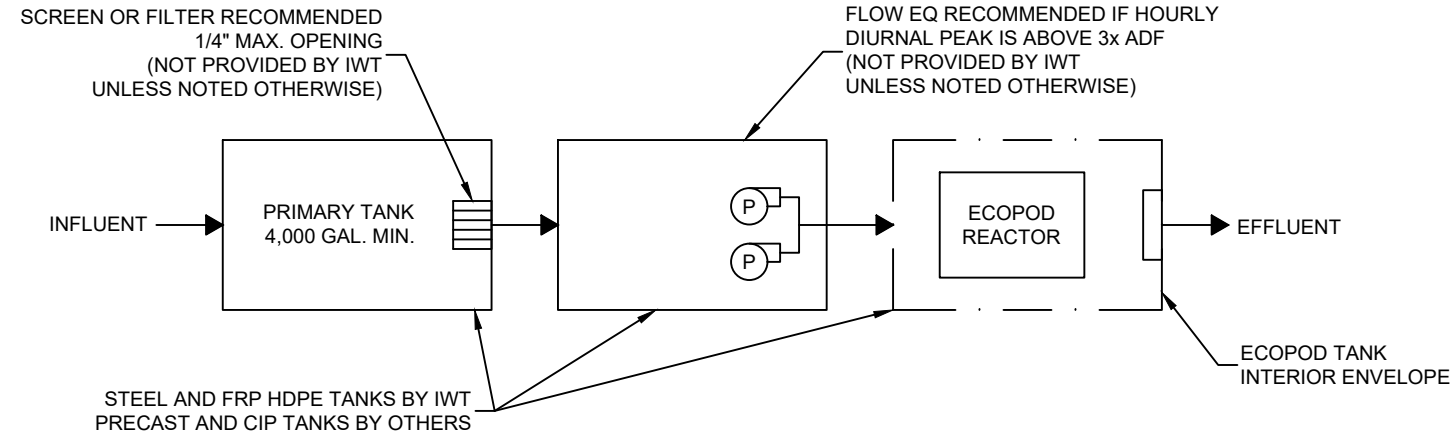


**GENERAL NOTES**

- 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 HIGH DENSITY POLYETHYLENE (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 SHIPPED BY CONTRACTOR.
- SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
- CONTACT AN IWT REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	IWT	E800D-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

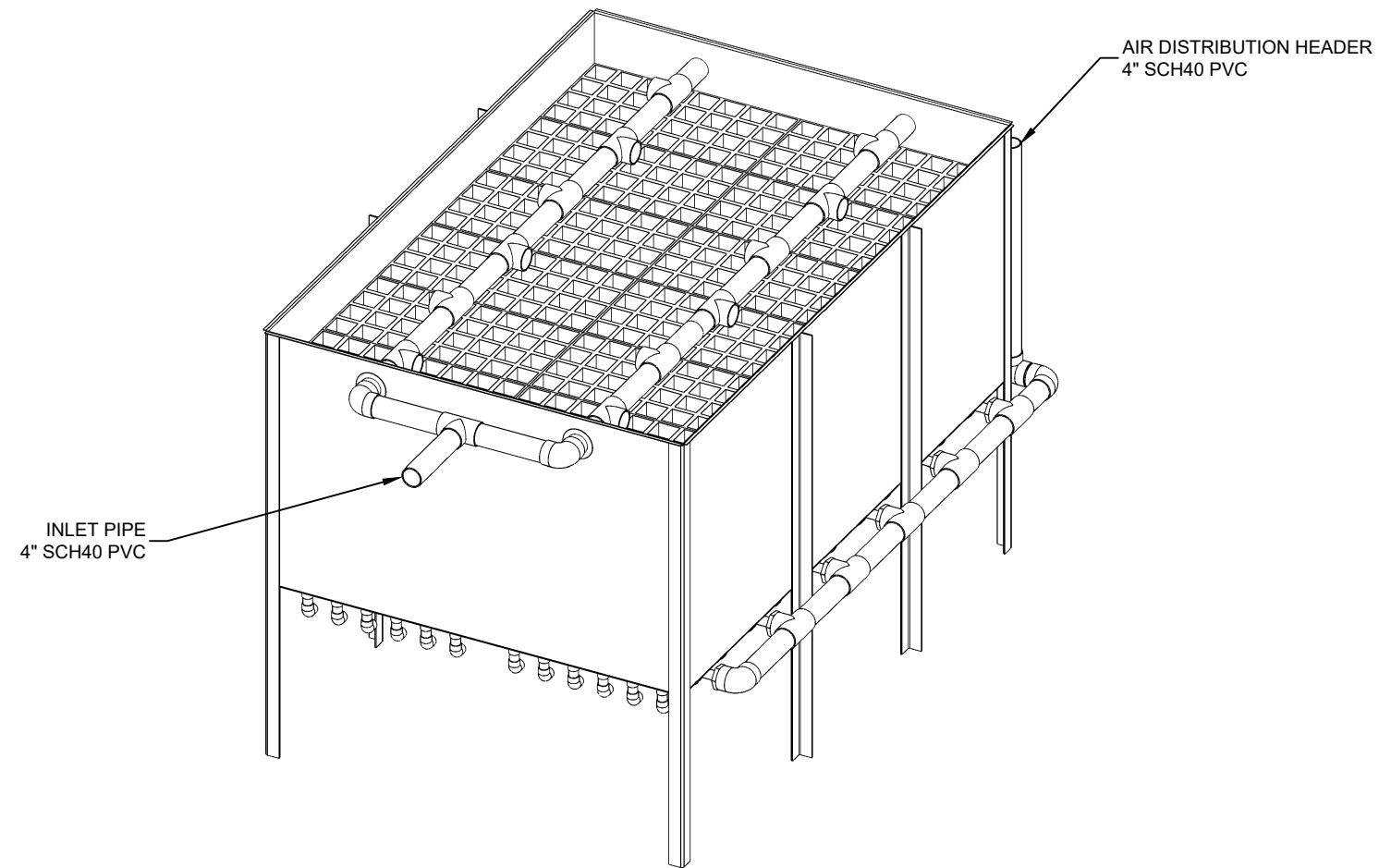
PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	8,000 GPD
PEAK DAILY FLOW	-	12,000 GPD
INFLUENT BOD <sub>5</sub>	-	20 LB/DAY
AIR TEMPERATURE	-	115 °F
WATER TEMPERATURE	68 °F	68 °F
RELATIVE HUMIDITY	10%	90%
SITE ELEVATION	0 FT AMSL	3,000 FT AMSL



TYPICAL PROCESS DIAGRAM

PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
STANDARD AIRFLOW	183 SCFM	213 SCFM
SITE AIR REQUIREMENT	206 ICFM	256 ICFM
BLOWER INLET AIR	206 ICFM	256 ICFM
AIR HEADER SIZE	4 IN	4 IN
MIN. TANK VENT X-SECT. AREA	84.8 IN <sup>2</sup> 2 EA 8" OR 1 EA 12"	105 IN <sup>2</sup> 2 EA 10" OR 1 EA 12"
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 3L
NOISE LEVEL	ENCLOSURE DEPENDENT	ENCLOSURE DEPENDENT
AIR TEMPERATURE RISE <sup>1</sup>	30 F (16.7 C)	30 F (16.7 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 <sup>2</sup>	5 HP	5 HP
OPERATING POWER	2.4 KW	2.8 KW

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.  
2. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.



ECOPOD REACTOR  
LAYOUT 2

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

**Infiltrator**  
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Part of ADS

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ECOPOD E800D-N  
STANDARD DESIGN FOR BOD AND NITRIFICATION

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

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