

- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
 - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHEYLENE (HDPE) OR AISI 304/304L STAINLESS STEEL.
 - 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.
 - 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 E200S BOD ONLY		
PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	2,000 GPD
PEAK DAILY FLOW	-	3,000 GPD
INFLUENT BOD ₅	-	5 LB BOD ₅ /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 2 AIR DEMAND		
PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
STANDARD AIRFLOW	44 SCFM	51 SCFM
SITE AIR REQUIREMENT	50 ICFM	61 ICFM
BLOWER INLET AIR	55 ICFM	78 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	22.6 IN ² 2 EA 4" OR 1 EA 6"	32.1 IN ² 2 EA 6" OR 1 EA 8"
BLOWER SELECTION	FPZ SCL R30-MD	FPZ SCL K04-MS
NOISE LEVEL	72.2 dB(A)	64.8 dB(A)
AIR TEMPERATURE RISE ¹	22 F (12.2 C)	25 F (13.9 C)
BLOWER INLET DIAMETER	1.25 IN NPT	1.5 IN NPT
BLOWER OUTLET DIAMETER	1.25 IN NPT	1.5 IN NPT
MOTOR POWER RATING ²	2 HP	1.5 HP
OPERATING POWER	0.75 KW	0.8 KW
1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL. 2. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.		

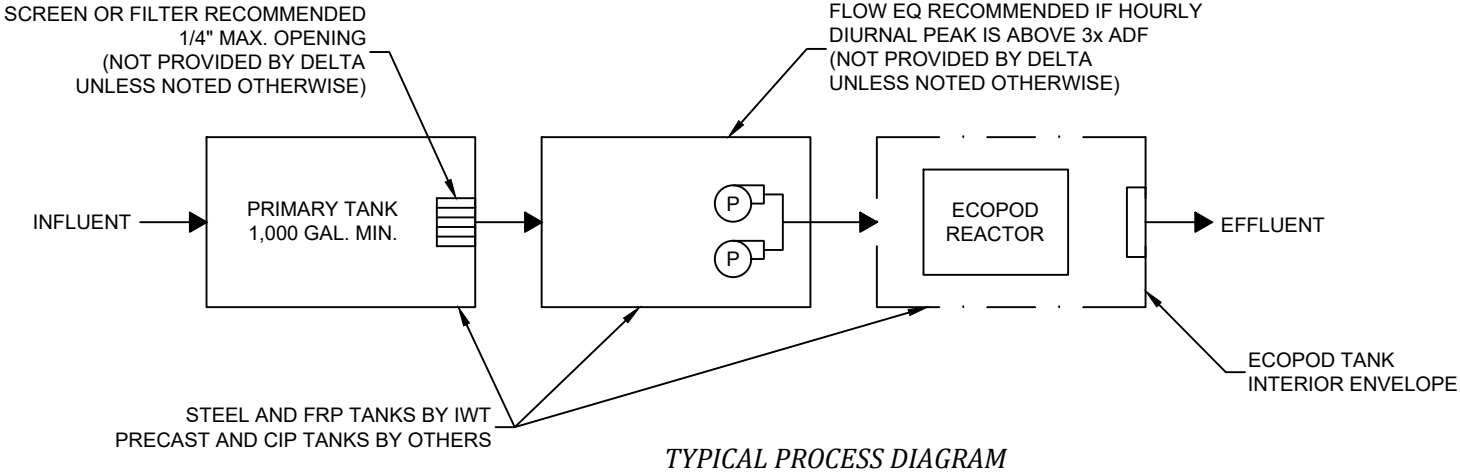
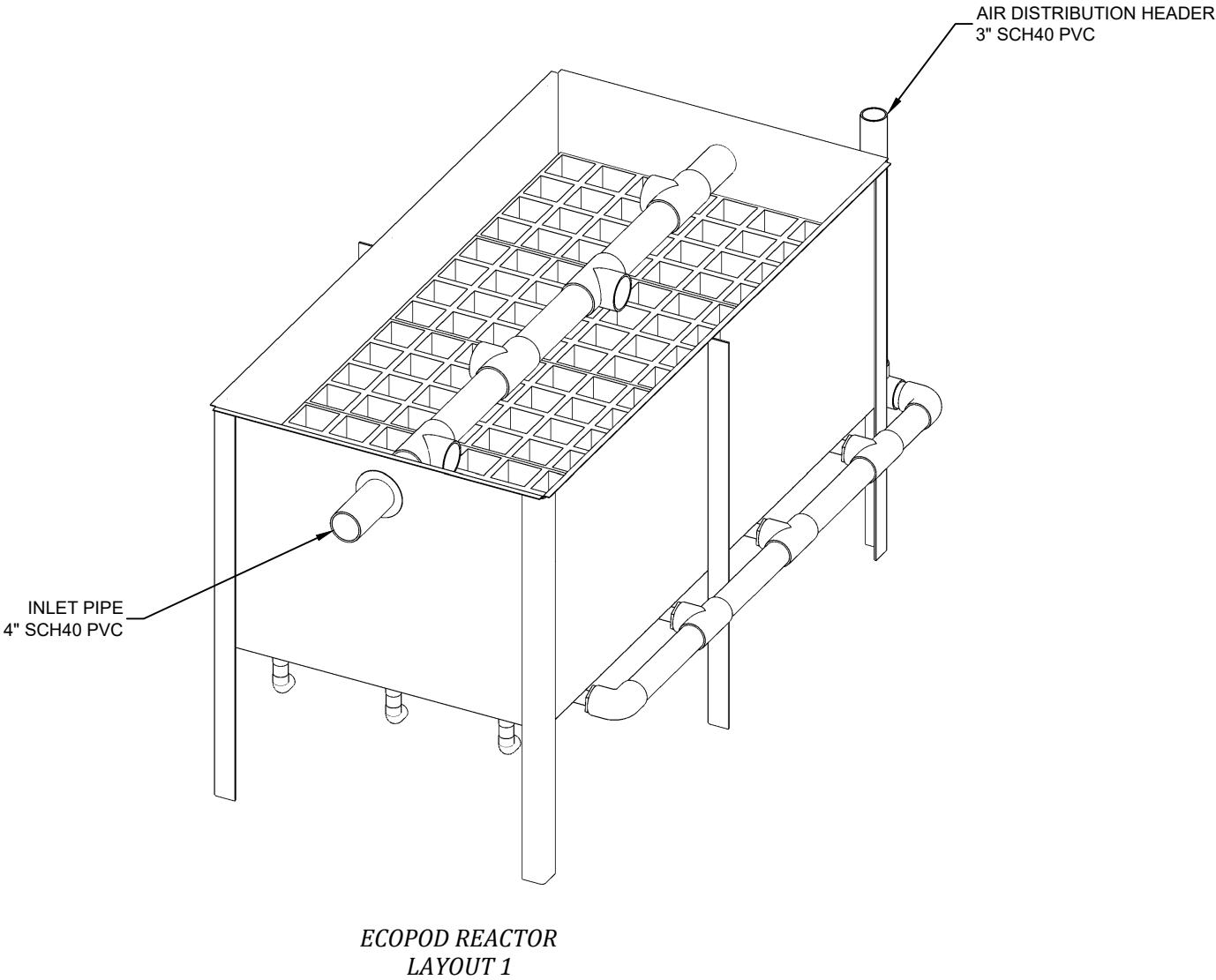


TABLE 3 STANDARD EQUIPMENT LIST			
DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	IWT	E200S
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	IWT	PER DESIGN
24" S.S. EFFLUENT WEIR	1	IWT	TROUGH-3.0



NO.	DATE	INITIALS	DESCRIPTION
A	10/12/21	AOB	ADDED TRIMETRIC VIEW



Part of **ADS**

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ECOPOD E200S STANDARD DESIGN FOR BOD REDUCTION	
GENERAL ARRANGEMENT DESIGN OVERVIEW	

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

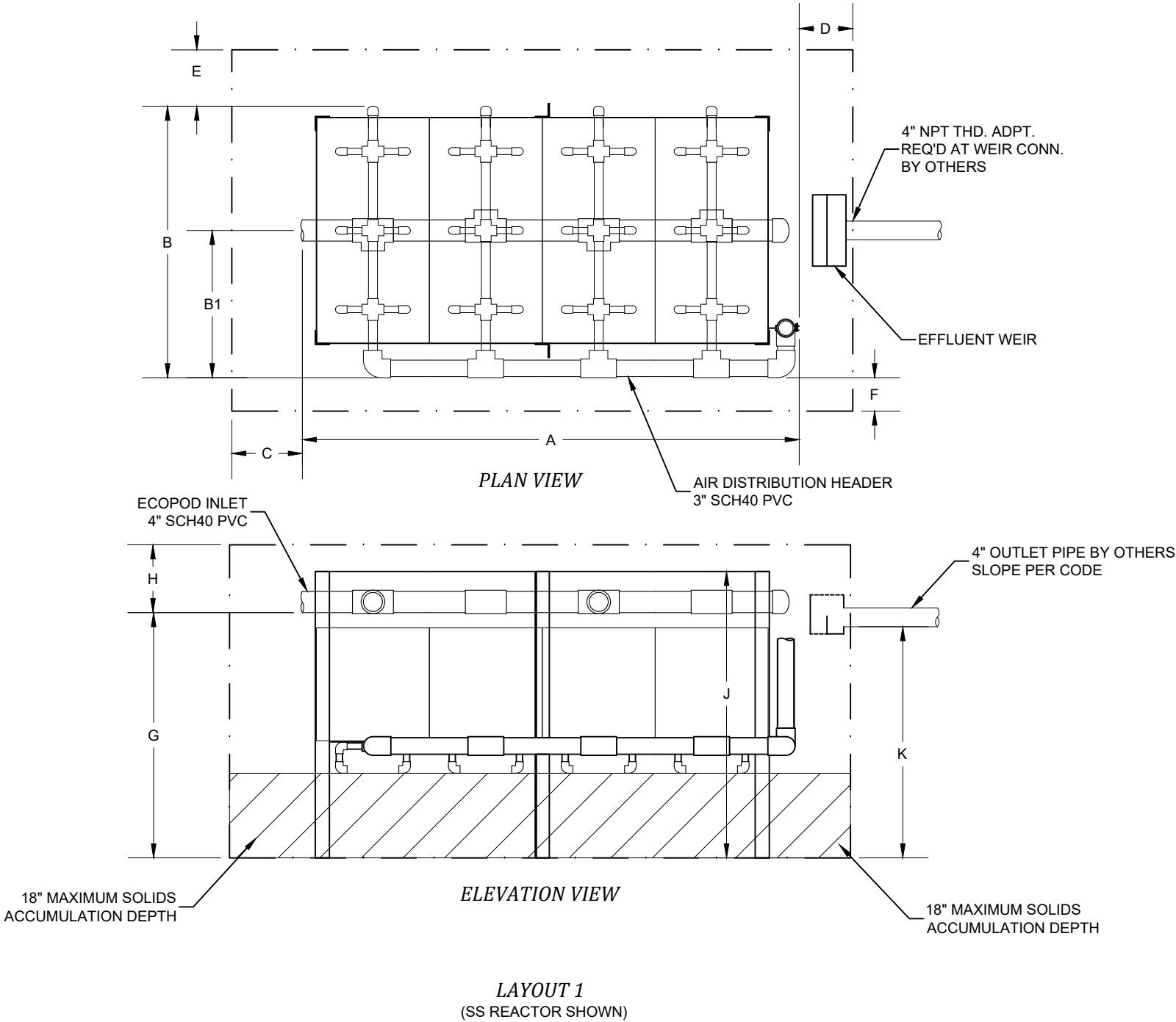
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TABLE 4 MINIMUM ECOPOD REACTOR DIMENSIONS											
SITE ELEVATION		REACTOR MATERIAL	REACTOR WEIGHT		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		LB	KG		IN	CM	IN	CM	IN	CM
0-3,000	0-914	HDPE			1	115	293	60	153	33	84
0-3,000	0-914	SS	660	300	1	106	270	59	150	32	82
1. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT REPRESENTATIVE FOR DETAILS.											

TABLE 5 RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS		
DIMENSION	IN	CM
C VESSEL FRONT SPACE	12	30
D VESSEL REAR SPACE	18	46
E AIR HEADER SIDE INSIDE SPACE	6	15
F NO HEADER SIDE INSIDE SPACE	6	15

TABLE 6 REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS		
DIMENSION	IN	CM
G INLET INVERT	50	127
H PLENUM SPACE ABOVE INLET INVERT	10	25
J MEDIA REACTOR HEIGHT	59	150
K OUTLET INVERT	47	119

1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED, 24" DIA MINIMUM.



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ECOPOD E200S STANDARD DESIGN FOR BOD REDUCTION		HORIZ. SCALE N/A	PROJECT NO. N/A
GENERAL ARRANGEMENT LAYOUT DIMENSIONS		VERT. SCALE N/A	DATE 05/17/2021
		DRAWN BY CGK	DESIGNED BY AOB
		DRAWING NO. C1.0	SHEET NO. 02 of 02