

- 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. COMMERCIAL OR NON-DOMESTIC WASTEWATER STREAMS ARE NOT INCLUDED IN THIS SCOPE AND MAY REQUIRE SEPARATE EVALUATION. CONTACT IWT FOR COMMERCIAL WASTEWATER TREATMENT REVIEW AND DESIGN REQUIREMENTS.
  - 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 E800D BOD ONLY**

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	8,000 GPD
PEAK DAILY FLOW	-	12,000 GPD
INFLUENT BOD <sub>5</sub>	-	20 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

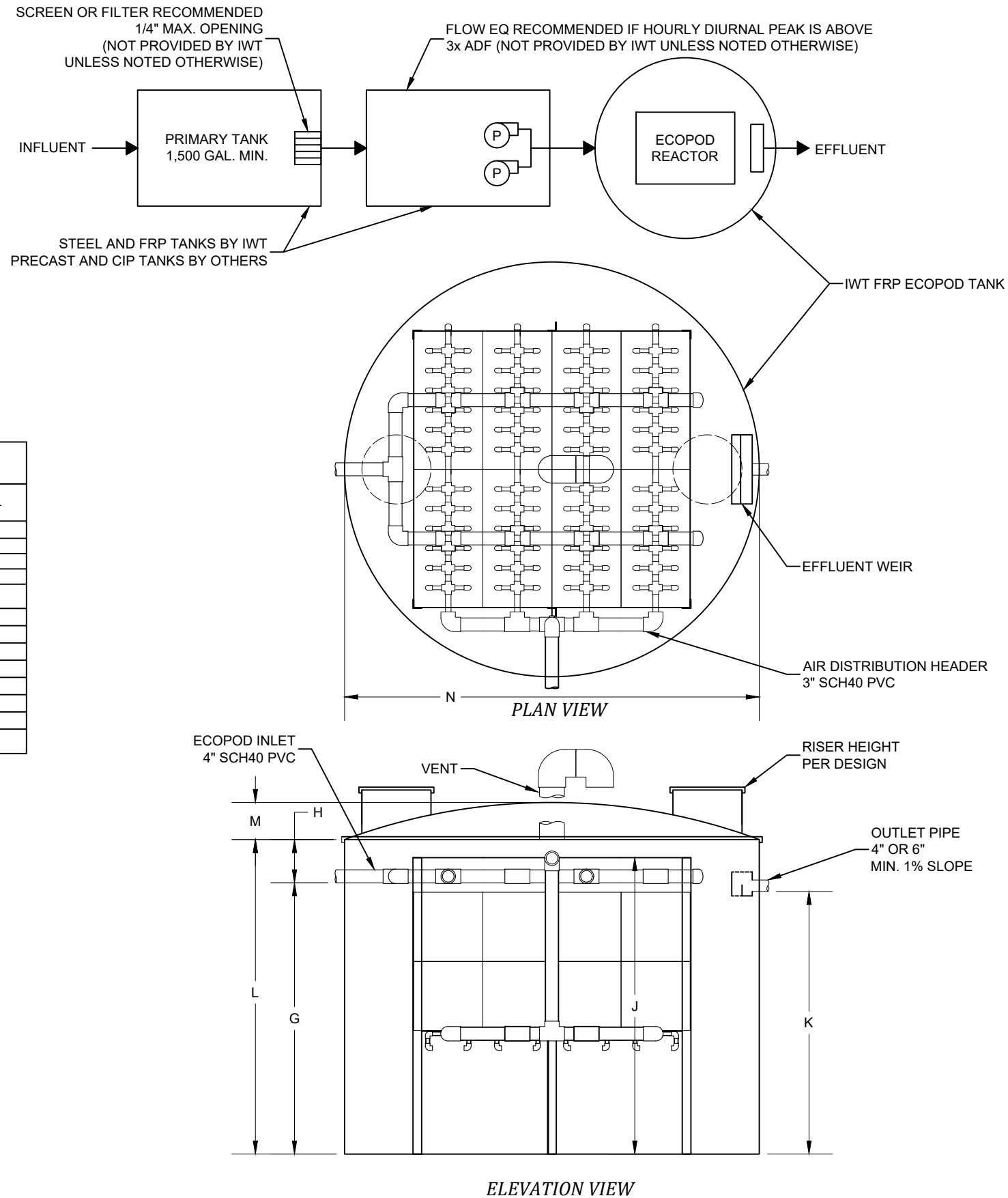
**TABLE 2  
AIR DEMAND**

PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
STANDARD AIRFLOW	97 SCFM	113 SCFM
SITE AIR REQUIREMENT	109 ICFM	136 ICFM
BLOWER INLET AIR	116 ICFM	169 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	47.8 IN <sup>2</sup> 2 EA 6" OR 1 EA 8"	69.6 IN <sup>2</sup> 2 EA 8" OR 1 EA 10"
BLOWER SELECTION	FPZ SCL K05-MS	FPZ SCL K06-MS
NOISE LEVEL	70.8 dB(A)	73.3 dB(A)
AIR TEMPERATURE RISE <sup>1</sup>	33 F (18.3 C)	32 F (17.8 C)
BLOWER INLET DIAMETER	2 IN NPT	2 IN NPT
BLOWER OUTLET DIAMETER	2 IN NPT	2 IN NPT
MOTOR POWER RATING <sup>2</sup>	3 HP	4 HP
OPERATING POWER	1.7 KW	2.6 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	E800D
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		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	92	234
H PLENUM SPACE ABOVE INLET INVERT	10	25
J MEDIA REACTOR HEIGHT	101	257
K OUTLET INVERT	89	226

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	102	259
M TANK DOME HEIGHT	12	30
N TANK DIAMETER <sup>1</sup>	144	366

1. PIPE PENETRATIONS EXTEND 3 IN. FROM TANK WALL

NO.	DATE	INITIALS	DESCRIPTION

**Infiltrator**  
Water Technologies  
Part of **ADS**

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**ECOPOD E800D-VC  
STANDARD DESIGN FOR BOD REDUCTION**

**GENERAL ARRANGEMENT**

HORIZ. SCALE	PROJECT NO.
N/A	N/A
VERT. SCALE	DATE
N/A	07/21/2021
DRAWN BY	DESIGNED BY
CGK	AOB
DRAWING NO.	SHEET NO.
C1.0	01 of 01