TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED	
FRAC: ±1/16	0.XX: ±0.01
ANGLES: ±1°	0.XXX: ±0.005

TITLE: GRANULAR MEDIA FILTRATION MODULE	
FILTRATION MODULE - GENERAL ARRANGEMENT	
CLIENT: INTUITECH	PROJECT: 1611
DRAWN BY: CLR	DRAWN DATE: 7/15/2019
DRAWING NAME: 1611-X0ML-02	P.O.:
SCALE: NONE	REVISION: 2

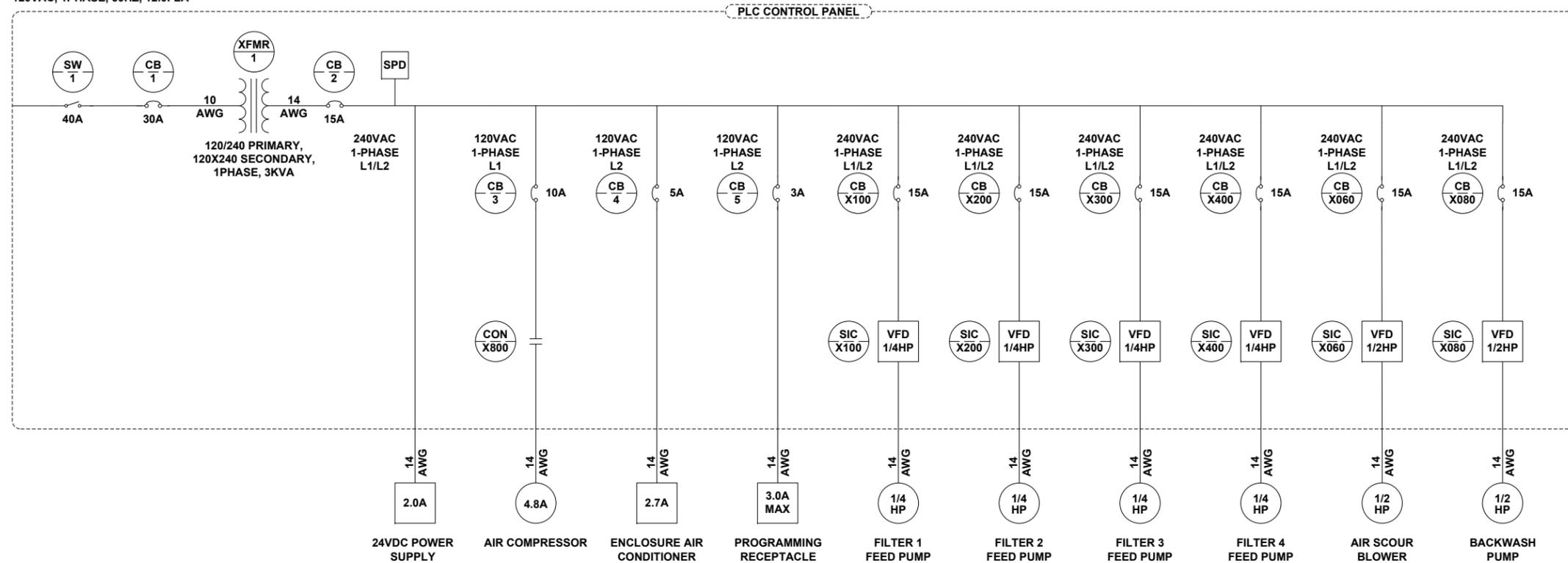


- NOTES:**
- DO NOT DISASSEMBLE UNDERDRAINS FOR MEDIA REMOVAL.
 - LOAD MEDIA THROUGH TOP FLANGE OF LOWER SECTION.

REV	DATE	BY	CHECKED	DESCRIPTION
1				
2				
3				
4				

DIMENSIONAL TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED FRAC: ±1/16 0.XX: ±0.01 ANGLES: ±1° 0.XXX: ±0.005		TITLE: GRANULAR MEDIA FILTRATION MODULE FILTRATION MODULE - SHIPPING GENERAL ARRANGEMENT	
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		DRAWN BY: CLR	DRAWN DATE: 7/15/2019
		DRAWING NAME: 1611-X0ML-03	P.O.:
		SCALE: NONE	REVISION: 0

SUPPLY VOLTAGE:
 240VAC, 1PHASE, 60HZ, 6.0FLA
 120VAC, 1PHASE, 60HZ, 12.0FLA



REV	DATE	BY	DESCRIPTION
1	09-27-18	CLR	UPDATE FLA BASED ON ACTUAL MEASUREMENT
2	07-1-19	BNL	REPLACED RELAY WITH CONTACTOR
3			
4			



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DIMENSIONAL TOLERANCES ARE AS FOLLOWS, UNLESS OTHERWISE SPECIFIED

FRAC: ± 1/16 0.XX: ± 0.01

ANGLES: ± 1° 0.XXX: ± 0.005

TITLE: GRANULAR MEDIA FILTRATION MODULE ONE LINE DIAGRAM	
CLIENT: INTUITECH	PROJECT: 1611
DRAWN BY: REM	DRAWN DATE: 06-22-18
DRAWING NAME: 1611-X0LD-01	P.O.:
SCALE: NONE	REVISION: 2