

SK-450 Budgetary Proposal

Regional Sales Manager:

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Project Name: CTI Bean EQ

BIOREM#: 20-7009

Revision: 1

Date: January 13, 2021



BIOREM

LEADING INNOVATION IN BIO-ENGINEERED AIR CONTROL TECHNOLOGIES



Founded in 1991, BIOREM® is a global clean technology engineering company with one objective: engineer, design, manufacture and distribute the most innovative and effective biological-based emissions abatement technologies in the world.

As a leader in emissions abatement, our engineering teams have installed more than 1,200 projects worldwide. We specialize in tackling the exceptionally difficult problems of odour, volatile organic compounds (VOCs), and hazardous air pollutants, then engineering innovative solutions for the lowest life cycle cost of any technology.

BIOREM offers a lifetime commitment that our engineered systems will solve your air emissions and odour control problems. At the core of our business strategy is to be your trusted partner.

This means you can rely on BIOREM for any project, any size, anywhere and be certain you have the best available technology and support to solve your most difficult challenges.

Engineering the Difference

Superior physical, chemical and biological solutions that effectively and reliably control air emissions require advanced engineering knowledge and expertise. This is why all BIOREM teams are multidisciplinary units comprising biological, chemical, environmental and mechanical engineers and scientists.



SK-450 - Skid Mounted Biofilter System

This small footprint, high performance two stage biofilter is skid mounted for simple installation and is perfect for sites with limited space requirements. The system is specifically designed for low air flow applications that are typically found at lift stations where high concentrations of hydrogen sulfide are found and total odor removal is required.

The first step of the SK system is a pretreatment stage to remove excessive concentrations of hydrogen sulfide. The removal of these contaminants allows the secondary treatment stage to focus on the remaining contaminants - providing a high degree of treatment efficiency.

The skid mounted system is pre-plumbed and pre-wired at BIOREM's fabrication facility. The Contractor only needs to connect the system to foul air, water and electricity and the system is ready to go.

BIOREM multi-stage systems are engineered to handle the most difficult air stream applications and provide consistent total odor removal. Because it is a multi-stage system, it easily handles peak variations, shock loads and process upsets. These features translate directly into cost savings both for the initial investment as well as for on going operations and maintenance.



Revision History

Number	Description	Date	Author
0	Initial budgetary proposal	December 17, 2020	MAWS
1	Added Optional Equipment Packages	January 13, 2021	DC

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Project Details

Table 1 - Inlet Foul Air Quality

Process Parameter	Value
Flow Rate	250 CFM
Temperature	50 - 100 °F
Relative Humidity	>50% RH
Average H ₂ S Concentration	50 ppm
Peak H ₂ S Concentration	100 ppm

Table 2: Overall System Configuration and Common Utilities

Design Parameter	Value
System Configuration	Standard SK-450B
Estimated Water Consumption	180 GPD
Electrical Supply Required	460V / 3PH / 60Hz

Table 3: Client Water Quality Requirements

Design Parameter	Value
pH	5 - 8
Total Suspended Solids	<5 mg/L
Hardness	<100 mg/L
Biological Oxygen Demand	<5 mg/L
Total Nitrogen	<5 mg/L
Total Phosphorus	<5 mg/L
Free Chlorine	<2 mg/L
Turbidity	<25 NTU
Recommended Source	Potable preferred

Table 4: System Skid Design

Design Parameter	Value
Overall System Dimensions	12.0 ft length : 6.7 ft width : 8.3 ft height
System Shipping Weight	3,800 lbs
System Operating Weight	7,000 lbs
Number of Internal Treatment Stages	2: Biotrickling filter followed by biofilter
System Drain Water pH	1 - 3

System Performance

- A. When loaded up to the design flow and average H₂S concentration, the biofiltration system will achieve **99 percent** removal of H₂S or the outlet concentration levels shall be less than **0.1 ppm** H₂S.
- B. When loaded up to the design flow and average odor concentration, the biofiltration system will achieve **90 percent** removal of odor or the outlet concentration levels shall be less than **600 OU**. (Odor concentrations to be determined using ASTM-E679 or EN 13725).

Warranties

- A. The Manufacturer warrants that the biofilter media will not compact, degrade or decompose for a period of 10 years from the date of Substantial Completion, provided that the system is operated in accordance with the Manufacturer's printed Operation and Maintenance Manuals.
- B. All mechanical components will be warranted free of manufacturing defects for a period of 12 months from Substantial Completion, or 18 months of shipment, whichever occurs first.

Scope of Supply

1. (1) Skid assembly consisting of a pre-arranged equipment skid, constructed of extruded anodized aluminum. Able to be lifted by forklift or crane.
2. (1) Biofilter vessel with media support flooring and all required access hatches and nozzles. Material of construction to be UV and H₂S resistant HDPE with 304 stainless steel hardware and EPDM gaskets.
3. Synthetic biotrickling filter media.
4. Engineered biofilter media.
5. **By Others:** (1) Butterfly damper for airflow isolation upstream of fan.
6. **By Others:** (1) Flexible transition piece on fan inlet, flange material of construction to be 304 stainless steel.
7. (1) 0.75 HP recirculation pump rated for 5.0 GPM at 65 ft head with a TEFC motor.
8. (1) 1.5 HP centrifugal FRP exhaust fan rated for 450 CFM at 9.8 inWC with a TEFC motor. Fan static pressure allows for 2 inWC pressure loss through external ductwork.
9. (1) Schedule 80 PVC manifold with spiral spray nozzles for optimized coverage of BTF media.
10. (1) Lot irrigation dripline tubing optimized coverage of biofilter media.
11. (1) Control Panel:
 - i. NEMA 4X 304 stainless steel enclosure.
 - ii. (1) Door interlocked fused disconnect.
 - iii. (1) Fused VFD for exhaust fan.
 - iv. (1) Fused motor starter for recirculation pump.
 - v. (1) 120 VAC control transformer complete with primary and secondary fusing.
 - vi. (1) 24 VDC power supply.
 - vii. Lot hand switches and status lights.
 - viii. Lot terminal strips for field connections such as instrumentation and dry contacts to SCADA. Motors direct wire to starters/VFDs.
12. (1) Waterbox:
 - i. NEMA 4X FRP pre-plumbed enclosure.
 - ii. (1) Flow indicator/switch, on recirculation line (local read).
 - iii. (1) Variable area rotameter, on blowdown line (local read).
 - iv. (1) Flow totalizing indicator, on biofilter irrigation line (local read).
 - v. (1) Solenoid valve, on biofilter irrigation line.

- vi. (1) Pressure indicator, on water supply line (local read).
- vii. Lot fluid control valves and strainers.
- 13. (1) Nutrient addition system consisting of:
 - i. (1) Nutrient solution storage vessel.
 - ii. (1) Metering pump.
 - iii. (1) Year supply of dry nutrients (2 bags of Biorem proprietary nutrient blend).
- 14. Instrumentation and fluid control valves external to waterbox:
 - i. (3) Air static pressure indicators, for determining system pressure drop (local read).
 - ii. (1) Air temperature indicator, on inlet duct to system (local read).
 - iii. (1) Temperature indicator, in biofilter media bed (local read).
 - iv. (1) Pressure indicator, on outlet of the recirculation pump (local read).
 - v. Lot fluid control valves and strainers.
- 15. Engineering Submittal packages.
- 16. Operation and Maintenance manuals.

Note: The control panel and waterbox are not rated for use in a hazardous classified location. The end of the skid that they are mounted to must be located in an unclassified location as defined by NFPA 70 and NFPA 820.

Optional Equipment Packages:

Winterization Package for SK-250:

Option 1: Heat Trace and Insulation of Water Pipe Only

- 1. (1) Lot Pipe Insulation and Heat Trace: Package included all external PVC water pipe to be wrapped in heat trace cable and factory insulated with white PVC wrapping. Each connection point will include 5' of loose cable for contractor use.
- 2. (1) 400 W heater within the Waterbox to prevent freezing
- 3. Upsizing control panel to accommodate heat load. No provision for heaters within the nutrient tank or recirculation loop has been provided.

Option 2: Full winterization of Skidded System

Option #1 Plus:

- 4. (1) 10 kW circulation heater and vessel placed within the recirculation loop for freeze protection of circulation and sump water.
- 5. (1) 4.5 kW immersion heater located within the nutrient addition tank for freeze protection.
- 6. Panel upgrade to accommodate heater loadings.

External Sump Pit System:

BIOREM is proposing locating an external Poly tank below grade that will allow the discharge runoff water from the constant blowdown to gravity drain into. The tank would be buried below drain pipe elevation, and water would be sent to the tank via contractor supplied PVC piping. Inside the tank would be a sump pump controlled by level switches that would be used turn the pump on once the HI level switch was made, and turn it off once pumped down to a low level switch location. A redundant HI HI level switch will be located below the overflow, should the HI switch not engage. It is recommended an overflow line be included that is plumbed to a manhole in the event of an emergency, should any of these switches fail, or should a loss of power occur and the tank is manually drained.

Components shipped loose for installation include:

1. (1) 100 Gallon poly tank complete with bulk head fittings and valves
2. (1) 0.75 HP Submersible pump installed in the tank with piping connections. Pumped sized to pump approx. 20' horizontally, and 35' vertically.
3. (3) Level switches
4. (1) Lot adder to main control panel for addition of motor starter and level switches.

Contractor Scope of Supply

Unless specified previously in this document, the following items listed are to be supplied by the Contractor and are not in the Manufacturer's Scope of Supply.

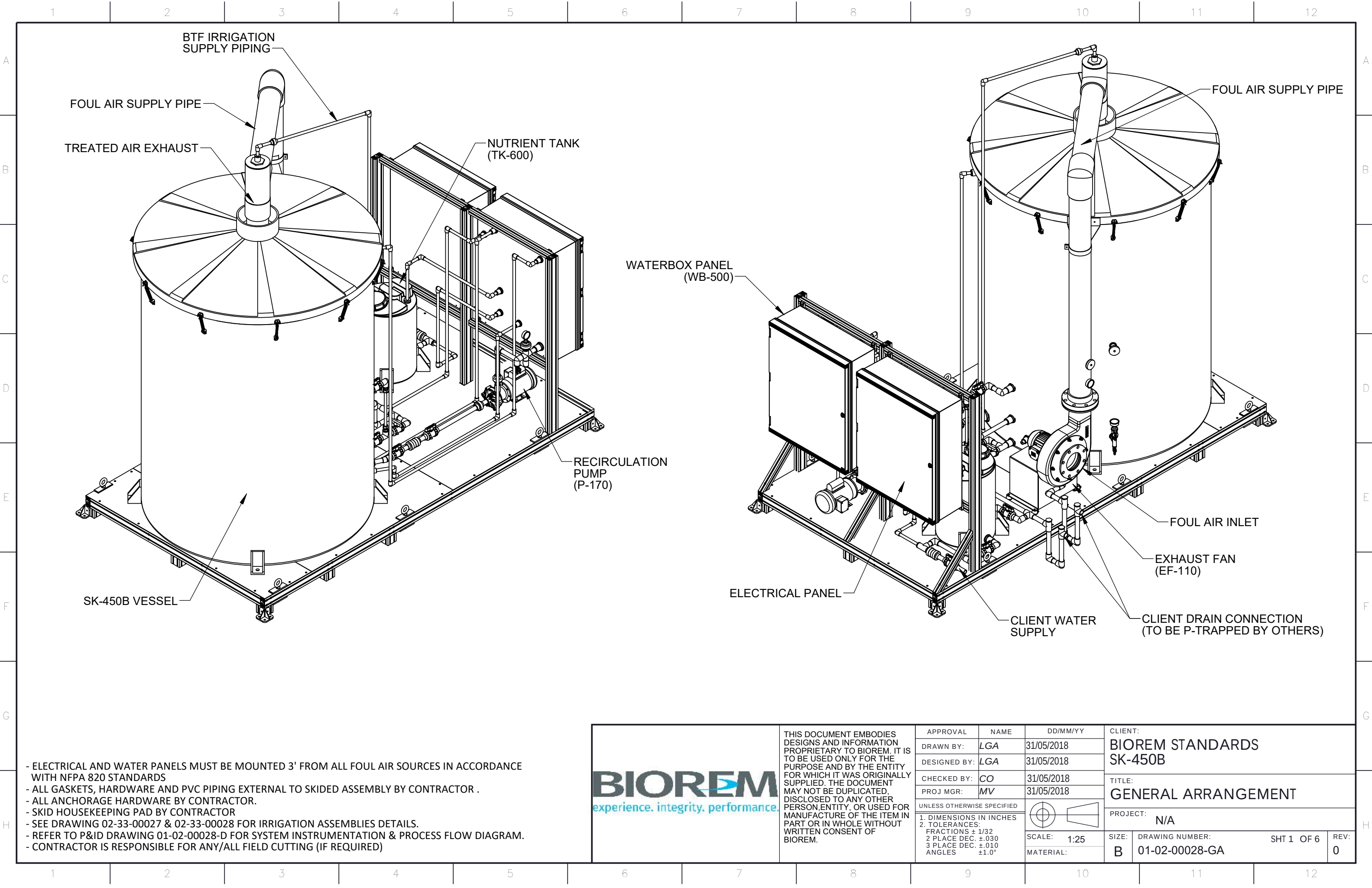
1. Provide all equipment offloading, temporary storage and placement.
2. Provide labor, materials and equipment for the installation and assembly of all BIOREM supplied equipment and instrumentation. Supply and install all other materials or equipment required for a complete operational system.
3. Site preparation and clearing of materials.
4. Design and supply an appropriately sized reinforced concrete slab to handle full load of applicable vessels, fans, control panels and waterboxes. Provide collection and analysis of any geotechnical data as required.
5. Design, supply and install appropriately sized anchor bolts for all equipment including vessels, fans, control panels and waterboxes.
6. Supply and install all required protective coatings or paint such as UV paint for piping or concrete paint.
7. Supply and install all external water piping and drain piping to and from vessels, waterboxes and other fluid equipment including heat tracing, insulation, piping supports, drainage traps where necessary and / or UV protective paint. If winterizing system, contractor to insulate differential pressure gauge enclosures.
8. Supply and install all hardware, supports, guide wires, duct gaskets, expansion joints and connectors needed for a complete and operational system.
9. Supply make-up water at a minimum pressure of 40 psi. Water analysis for hardness or other parameters as necessary.
10. Provide main electrical service and system field wiring outside the main odor control panel. All electrical requirements for heat tracing and equipment not specifically provided by BIOREM to be provided by others.
11. Media onsite storage and installation. The Contractor shall be required to remove vessel access covers, install and distribute media evenly across the vessel, assemble media irrigation system and reinstall covers.
12. Provide duct balancing, and system functional, hydrostatic, vibration and performance testing to be conducted by OTHERS as may be specified.

Quotation

Item	Price
SK-450 Skid Mounted Biofilter System (Please refer to Scope of Supply for details)	\$ 40,900
Start-Up and Commissioning	\$ 2,750
Winterization Optional Pricing	
Option#1 – Factory heat trace and insulation of all water pipes and heated water box	\$16,775
Option#2 – Full Winterization (Please refer to Optional Equipment Packages)	\$34,995
External Sump Package	\$9,445

Delivery	FOB, Victor NY.
Commissioning	Included
Performance Testing	Included
Submittal Schedule	4 - 6 weeks after acknowledgement of order and confirmation from BIOREM's Project Manager
Delivery Schedule	12 - 14 weeks after approved submittals
Payment Terms	25% with order, 65% prior to shipping, 10% N30 delivery to site.
Price	All prices in US Dollars, applicable taxes are extra, prices are guaranteed for 90 days from date of quotation

Appendix A: System Drawings

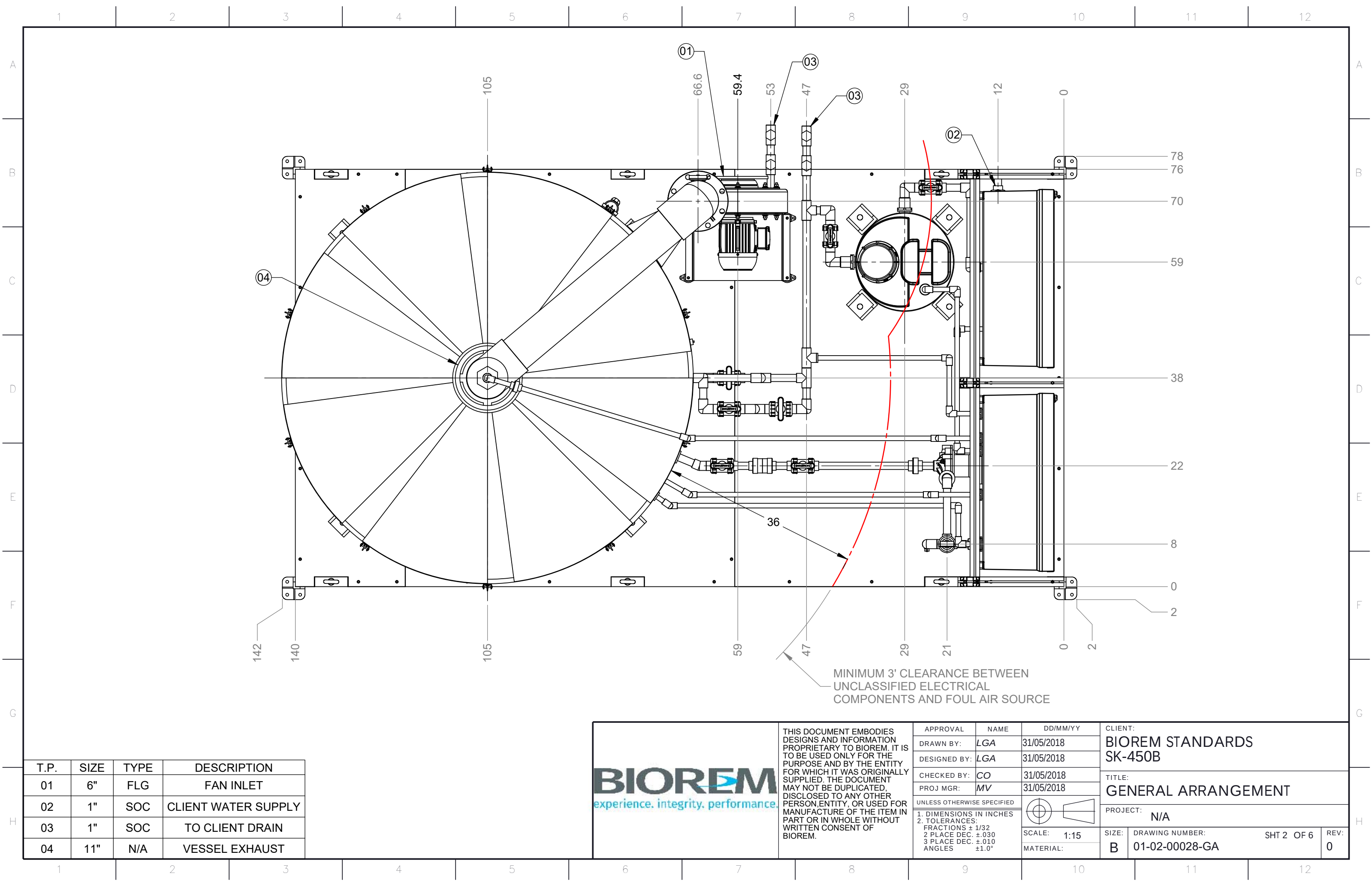


- ELECTRICAL AND WATER PANELS MUST BE MOUNTED 3' FROM ALL FOUL AIR SOURCES IN ACCORDANCE WITH NFPA 820 STANDARDS
- ALL GASKETS, HARDWARE AND PVC PIPING EXTERNAL TO SKIDED ASSEMBLY BY CONTRACTOR .
- ALL ANCHORAGE HARDWARE BY CONTRACTOR.
- SKID HOUSEKEEPING PAD BY CONTRACTOR
- SEE DRAWING 02-33-00027 & 02-33-00028 FOR IRRIGATION ASSEMBLIES DETAILS.
- REFER TO P&ID DRAWING 01-02-00028-D FOR SYSTEM INSTRUMENTATION & PROCESS FLOW DIAGRAM.
- CONTRACTOR IS RESPONSIBLE FOR ANY/ALL FIELD CUTTING (IF REQUIRED)



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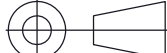
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PROJ MGR:	MV	31/05/2018	GENERAL ARRANGEMENT				
UNLESS OTHERWISE SPECIFIED			PROJECT:			N/A	
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2. TOLERANCES:							
FRACTIONS ± 1/32							
2 PLACE DEC. ±.030							
3 PLACE DEC. ±.010		SCALE:	1:25	SIZE:	DRAWING NUMBER:	SHT 1 OF 6	REV:
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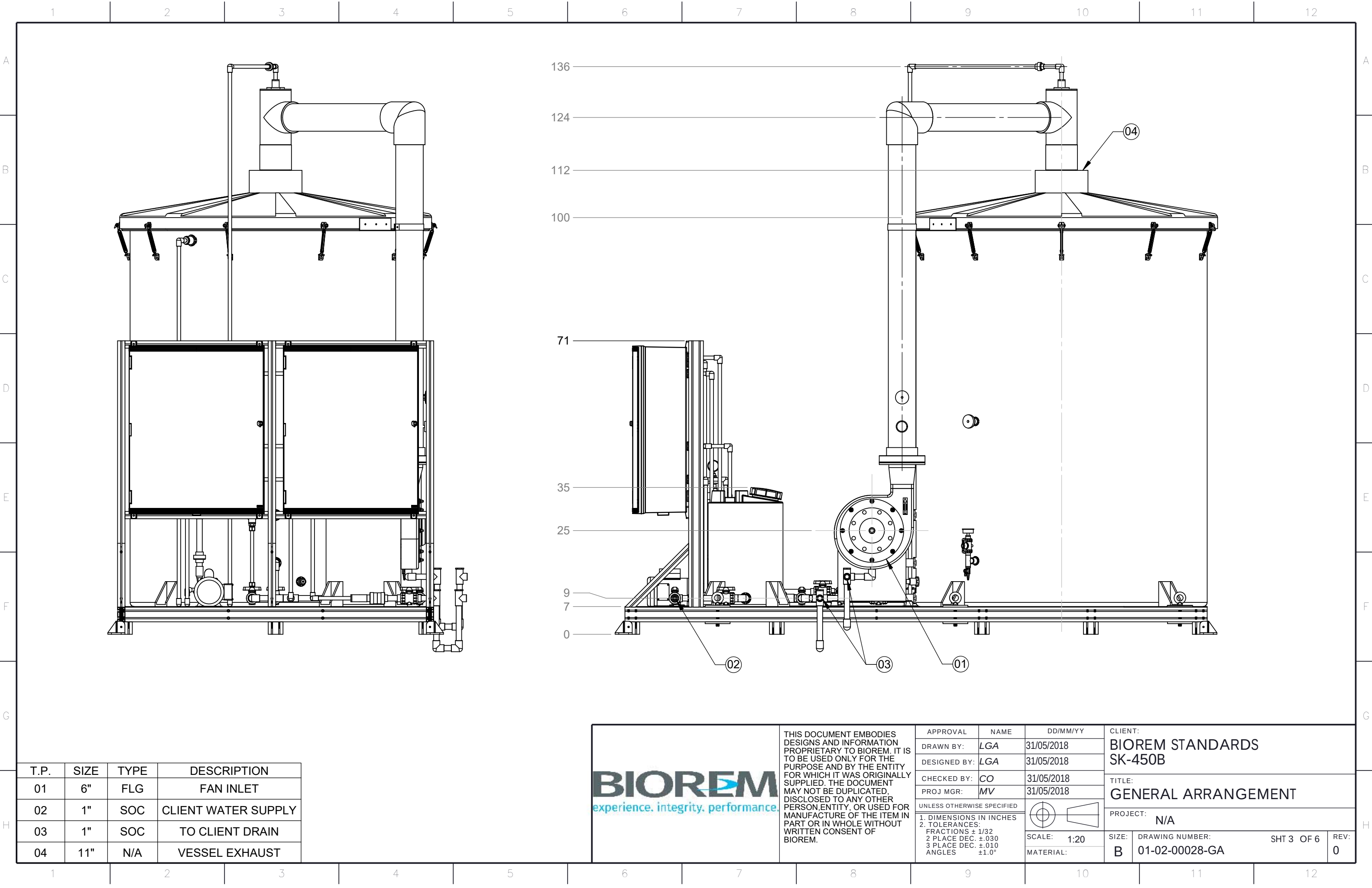
T.P.	SIZE	TYPE	DESCRIPTION
01	6"	FLG	FAN INLET
02	1"	SOC	CLIENT WATER SUPPLY
03	1"	SOC	TO CLIENT DRAIN
04	11"	N/A	VESSEL EXHAUST



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ANGLES ± 1.0°		SCALE: 1:15
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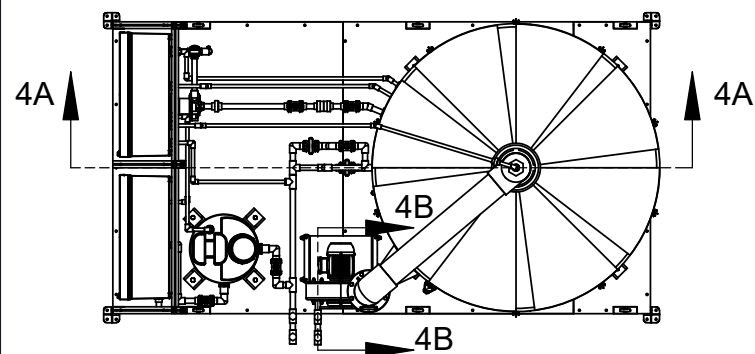
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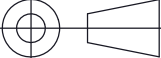


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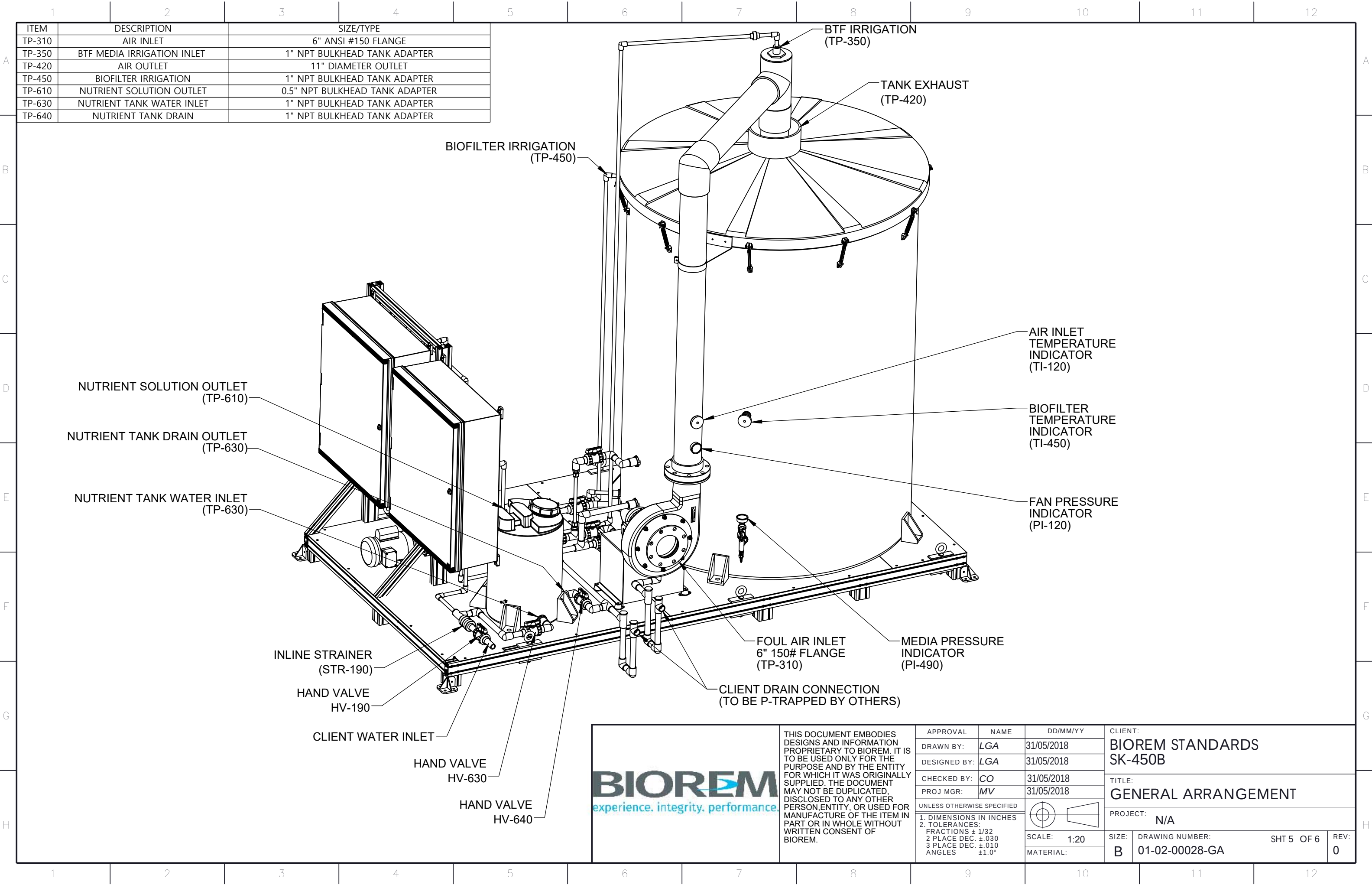
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ITEM	DESCRIPTION	SIZE/TYPE
TP-310	AIR INLET	6" ANSI #150 FLANGE
TP-350	BTF MEDIA IRRIGATION INLET	1" NPT BULKHEAD TANK ADAPTER
TP-420	AIR OUTLET	11" DIAMETER OUTLET
TP-450	BIOFILTER IRRIGATION	1" NPT BULKHEAD TANK ADAPTER
TP-610	NUTRIENT SOLUTION OUTLET	0.5" NPT BULKHEAD TANK ADAPTER
TP-630	NUTRIENT TANK WATER INLET	1" NPT BULKHEAD TANK ADAPTER
TP-640	NUTRIENT TANK DRAIN	1" NPT BULKHEAD TANK ADAPTER



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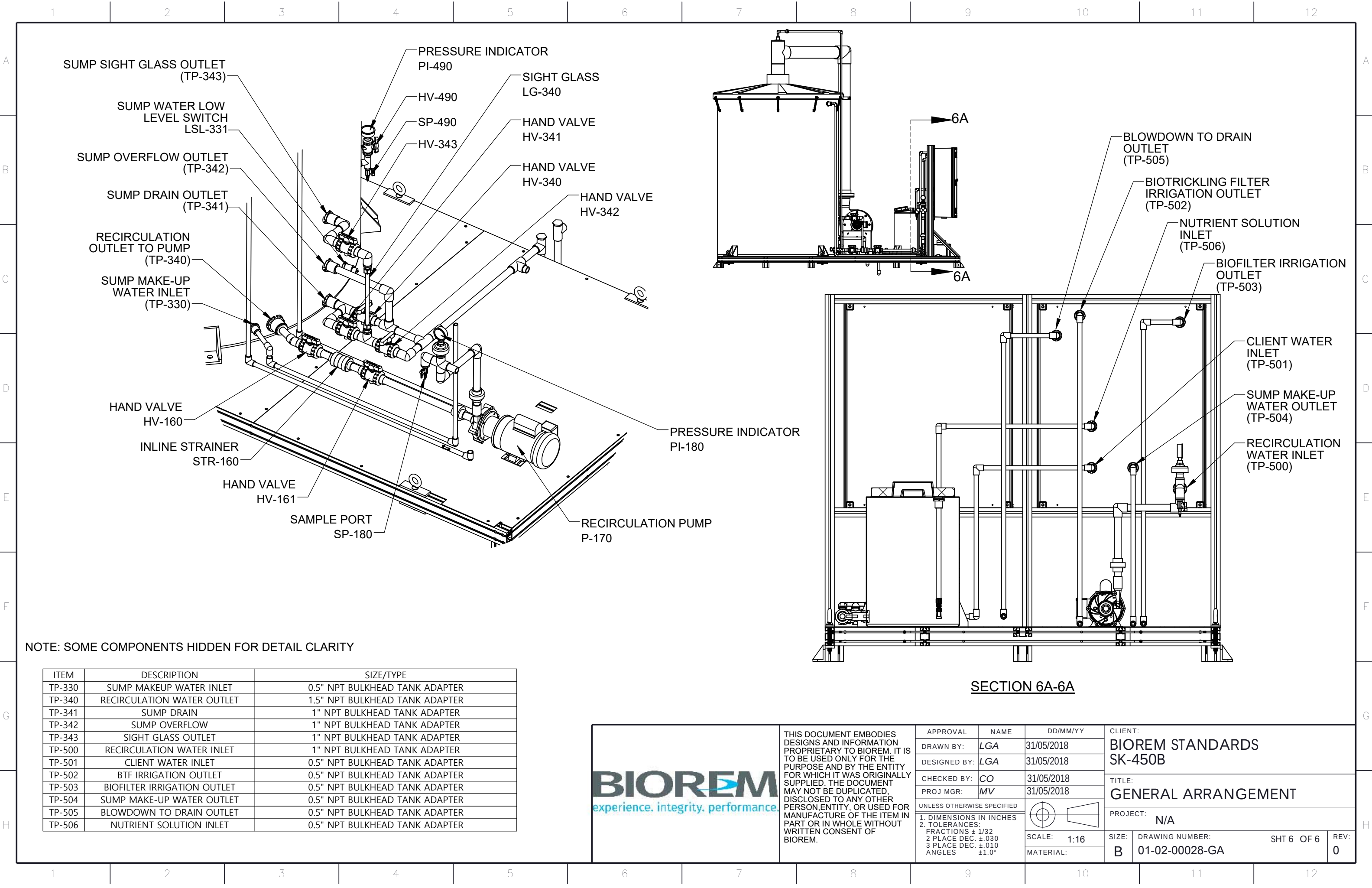
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ANGLES ± 1.0°		



SCALE: 1:20

MATERIAL:

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GENERAL ARRANGEMENT	
PROJECT:	
N/A	
SIZE:	DRAWING NUMBER:
B	01-02-00028-GA
SHT 5 OF 6	REV:
	0



NOTE: SOME COMPONENTS HIDDEN FOR DETAIL CLARITY

ITEM	DESCRIPTION	SIZE/TYPE
TP-330	SUMP MAKEUP WATER INLET	0.5" NPT BULKHEAD TANK ADAPTER
TP-340	RECIRCULATION WATER OUTLET	1.5" NPT BULKHEAD TANK ADAPTER
TP-341	SUMP DRAIN	1" NPT BULKHEAD TANK ADAPTER
TP-342	SUMP OVERFLOW	1" NPT BULKHEAD TANK ADAPTER
TP-343	SIGHT GLASS OUTLET	1" NPT BULKHEAD TANK ADAPTER
TP-500	RECIRCULATION WATER INLET	1" NPT BULKHEAD TANK ADAPTER
TP-501	CLIENT WATER INLET	0.5" NPT BULKHEAD TANK ADAPTER
TP-502	BTF IRRIGATION OUTLET	0.5" NPT BULKHEAD TANK ADAPTER
TP-503	BIOFILTER IRRIGATION OUTLET	0.5" NPT BULKHEAD TANK ADAPTER
TP-504	SUMP MAKE-UP WATER OUTLET	0.5" NPT BULKHEAD TANK ADAPTER
TP-505	BLOWDOWN TO DRAIN OUTLET	0.5" NPT BULKHEAD TANK ADAPTER
TP-506	NUTRIENT SOLUTION INLET	0.5" NPT BULKHEAD TANK ADAPTER



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			SK-450B		
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PROJECT:			N/A		
SIZE:	DRAWING NUMBER:	SHT 6 OF 6	REV:		
B	01-02-00028-GA		0		



Terms and Conditions

Pricing: Unless otherwise specified in writing by BIOREM, price does not include any taxes, excises, duties, tariffs or other governmental charges which BIOREM may be required to pay or collect under existing or future law with respect to the sale, transportation, delivery, storage, installation or use of any of the equipment sold by BIOREM.

Cancellation: Unless otherwise agreed in writing by the parties, the Buyer may not cancel the Order, except upon written notice and payment to Seller of an amount covering all costs incurred under the Order, all costs which arose out of the cancellation, and a cancellation fee of 50% of the Order Price. Materials received and Goods manufactured in part or whole under the Order prior to the time of cancellation shall be retained by and shall be property of the seller. When calculating the cancellation related costs, payments made by buyer to seller prior to cancellation shall be taken into account.

Limitation of liability: Seller's liability to the price allocable to the goods determined defective, and in no event will seller's cumulative liability be in excess of the total sales order price, whether arising under warranty, contract, negligence, strict liability, indemnification, or any other cause or combination of causes whatsoever. Seller will not be liable for any special, indirect, incidental, or consequential damages or indemnification, or any other cause or combination of causes whatsoever. This limitation shall apply notwithstanding any failure of essential purpose of any limited remedy. Buyer's remedies are specifically limited to the repair or replacement of the goods and is exclusive of all other remedies. Should these remedies be found inadequate or to have failed their essential purpose for any reason whatsoever, buyer agrees that return of the full sales order price to it by seller shall prevent remedies from failing their essential purpose and shall be considered by buyer as a fair and adequate remedy.

EXPERIENCE MATTERS

With more than 25 years of solving the most difficult air emissions challenges under adverse process conditions and intense scrutiny from customers, regulators and communities; each new project builds upon this immense knowledge base. As engineers, our goal is to continually innovate and improve so that your project benefits from the best available technology for superior results.

INTEGRITY RULES

BIOREM has established a rigorous code of ethics that upholds the highest level of ethical conduct, standards of practice and integrity pertaining to our professional duties. Anti-corruption measures are applied to all our projects from RFP through to commissioning and ongoing support.

Our partnerships with consulting engineers, contractors, municipalities, industry, suppliers and government regulators are carefully scrutinized and monitored to ensure our worldwide reputation for fair and transparent transactions is protected. We reserve the right to refuse business based on ethical considerations.

PERFORMANCE GUARANTEED

We guarantee that the performance of our products and systems will meet or exceed your expectations. From initial discussions where we learn about the problems that you need solving, through to expert assessments, precision manufacturing, timely distribution, user-friendly training and complete administrative support, we hold ourselves to the highest standards.

It is our promise to you

experience.

integrity.

performance.

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