

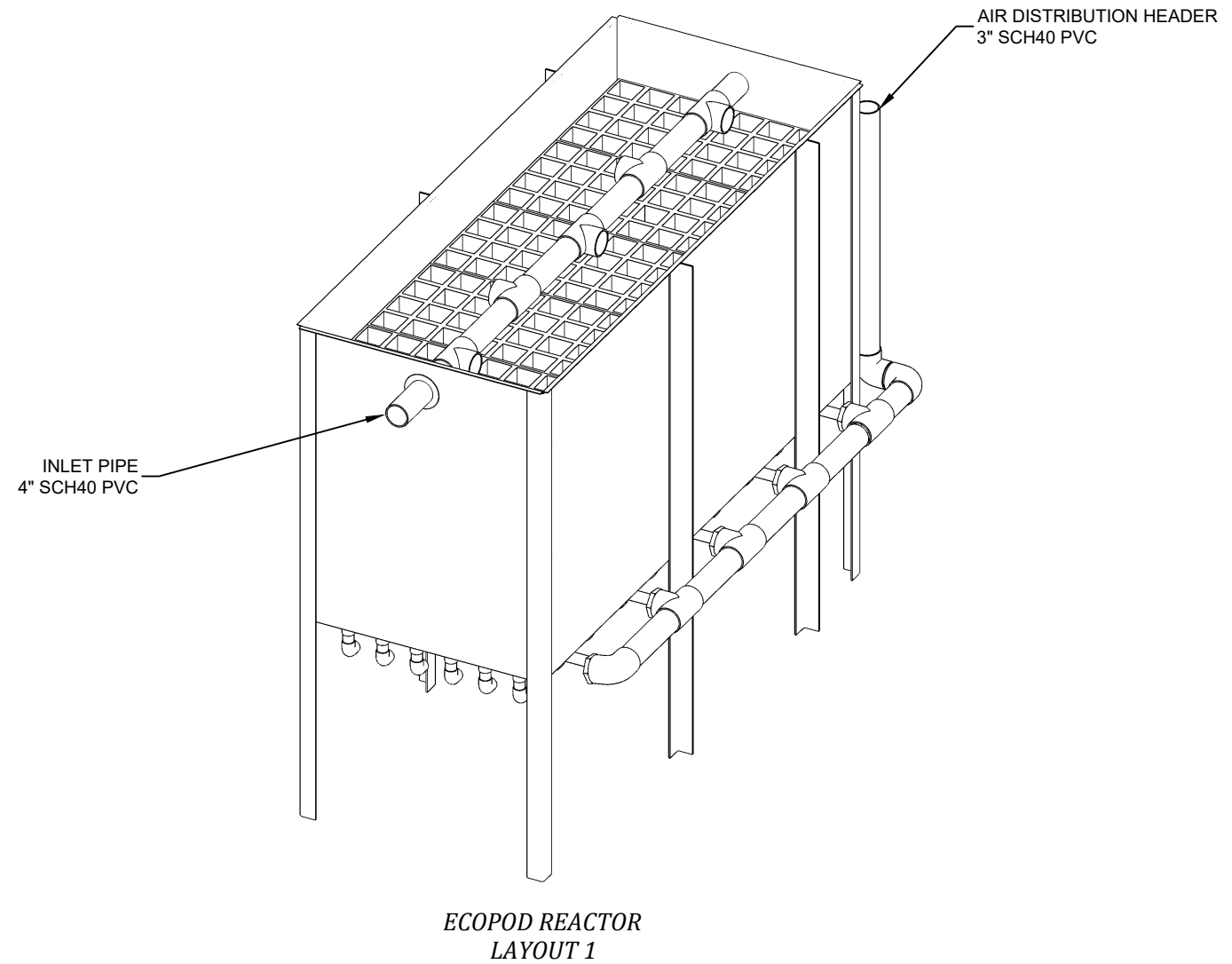
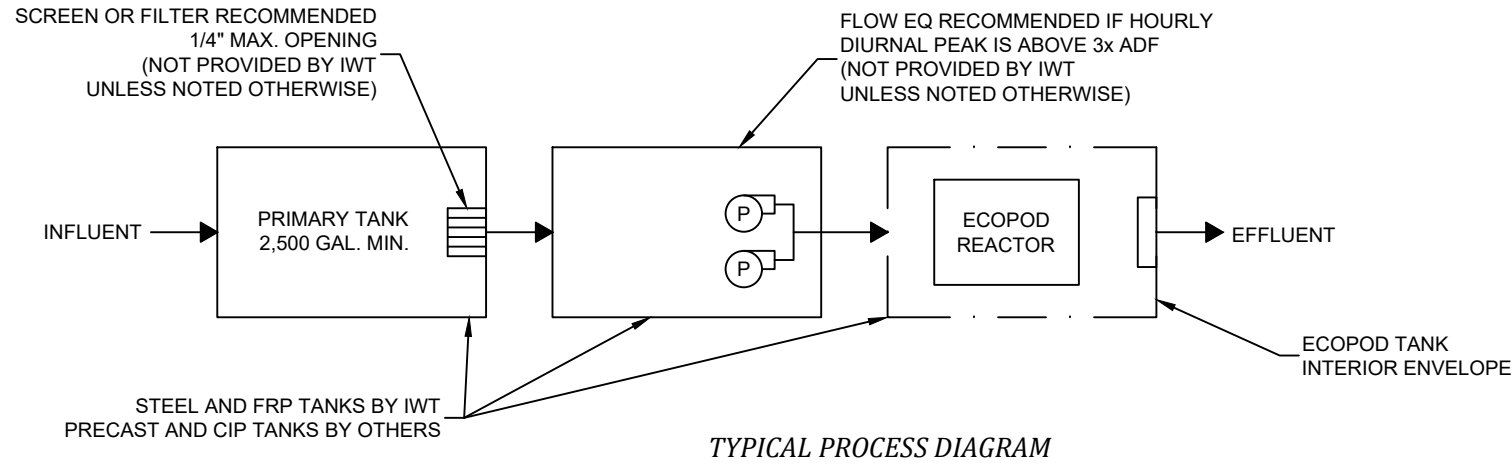
- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1. COMMERCIAL OR NON-DOMESTIC WASTEWATER STREAMS ARE NOT INCLUDED IN THIS SCOPE AND MAY REQUIRE SEPARATE EVALUATION. CONTACT 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 INSTALLED BY CONTRACTOR.
  - SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
  - CONTACT AN IWT REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.

| PARAMETER                 | MINIMUM   | MAXIMUM       |
|---------------------------|-----------|---------------|
| AVERAGE DAILY FLOW        | -         | 5,000 GPD     |
| PEAK DAILY FLOW           | -         | 7,500 GPD     |
| INFLUENT BOD <sub>5</sub> | -         | 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 |

| PARAMETER                         | UP TO 1,000 FT AMSL             | 1,000 TO 3,000 FT AMSL                     |
|-----------------------------------|---------------------------------|--|
| STANDARD AIRFLOW                  | 61 SCFM                         | 71 SCFM                                    |
| SITE AIR REQUIREMENT              | 68 ICFM                         | 85 ICFM                                    |
| BLOWER INLET AIR                  | 67 ICFM                         | 116 ICFM                                   |
| AIR HEADER SIZE                   | 3 IN                            | 3 IN                                       |
| MIN. TANK VENT X-SECT. AREA       | 27.6 IN <sup>2</sup><br>1 EA 6" | 47.7 IN <sup>2</sup><br>2 EA 6" OR 1 EA 8" |
| BLOWER SELECTION                  | FPZ SCL K04-MS                  | FPZ SCL K05-MS <sup>3</sup>                |
| NOISE LEVEL                       | 65.0 dB(A)                      | 70.8 dB(A)                                 |
| AIR TEMPERATURE RISE <sup>1</sup> | 41 F (22.8 C)                   | 33 F (18.3 C)                              |
| BLOWER INLET DIAMETER             | 1.5 IN NPT                      | 2 IN NPT                                   |
| BLOWER OUTLET DIAMETER            | 1.5 IN NPT                      | 2 IN NPT                                   |
| MOTOR POWER RATING <sup>2</sup>   | 2 HP                            | 3 HP                                       |
| OPERATING POWER                   | 1.1 KW                          | 1.7 KW                                     |

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.  
 2. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.  
 3. USE ALTERNATIVE BLOWER GARDNER DENVER 2L ON HIGH ELEVATION RANGE IF REQUIRED. SEE CALCULATIONS FOR DETAILS.

| DESCRIPTION            | QTY | MAKE | MODEL       |
|------------------------|-----|------|-------------|
| ECOPOD REACTOR         | 1   | IWT  | E500D       |
| 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 |
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**Infiltrator**  
Water Technologies  
Part of ADS

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ECOPOD E500D  
STANDARD DESIGN FOR BOD REDUCTION

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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| SITE ELEVATION |       | LAYOUT ID | REACTOR WEIGHT |     | A OVERALL LENGTH |     | B OVERALL WIDTH |     | B1 AIR HEADER CL DIM |     |
|----------------|-------|-----------|----------------|-----|------------------|-----|-----------------|-----|----------------------|-----|
| FT             | M     |           | LB             | KG  | IN               | CM  | IN              | CM  | IN                   | CM  |
| 0-1,000        | 0-305 | 1         | 1,400          | 636 | 130              | 331 | 59              | 150 | 32                   | 82  |
| 0-1,000        | 0-305 | 2         | 1,420          | 645 | 93               | 237 | 107             | 272 | 56                   | 143 |
| 0-1,000        | 0-305 | 3         | 1,450          | 658 | 106              | 270 | 83              | 211 | 44                   | 112 |

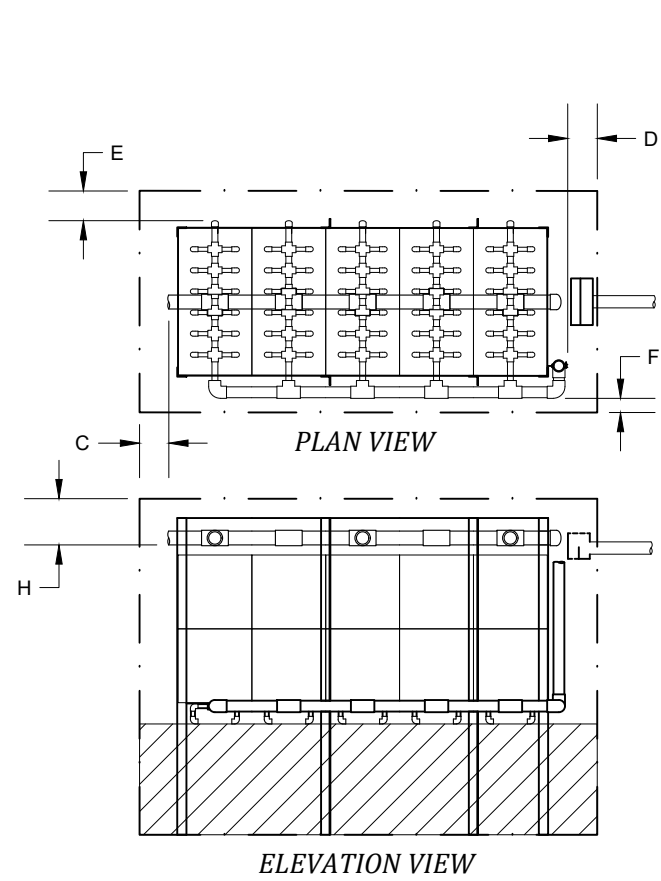
1. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT REPRESENTATIVE FOR DETAILS.

| DIMENSION                         | IN | CM |
|-----------------------------------|----|----|
| C<br>VESSEL FRONT SPACE           | 12 | 30 |
| D<br>VESSEL REAR SPACE            | 18 | 46 |
| E<br>AIR HEADER SIDE INSIDE SPACE | 6  | 15 |
| F<br>NO HEADER SIDE INSIDE SPACE  | 6  | 15 |

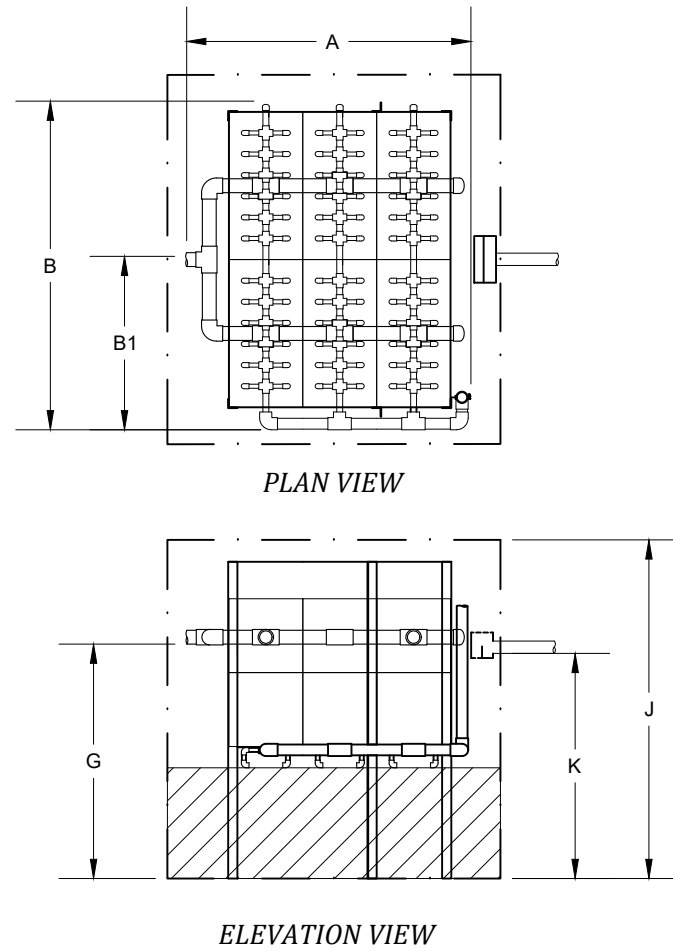
1. ADDITIONAL ACCESS HATCHES RECOMMENDED FOR SOLIDS REMOVAL ALONG VESSEL SIDES.

| DIMENSION                            | IN  | CM  |
|--------------------------------------|-----|-----|
| G<br>INLET INVERT                    | 92  | 234 |
| H<br>PLENUM SPACE ABOVE INLET INVERT | 10  | 25  |
| J<br>MEDIA REACTOR HEIGHT            | 101 | 257 |
| K<br>OUTLET INVERT                   | 89  | 226 |

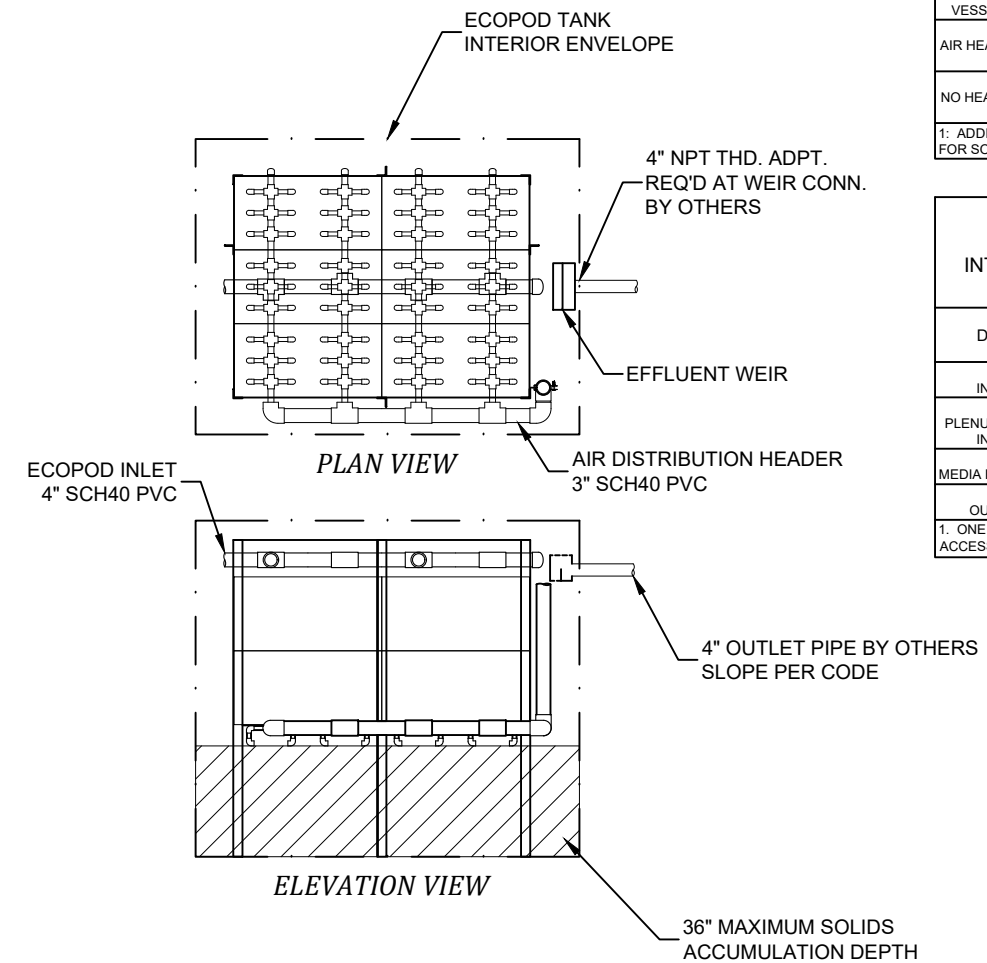
1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED, 24" DIA MINIMUM.



LAYOUT 1



LAYOUT 2



LAYOUT 3

| NO. | DATE | INITIALS | DESCRIPTION |
|-----|------|----------|-------------|
|     |      |          |             |
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ECOPOD E500D  
STANDARD DESIGN FOR BOD REDUCTION

GENERAL ARRANGEMENT  
LAYOUT DIMENSIONS

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

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