

DRAWINGS

FOR

**INTUITECH**  
**GRANULAR MEDIA FILTRATION MODULE F1700**  
**PROJECT 1791**

FOR

**INSTALLATION**

RELEASE #1

JANUARY 3, 2024

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

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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  |
| TOTAL CHLORINE                 | TCHE             | TCHI      | TCHT        | TCHIT      | TCHSH  | TCHSL |
| 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          | HIT        | HSH    | HSL   |
| HYDROGEN SULFIDE               | HSE              | HSI       | HST         | HSIT       | HSSH   | HSSL  |
| LEVEL                          | LE               | LI        | LT          | LIT        | LSH    | LSL   |
| LOWER EXPLOSION LIMIT          | LELE             | LELI      | LELT        | LELIT      | LELH   | LELL  |
| 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                  | CHAH  | CHAL  |
| TOTAL CHLORINE            | TCHAH | TCHAL |
| 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   |
| LOWER EXPLOSION LIMIT     | LELH  | LELL  |
| NITROGEN                  | NAH   | NAL   |
| OXYGEN                    | OXAH  | OXAL  |
| OZONE                     | OZAH  | OZAL  |
| PARTICLE                  | PCAH  | PCAL  |
| PH                        | PAH   | PHAL  |
| POWER                     | PWAH  | PWAL  |
| POWER TOTALIZER           | PWQAH | PWQAL |
| PRESSURE                  | PAH   | PAL   |
| PRESSURE DIFFERENTIAL     | PDAH  | 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 |

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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                             |  | FLOW SWITCH                 |
|    | SPECIAL CABLE                            |  | LIQUID LEVEL SWITCH         |
|    | INTEGRAL CABLE                           |  | TEMPERATURE SWITCH          |
|    | CAT5E CABLE                              |  | NORMALLY OPEN PUSH-BUTTON   |
|    | 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                  |  | WIRELESS LINK               |
|    | 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                           |   |                             |

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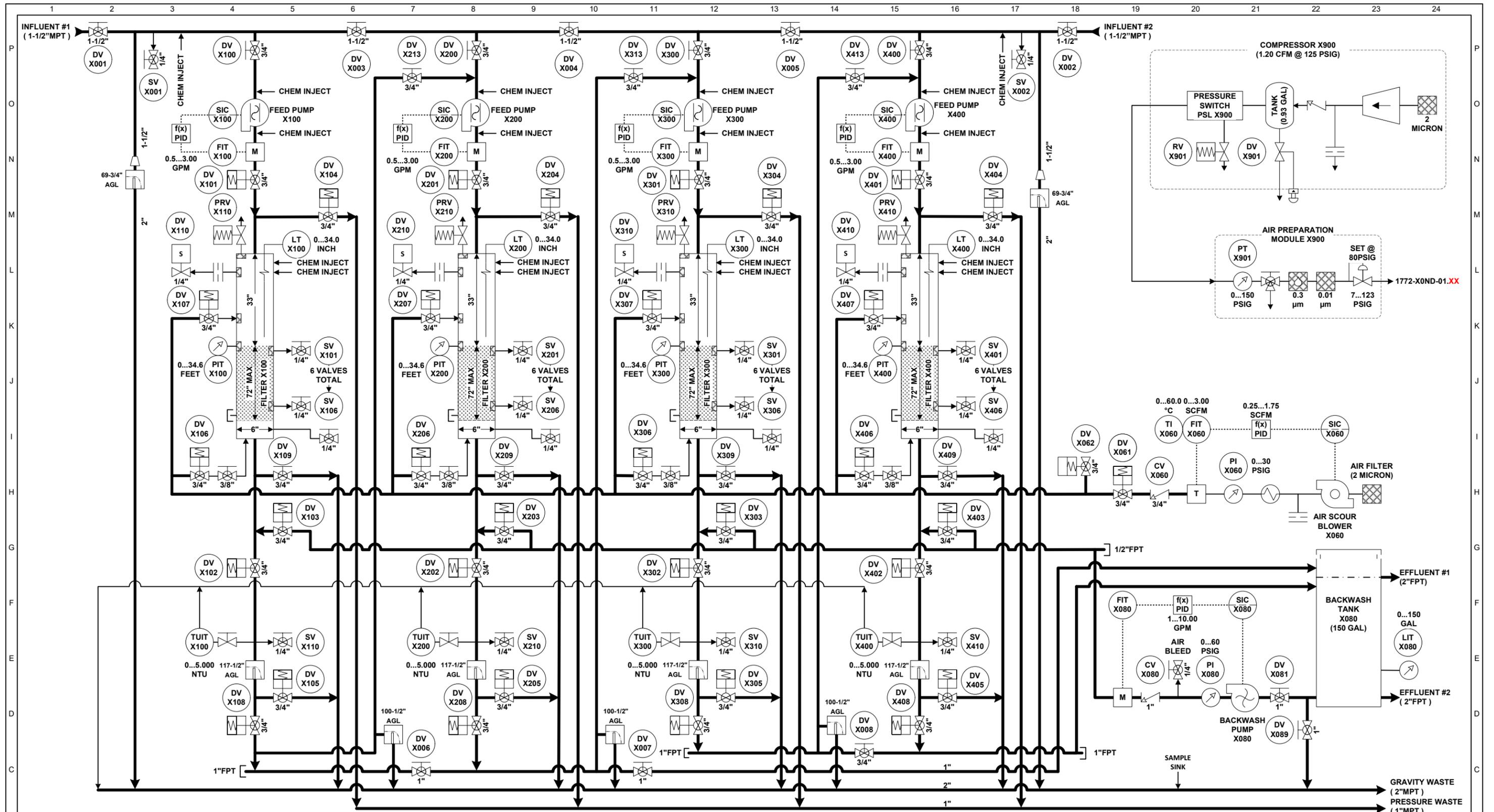
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ANGLES: ± 1°    0.XXX: ± 0.005

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



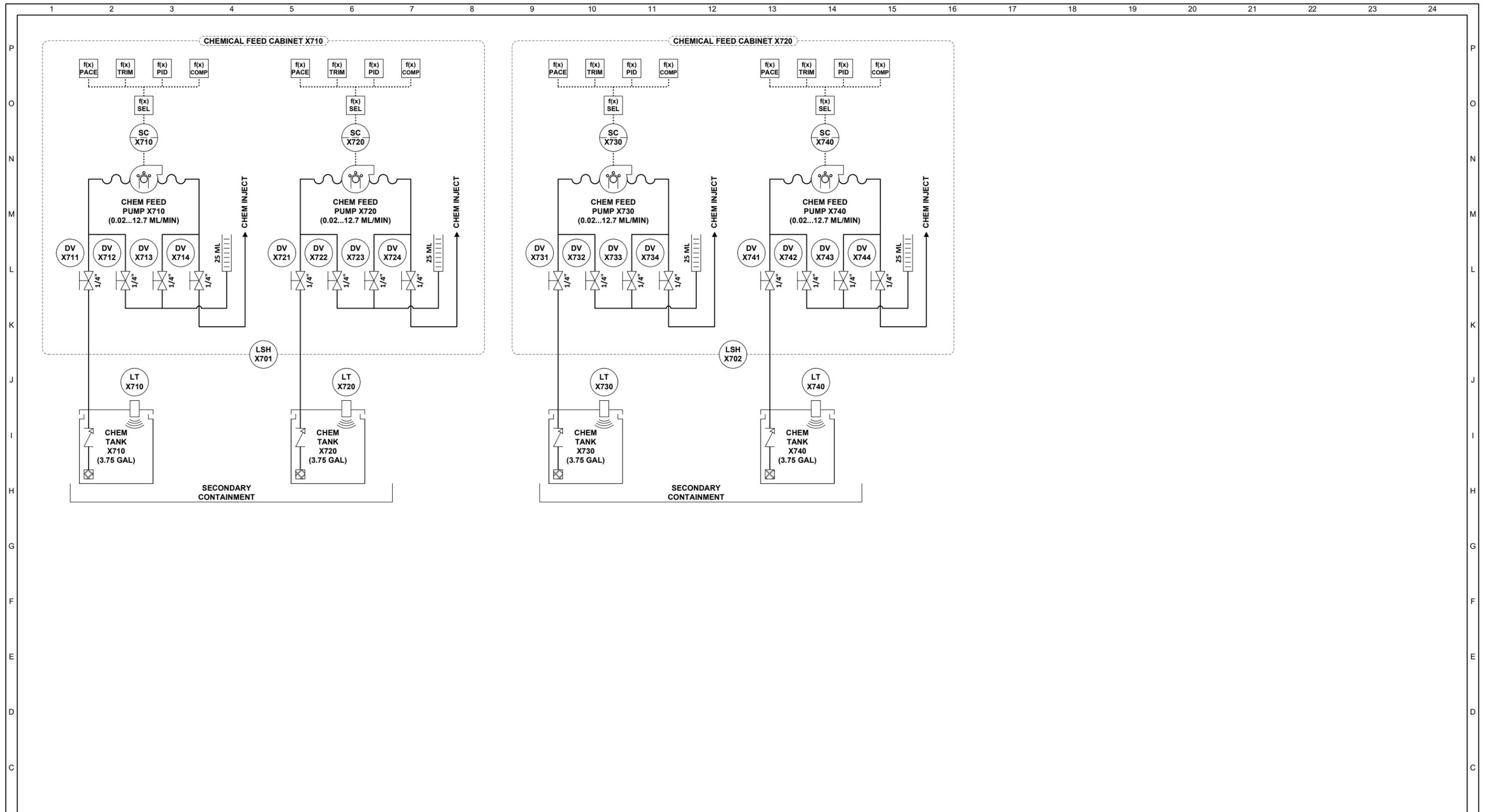
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| <b>TITLE: GRANULAR MEDIA FILTRATION MODULE F1700</b>   |                      |
| <b>PROCESS &amp; INSTRUMENTATION DIAGRAM - PROCESS</b> |                      |
| CLIENT: INTUITECH                                      | PROJECT: 1791        |
| DRAWN BY: MCF  | DRAWN DATE: 12-06-24 |
| DRAWING NAME: 1791-X0PP-01                             | P.O.:                |
| SCALE: NONE  | REVISION: 0          |



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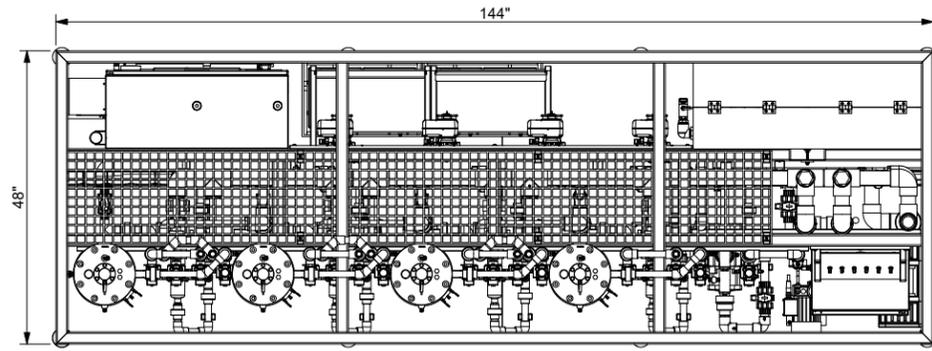
  
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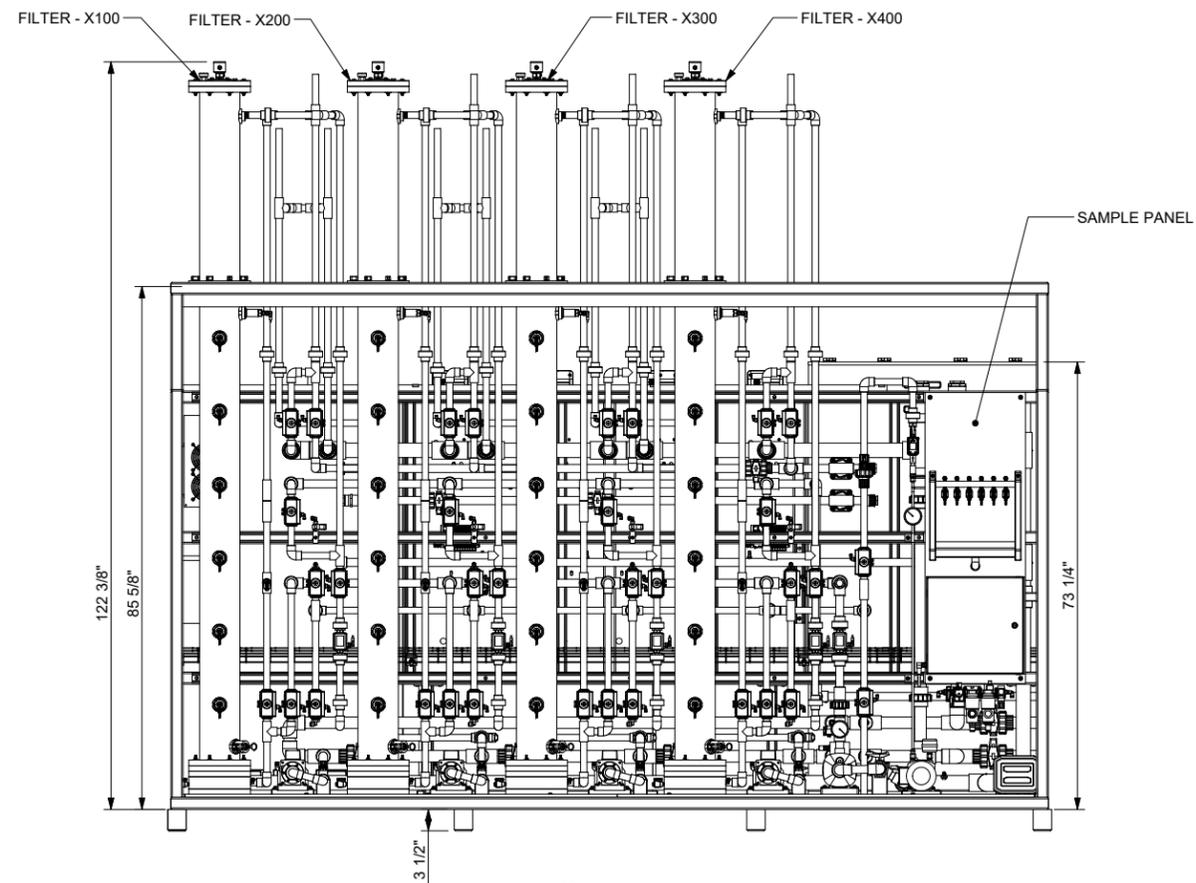
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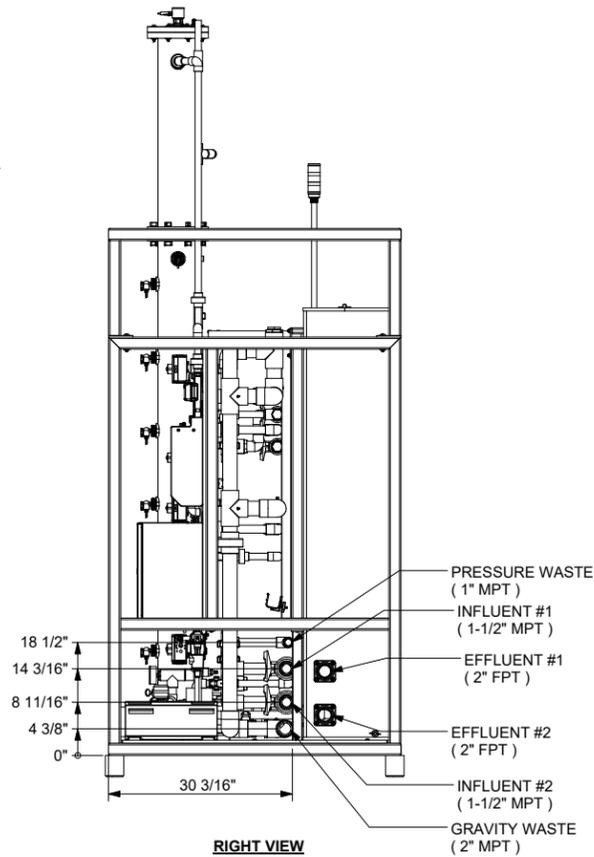
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|---|----------------------|
| <b>TITLE: GRANULAR MEDIA FILTRATION MODULE F1700</b>    |                      |
| <b>PROCESS &amp; INSTRUMENTATION DIAGRAM - CHEMICAL</b> |                      |
| CLIENT: INTUITECH                                       | PROJECT: 1791        |
| DRAWN BY: MCF   | DRAWN DATE: 12-06-24 |
| DRAWING NAME: 1791-X0PP-02                              | P.O.:                |
| SCALE: NONE   | REVISION: 0          |



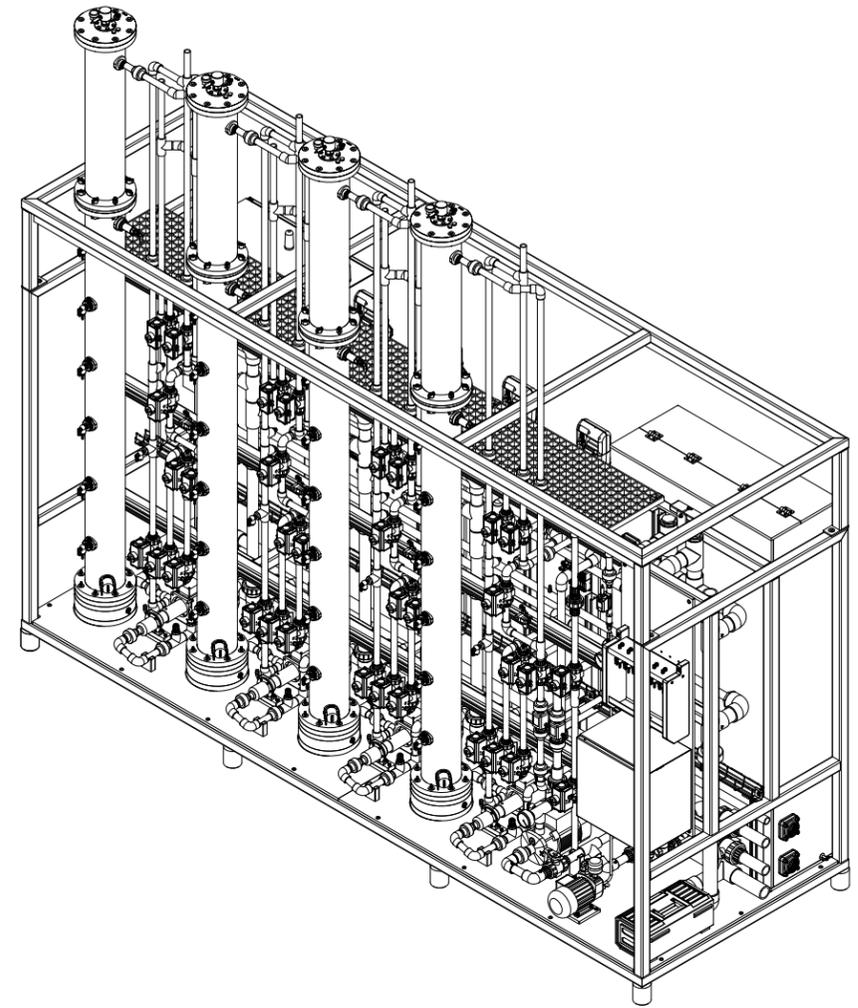
TOP VIEW



FRONT VIEW



RIGHT VIEW



**NOTES:**

1. UNITS: INCHES
2. ESTIMATED DRY WEIGHT: 2900 LBS.
3. ESTIMATED WET WEIGHT: 4700 LBS.

| REV | DATE | BY | CHECKED | DESCRIPTION |
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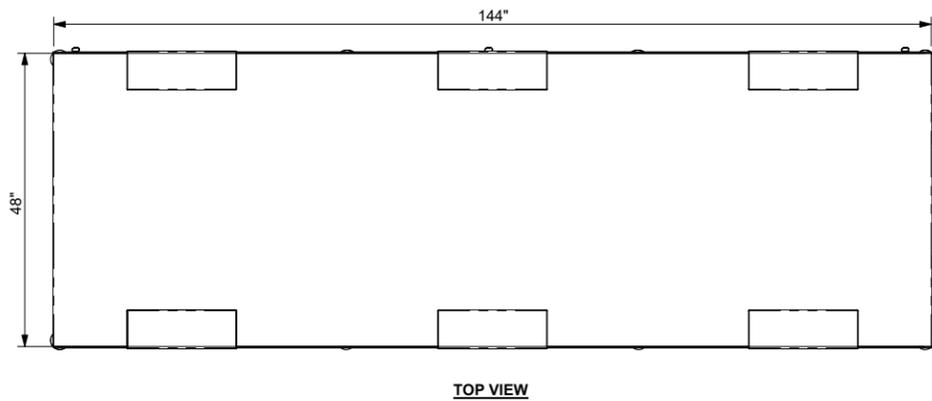
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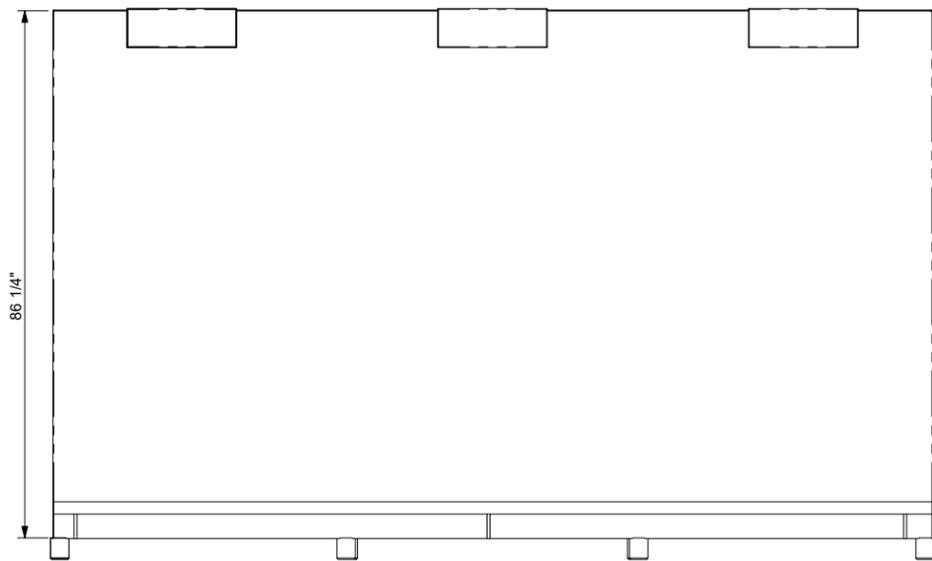
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 ANGLES: ±1° 0.XXX: ±0.005

**TITLE: GRANULAR MEDIA FILTRATION MODULE F1700  
 FILTRATION MODULE - GENERAL ARRANGEMENT FRONT VIEW**

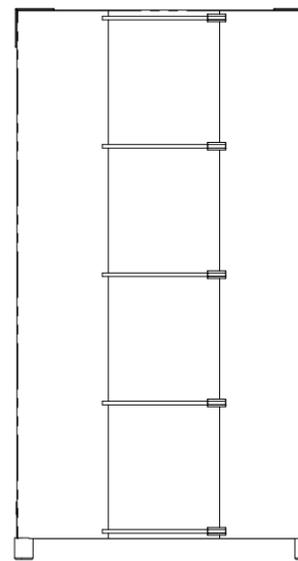
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| <b>CLIENT: INTUITECH</b>            | <b>PROJECT: 1791</b>          |
| <b>DRAWN BY: AJB</b>                | <b>DRAWN DATE: 11/15/2024</b> |
| <b>DRAWING NAME: 1791-X0GA-0101</b> | <b>P.O.:</b>                  |
| <b>SCALE: NONE</b>                  | <b>REVISION: 0</b>            |



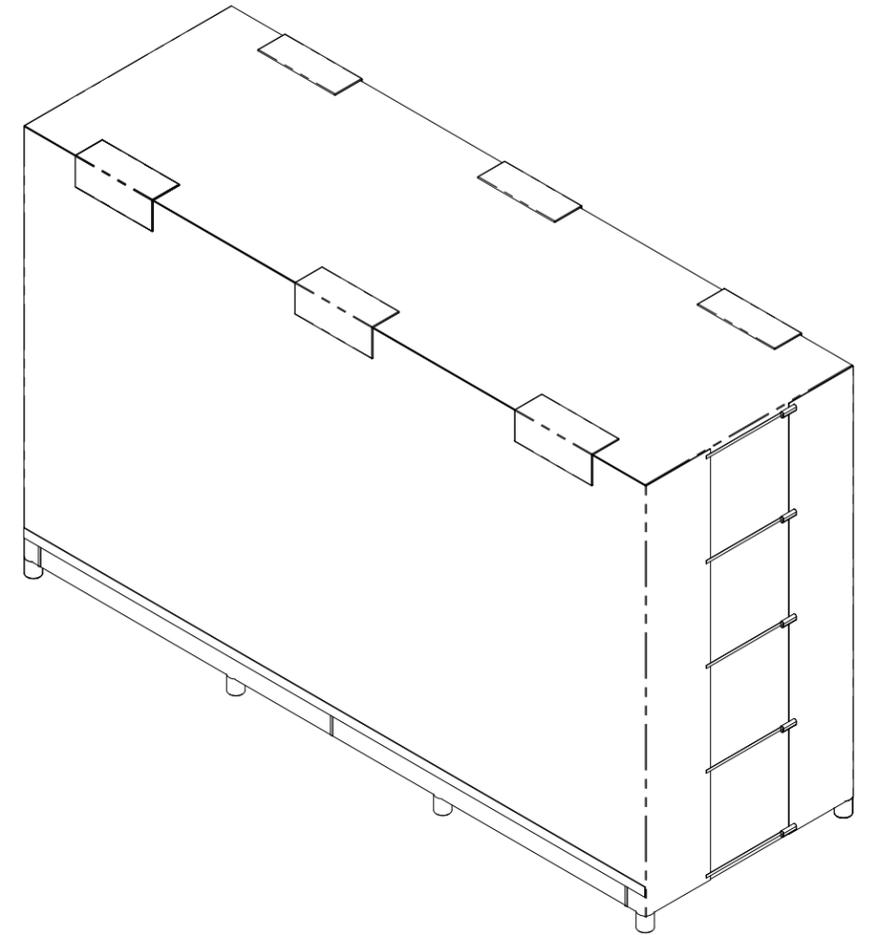
TOP VIEW



FRONT VIEW



RIGHT VIEW



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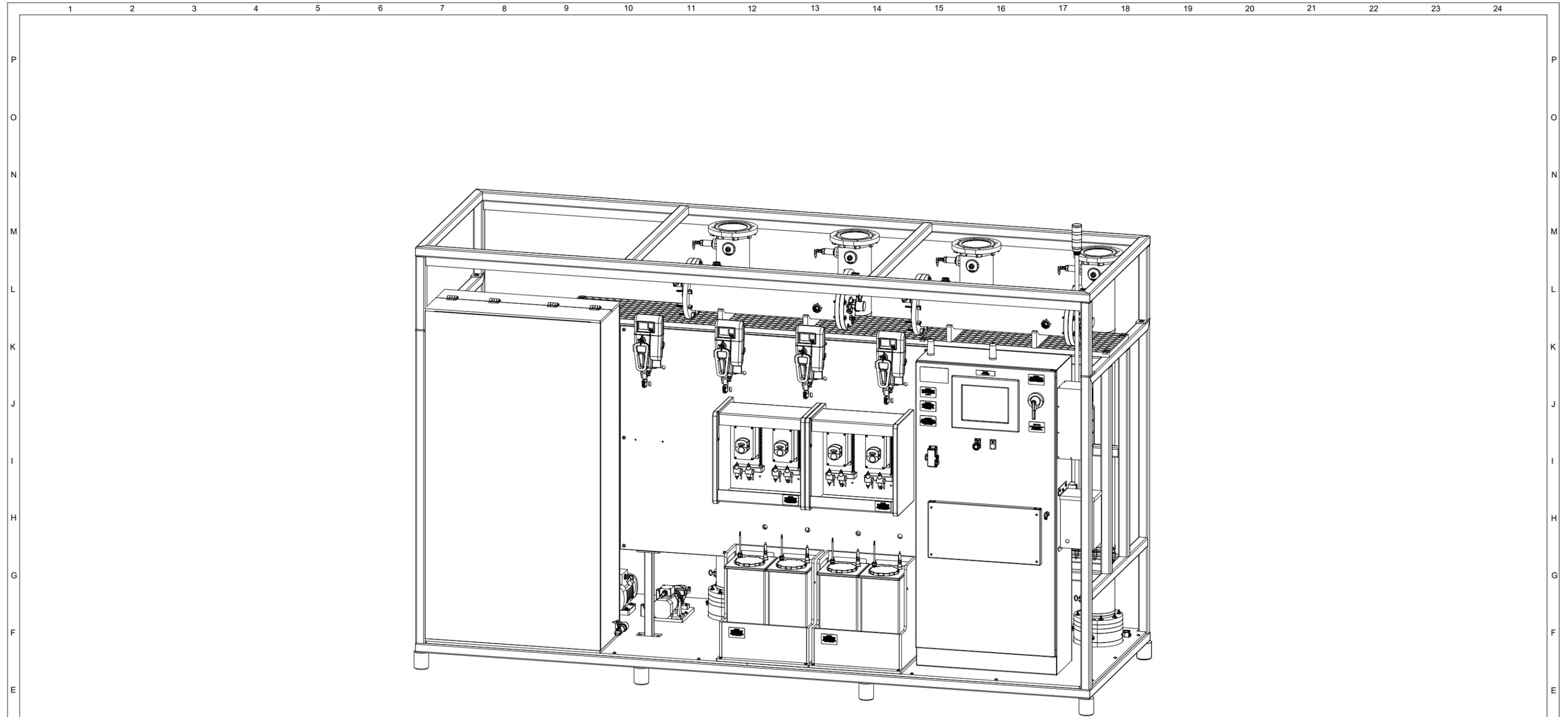


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| <b>TITLE:</b> GRANULAR MEDIA FILTRATION MODULE F1700<br>SKID - WITH TARP |                               |
| <b>CLIENT:</b> INTUITECH   | <b>PROJECT:</b> 1791          |
| <b>DRAWN BY:</b> AJB   | <b>DRAWN DATE:</b> 11/15/2024 |
| <b>DRAWING NAME:</b> 1791-X0GA-0301                                      | <b>P.O.:</b>                  |
| <b>SCALE:</b> NONE   | <b>REVISION:</b> 0            |



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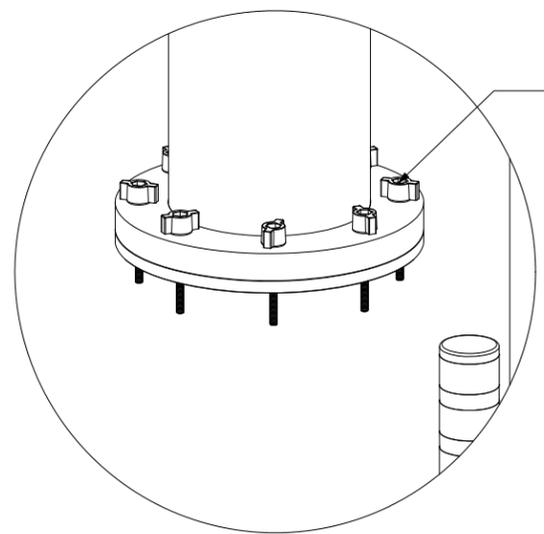
  
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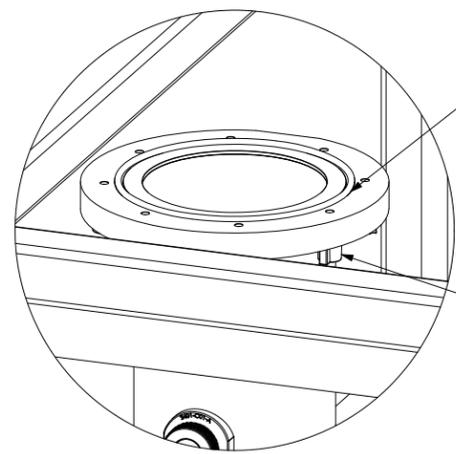
DIMENSIONAL TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED

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

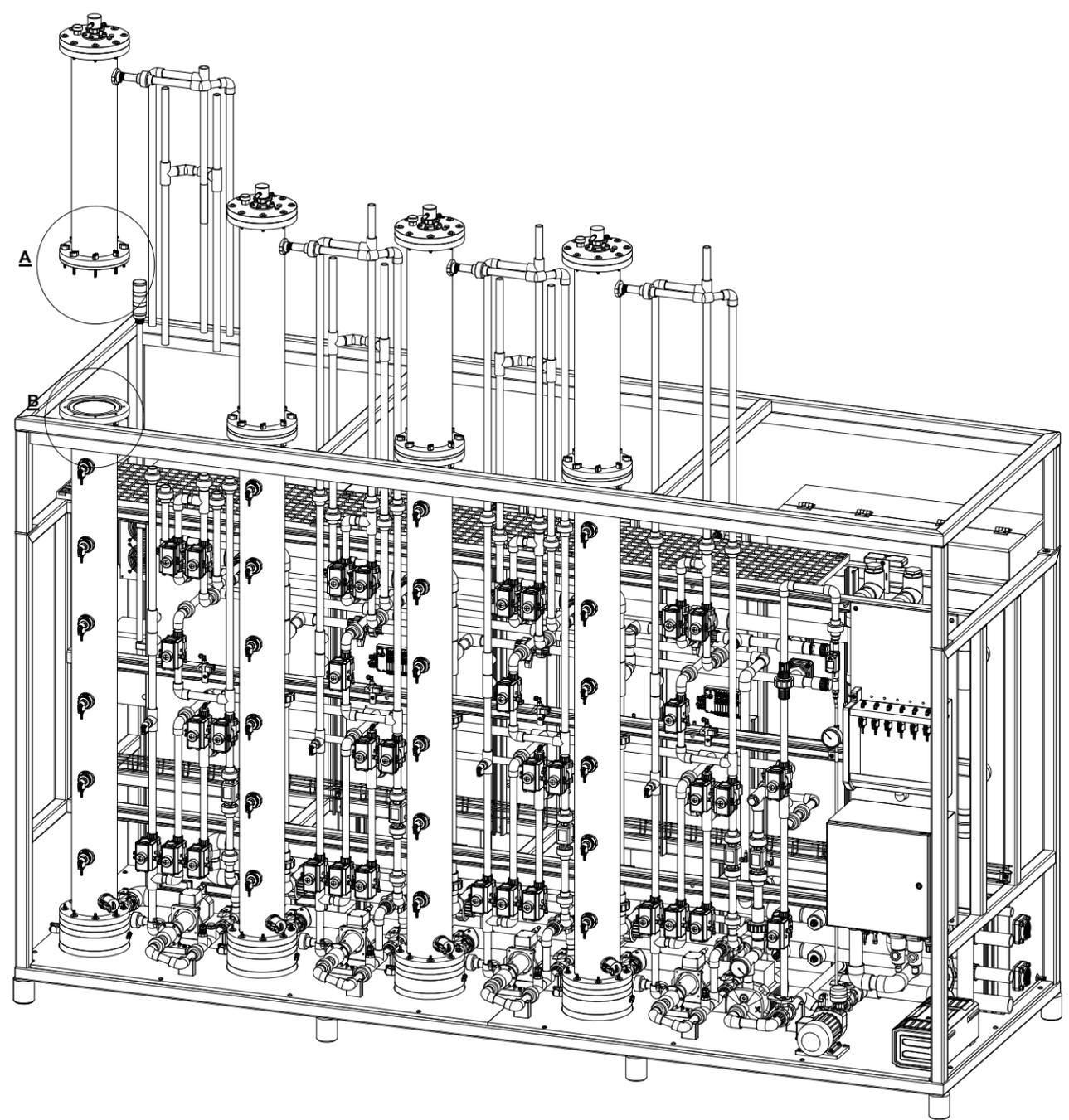
|  |                               |
|--|-------------------------------|
| <b>TITLE:</b> GRANULAR MEDIA FILTRATION MODULE F1700<br>SKID - SHIPPING LAYOUT |                               |
| <b>CLIENT:</b> INTUITECH   | <b>PROJECT:</b> 1791          |
| <b>DRAWN BY:</b> AJB   | <b>DRAWN DATE:</b> 11/15/2024 |
| <b>DRAWING NAME:</b> 1791-X0GA-0401  | <b>P.O.:</b>                  |
| <b>SCALE:</b> NONE   | <b>REVISION:</b> 0            |



**DETAIL A**



**DETAIL B**



**NOTES:**

1. DO NOT DISASSEMBLE UNDERDRAINS FOR MEDIA REMOVAL.
2. LOAD MEDIA THROUGH TOP FLANGE OF LOWER SECTION.

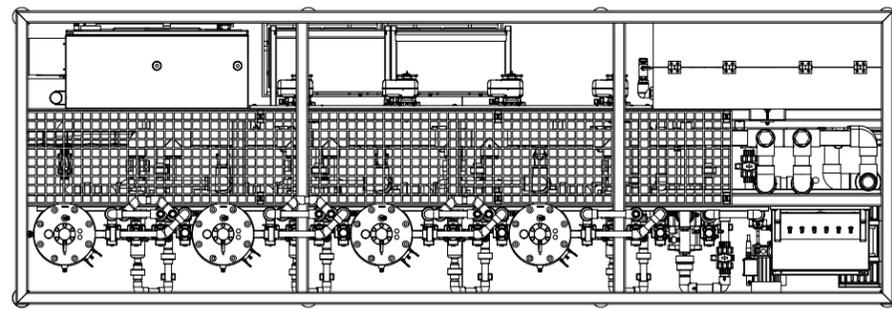
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| 2   |      |    |         |             |
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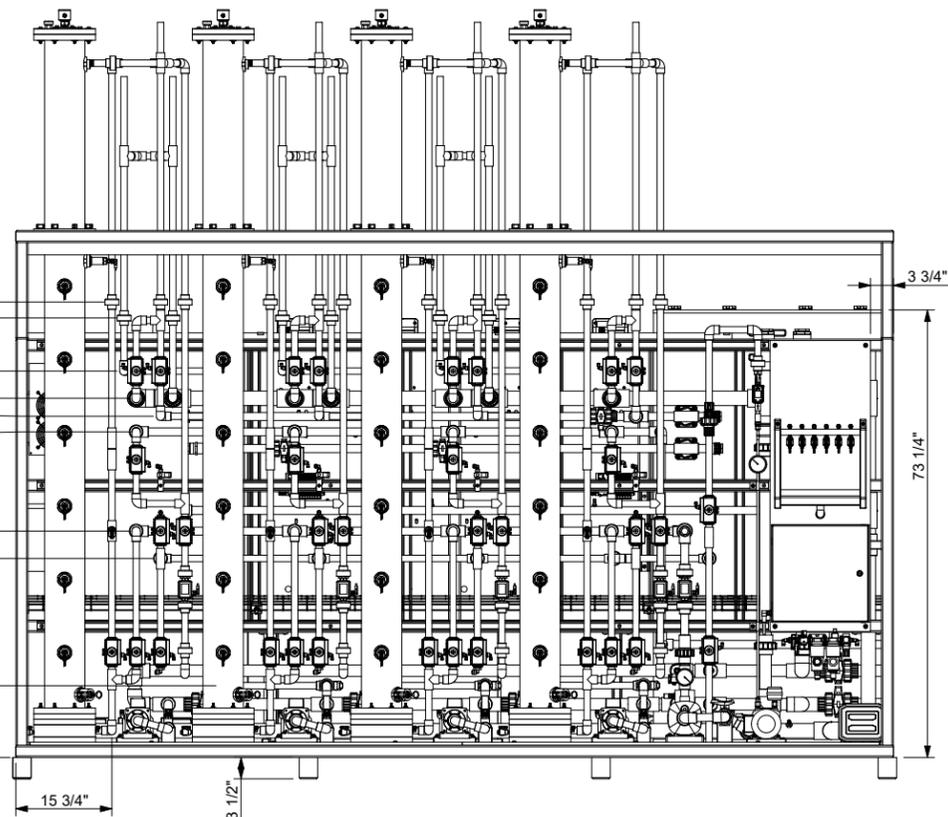
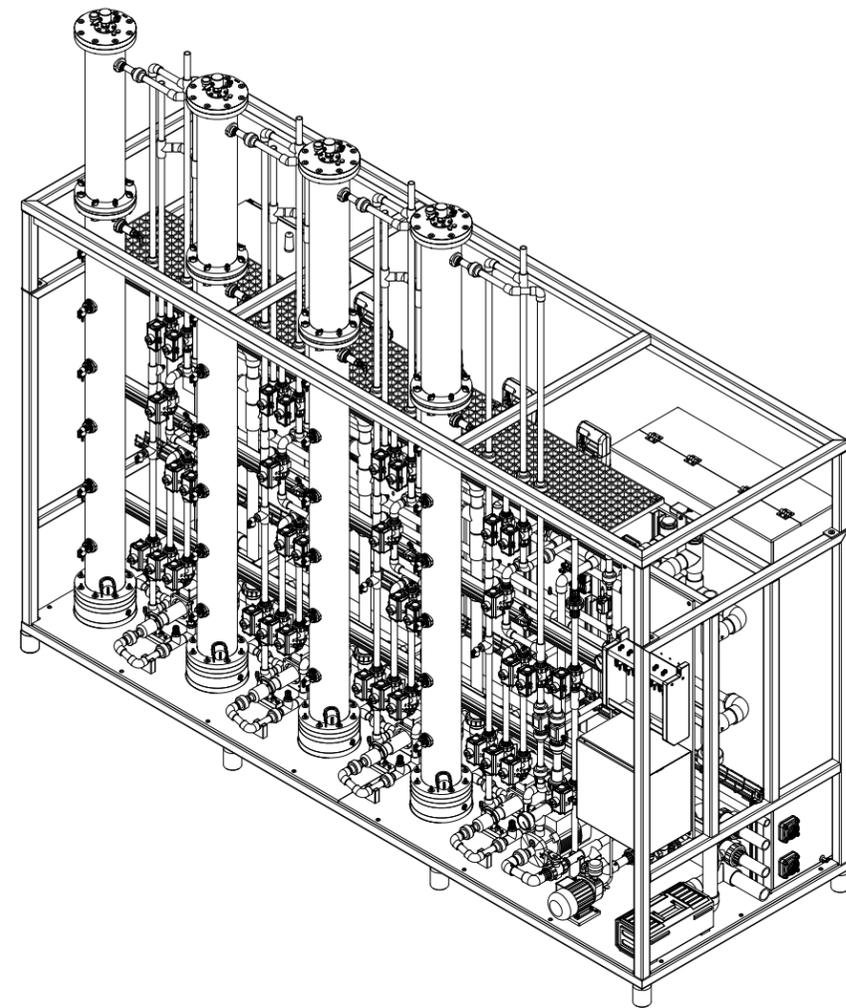
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**DIMENSIONAL TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED**  
 FRAC: ±1/16    0.XX: ±0.01  
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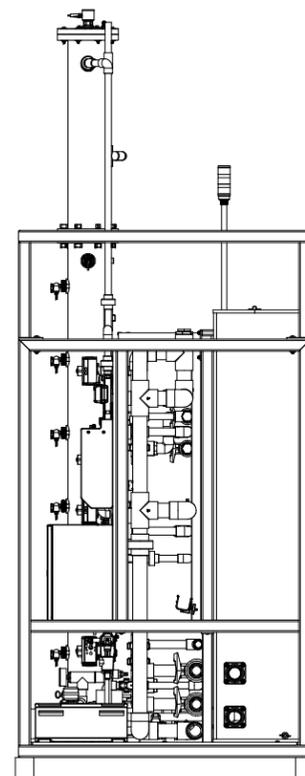
|   |                               |
|---|-------------------------------|
| <b>TITLE:</b> GRANULAR MEDIA FILTRATION MODULE F1700 SKID - COLUMN ASSEMBLY |                               |
| <b>CLIENT:</b> INTUITECH  | <b>PROJECT:</b> 1791          |
| <b>DRAWN BY:</b> AJB  | <b>DRAWN DATE:</b> 11/15/2024 |
| <b>DRAWING NAME:</b> 1791-X0GA-0501   | <b>P.O.:</b>                  |
| <b>SCALE:</b> NONE  | <b>REVISION:</b> 0            |



TOP VIEW



FRONT VIEW



RIGHT VIEW

| REV | DATE | BY | CHECKED | DESCRIPTION |
|-----|------|----|---------|-------------|
| 1   |      |    |         |             |
| 2   |      |    |         |             |
| 3   |      |    |         |             |
| 4   |      |    |         |             |



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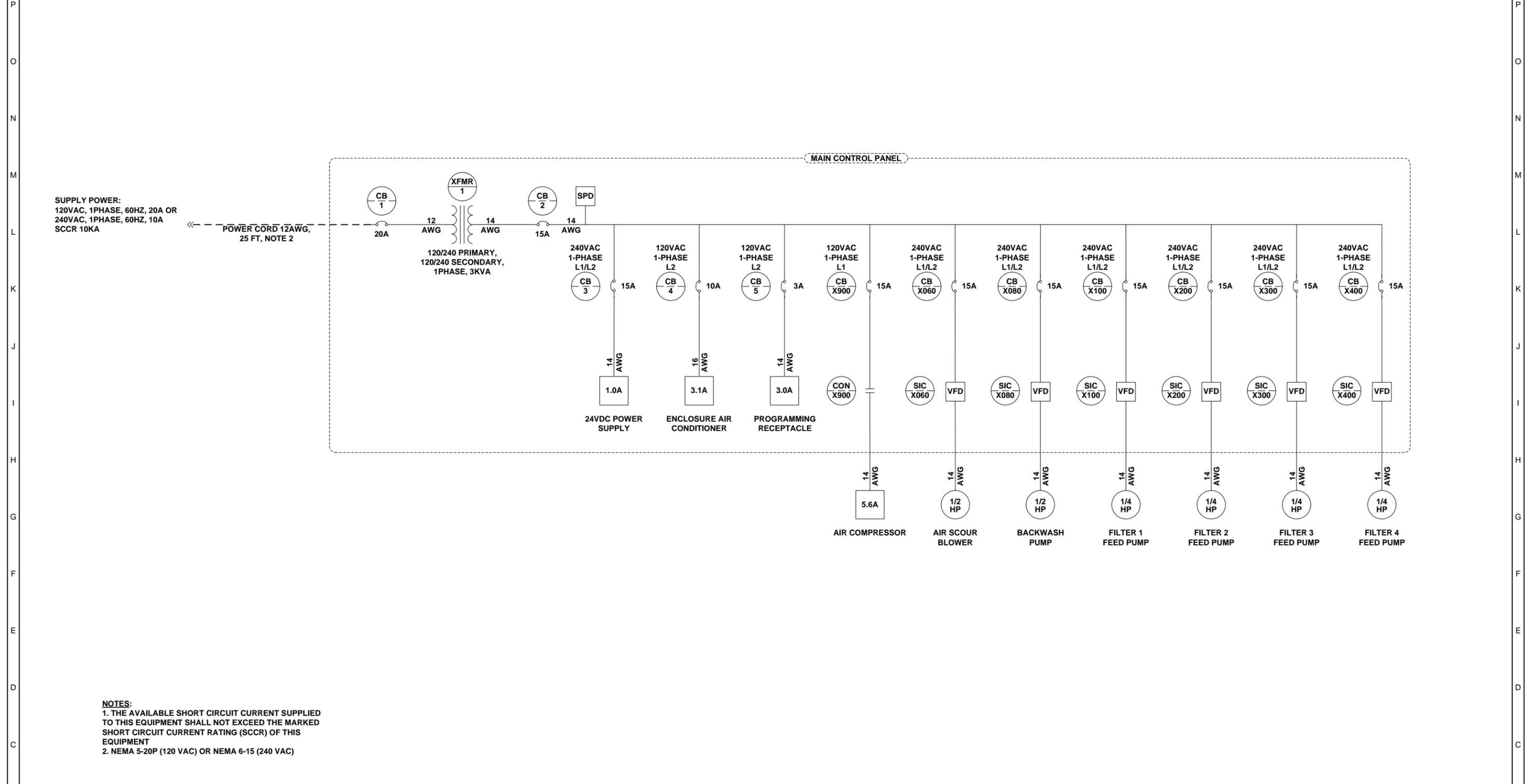
**DIMENSIONAL TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED**

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

**TITLE: GRANULAR MEDIA FILTRATION MODULE F1700  
 FILTRATION MODULE - GENERAL ARRANGEMENT MECHANICAL DETAIL**

|                                     |                               |
|-------------------------------------|-------------------------------|
| <b>CLIENT: INTUITECH</b>            | <b>PROJECT: 1791</b>          |
| <b>DRAWN BY: AJB</b>                | <b>DRAWN DATE: 11/15/2024</b> |
| <b>DRAWING NAME: 1791-X0MD-0101</b> | <b>P.O.:</b>                  |
| <b>SCALE: NONE</b>                  | <b>REVISION: 0</b>            |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



**NOTES:**  
1. THE AVAILABLE SHORT CIRCUIT CURRENT SUPPLIED TO THIS EQUIPMENT SHALL NOT EXCEED THE MARKED SHORT CIRCUIT CURRENT RATING (SCCR) OF THIS EQUIPMENT  
2. NEMA 5-20P (120 VAC) OR NEMA 6-15 (240 VAC)

| REV | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
| 1   |      |    |             |
| 2   |      |    |             |
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FRAC: ± 1/16 0.XX: ± 0.01  
ANGLES: ± 1° 0.XXX: ± 0.005

|   |                        |
|---|------------------------|
| <b>TITLE: FILTRATION MODULE MAIN CONTROL PANEL ONE LINE DIAGRAM</b> |                        |
| CLIENT: INTUITECH   | PROJECT: 1791          |
| DRAWN BY: JJB   | DRAWN DATE: 11-13-2024 |
| DRAWING NAME: 1791-X0LD-01  | 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