- GENERAL NOTES

 1. THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1
- IN TABLE 1.

 ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHEYLENE (HDPE)
 OR AISI 304/304L STAINLESS STEEL.

 TANK MATERIAL OPTIONS:

- TANK MATERIAL OPTIONS:

 3.1. CARBON STEEL PER ASTM A36 w/COATING PER IWT STANDARDS,

 3.2. FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS),

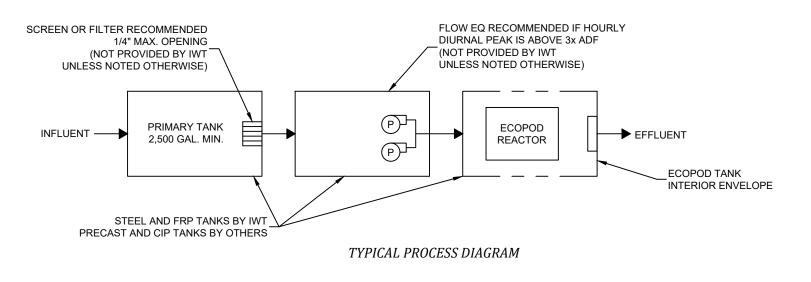
 3.3. PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS,

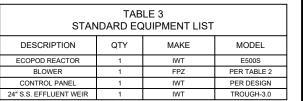
 3.4. CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS,

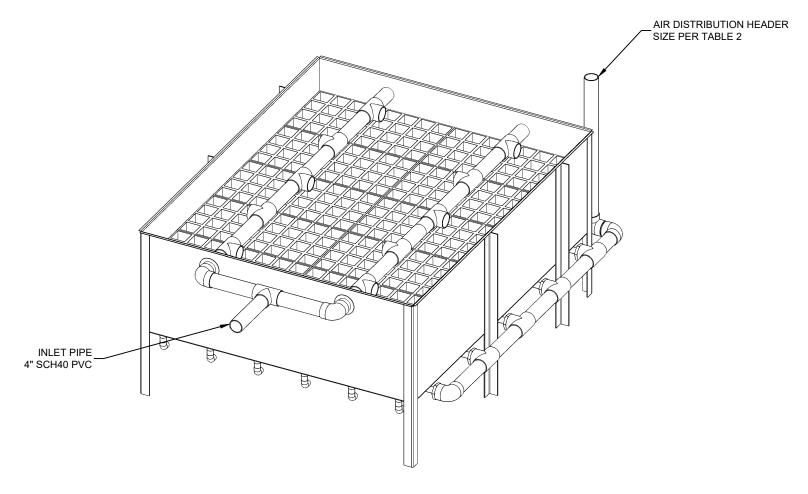
 BLOWERS, WEIRS, CONTROL PANELS, AND VARIOUS SMALL PARTS WILL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED, TO BE INSTALLED BY CONTRACTOR.
- SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
 CONTACT AN IWT REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.

TABLE 1 PROCESS PARAMETERS IWT E500S BOD ONLY						
PARAMETER	MINIMUM	MAXIMUM				
AVERAGE DAILY FLOW	-	5,000 GPD				
PEAK DAILY FLOW	-	7,500 GPD				
INFLUENT BOD₅	-	12.5 LB/DAY				
AIR TEMPERATURE	-	115 °F				
WATER TEMPERATURE	68 °F	68 °F				
RELATIVE HUMIDITY	10%	90%				
SITE ELEVATION	3,000 FT AMSL					

TABLE 2 AIR DEMAND						
PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL				
STANDARD AIRFLOW	110 SCFM	128 SCFM				
SITE AIR REQUIREMENT	124 ICFM	154 ICFM				
BLOWER INLET AIR	141 ICFM	187 ICFM				
AIR HEADER SIZE	3 IN	4 IN				
MIN. TANK VENT X-SECT. AREA	58.0 IN ² 2 EA 8" OR 1 EA 8"	76.9 IN ² 2 EA 8" OR 1 EA 10"				
BLOWER SELECTION	FPZ SCL K05-TD	FPZ SCL K06-MS				
NOISE LEVEL	73.0 dB(A)	73.0 dB(A)				
AIR TEMPERATURE RISE ¹	24 F (13.3 C)	21 F (11.7 C)				
BLOWER INLET DIAMETER	2 IN NPT	2 IN NPT				
BLOWER OUTLET DIAMETER	2 IN NPT	2 IN NPT				
MOTOR POWER RATING ²	3 HP	3 HP				
OPERATING POWER	1.3 KW	1.9 KW				
REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.						







ECOPOD REACTOR LAYOUT 2

DATE	INITIALS	DESCRIPTION		r
)/12/21	AOB	ADDED TRIMETRIC VIEW	INFILTRATOR WATER TECHNOLOGIES, LLC	I
			Infiltrator 4 BUSINESS PARK RD, OLD SAYBROOK, CT 06475	ı
			Water Technologies WWW.INFILTRATORWATER.COM	ı
			Part of ///ADS PHONE: (800) 221-4436 / EMAIL: INFO@INFILTRATORWATER.COM	L
				ſ
			COPYRIGHT (C) 2024 INFILTRATOR WATER TECHNOLOGIES, LLC (IWT). INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY OF IWT. NO PART OF THIS DRAWING SHALL BE REPRODUCED, DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR	ı
			ORGANIZATION, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN PERMISSION OF IWT. THIS INFORMATION IS BASED ON SPECIFIC	ı
			INPUT PARAMETERS AND IS FOR BUDGETARY OR PRELIMINARY USE ONLY. USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE APPLICABILITY TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.	١
			DETERMINING THE AFFEIGABILITY TO A SPECIFIC PROJECT IS AT THE SOCIE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.	Į

ECOPOD E500S STANDARD DESIGN FOR BOD REDUCTION **GENERAL ARRANGEMENT DESIGN OVERVIEW**

HORIZ. SCALE	PROJECT NO.
N/A	N/A
VERT. SCALE	DATE
N/A	02/11/2021
DRAWN BY	DESIGNED BY
CGK	AOB
DRAWING NO.	SHEET NO.
C1.0	01 of 02

GENERAL NOTES

1. ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHEYLENE (HDPE)
OR AISI 304/304L STAINLESS STEEL.

2 TANK MATERIAL OPTIONS:

2. TANK MATERIAL OPTIONS:
2.1. CARBON STEEL PER ASTM A36 w/COATING PER IWT STANDARDS,
2.2. FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS),
2.3. PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS,
2.4. CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
3. SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
4. CONTACT AN IWT REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.



WINTERSON EGGL OF VENETOLOGIC											
SITE ELEVATION		REACTOR MATERIAL	LAYOUT ID	REACTOR WEIGHT		A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	М			LB	KG	IN	СМ	IN	CM	IN	CM
0-1,000	0-305	HDPE	1			244	620	60	153	33	84
0-1,000	0-305	SS	1	1,420	293	226	575	59	150	32	82
0-1,000	0-305	SS	2	1,210	549	141	359	107	272	56	143
0-1,000	0-305	SS	3	1,350	613	178	453	83	211	44	112
1,000-3,000	305-914	HDPE	1			246	625	61	155	34	87
1,000-3,000	305-914	SS	1	1,420	293	228	580	60	153	33	84
1,000-3,000	305-914	SS	2	1,210	549	143	364	108	275	57	145
1,000-3,000	305-914	SS	3	1,350	613	180	458	84	214	45	115
1. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT REPRESENTATIVE FOR DETAILS.											

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

50

30 46

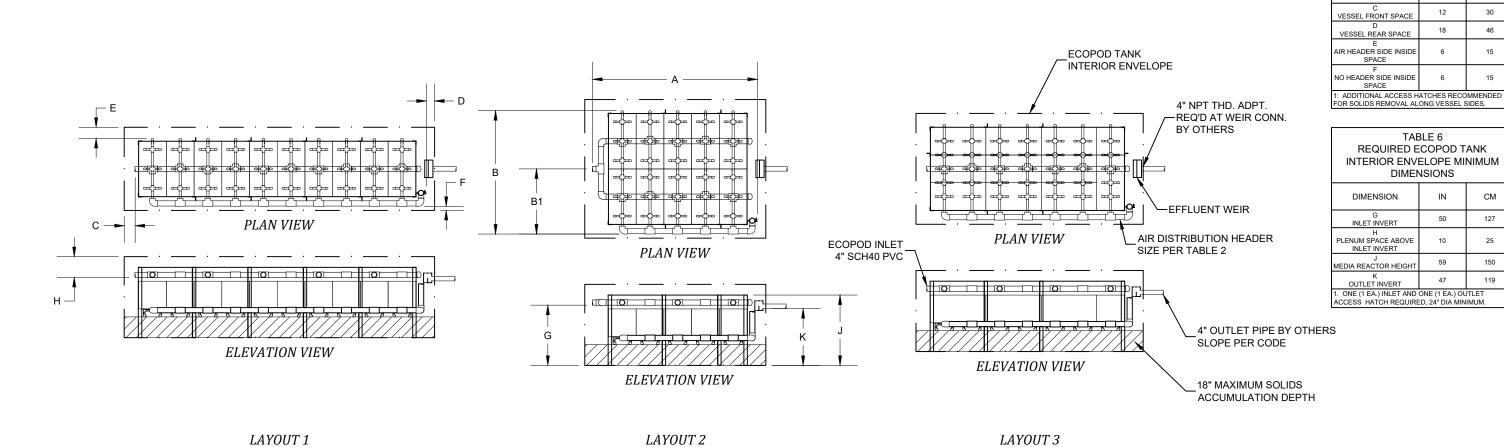
15

127

25

150

119



ECOPOD E500S STANDARD DESIGN FOR BOD REDUCTION

> **GENERAL ARRANGEMENT** LAYOUT DIMENSIONS

PROJECT NO. HORIZ. SCALE VERT. SCALE DESIGNED BY AOB DRAWN BY C1.1 02 of 02

DATE	INITIALS	DESCRIPTION	
5,2		DESCRIPTION	Infiltrato
			Water Technologie
			Part of //AD
	1		

INFILTRATOR WATER TECHNOLOGIES, LLC 4 BUSINESS PARK RD, OLD SAYBROOK, CT 06475 WWW.INFILTRATORWATER.COM PHONE: (800) 221-4436 / EMAIL: INFO@INFILTRATORWATER.COM

COPYRIGHT (C) 2024 INFILTRATOR WATER TECHNOLOGIES, LLC (IWT). INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY OF IWT. NO PART OF THIS DRAWING SHALL BE REPRODUCED, DISTRIBUTED, DISCLOSED, OR USED BY ANY PERSON OR ORGANIZATION, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN PERMISSION OF IWT. THIS INFORMATION IS BASED ON SPECIFIC INPUT PARAMETERS AND IS FOR BUDGETARY OR PRELIMINARY USE ONLY. USE AND INTERPRETATION OF THIS INFORMATION AND DETERMINING THE APPLICABILITY TO A SPECIFIC PROJECT IS AT THE SOLE DISCRETION OF THE USER AND/OR THE ENGINEER OF RECORD.