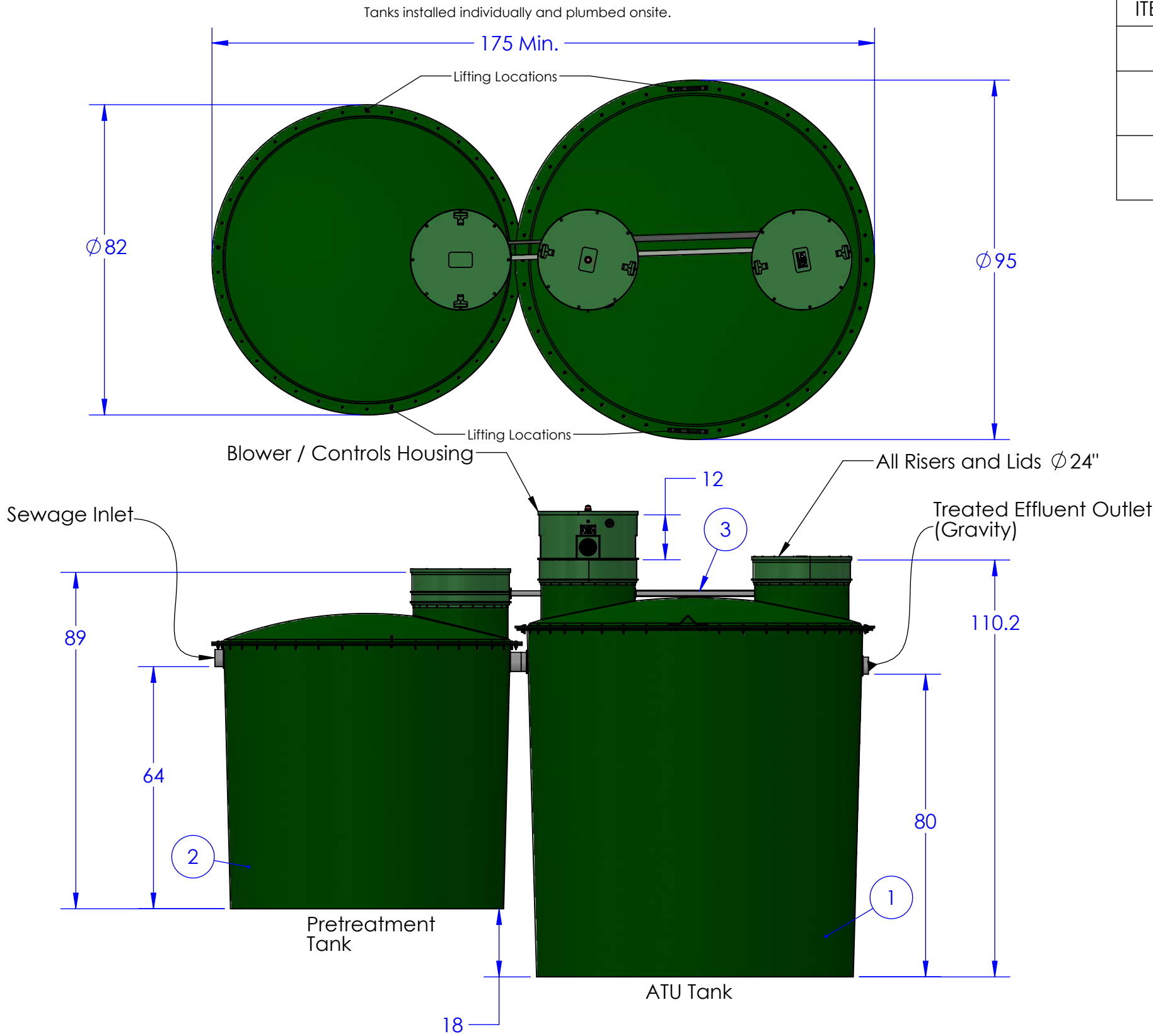


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ITEM NO.	Part Number	DESCRIPTION	QTY.
1	HA-AN1100-P	Tank AN-1100 245 ATU (AP1500)	1
2	HA-180116	AN-1100 Pretreatment (PP1200)	1
3	HA-13005X	Assembly, Re-Circulation AN-1100 245 Complete	1

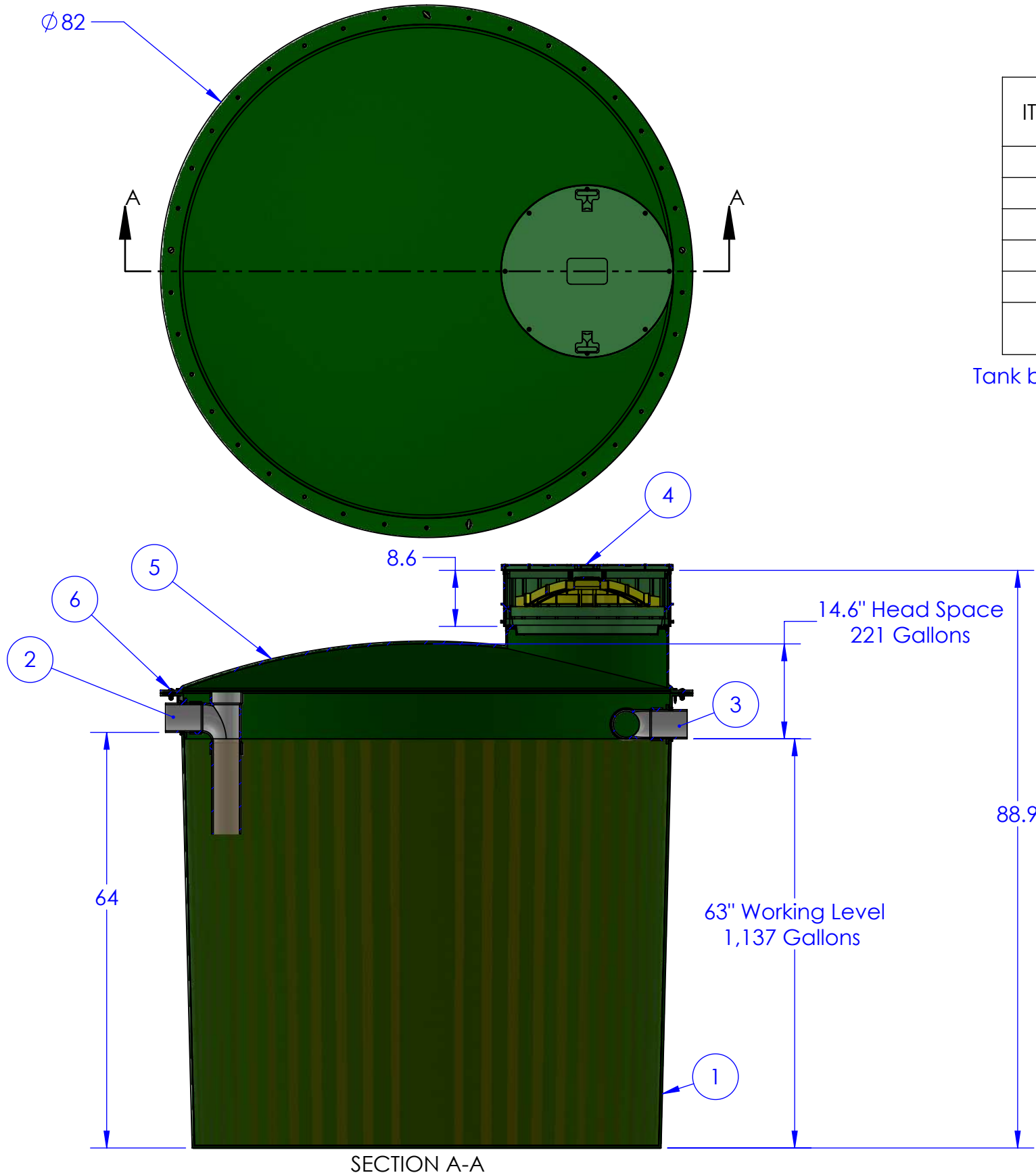
- 1) All auxiliary plumbing, wiring, and installation methods must conform to all county, state, province, and local code.
- 2) All plumbing and connections to be plumbed with SCH 40 pipe or equivalent.
- 3) All manufacturer supplied pipe and conduit penetrations are sealed with Adapt-A-Flex grommets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

Hydro-Action Specifications	
Model	AN-1100
Daily Treatment Capacity	1100 Gallons
Total System Working Volume	3,101 Gallons
Primary Treatment WorkingVolume	1,137 Gallons
Aerobic Working Volume	1,381 Gallons
Clarifier Working Volume	583 Gallons
Treatment Certification	NSF 245
Supply Power Requirement	1 Phase 120VAC 60Hz 20Amp
Air Supply	HiBlow HP-200 / 7.0 CFM
Tank Material	Fiberglass
Clarifier Material	Fiberglass
Blower / Controls Housing	Polyethylene



Print / Part Number	Description	Revision	Date
HA-180116	AN-1100 Pretreatment (PP1200)		

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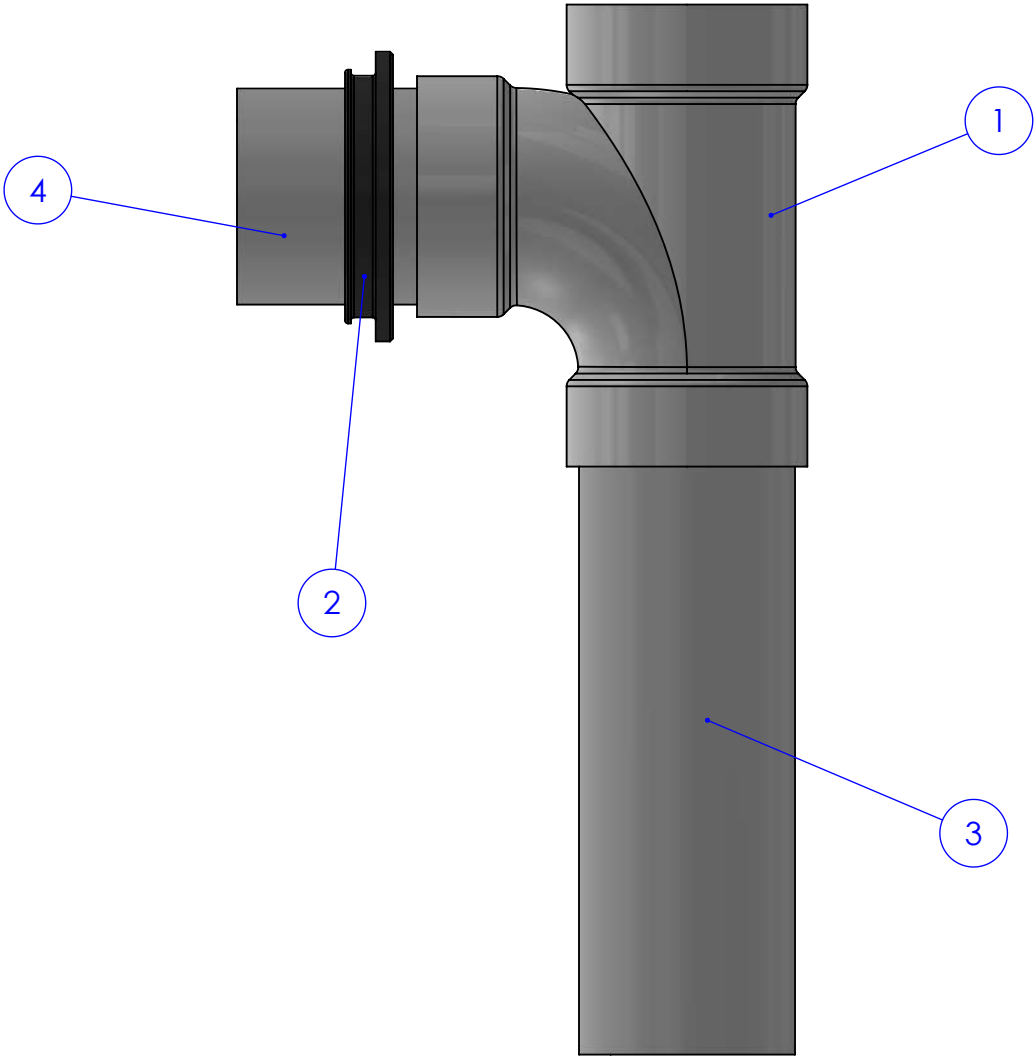
ITEM NO.	Part Number	DESCRIPTION	QTY.
1	HA-180077	Tank, Body AP750 / PP1200	1
2	HA-100102	Assembly, Plumbing Inlet PP	1
3	HA-100101-AN	Assembly, Plumbing Outlet AN PP	1
4	HA-130062	Kit, Lid/Riser HVY Pre/Pump	1
5	HA-760070-C	Dome, LPA500 / AP750 Chopped	1
6	HA-130050	Kit, Small Pretreat Tank/Dome (Unassembled)	1

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



Drawn by	Scale 1:20	Sheet 2: 18	Material	Weight	Tolerances Unless Otherwise Specified	Signature
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ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	180125	Tee, Sanitary 4" Sch40	1	
2	AKR50675	Grommet, 4" Adapt-A-Flex	1	
3	100025	Pipe, 4" PVC Sch40	1	14in
4	100025	Pipe, 4" PVC Sch40	1	5.5in

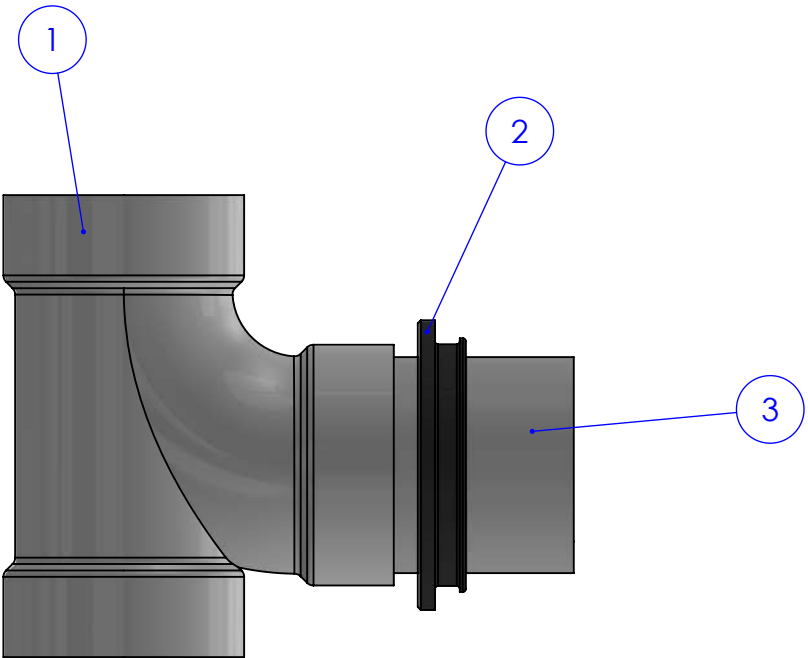


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Print / Part Number	Description	Revision	Date
HA-100101-AN	Assembly, Plumbing Outlet AN PP		3/20/2023

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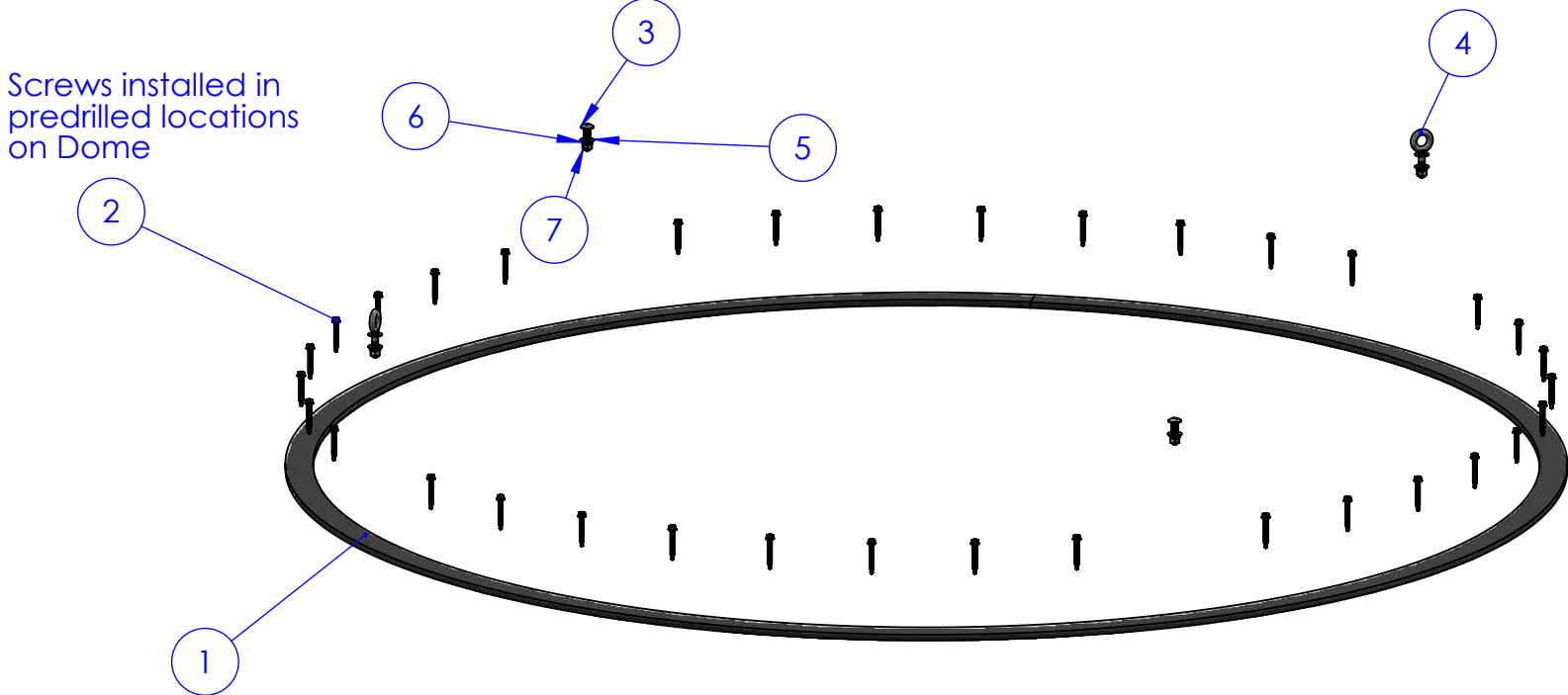
ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	180125	Tee, Sanitary 4" Sch40	1	
2	AKR50675	Grommet, 4" Adapt-A-Flex	1	
3	100025	Pipe, 4" PVC Sch40	1	5.5in



Drawn by T.Genshock	Scale 1:4	Sheet 4: 18	Material	Weight	Tolerances Unless Otherwise Specified ±0.125" or 1°	Signature
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Print / Part Number	Description	Revision	Date
HA-130050	Kit, Small Pretreat Tank/Dome (Unassembled)		

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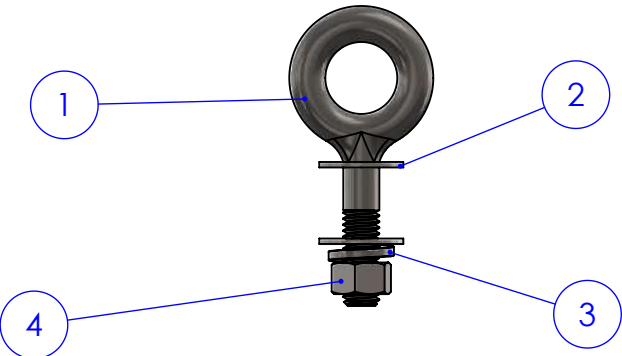
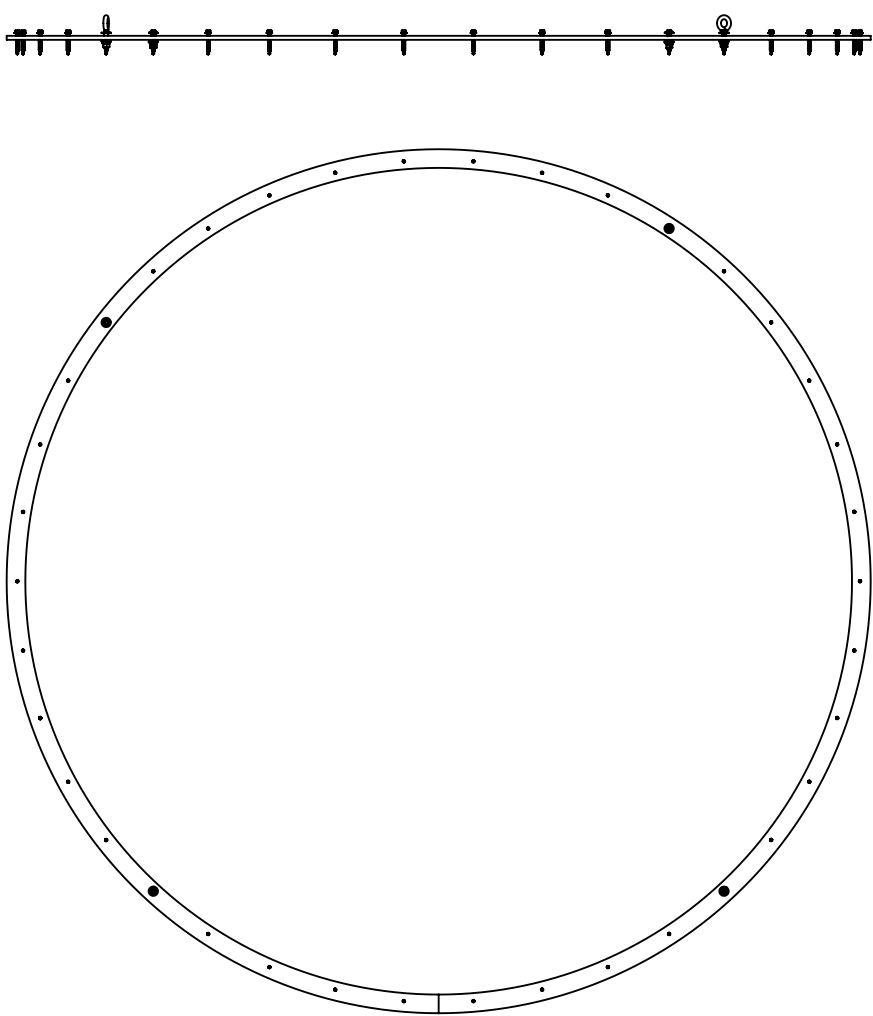


Screws installed in predrilled locations on Dome

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

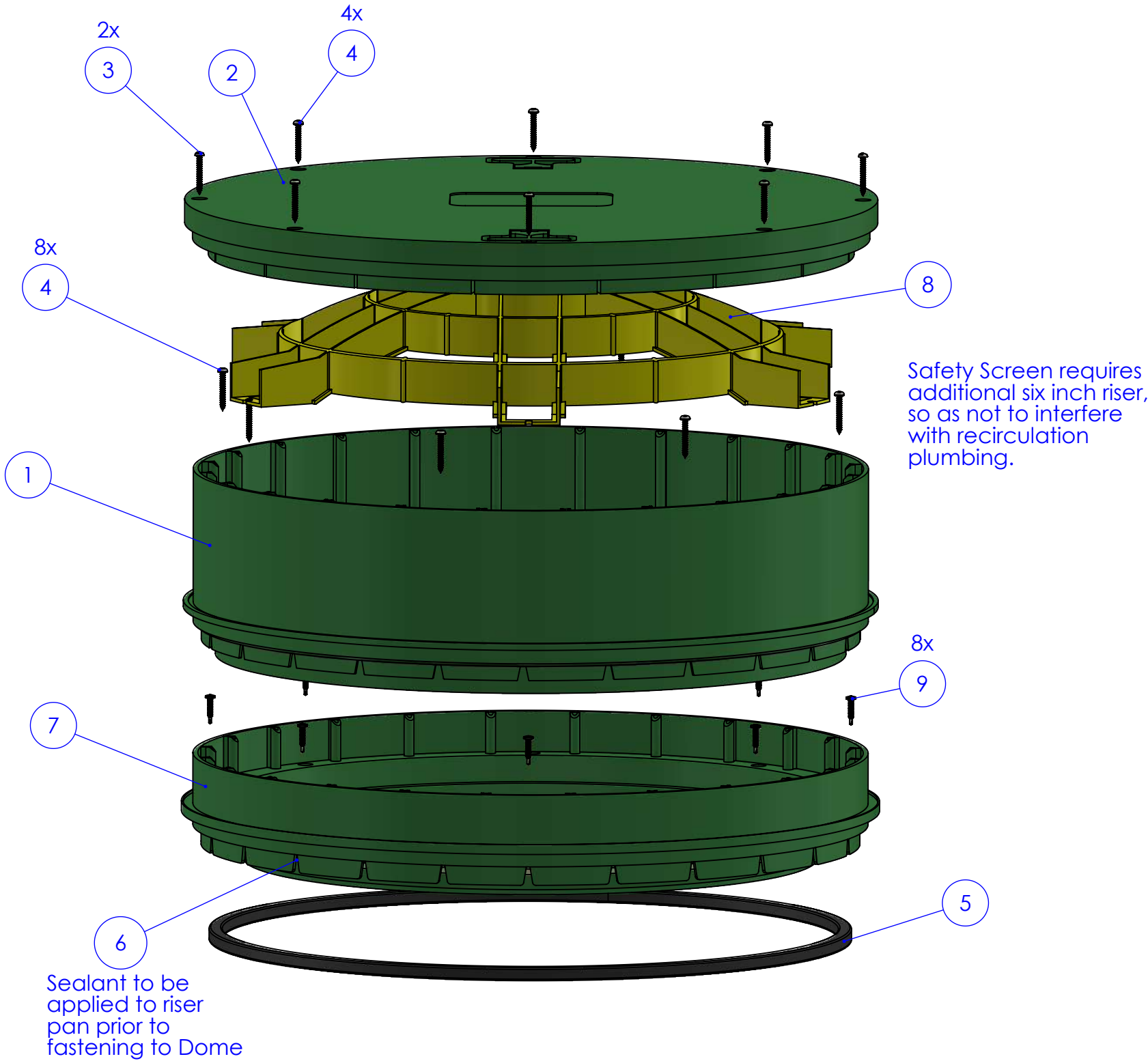
ITEM NO.	Part Number	DESCRIPTION	QTY.
1	200091	Bolt, Eye 3/8-16 x 1-1/2 SS	1
2	200006	Washer, 3/8 Standard SS	2
3	200034	Washer, SS 3/8 LockWasher	1
4	200013	Nut, 3/8-16 Stainless Steel	1



Drawn by	Scale 1:12	Sheet 5:18	Material	Weight	Tolerances Unless Otherwise Specified	Signature
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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	Screw, 1-1/2" #10 Square Truss A	14
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

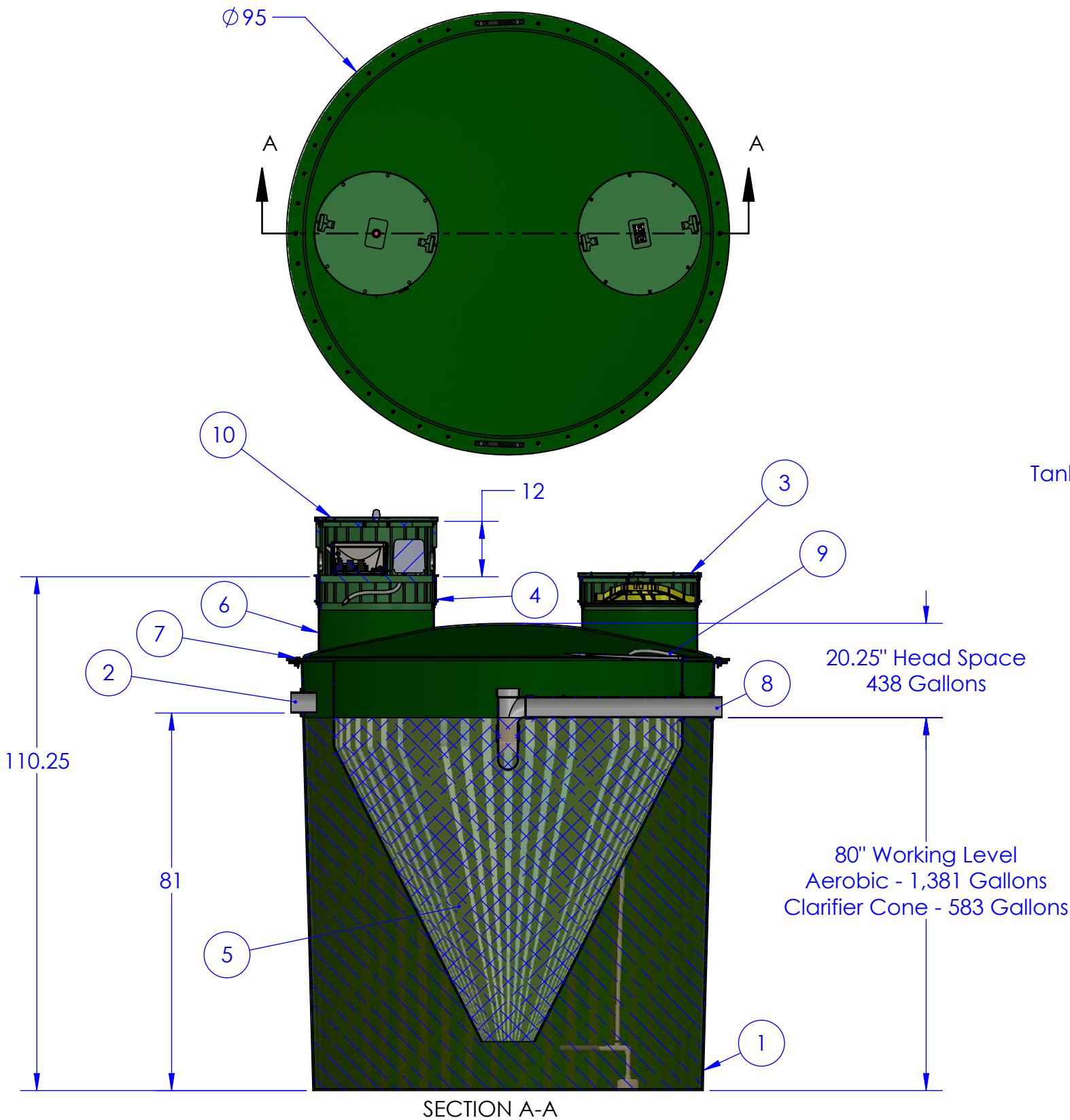
* All fasteners are made of stainless steal, may be slightly ferrous.



Drawn by	Scale 1:8	Sheet 6:18	Material	Weight	Tolerances Unless Otherwise Specified	Signature
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Print / Part Number HA-AN1100-P	Description Tank AN-1100 245 ATU (AP1500)	Revision	Date
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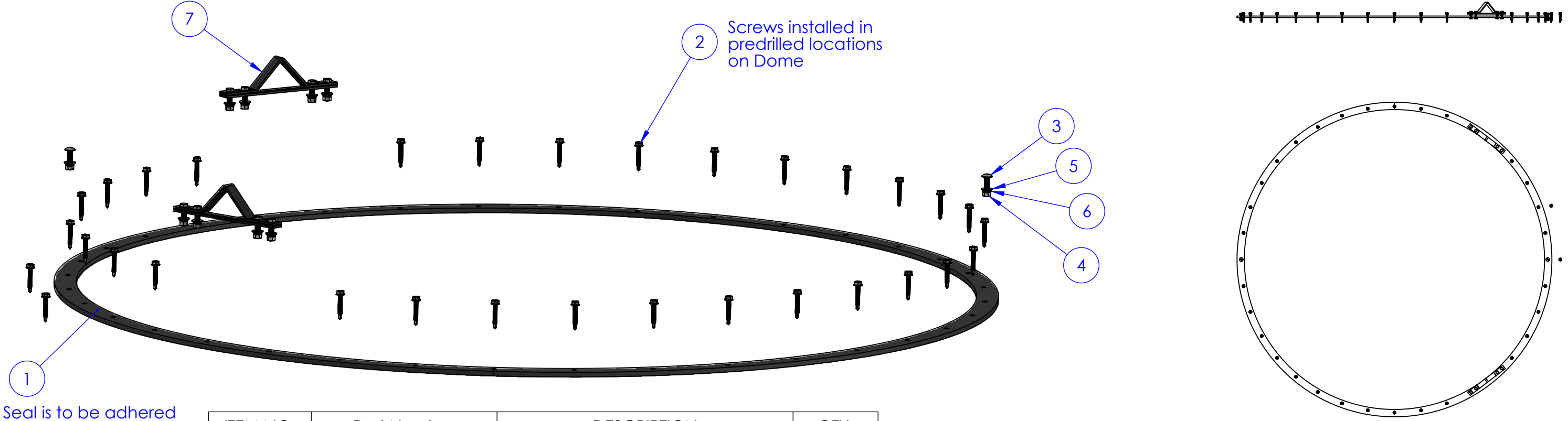
ITEM NO.	Part Number	DESCRIPTION	QTY.
1	HA-180079	Tank, Body AP1500G / PP2200	1
2	HA-100066	Assembly, Inlet AN ATU	1
3	HA-130063	Kit, Lid/Riser HVY ATU	1
4	241022	Riser, Tank 24" x 6" PL	1
5	HA-180045	Cone, Fiberglass AP1500G	1
6	HA-180033-C	Dome, AP1500 / PP1600 Chopped	1
7	HA-130051	Kit, Tank/Dome/Cone Commercial	1
8	HA-100071	Assembly, Outlet ATU	1
9	HA-100058-2DRP	Diffuser Assembly 2 Drop	1
10	EC50-30-L-200-PLC	Assembly, Ops Nitrogen Reduction AN-1100	1

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



Drawn by	Scale 1:28	Sheet 7: 18	Material	Weight	Tolerances Unless Otherwise Specified	Signature
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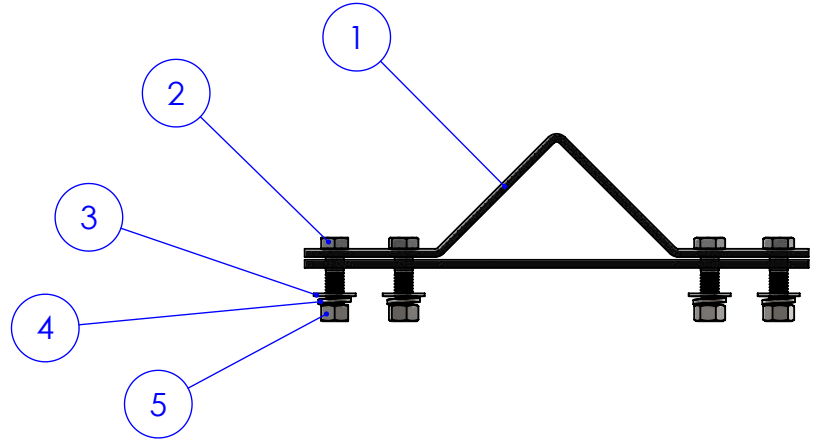
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Seal is to be adhered to tank flange prior to installing fasteners

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	32
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.



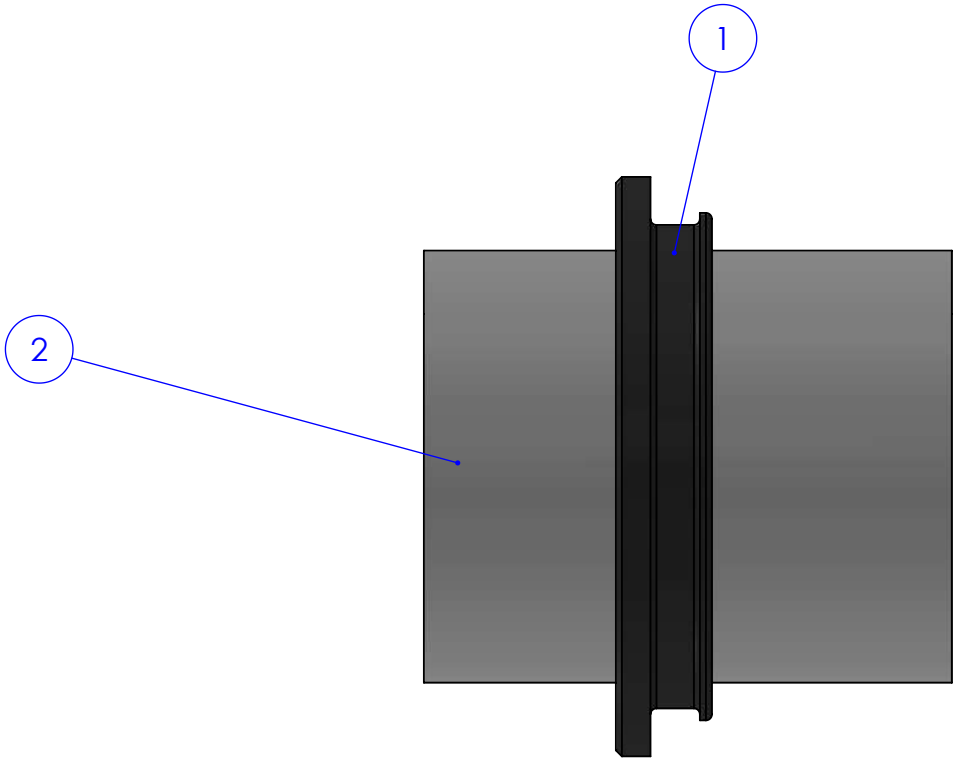
HA-130001

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	Description	Revision	Date
HA-100066	Assembly, Inlet AN ATU		

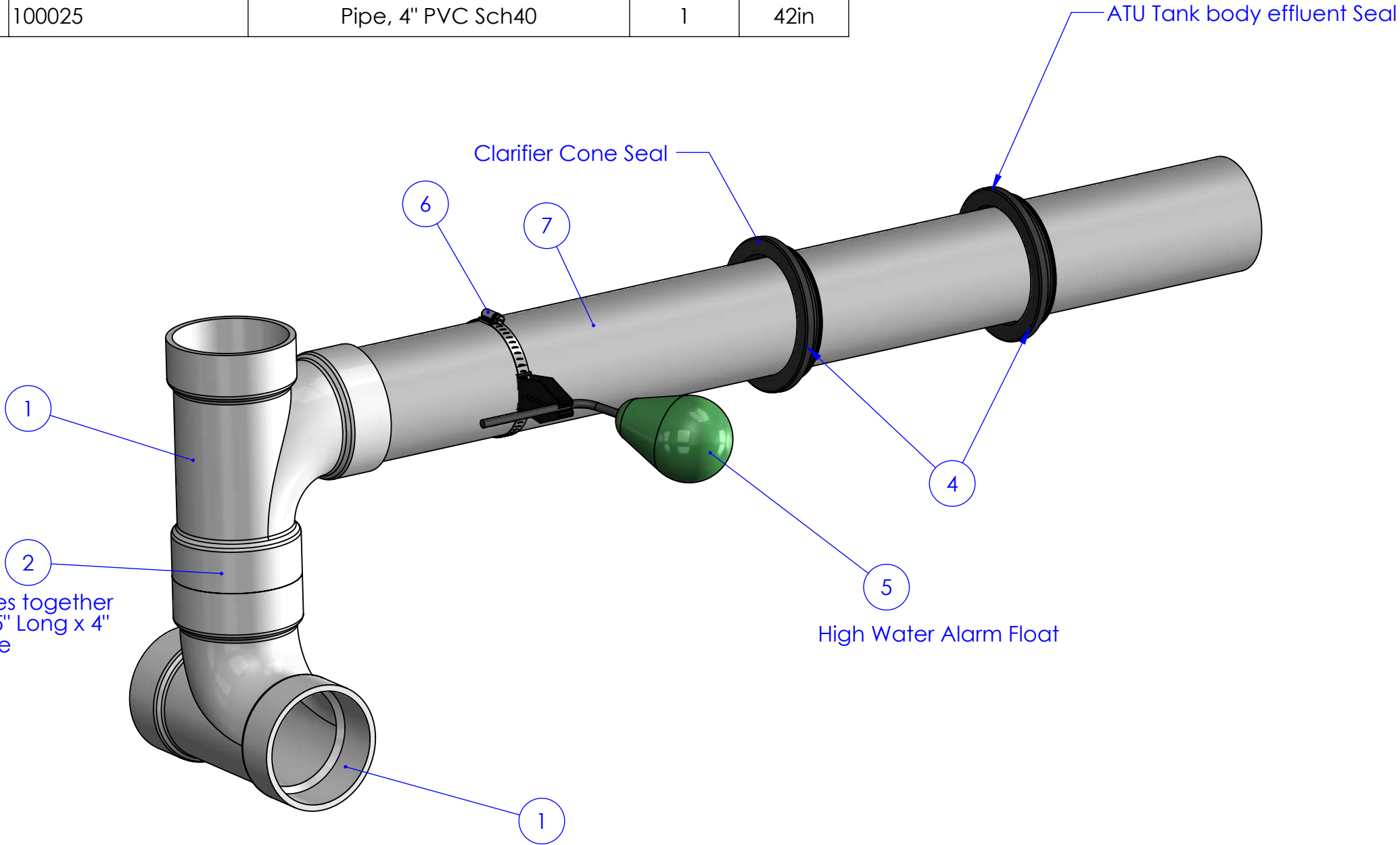
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ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	AKR50675	Grommet, 4" Adapt-A-Flex	1	
2	100025	Pipe, 4" PVC Sch40	1	5.5in



Drawn by	Scale	Sheet	Material	Weight	Tolerances Unless Otherwise Specified	Signature
	1:2	9: 18				

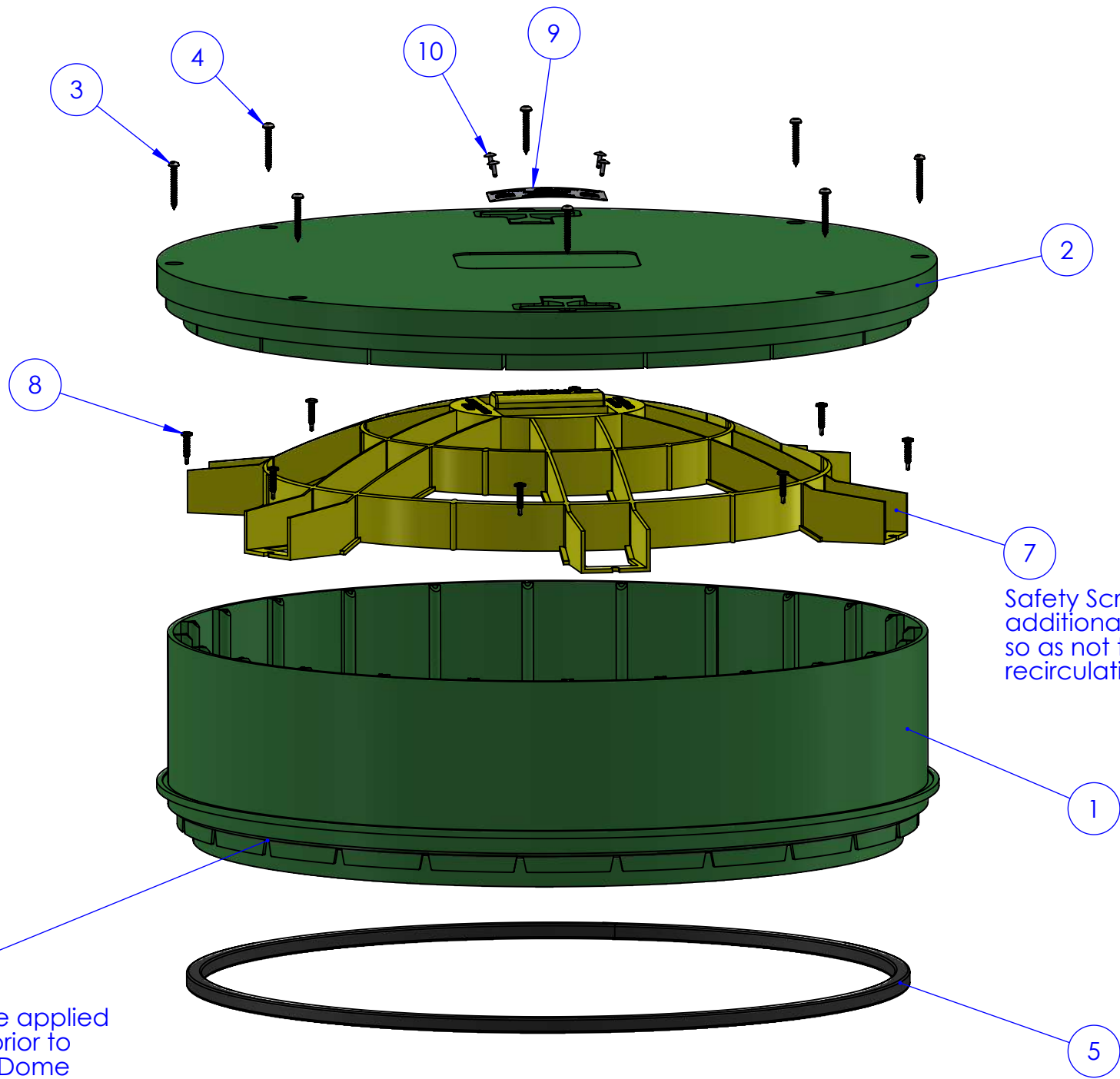
ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	180125	Tee, Sanitary 4" Sch40	2	
2	100025	Pipe, 4" PVC Sch40	1	3.5in
3	100025	Pipe, 4" PVC Sch40	1	34.5in
4	AKR50675	Grommet, 4" Adapt-A-Flex	2	
5	120044	Switch, Float MM 20' Green	1	
6	240041	Clamps 3-9/16-4 w/Clip	1	
7	100025	Pipe, 4" PVC Sch40	1	42in



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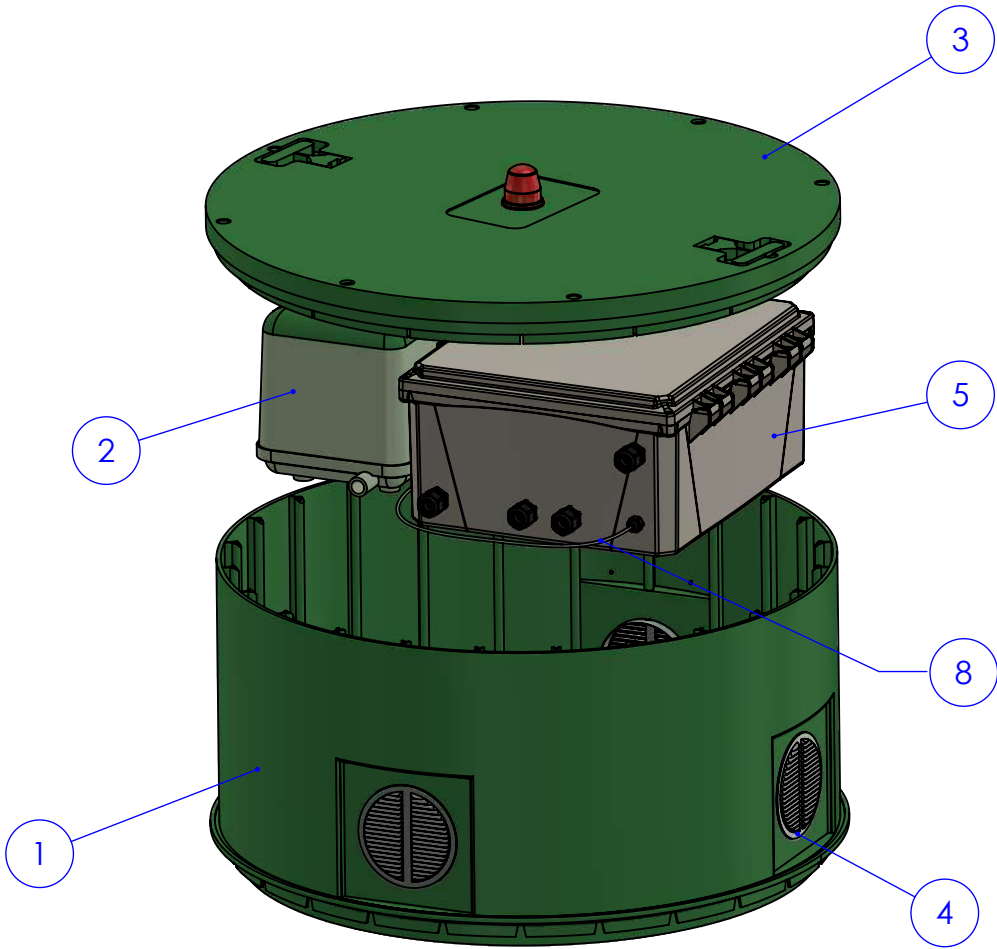
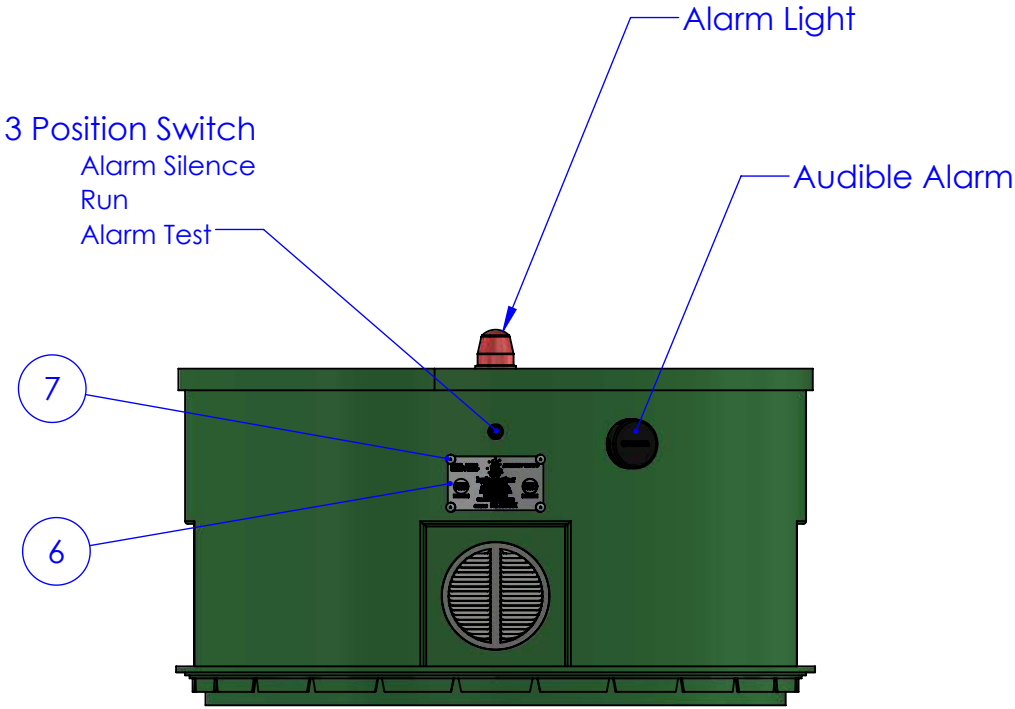
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ITEM NO.	Part Number	DESCRIPTION	QTY.
1	241022	Riser, Tank 24" x 6" PL	1
2	120184	Cover, 24" 3008-West	1
3	200070	Screw, 1-1/2" #10 TriGroove SM	2
4	200075	Screw, 1-1/2" #10 Square Truss A	6
5	160034	Gasket, 1/2" x 21' Conseal	1
6	HA-100000	Sealant, 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 AN-1100	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.

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ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	HA-160029	Basin, 24"x12" PL w/Louvers and Holes	1	
2	100xxx	Hiblow HP-200 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	AN1100 Data Plate	TAG, AN DATA PLATE	1	
7	200025	Rivet, 1/8" Grip 1/8" Dia. Pop	4	
8	200111	Tubing, Clear 6mm	1	23.4in

All panel components UL listed

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

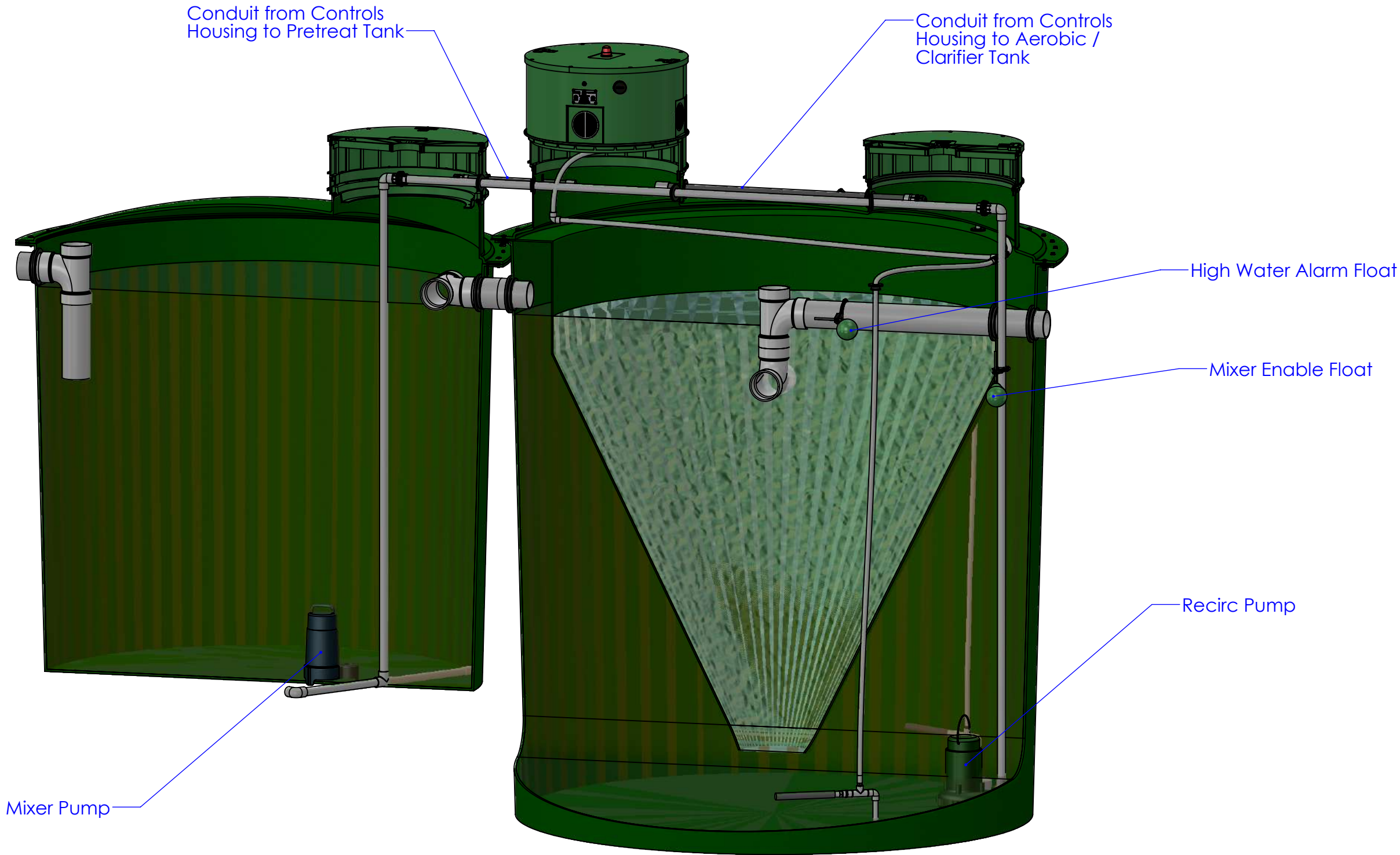
Blower Pressure Switch

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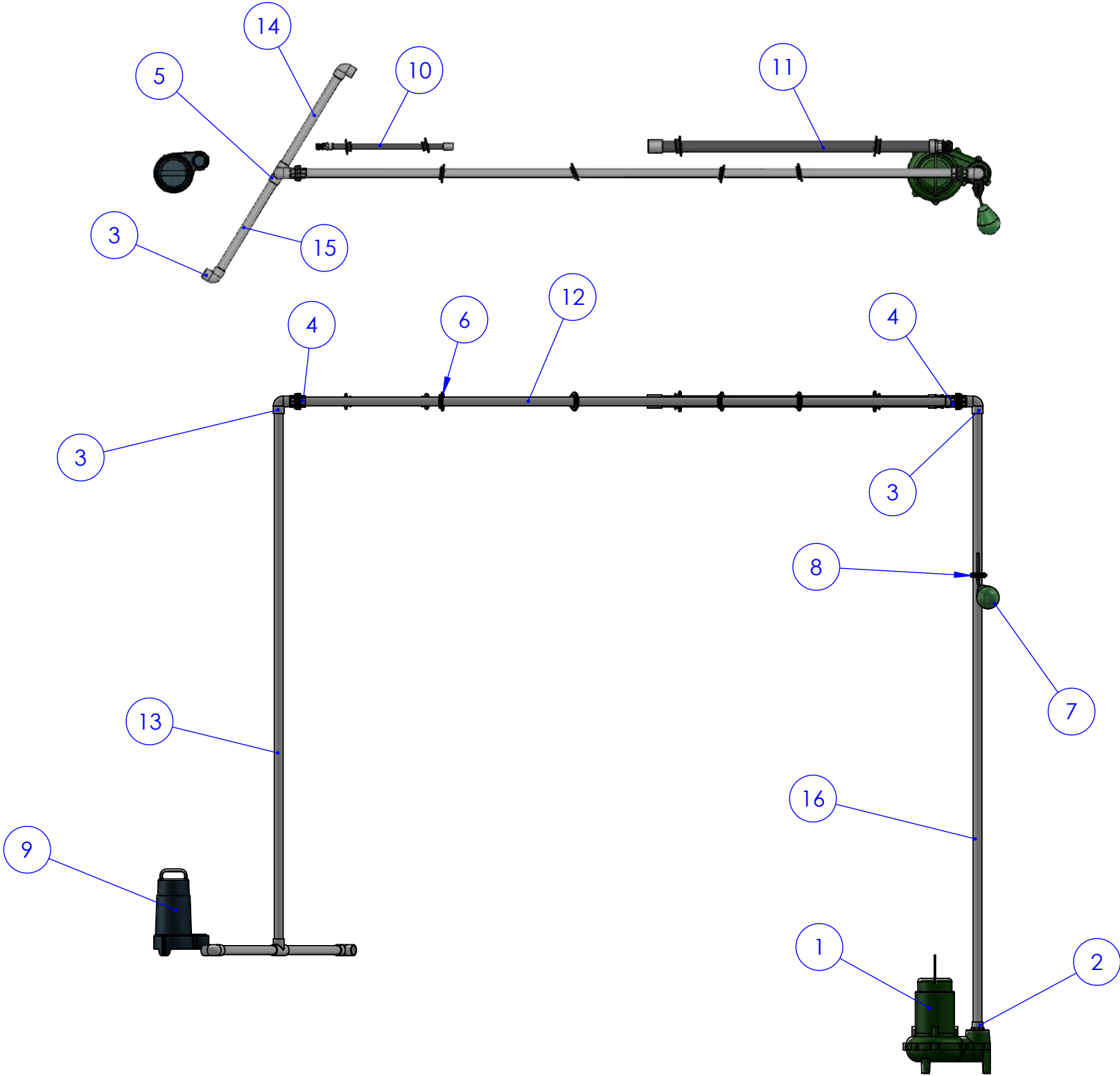
Print / Part Number HA-190312-U	Description	Revision	Date
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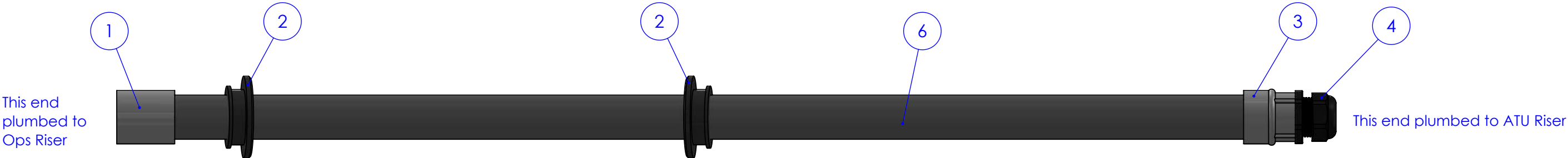
Drawn by	Scale 1:18	Sheet 15:18	Material	Weight 52601	Tolerances Unless Otherwise Specified	Signature
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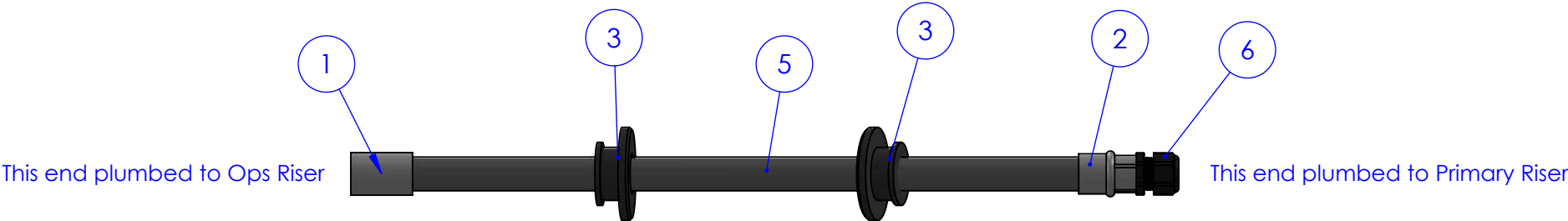
ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	100151	Pump, Zoeller N264 Recirc Pump	1	
2	700051	Adapter Male 1-1/4" x 1" PVC	1	
3	700032	Tee, 1" Sch40 PVC SxSxS	4	
4	700016	Union, Socket 1" Sch40 PVC SxS	2	
5	700032	Tee, 1" Sch40 PVC SxSxS	1	
6	AKR50000	Grommet, 1" Adapt-A-Flex	4	
7	120044	Switch, Float MM 20' Green	1	
8	240041	Clamps 3-9/16-4 w/Clip	1	
9	HA-100151	Pump, Effluent 1/3HP w/Float	1	
10	HA-200034	Assembly, Conduit 1/2"	1	
11	HA-200035	Assembly, Conduit 1-1/4" PVC	1	
12	700026	Pipe, 1" Sch40 PVC	1	99.04in
13	700026	Pipe, 1" Sch40 PVC	1	81.1in
14	700026	Pipe, 1" Sch40 PVC	1	17.22in
15	700026	Pipe, 1" Sch40 PVC	1	17.22in
16	700026	Pipe, 1" Sch40 PVC	1	93.61in

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

ITEM NO.	Part Number	DESCRIPTION	QTY.	Length
1	700039	Coupling, 1-1/4" Conduit Sch40 PVC SxS	1	
2	AKR50360	Grommet, 1-1/4" 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	700034	Pipe, 1-1/4" Conduit Sch40 PVC	1	
6	700034	Pipe, 1-1/4" Conduit Sch40 PVC	1	42in



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	18.75in
6	240051	Fitting, 1/2" Compression CordGrip	1	



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