

- 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 AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL SHALL BE SINGLE WALL FIBERGLASS REINFORCED PLASTIC (FRP) PER ASTM D4097.
  - 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 <sub>5</sub>	-	5 LB BOD <sub>5</sub> /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	22.7 IN <sup>2</sup> 2 EA 4" OR 1 EA 6"	32.1 IN <sup>2</sup> 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 <sup>1</sup>	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 <sup>2</sup>	2 HP	1.5 HP
OPERATING POWER	0.75 KW	0.8 KW
STARTING CURRENT	96/48.2 A @ 115/208-230V 1-PH 60HZ 51.4-51.9/25.9 A @ 208-230/460V 3-PH 60HZ	49.3/23.2 A @ 115/208-230V 1-PH 60HZ 40.5-40.4/20.2 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	19.4/9.8 A @ 115/208-230V 1-PH 60HZ 5.91-5.96/2.98 A @ 208-230/460V 3-PH 60HZ	14.6/7.6-7.3 A @ 115/208-230V 1-PH 60HZ 4.35-4.34/2.17 A @ 208-230/460V 3-PH 60HZ
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

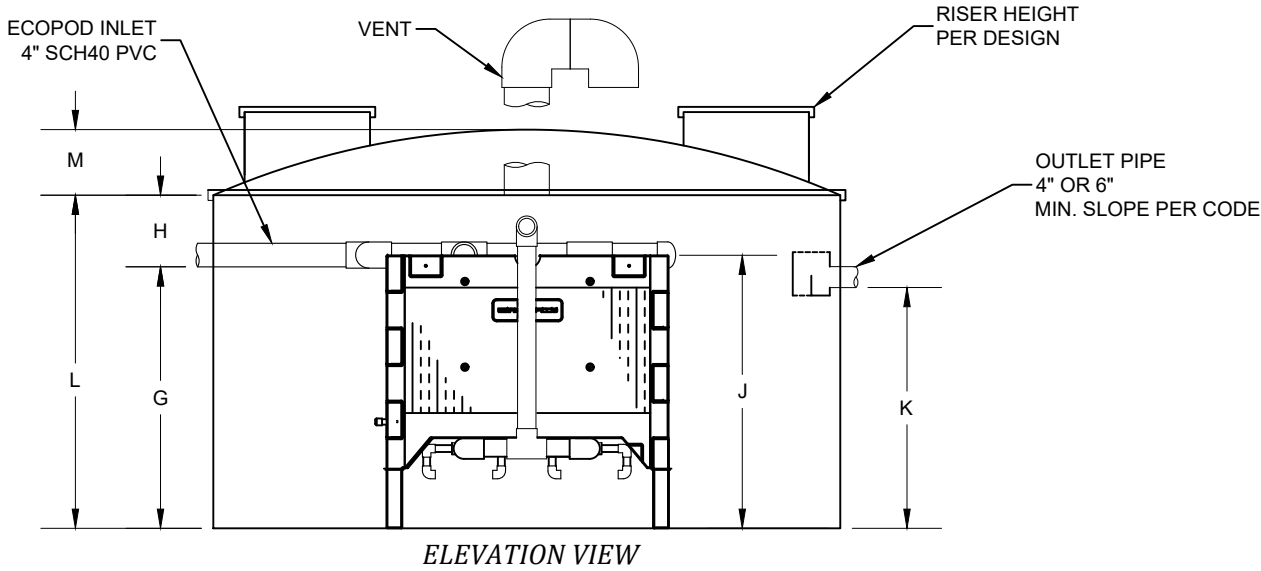
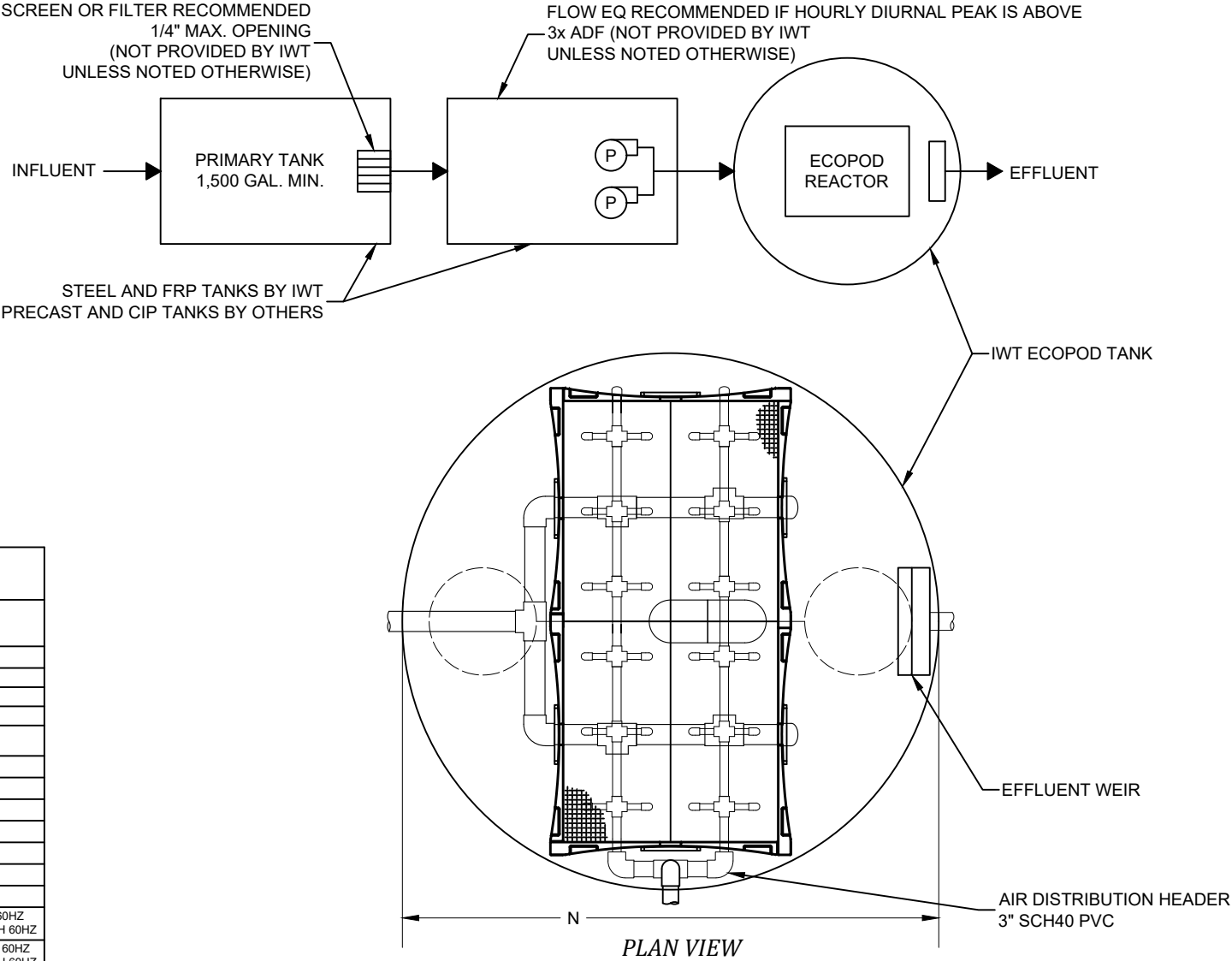


TABLE 4 (NOT APPLICABLE) MINIMUM ECOPOD REACTOR DIMENSIONS									
SITE ELEVATION		REACTOR MATERIAL	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M			IN	CM	IN	CM	IN	CM
INTENTIONALLY LEFT BLANK.									

TABLE 5 (NOT APPLICABLE) RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS		
DIMENSION	IN	CM
C VESSEL FRONT SPACE		
D VESSEL REAR SPACE		
E AIR HEADER SIDE INSIDE SPACE		
F NO HEADER SIDE INSIDE SPACE		
INTENTIONALLY LEFT BLANK.		

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 RISER REQUIRED, 24" DIA MINIMUM.		

TABLE 7 VC ECOPOD TANK EXTERIOR DIMENSIONS		
DIMENSION	IN	CM
L = G + H TANK WALL HEIGHT	60	152
M TANK DOME HEIGHT	12	30
N TANK DIAMETER <sup>1</sup>	120	305
1. PIPE PENETRATIONS EXTEND 3 IN. FROM TANK WALL		

NO.	DATE	INITIALS	DESCRIPTION



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**ECOPOD E200S-VC**  
STANDARD DESIGN FOR BOD REDUCTION

**GENERAL ARRANGEMENT**

HORIZ. SCALE N/A	PROJECT NO. N/A
VERT. SCALE N/A	DATE 07/20/2021
DRAWN BY CGK	DESIGNED BY AOB
DRAWING NO. C1.0	SHEET NO. 01 of 01