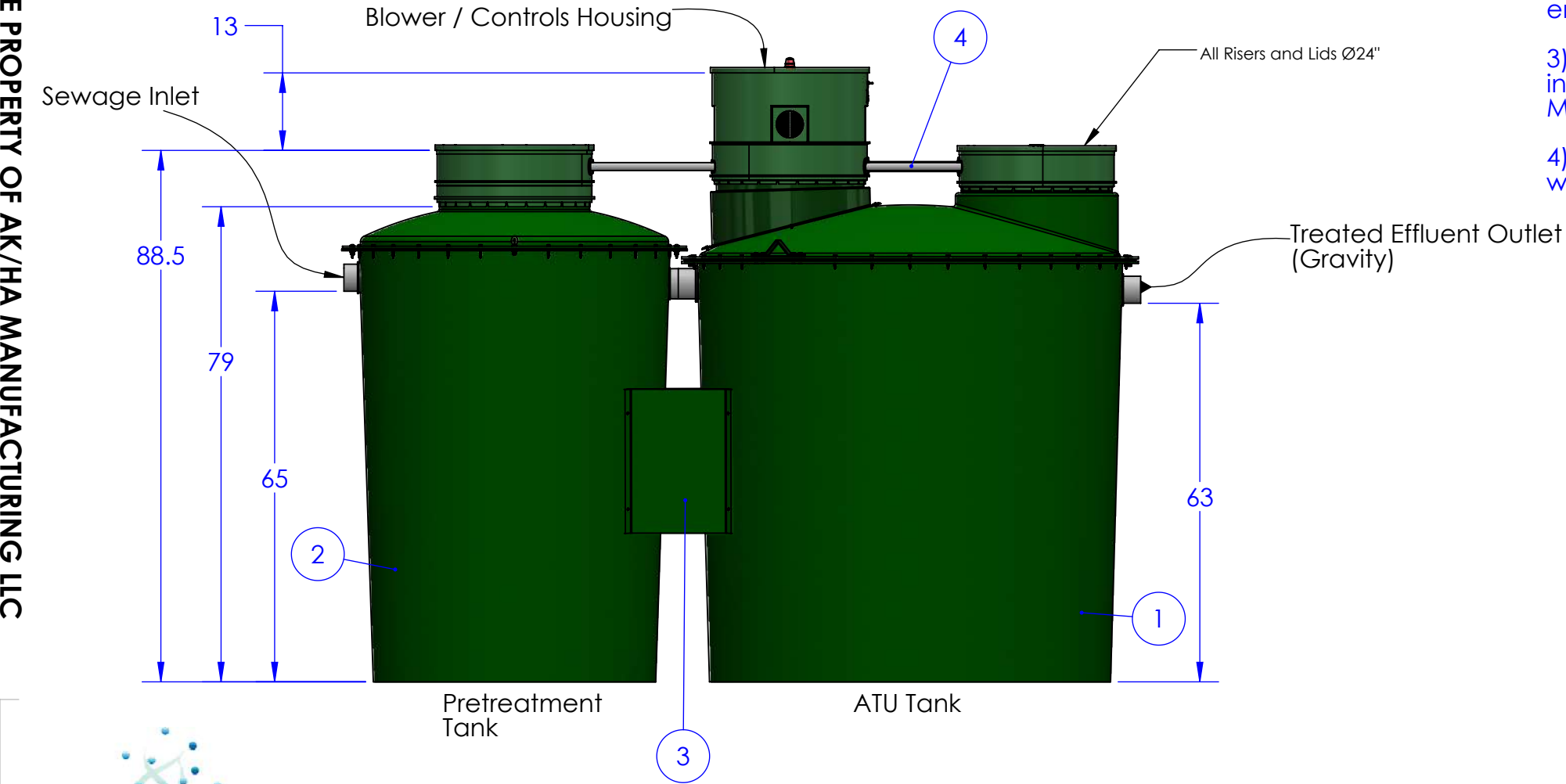
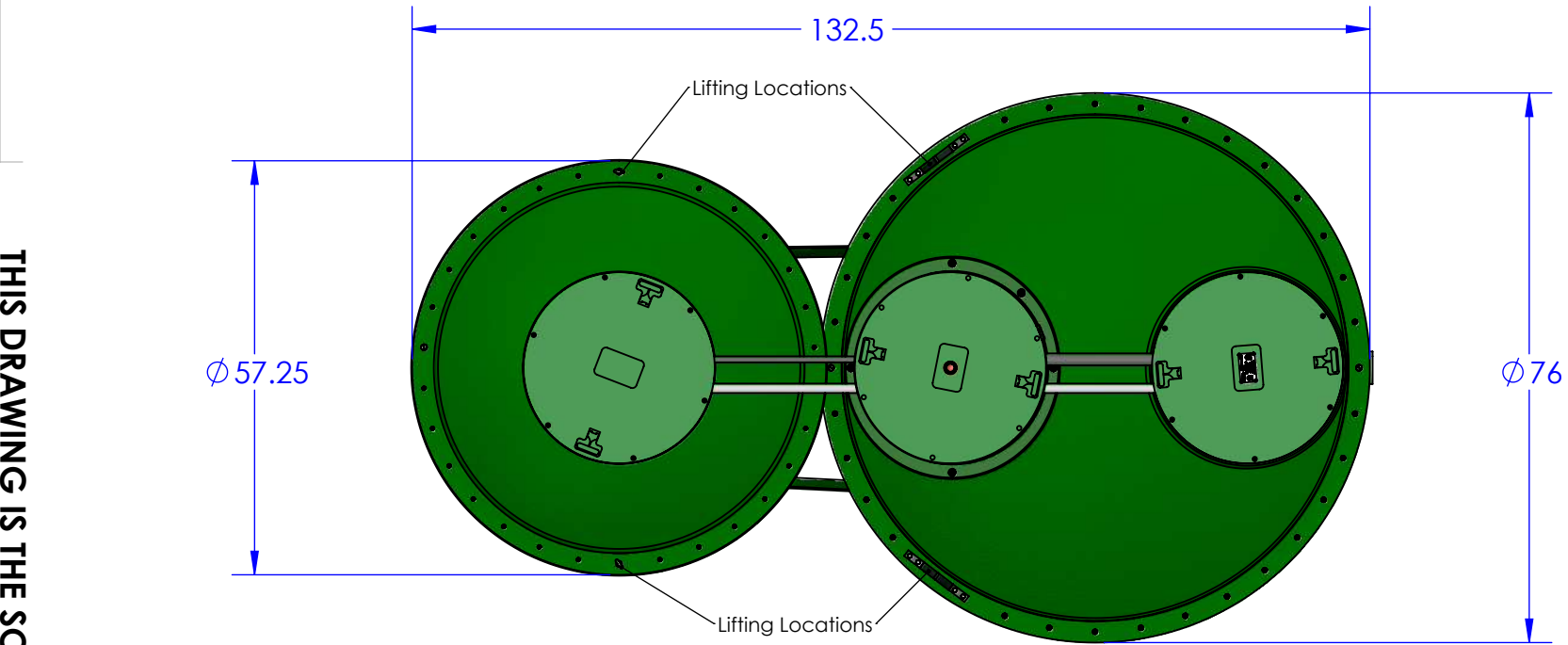


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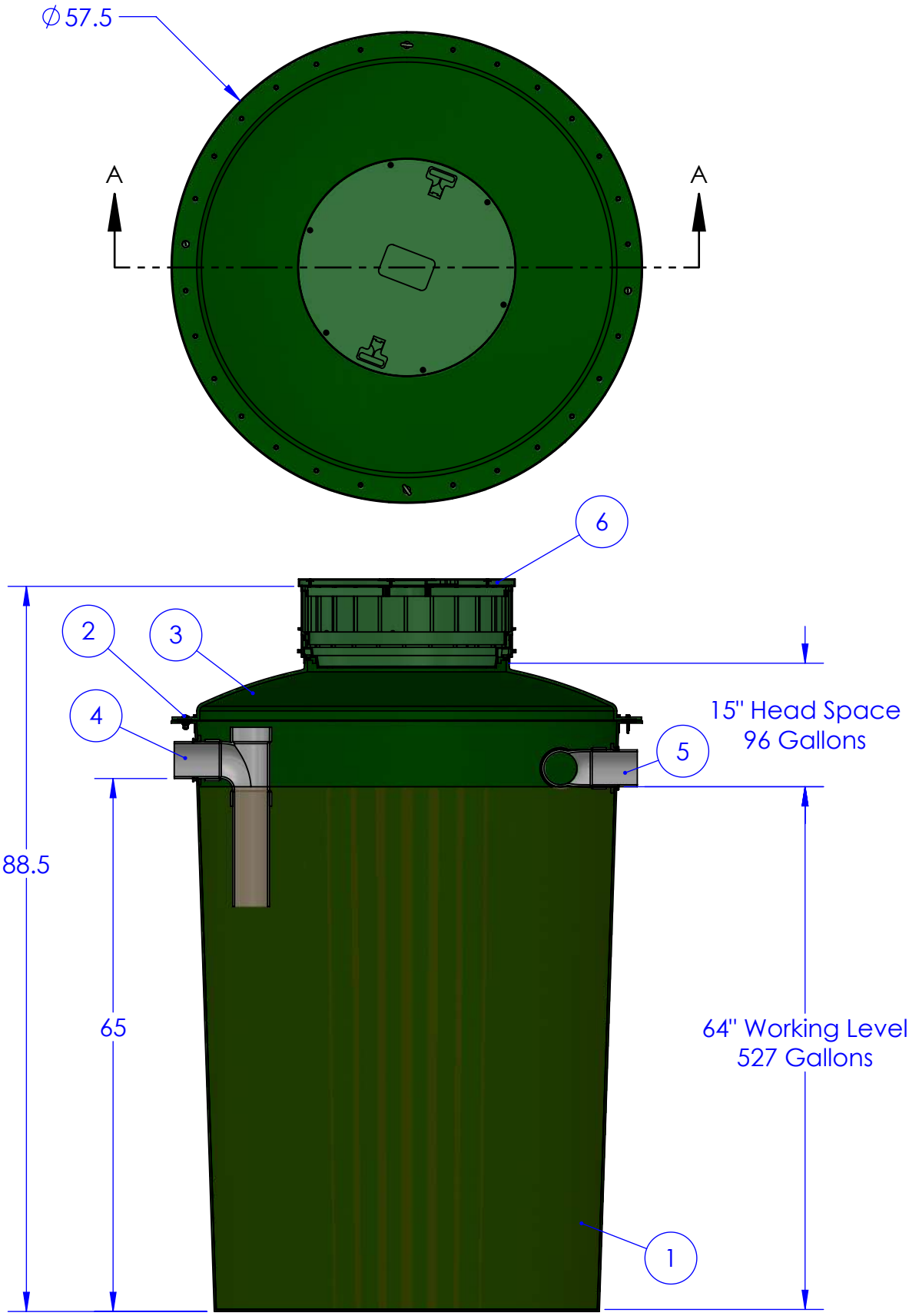
ITEM NO.	Part Number	DESCRIPTION	QTY.
1	HA-AN500-P	Tank, AN500 245 ATU (AP600)	1
2	HA-180055	Tank, AN500 245 Pretreatment Complete (PP500)	1
3	HA-130002	Kit, SNG 2 Tank Connecting Standard	1
4	HA-130053	Assembly, Re-Circulation AN-500 245 Complete	1

- 1) All auxiliary plumbing, wiring, and installation methods must conform to all country, state, province, and local code.
- 2) All plumbing and connections to be plumbed with SCH 40 pipe or equivalent.
- 3) All manufacturer pipe and conduit penetrations are sealed with Adapt-A-Flex grommets to prevent water ingress/egress.
- 4) All manufacturer electrical connections are terminated in NEMA rated enclosures with NEMA rated cord grips. (NEMA 4X Min)
- 3) For details pertaining to installation requirements, (tank assembly, internal plumbing connections, wiring etc) see HydroAction Installation Manual, and System detail prints.
- 4) Any additional questions pertaining to HydroAction AN series wastewater treatment systems, contact HydroAction.

Hydro-Action Specifications	
Model	AN-500
Daily Treatment Capacity	550 Gallons
Total System Working Volume	1505 Gallons
Primary Treatment WorkingVolume	527 Gallons
Aerobic Working Volume	754 Gallons
Clarifier Working Volume	224 Gallons
Treatment Certification	NSF 245
Supply Power Requirement	1 Phase 120VAC 60Hz 20Amp
Air Supply	HiBlow HP-100 / 3.5 CFM
Tank Material	Fiberglass
Clarifier Material	Fiberglass
Blower / Controls Housing	Polyethylene



Print / Part Number HA-180055	Description Tank, AN500 245 Pretreatment Complete (PP500)	Revision	Date
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ITEM NO.	Part Number	DESCRIPTION	QTY.
1	HA-180073	Tank, Body Pre/Pump 500 Gallon	1
2	HA-130070	Kit, Small Pretreat Tank/Dome	1
3	HA-180026	Dome, PP500 / LPP300 TWM (No Riser)	1
4	HA-100102	Assembly, Plumbing Inlet PP	1
5	HA-100101-AN	Assembly, Plumbing Outlet AN PP	1
6	HA-130062	Kit, Lid/Riser HVY Pre/Pump	1

Tank body and dome are constructed of filament wound and spray chopped fiberglass

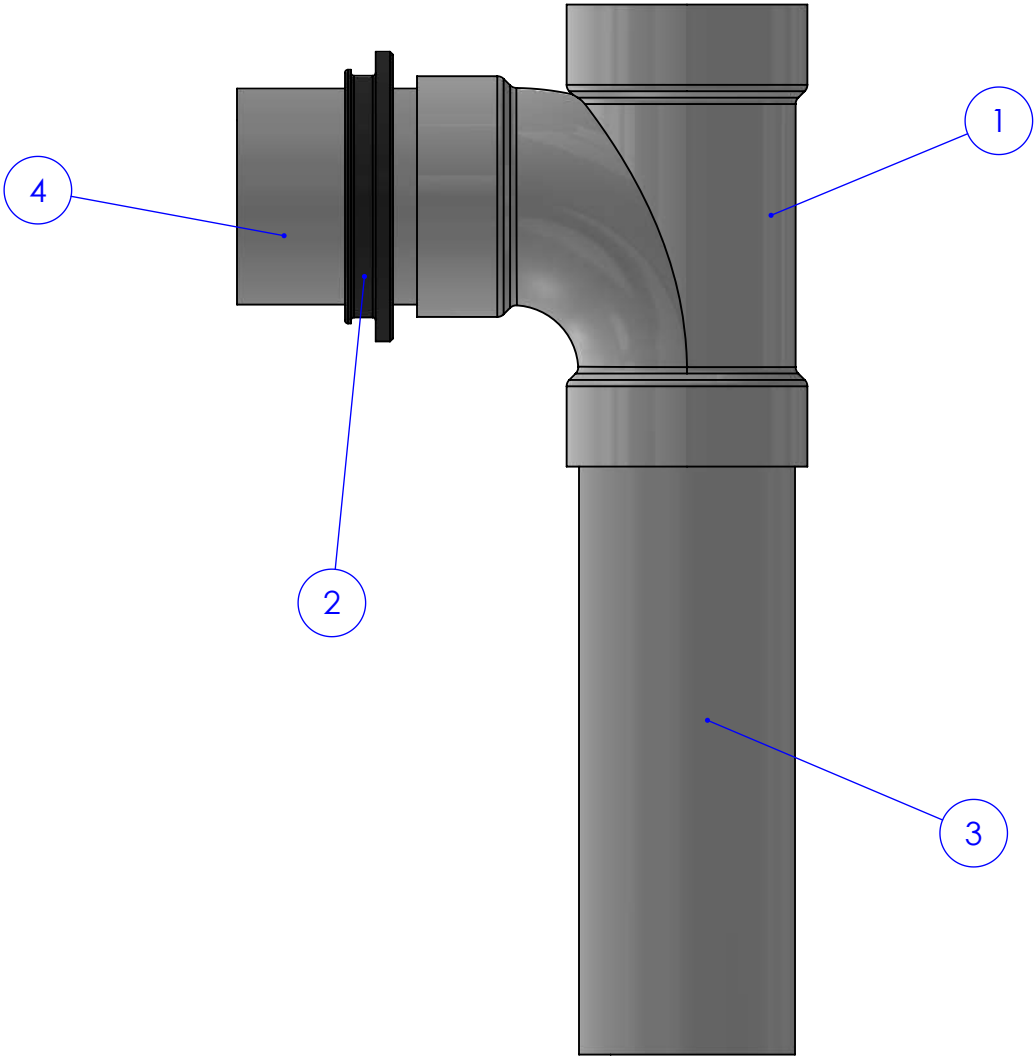
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Print / Part Number	Description	Revision	Date
HA-100102	Assembly, Plumbing Inlet PP		3/20/2023

ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	180125	Tee, Sanitary 4" Sch40	1	
2	AKR50675	Grommet, 4.00" Adapt-A-Flex Sch40 OS	1	
3	100025	Pipe, 4" PVC Sch40	1	14in
4	100025	Pipe, 4" PVC Sch40	1	5.5in



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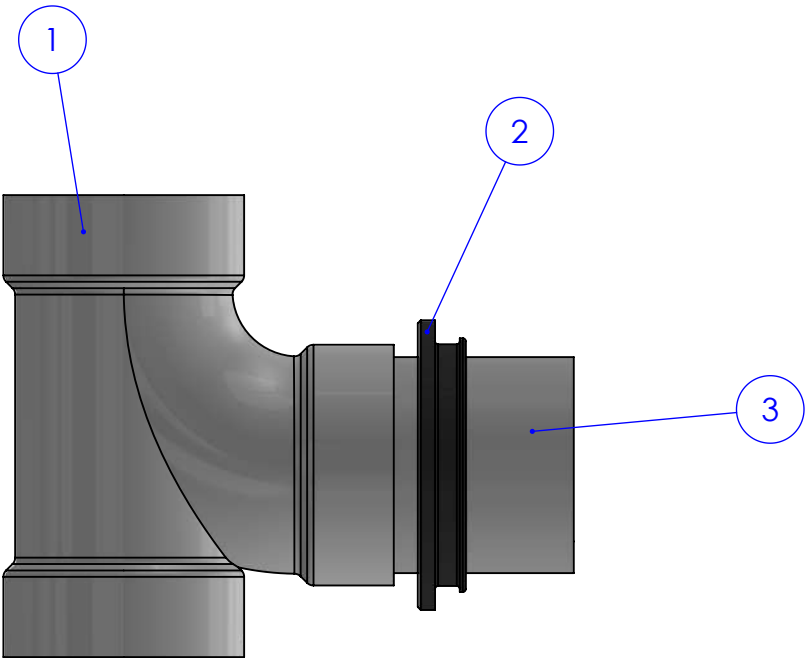


Drawn by T.Genshock	Scale 1:4	Sheet 3: 19	Material	Weight	Tolerances Unless Otherwise Specified ±0.125" or 1°	Signature
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Print / Part Number	Description	Revision	Date
HA-100101-AN	Assembly, Plumbing Outlet AN PP		3/20/2023

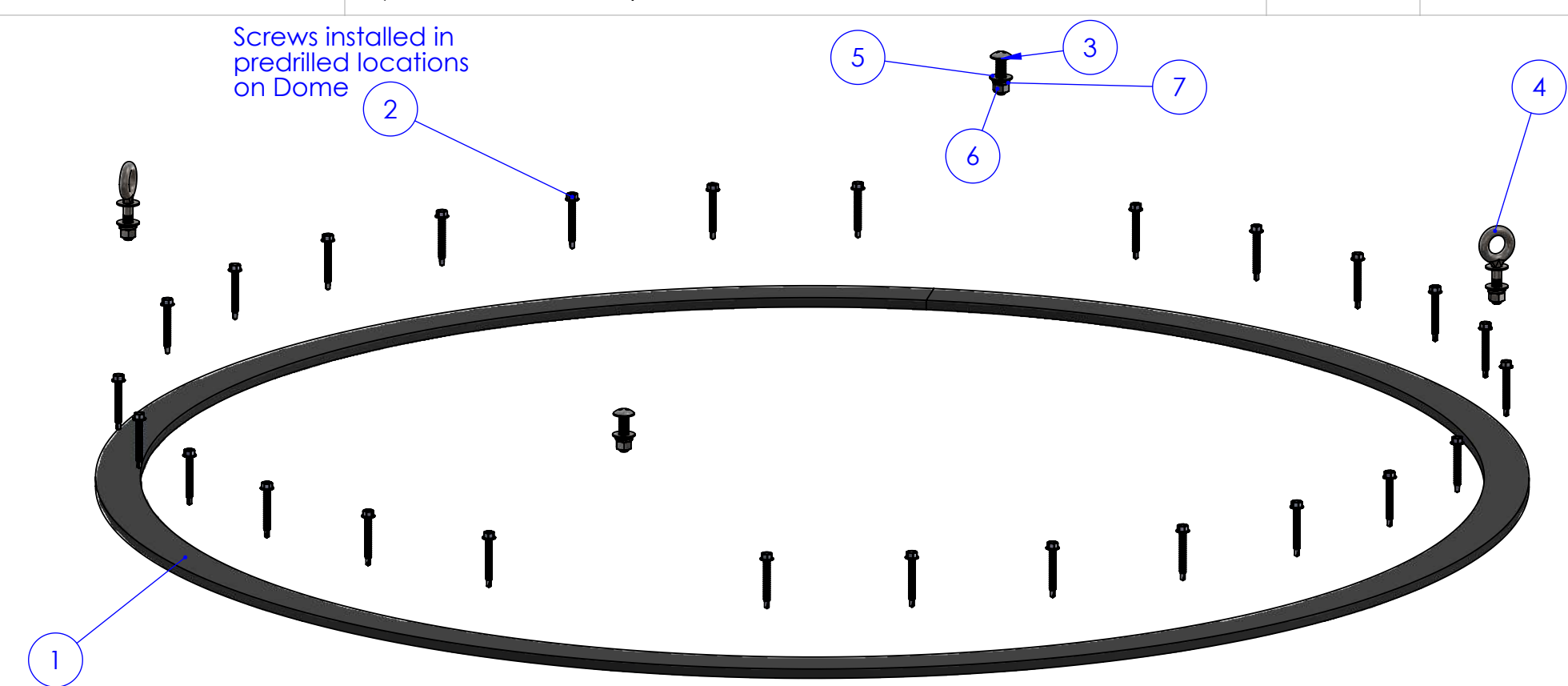
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ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	180125	Tee, Sanitary 4" Sch40	1	
2	AKR50675	Grommet, 4.00" Adapt-A-Flex Sch40 OS	1	
3	100025	Pipe, 4" PVC Sch40	1	5.5in



Drawn by T.Genshock	Scale 1:4	Sheet 4: 19	Material	Weight	Tolerances Unless Otherwise Specified ±0.125" or 1°	Signature
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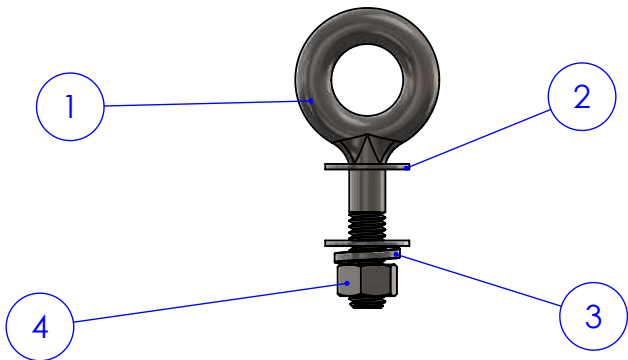
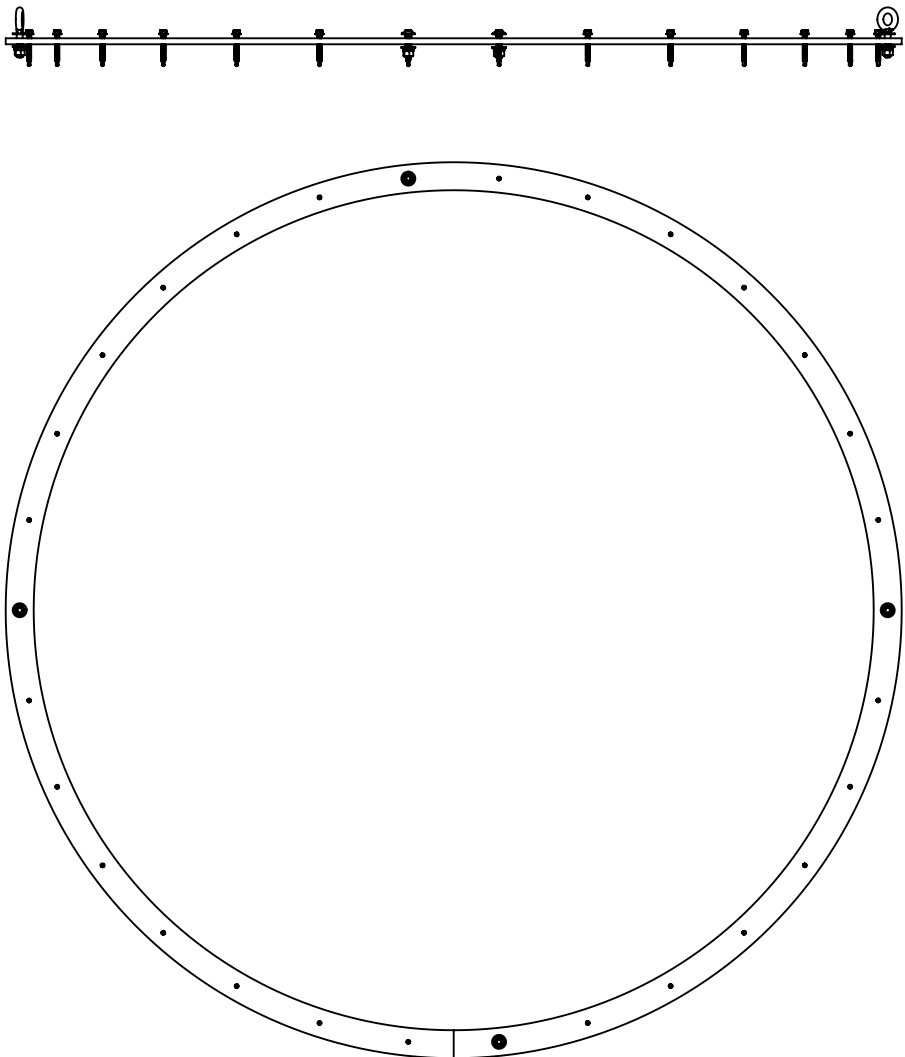
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Seal is to be adhered to tank flange prior to installing fasteners

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	160033	Gasket, 3/8" x 1-3/4" x 50' Black	1
2	200095	Screw, 5/16 x 2 HWH SDS 410	26
3	760068	Bolt, 3/8-16 x 1-1/2 SS Spanner	2
4	HA-120001	Assy, Eyebolt	2
5	200006	Washer, 3/8 Standard SS	2
6	200013	Nut, 3/8-16 Stainless Steel	2
7	200034	Washer, SS 3/8 LockWasher	2

All fasteners made of Stainless Steel, may be slightly ferrous.

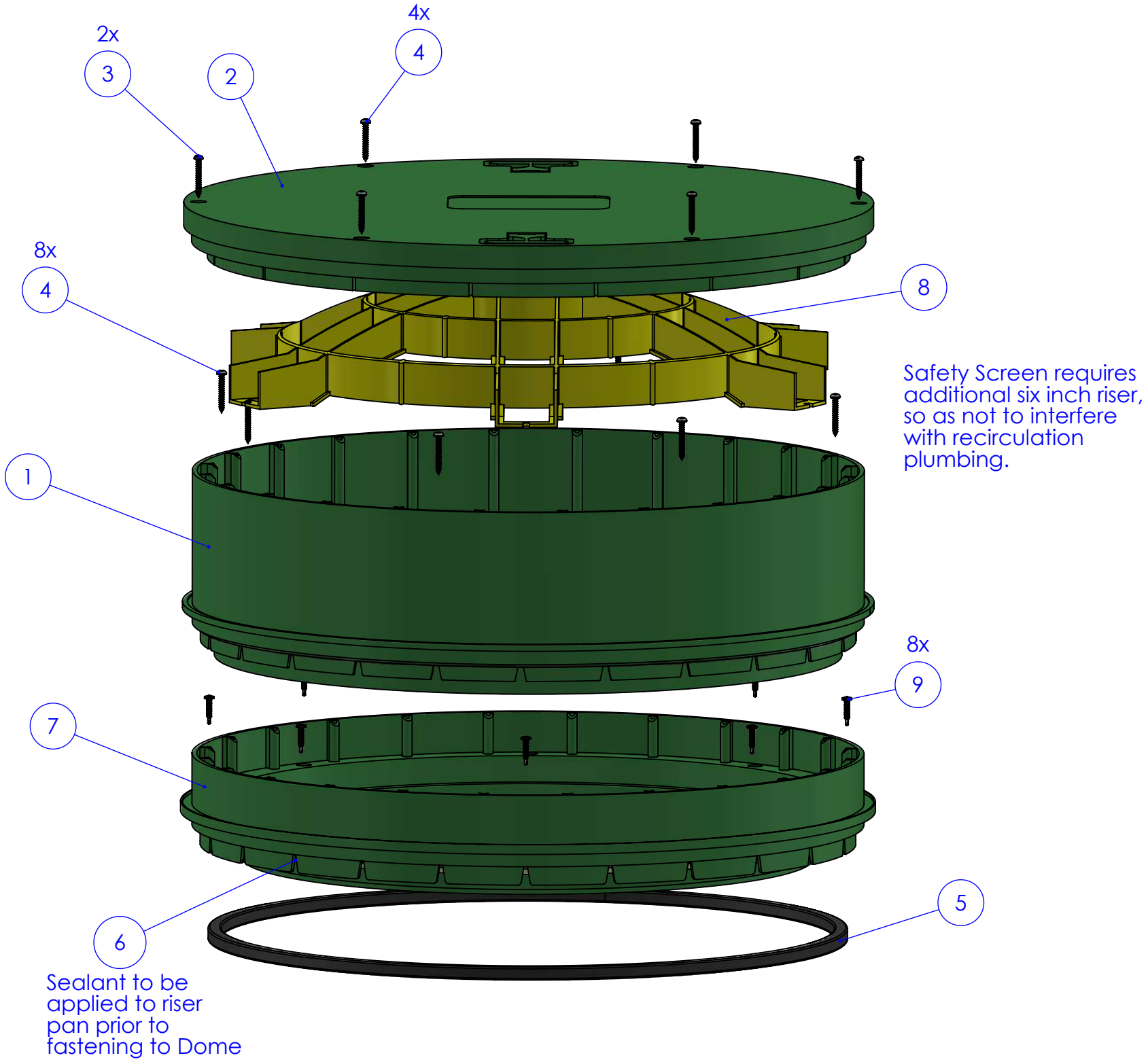


HA-120001

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	200091	Bolt, Eye 3/8-16 x 1-1/2 SS	1
2	200006	Washer, 3/8 Standard SS	2
3	200034	Washer, SS 3/8 LockWasher	1
4	200013	Nut, 3/8-16 Stainless Steel	1

Print / Part Number HA-130062	Description Kit, Lid/Riser HVY Pre/Pump	Revision	Date	
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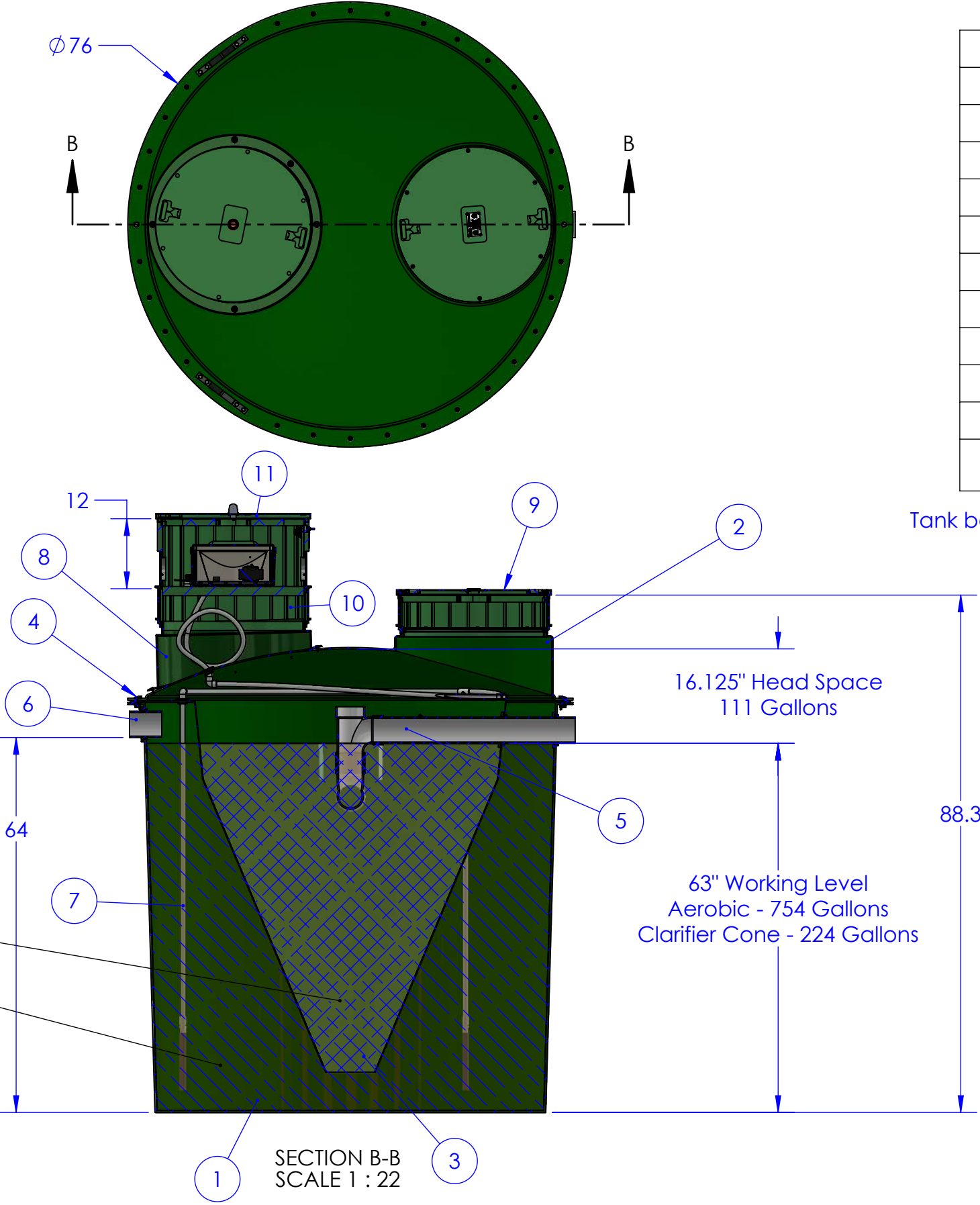
ITEM NO.	Part Number	DESCRIPTION	QTY.
1	241022	Riser, Tank 24" x 6" PL	1
2	120184	Cover, 24" 3008-West	1
3	200070	Screw, 1-1/2" #10 TriGroove SM	2
4	200075	Square-Drive Rounded Head Screws for Sheet Metal	12
5	160034	Gasket, 1/2" x 21' Conseal	1
6	HA-100000	Sealant, SikaFlex 1A	1
7	240036	RISER SAFETY PAN (24 X 3)	1
8	700080	SAFETY SCREEN, 3008-SS 24"	1
9	200059	Screw, 1" #10 Self Tap PPH SS	8

* All fasteners are made of stainless steal, may be slightly ferrous.



Drawn by	Scale 1:8	Sheet 6:19	Material	Weight	Tolerances Unless Otherwise Specified	Signature
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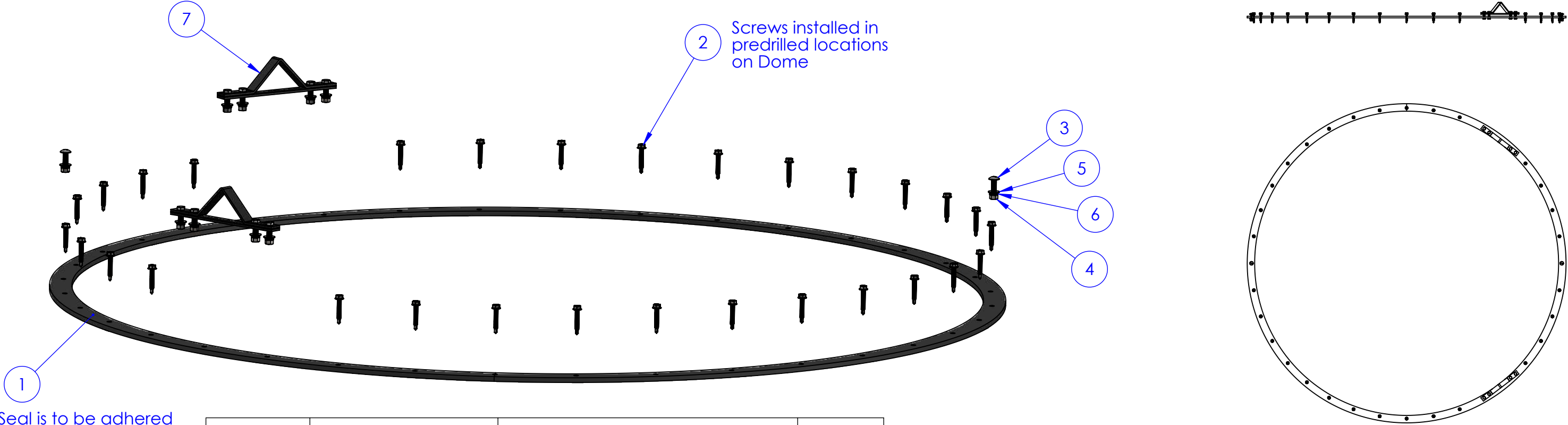


ITEM NO.	Part Number	DESCRIPTION	QTY.
1	HA-180076	Tank, Body AP600 / PP1000	1
2	HA-180030-R	Dome, AP600 / PP1000	1
3	HA-180041	Cone, Fiberglass AP600 / AN500	1
4	HA-130072	Kit, Small ATU Tank/Dome/Cone	1
5	HA-100071	Assembly, Outlet ATU	1
6	HA-100066	Assembly, Inlet AN ATU	1
7	HA-100058-3DRP	Assembly, Diffuser (3) Drop	1
8	HA-170053	Base, 24" Circle Ops	1
9	HA-130063	Kit, Lid/Riser HVY ATU	1
10	241022	Riser, Tank 24" x 6" PL	1
11	EC50-30-L-100-PLC	Assembly, Ops Nitrogen Reduction AN500	1

Tank body and dome are constructed of filament wound and spray chopped fiberglass



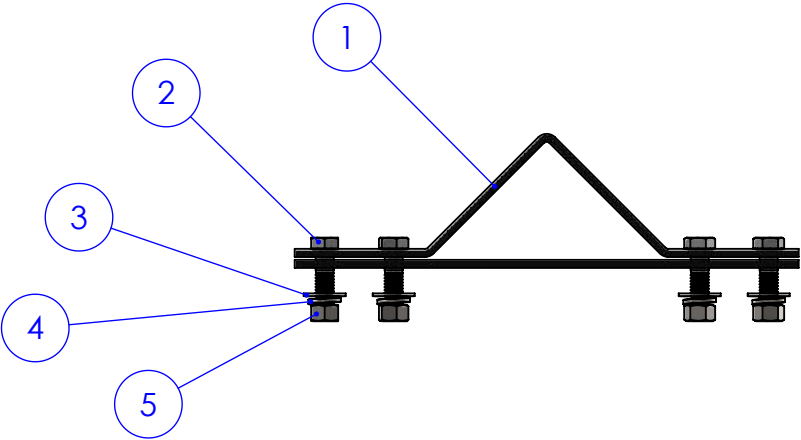
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Seal is to be adhered to tank flange prior to installing fasteners

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	160033	Gasket, 3/8" x 1-3/4" x 50' Black	1
2	200095	Screw, 5/16 x 2 HWH SDS 410	30
3	760068	Bolt, 3/8-16 x 1-1/2 SS Spanner	2
4	200013	Nut, 3/8-16 Stainless Steel	2
5	200006	Washer, 3/8 Standard SS	2
6	200034	Washer, SS 3/8 LockWasher	2
7	HA-130001	Lifting Lug Set	2

All fasteners made of Stainless Steel, may be slightly ferrous.



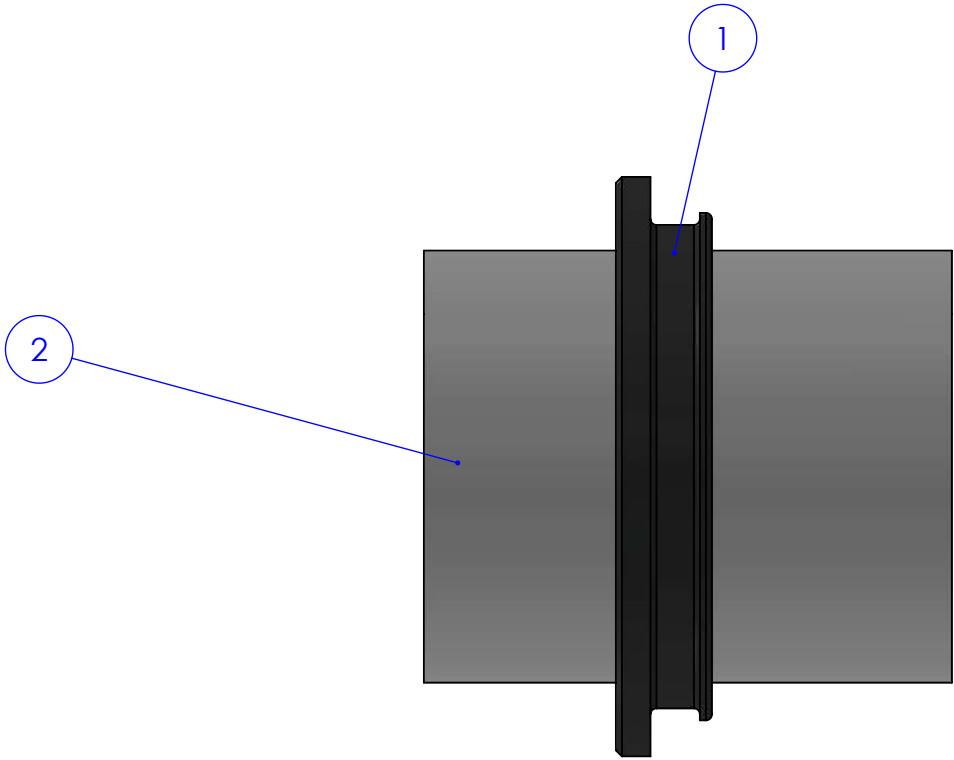
HA-130001

ITEM NO.	Part Number	DESCRIPTION	QTY.
1	AKR43800	Bracket, Lifting Lug	1
2	760063	Bolt, 3/8-16 x 1-1/2" SS HHCS AT	4
3	200006	Washer, 3/8 Standard SS	4
4	200034	Washer, SS 3/8 LockWasher	4
5	200013	Nut, 3/8-16 Stainless Steel	4

Print / Part Number HA-100066	Description Assembly, Inlet AN ATU	Revision	Date
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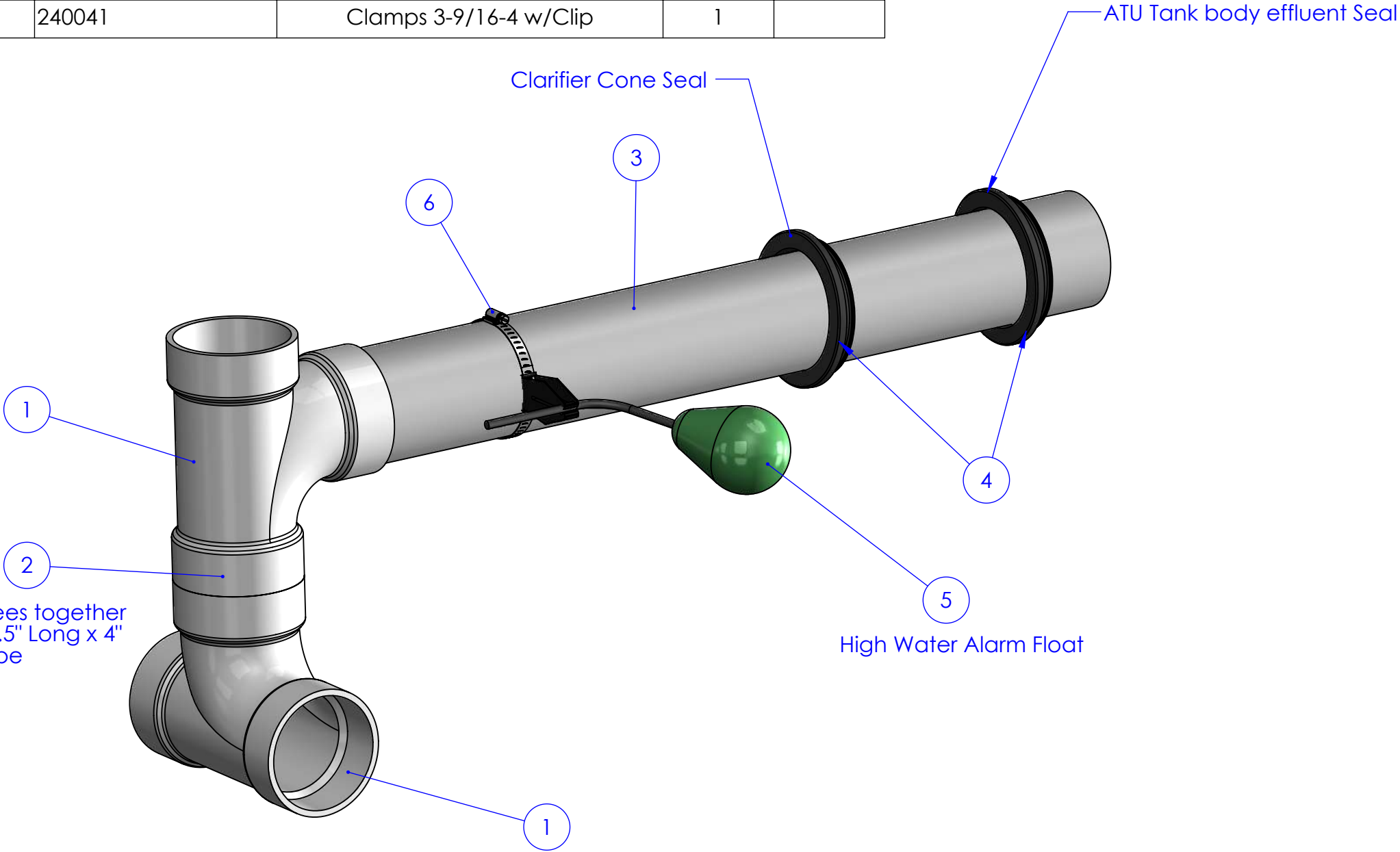
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ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	AKR50675	Grommet, 4.00" Adapt-A-Flex Sch40 OS	1	
2	100025	Pipe, 4" PVC Sch40	1	5.5in



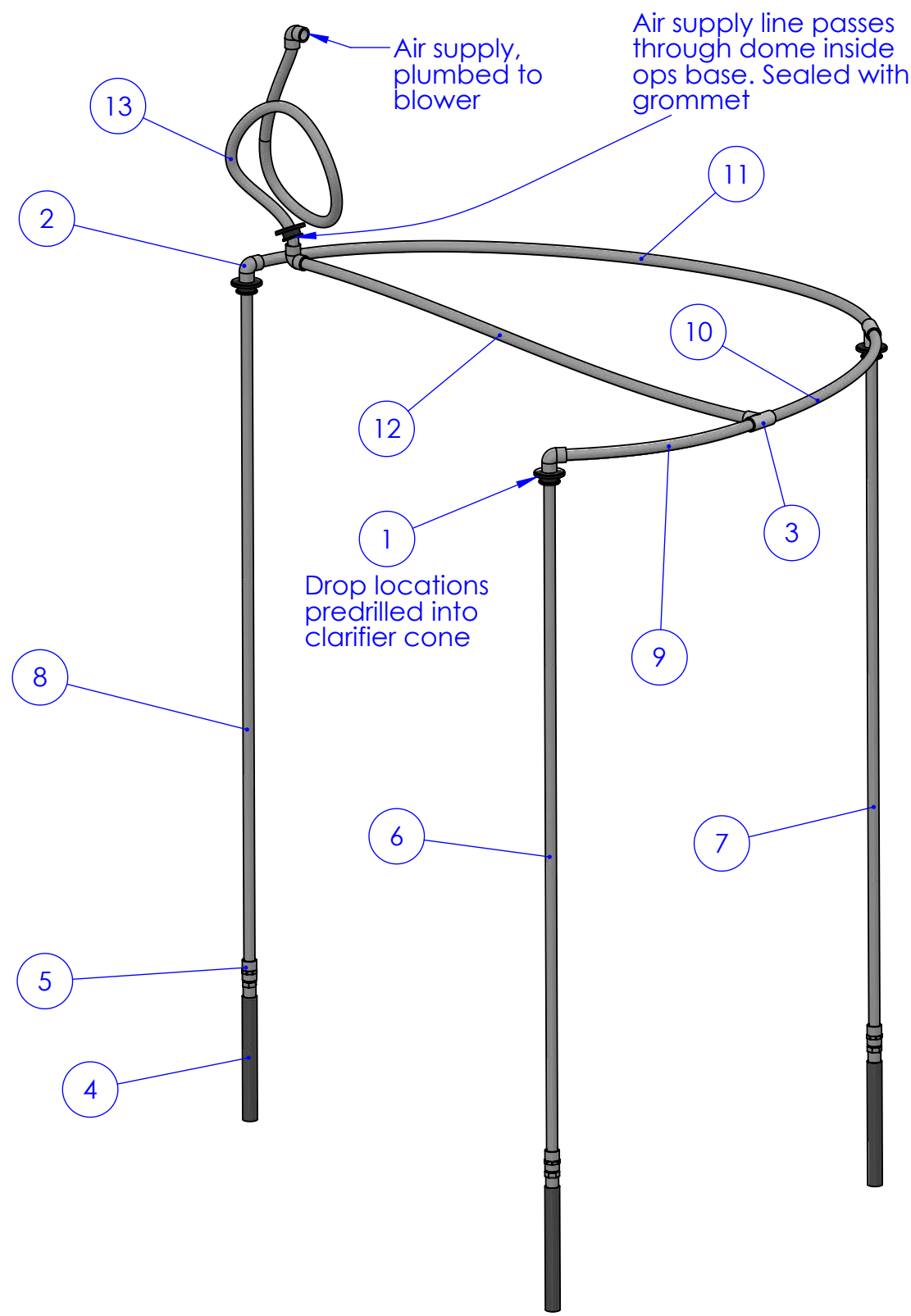
Drawn by	Scale 1:2	Sheet 9: 19	Material	Weight	Tolerances Unless Otherwise Specified	Signature
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ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	180125	Tee, Sanitary 4" Sch40	2	
2	100025	Pipe, 4" PVC Sch40	1	3.5in
3	100025	Pipe, 4" PVC Sch40	1	34.5in
4	AKR50675	Grommet, 4.00" Adapt-A-Flex Sch40 OS	2	
5	120044	Switch, Float MM 20' Green	1	
6	240041	Clamps 3-9/16-4 w/Clip	1	



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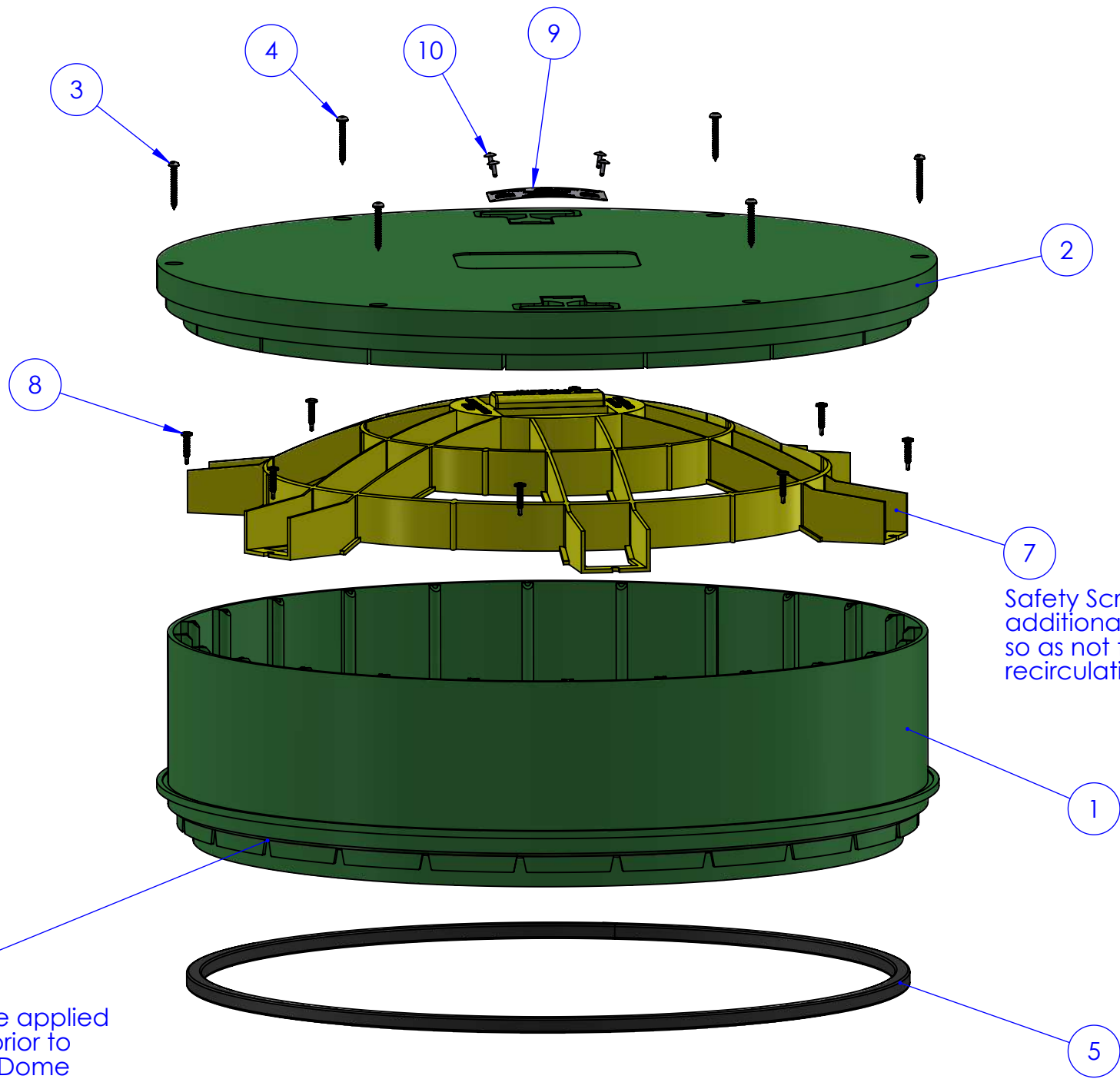
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ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	AKR50030	Grommet, 1/2" Adapt-A-Flex	4	
2	180103	Elbow, 90 Degree 1/2" Sch40 PVC SxS	4	
3	180100	Tee, 1/2" Sch40 PVC SxSxS	2	
4	100033	Diffuser, Air	1	
5	180099	Adapter, Female 1/2" Sch40 PVC	1	
6	180114	Pipe, 1/2" Sch40 PVC	1	55.5in
7	180114	Pipe, 1/2" Sch40 PVC	1	55.5in
8	180114	Pipe, 1/2" Sch40 PVC	1	55.5in
9	700041	Hose, Spa Flex Sch40 PVC	1	20.19in
10	700041	Hose, Spa Flex Sch40 PVC	1	22.824in
11	700041	Hose, Spa Flex Sch40 PVC	1	58.538in
12	700041	Hose, Spa Flex Sch40 PVC	1	50.101in
13	700041	Hose, Spa Flex Sch40 PVC	1	52.569in



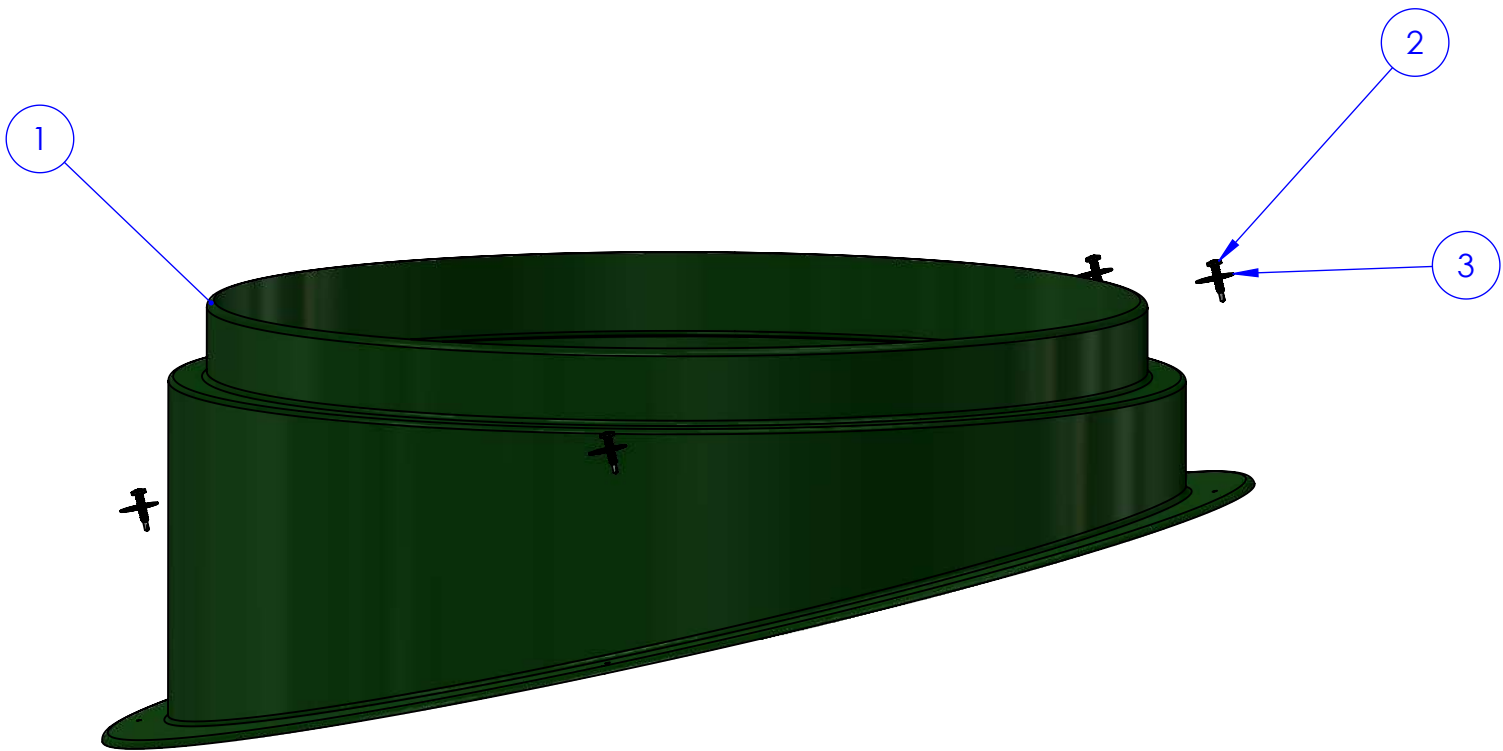
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ITEM NO.	Part Number	DESCRIPTION	QTY.
1	241022	Riser, Tank 24" x 6" PL	1
2	120184	Cover, 24" 3008-West	1
3	200070	Screw, 1-1/2" #10 TriGroove SM	2
4	200075	Square-Drive Rounded Head Screws for Sheet Metal	4
5	160034	Gasket, 1/2" x 21' Conseal	1
6	HA-100000	Sealant, SikaFlex 1A	1
7	700080	SAFETY SCREEN, 3008-SS 24"	1
8	200059	Screw, 1" #10 Self Tap PPH SS	8
9	Tag Serial Number AN500	TAG, AN DATA PLATE	1
10	200025	Rivet, 1/8" Grip 1/8" Dia. Pop	4

* All fasteners are made of stainless steal, may be slightly ferrous.

Print / Part Number HA-170053	Description Base, 24" Circle Ops	Revision	Date
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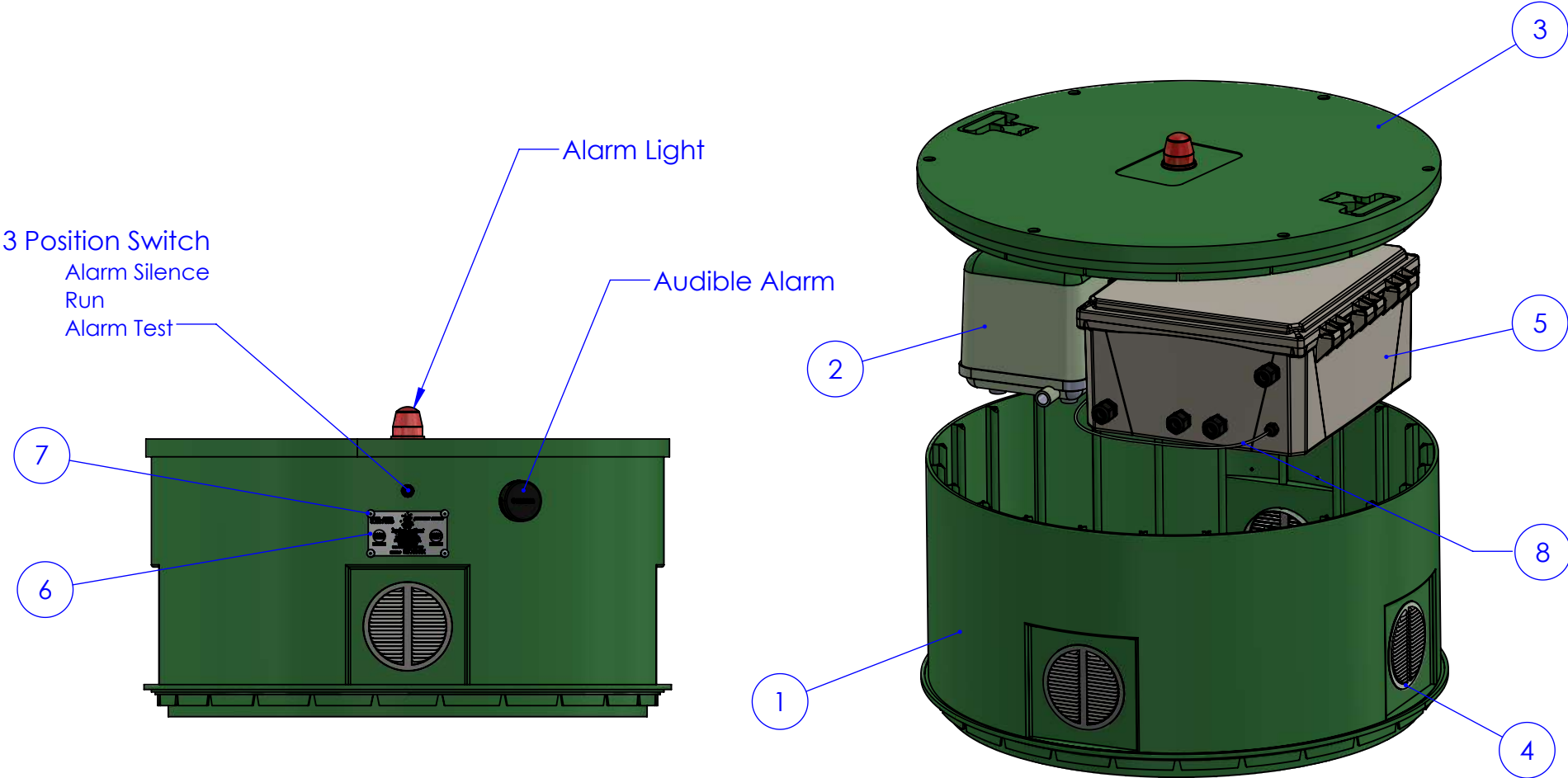
ITEM NO.	Part Number	DESCRIPTION	QTY.
1	HA-170053	AK / CIRCLE OPS / DK. GREEN	1
2	200059	Screw, 1" #10 Self Tap PPH SS	5
3	200051	Washer, 1" x #10 Fender	5

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ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	HA-160029	Basin, 24"x12" PL w/Louvers and Holes	1	
2	100122	Hiblow HP-100 Air Pump	1	
3	120184	Cover, 24" 3008-West	1	
4	240040	Vent, Louver 4" Round CV-4	4	
5	120105	Panel, Spray/Dose ReCirculation	1	
6	AN500 Data Plate	TAG, AN DATA PLATE	1	
7	200025	Rivet, 1/8" Grip 1/8" Dia. Pop	4	
8	200111	Tubing, Clear 6mm	1	23.404in

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Component Breakers				
CB1 - Spray Pump	CB2 - ReCirc Pump	CB3 - Mixer Pump	CB4 - Blower	CB5 - PLC/Relays
20 Amp	20 Amp	20 Amp	10 Amp	10 Amp

Control Panel Enclosure
NEMA: 1, 2, 3, 3R, 4, 4X, 5, 12, 13

Supply Power Terminal		
Service - 120VAC Single Phase 30 Amp		
L1	N	

Ground Bar

Water Tight Cord Grip x 4
NEMA: 4X, 6, 12

Supply Power

Pretreat Tank Whip

Dosing Tank Whip
Aerobic Tank Whip

SP1	N	RP1	N	MP1	N	C1	N	1	2	3	4	5	6
Spray Pump Float (Black)	Spray Pump Float (White)	ReCirc Pump Float (Black)	ReCirc Pump Float (White)	Mixer Pump Float (Black)	Mixer Pump Float (White)	Blower (Black)	Blower N (White)	Recirc Timer Float	Recirc Timer Float	Spray Timer Override Float	Spray Timer Override Float	High Water Alarm Float	High Water Alarm Float

Pump Indicator Lights

Recirc Pump Current Sensor

PLC

CM1 - Spray Pump Relay

CM2 - Recirc Pump Relay

CM3 - Mixer Pump Relay

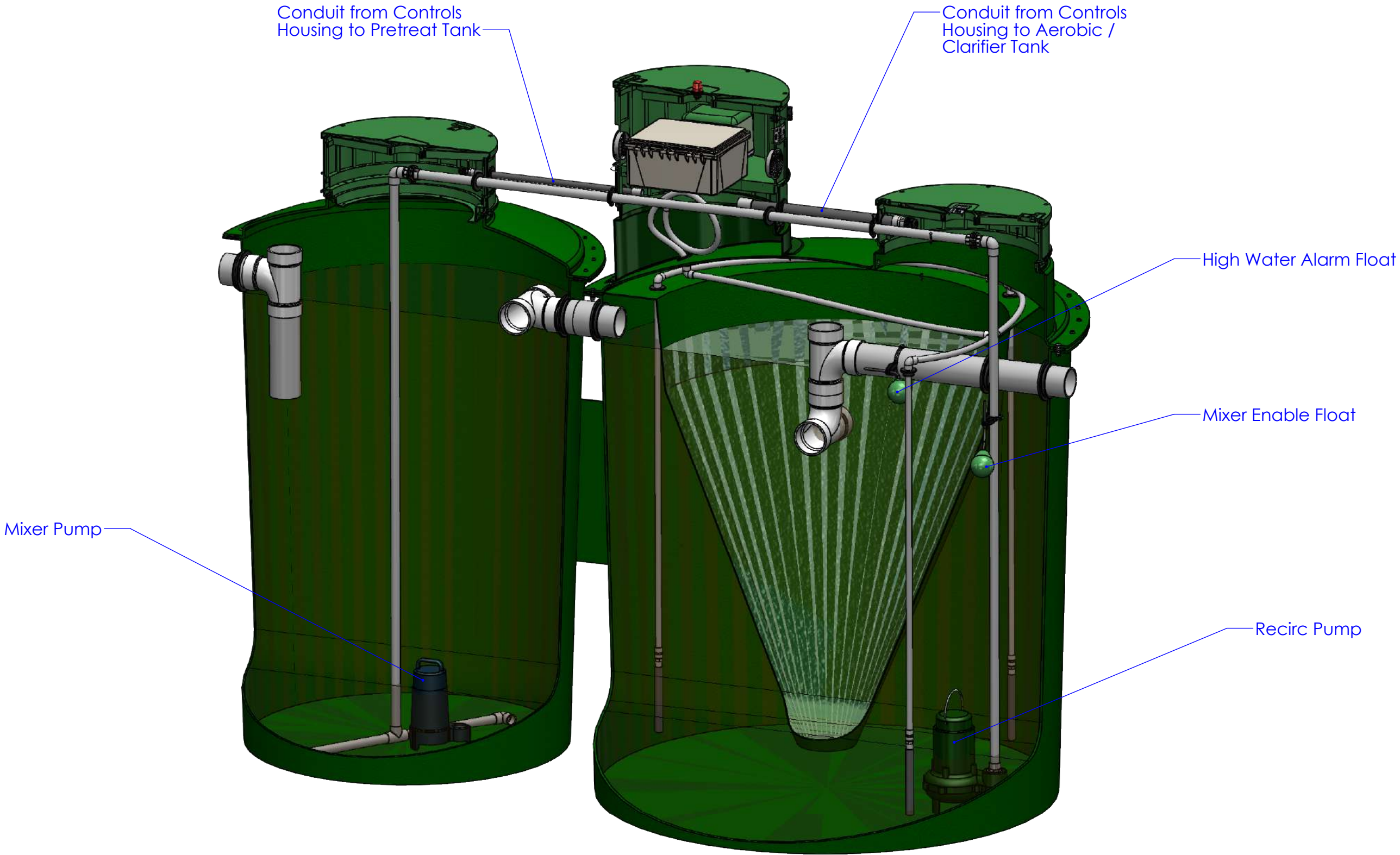
Dosing Method Switch (3 Position)
Spray
Gravity(None)
Time Dose

Blower Pressure Switch



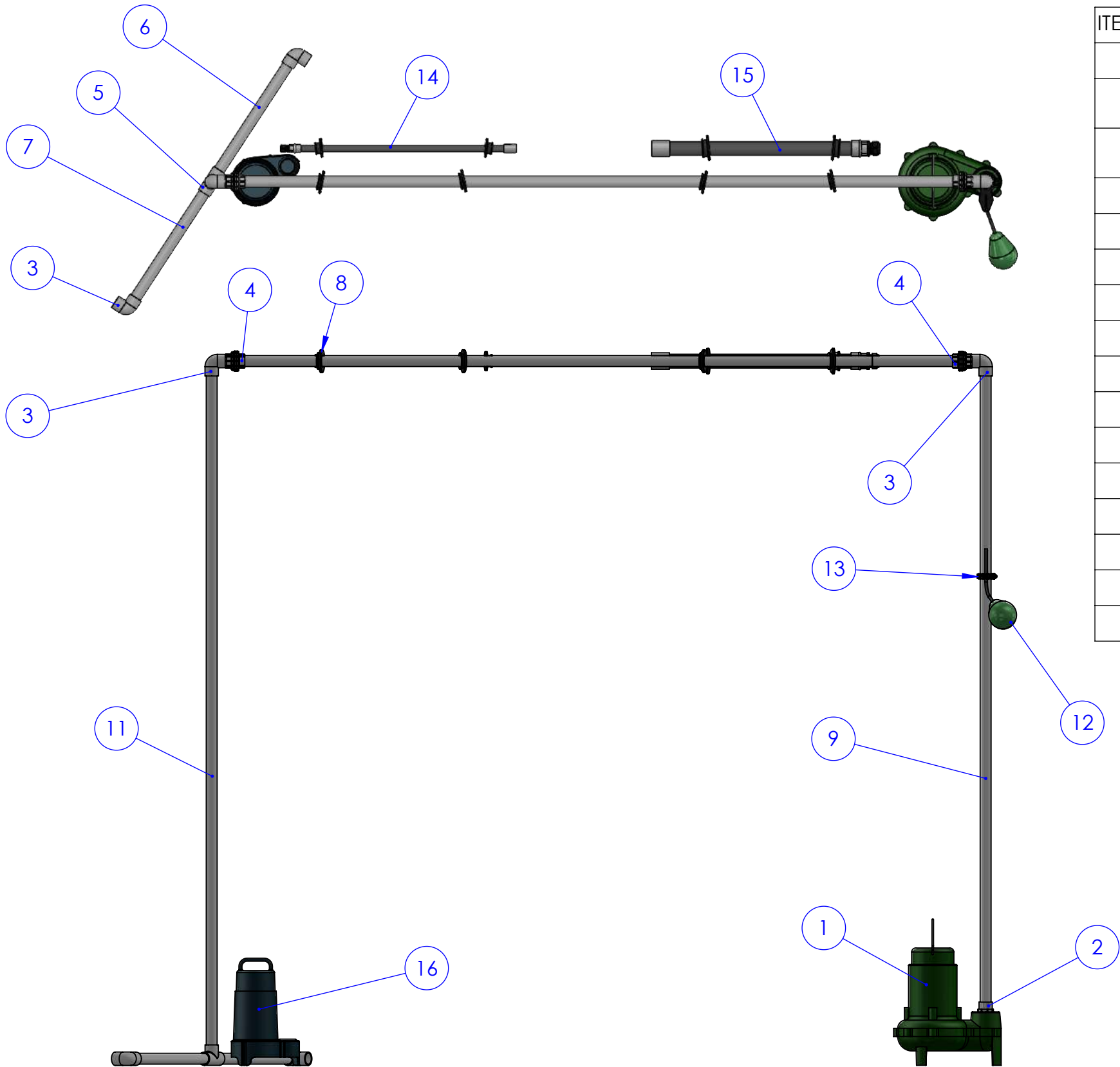
Print / Part Number	Description	Revision	Date
HA-190309-U	AN-500 Waste Water Treatment System		

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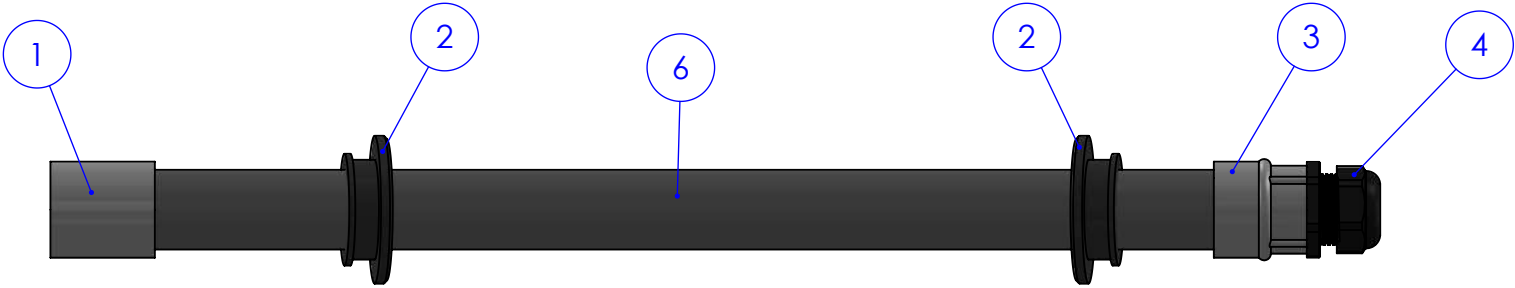
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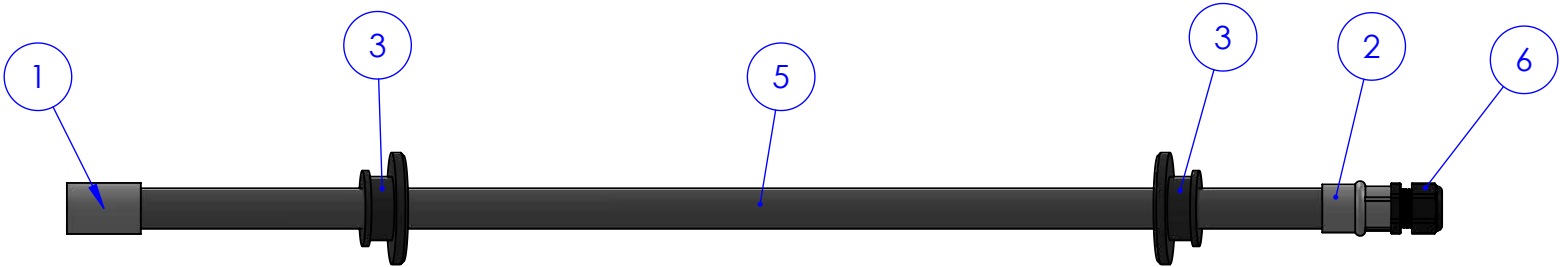
ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	100151	Pump, Zoeller N264 Recirc Pump	1	
2	700051	Adapter Male 1-1/4" x 1" PVC	1	
3	700032	Tee, 1" Sch40 PVC SxSxS	4	
4	700016	Union, Socket 1" Sch40 PVC SxS	2	
5	700032	Tee, 1" Sch40 PVC SxSxS	1	
6	700026	Pipe, 1" Sch40 PVC	1	17in
7	700026	Pipe, 1" Sch40 PVC	1	17in
8	AKR50030	Grommet, 1/2" Adapt-A-Flex	4	
9	700026	Pipe, 1" Sch40 PVC	1	77.365in
10	700026	Pipe, 1" Sch40 PVC	1	87.584in
11	700026	Pipe, 1" Sch40 PVC	1	83.275in
12	120044	Switch, Float MM 20' Green	1	
13	240041	Clamps 3-9/16-4 w/Clip	1	
14	HA-200034	Assembly, Conduit 1/2"	1	
15	HA-200035	Assembly, Conduit 1-1/4"	1	
16	HA-100151	Pump, Effluent 1/3HP w/Float	1	

Print / Part Number	Description	Revision	Date
HA-200035	Assembly, Conduit 1-1/4"		



HA-200035

ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	700039	Coupling, 1-1/4" Conduit Sch40 PVC SxS	1	
2	AKR50030	Grommet, 1/2" Adapt-A-Flex	2	
3	180129	Adapter, Female 1-1/4" PVC Conduit	1	
4	240053	Fitting, Compression 1-1/4" Cord Grip	1	
5			1	
6	700034	Pipe, 1-1/4" Conduit Sch40 PVC	1	24in



HA-200034

ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	180108	Coupling, 1/2" Conduit SxS	1	
2	180107	Adapter, Female 1/2" Conduit FNPT x S	1	
3	AKR50030	Grommet, 1/2" Adapt-A-Flex	2	
4	180113	Pipe, 1/2" Conduit Sch40 PVC	1	
5	180113	Pipe, 1/2" Conduit Sch40 PVC	1	26.75in
6	240051	Fitting, 1/2" Compression CordGrip	1	

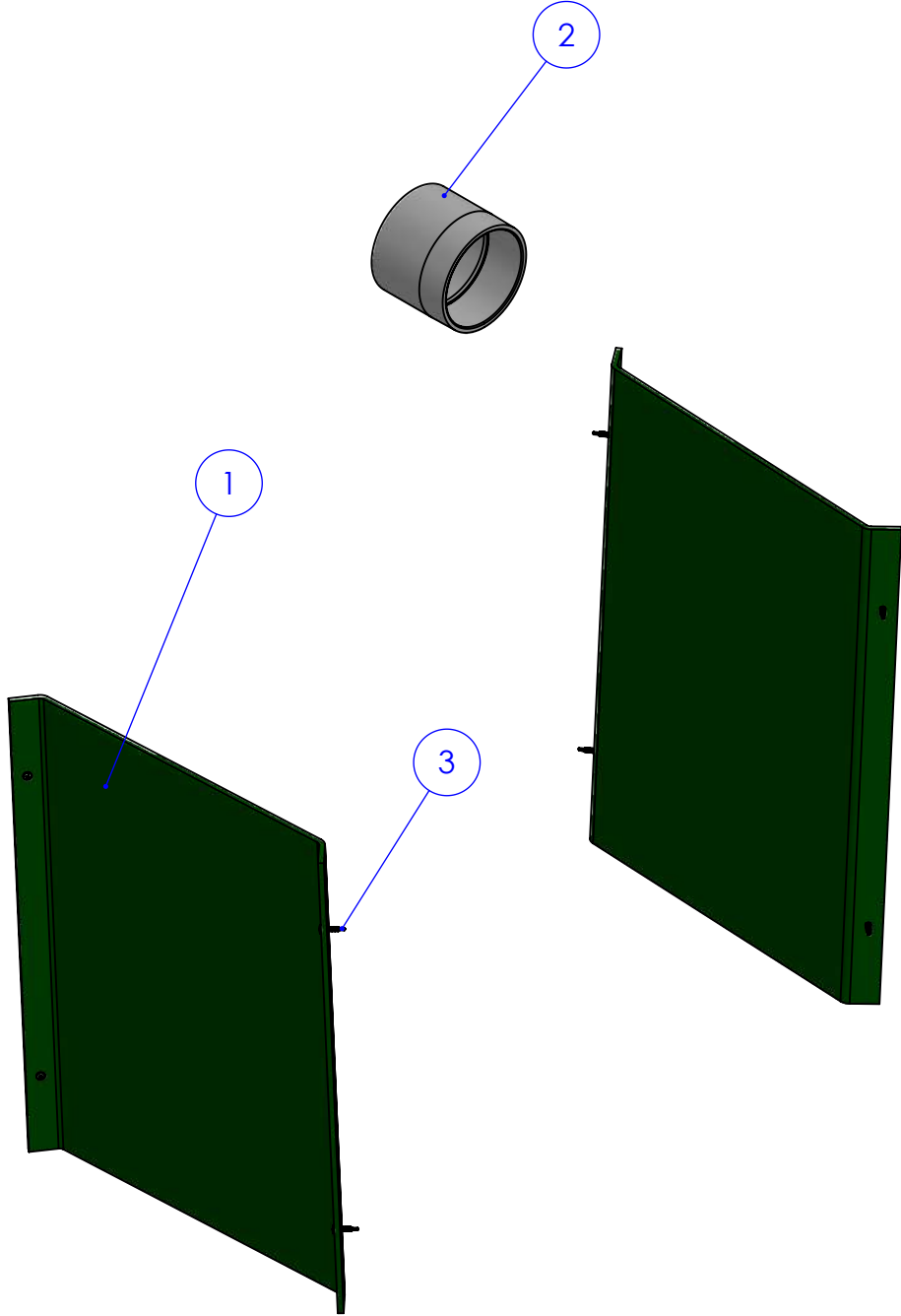
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Print / Part Number HA-130002	Description Kit, SNG 2 Tank Connecting Standard	Revision	Date
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ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	240019	FG Connecting Panel 24x16	2	
2	700031	Coupling, 4" Sch40 PVC SxS	1	
3	200059	Screw, 1" #10 Self Tap PPH SS	8	

Tanks are joined after Pretreatment tank and ATU are assembled.
Fiberglass panels are joined using both self tapping stainless screws
and two part fiberglass epoxy.



Drawn by T.Genshock	Scale 1:16	Sheet 1919	Material	Weight	Tolerances Unless Otherwise Specified	Signature
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