- 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 AISI 304/304L STAINLESS STEEL.

 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,
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 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.

- $6. \quad \text{CONTACT AN IWT REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS}. \\$

TABLE 1 PROCESS PARAMETERS IWT E500S BOD+NITRIFICATION				
PARAMETER	МІМІМИМ	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	0 FT AMSL	3,000 FT AMSL		

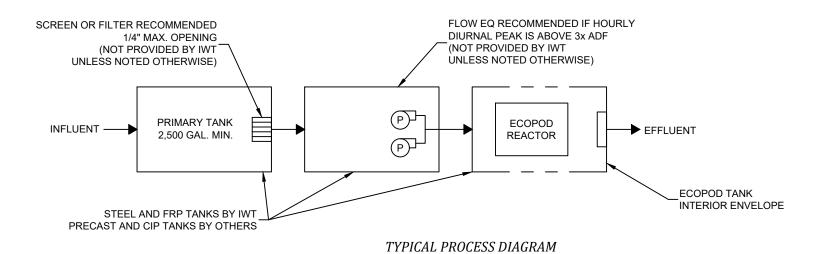
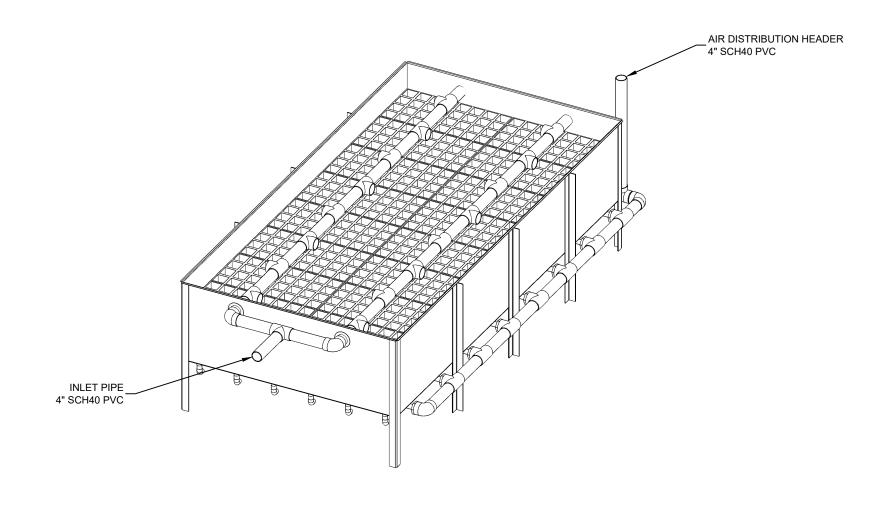


TABLE 3 STANDARD EQUIPMENT LIST				
DESCRIPTION QTY MAKE MC				
ECOPOD REACTOR	1	IWT	E500S-N	
BLOWER	1	G-D SUTORBILT	PER TABLE 2	
CONTROL PANEL	1	IWT	PER DESIGN	
24" S.S. EFFLUENT WEIR	1	IWT	TROUGH-3.0	

TABLE 2 AIR DEMAND					
PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL			
STANDARD AIRFLOW	208 SCFM	242 SCFM			
SITE AIR REQUIREMENT	234 ICFM	290 ICFM			
BLOWER INLET AIR	234 ICFM	290 ICFM			
AIR HEADER SIZE	4 IN	4 IN			
MIN. TANK VENT X-SECT. AREA	96.3 IN ² 2 EA 8" OR 1 EA 12"	119 IN ² 2 EA 10" OR 1 EA 14"			
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 3L			
NOISE LEVEL	ENCLOSURE DEPENDENT	ENCLOSURE DEPENDENT			
AIR TEMPERATURE RISE ¹	22 F (12.2 C)	21 F (11.7 C)			
BLOWER INLET DIAMETER	2.5 IN NPT	2.5 IN NPT			
BLOWER OUTLET DIAMETER	2.5 IN NPT	2.5 IN NPT			
MOTOR POWER RATING ²	3 HP	5 HP			
OPERATING POWER	2.1 KW	2.5 KW			
REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.					



ECOPOD REACTOR LAYOUT 2

L	NO.	DATE	INITIALS	DESCRIPTION	Г	
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Infiltrator Part of **//ADS** INFILTRATOR WATER TECHNOLOGIES, LLC

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

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ECOPOD E500S-N	
STANDARD DESIGN FOR BOD AND NITRIFICATION	

GENERAL ARRANGEMENT DESIGN OVERVIEW

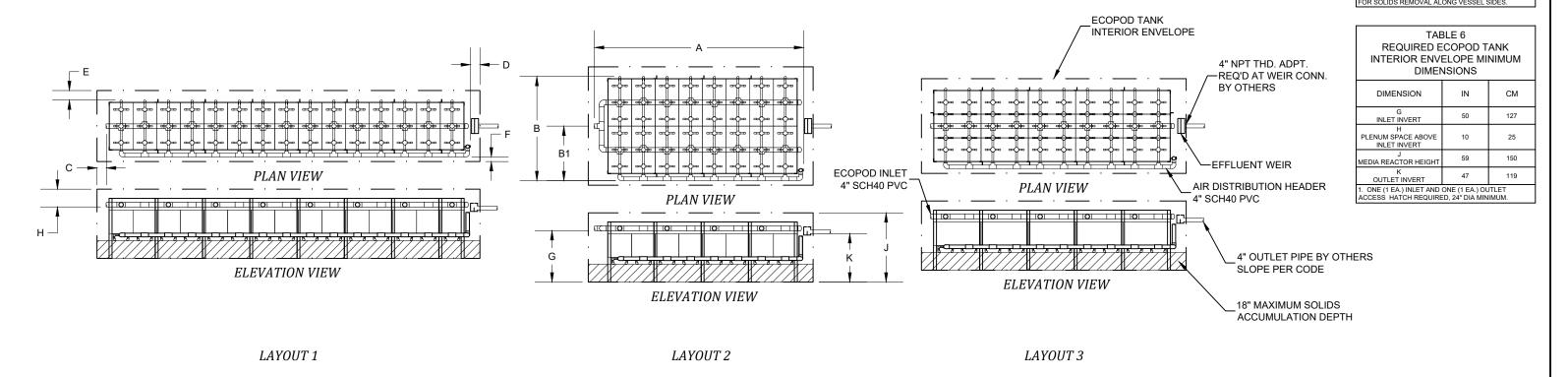
HORIZ. SCALE VERT. SCALE 02/11/2021 DESIGNED BY AOB DRAWN BY CGK C1.0 01 of 02

PROJECT NO.

- GENERAL NOTES
 1. ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
 2. TANK MATERIAL OPTIONS:
- CARBON STEEL PER ASTM A36 W/COATING PER IWT STANDARDS
- FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS),
 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.

TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS										
SITE ELE	VATION	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
0-3,000	0-914	1	2,090	949	372	945	60	153	33	84
0-3,000	0-914	2	1,730	786	215	547	108	275	57	145
0-3,000	0-914	3	1,760	799	252	641	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 DIMENSION 30 12 VESSEL FRONT SPACE 46 VESSEL REAR SPACE AIR HEADER SIDE INSIDE 15 SPACE NO HEADER SIDE INSIDE SPACE I: ADDITIONAL ACCESS HATCHES RECOMMENDED FOR SOLIDS REMOVAL ALONG VESSEL SIDES.



	DESCRIPTION	INITIALS	DATE	NO.
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ECOPOD E500S-N	
STANDARD DESIGN FOR BOD AND NITRIFICATION	

GENERAL ARRANGEMENT LAYOUT DIMENSIONS

٦	HORIZ. SCALE	PROJECT NO.
1	N/A	N/A
1	VERT. SCALE	DATE
1	N/A	05/18/2021
┙	DRAWN BY	DESIGNED BY
٦	CGK	AOB
1	DRAWING NO.	SHEET NO.
	C1.1	02 of 02

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