

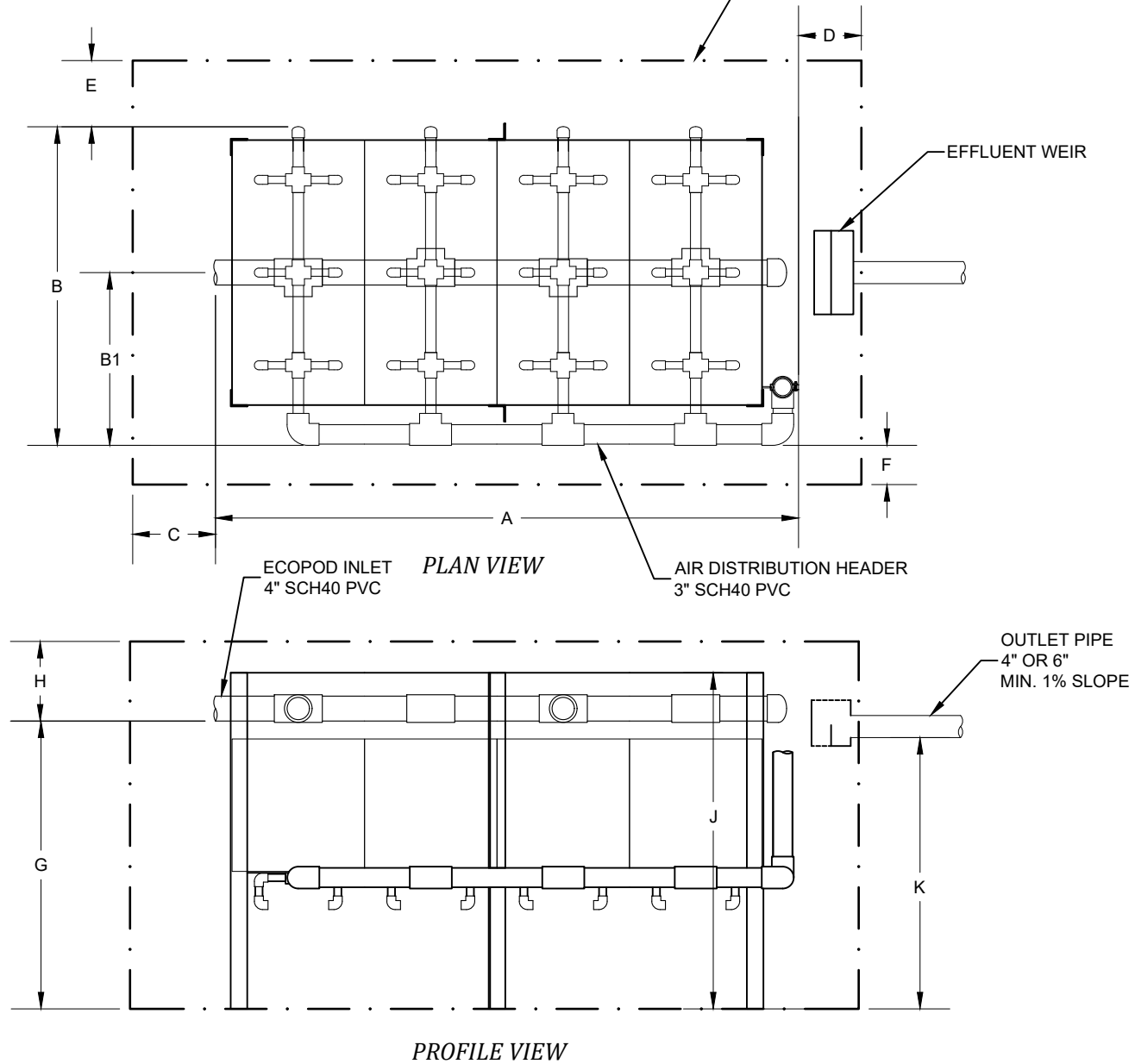
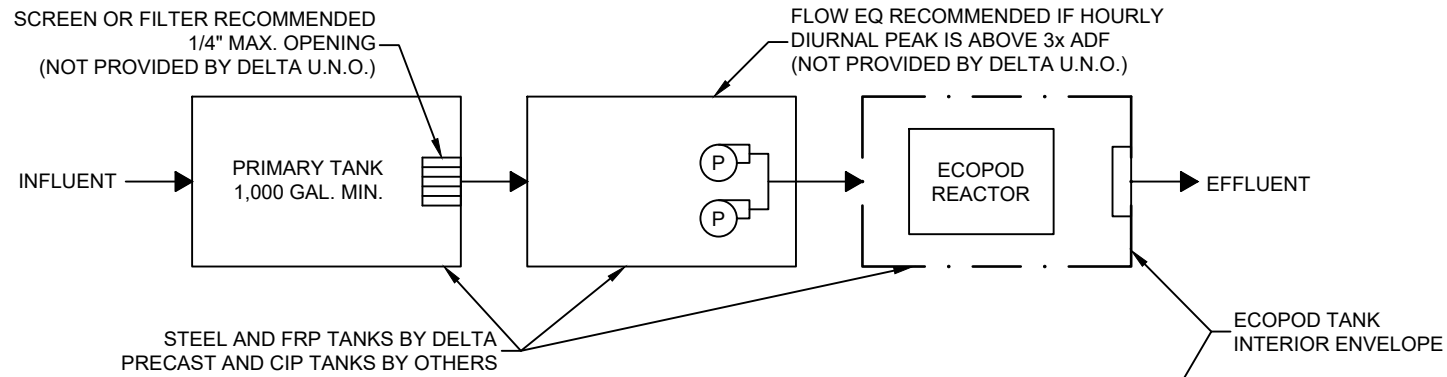
- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE (HDPE) OR AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	2,000 GPD
PEAK DAILY FLOW	-	3,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	5 LB BOD <sub>5</sub> /DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	49 SCFM	57 SCFM
SITE AIR REQUIREMENT	55 ICFM	68 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	22 F (12.2 C)	25 F (13.9 C)
BLOWER INLET DIAMETER	1.25 NPT	1.5 NPT
BLOWER OUTLET DIAMETER	1.25 NPT	1.5 NPT
MOTOR SELECTION	2 HP	1.5 HP
OPERATING POWER	1 HP	1.1 HP
STARTING CURRENT	96/48.2 A @ 115-208/230V 1-PH 60HZ 51.9/25.9 A @ 208-230/460V 3-PH 60HZ	49.3/23.2 A @ 115-208/230V 1-PH 60HZ 40.5/20.2 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	19.4/9.8 A @ 115-208/230V 1-PH 60HZ 6.0/3.0 A @ 208-230/460V 3-PH 60HZ	14.6/7.6 A @ 115-208/230V 1-PH 60HZ 4.35/2.17 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E200S
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION	REACTOR MATERIAL	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
			IN	CM	IN	CM	IN	CM
0-3,000	HDPE	1	106	70	60	153	33	84
0-3,000	SS	1	154	392	56	143	32	82


1. LAYOUT 1 (SS) SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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

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.

NO.	DATE	INITIALS	DESCRIPTION


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 An Infiltrator Water Technologies Company

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**DELTA ECOPOD E200S**  
**STANDARD DESIGN FOR BOD REDUCTION**

**GENERAL ARRANGEMENT**

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 01

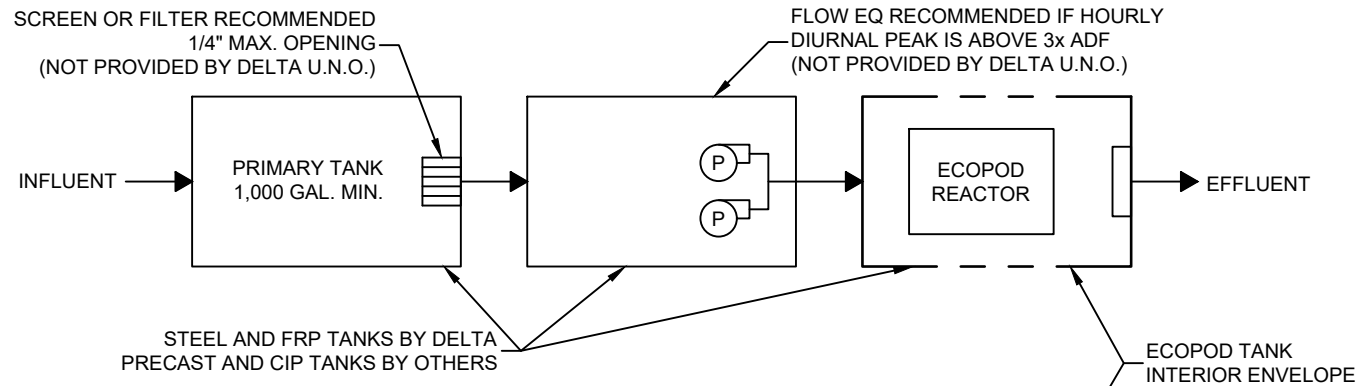
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PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	2,000 GPD
PEAK DAILY FLOW	-	3,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	5 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °F
RELATIVE HUMIDITY	10%	90%
SITE ELEVATION	0 FT AMSL	3,000 FT AMSL

PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
STANDARD AIRFLOW	92 SCFM	107 SCFM
SITE AIR REQUIREMENT	103 ICFM	128 ICFM
BLOWER INLET AIR	130 ICFM	130 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	53.5 IN <sup>2</sup> 2 EA 6" OR 1 EA 10"	53.5 IN <sup>2</sup> 2 EA 6" OR 1 EA 10"
BLOWER SELECTION	FPZ SCL K05-MS	FPZ SCL K05-MS
NOISE LEVEL	65.0 dB(A)	65.0 dB(A)
AIR TEMPERATURE RISE	21 F (11.7 C)	21 F (11.7 C)
BLOWER INLET DIAMETER	2 NPT	2 NPT
BLOWER OUTLET DIAMETER	2 NPT	2 NPT
MOTOR SELECTION	2 HP	2 HP
OPERATING POWER	1.6 HP	1.6 HP
STARTING CURRENT	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E200S-N
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



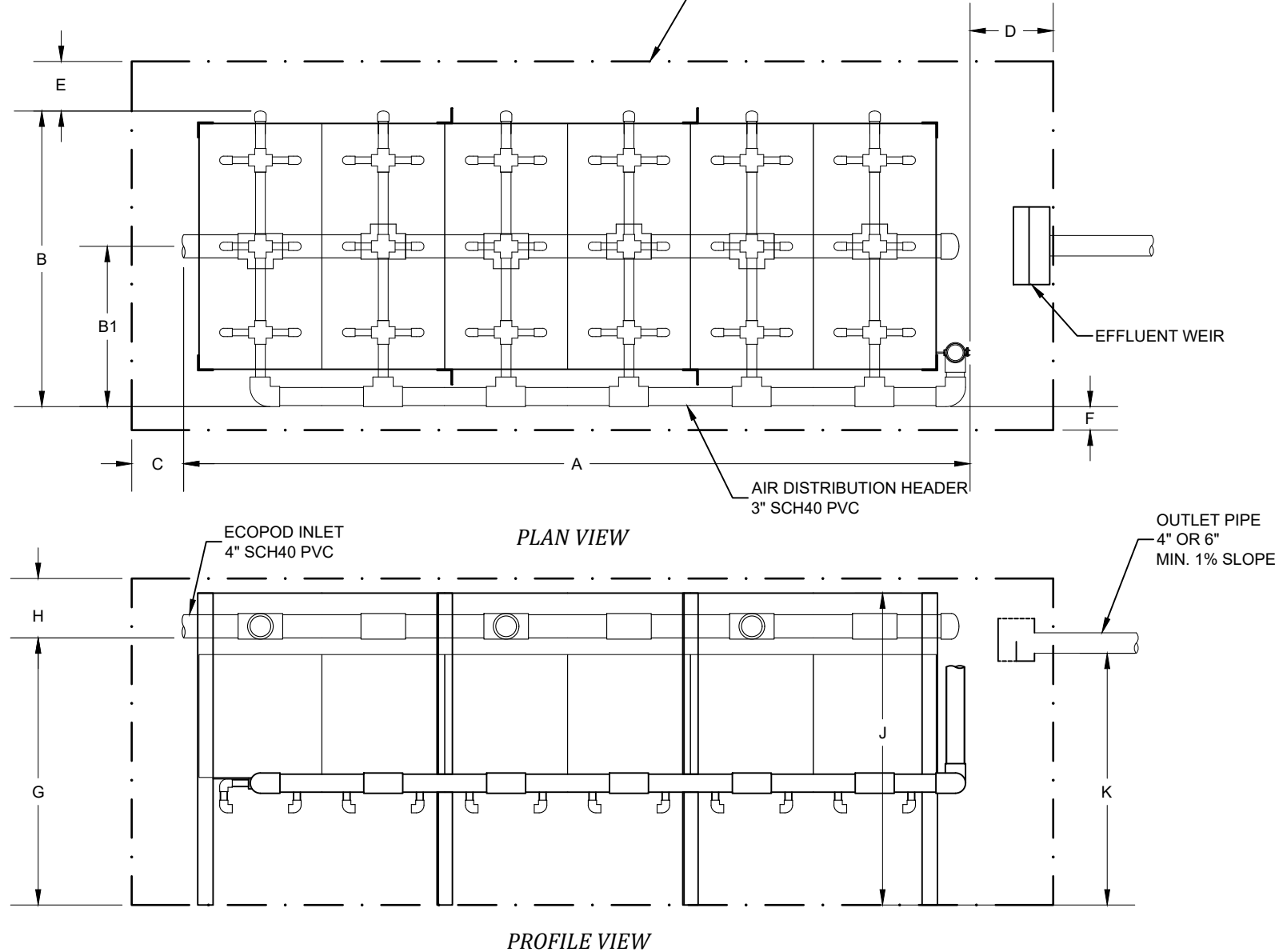
SITE ELEVATION	REACTOR MATERIAL	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
			IN	CM	IN	CM	IN	CM	
0-3,000	0-914	HDPE	1	160	407	60	153	33	84
0-3,000	0-914	SS	1	154	392	56	143	32	82
0-3,000	0-914	SS	2	93	237	106	270	56	143
0-3,000	0-914	SS	3	117	298	82	209	44	112

1. LAYOUT 1 (SS) SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.


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

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.



NO.	DATE	INITIALS	DESCRIPTION


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**DELTA ECOPOD E200S-N**  
**STANDARD DESIGN FOR BOD AND NITRIFICATION**  
  
**GENERAL ARRANGEMENT**

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 01

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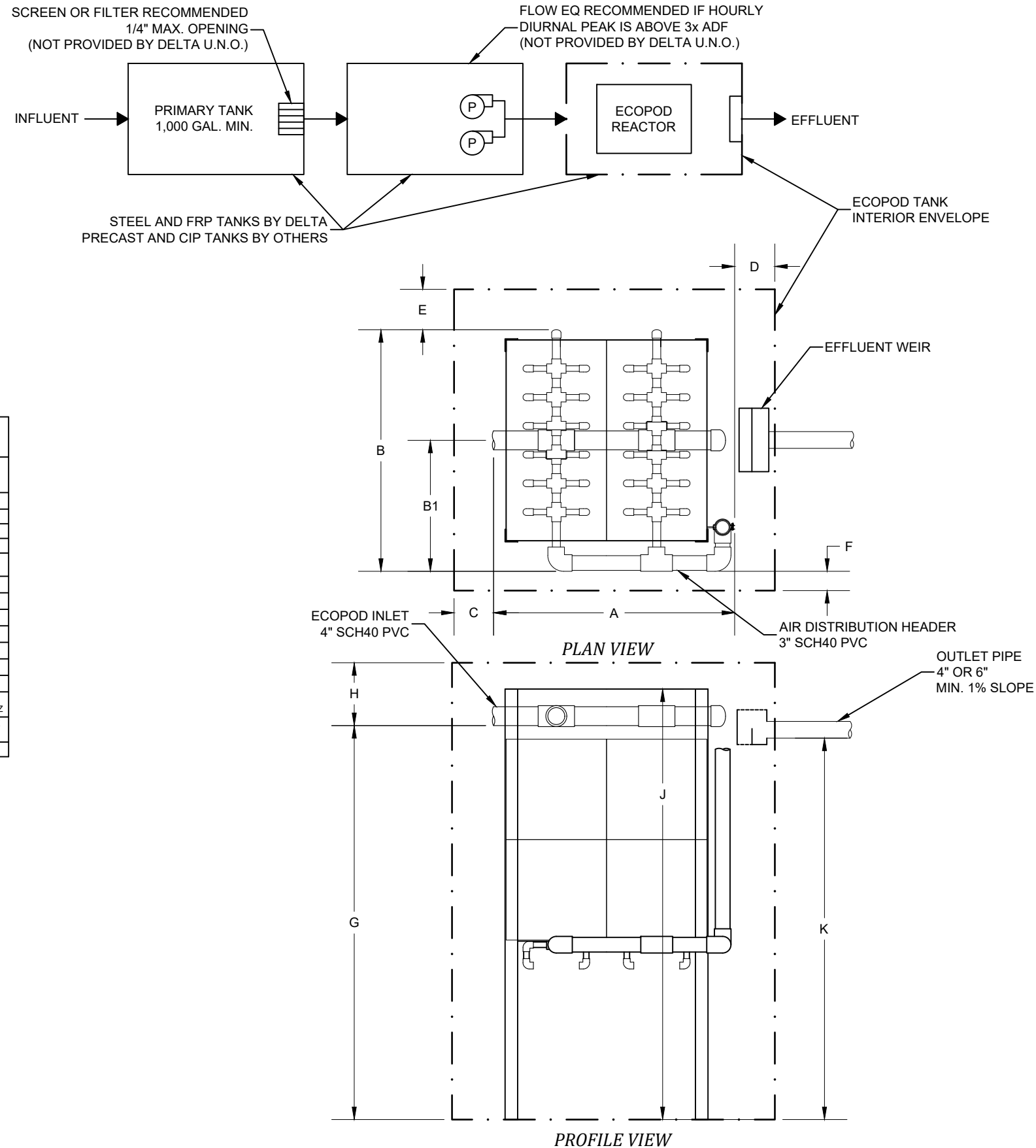
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  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA STANDARDS.
    - FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS).
    - PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
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PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	2,000 GPD
PEAK DAILY FLOW	-	3,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	5 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	22 SCFM	28 SCFM
SITE AIR REQUIREMENT	27 ICFM	34 ICFM
BLOWER INLET AIR	29 ICFM	50 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	12 IN <sup>2</sup> 1 EA 4"	21 IN <sup>2</sup> 2 EA 4" OR 1 EA 6"
BLOWER SELECTION	FPZ SCL R20-MD	FPZ SCL R30-MD
NOISE LEVEL	68.5 dB(A)	72.2 dB(A)
AIR TEMPERATURE RISE	42 F (23.3 C)	29 F (16.1 C)
BLOWER INLET DIAMETER	1.25 NPT	1.25 NPT
BLOWER OUTLET DIAMETER	1.25 NPT	1.25 NPT
MOTOR SELECTION	1.5 HP	2 HP
OPERATING POWER	0.77 HP	1.25 HP
STARTING CURRENT	71.1/35 A @ 115-208/230V 1-PH 60HZ 40.9/20.4 A @ 208-230/460V 3-PH 60HZ	96/48.2 A @ 115-208/230V 1-PH 60HZ 52.2/26.1 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	14.3/7.2 A @ 115-208/230V 1-PH 60HZ 4.4/2.2 A @ 208-230/460V 3-PH 60HZ	19.4/9.8 A @ 115-208/230V 1-PH 60HZ 6.0/3.0 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E200D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	58	148	58	148	32	82


1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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

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 HATCH REQUIRED, 24" DIA MINIMUM.

NO.	DATE	INITIALS	DESCRIPTION


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**DELTA ECOPOD E200D**  
**STANDARD DESIGN FOR BOD REDUCTION**

**GENERAL ARRANGEMENT**

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 01

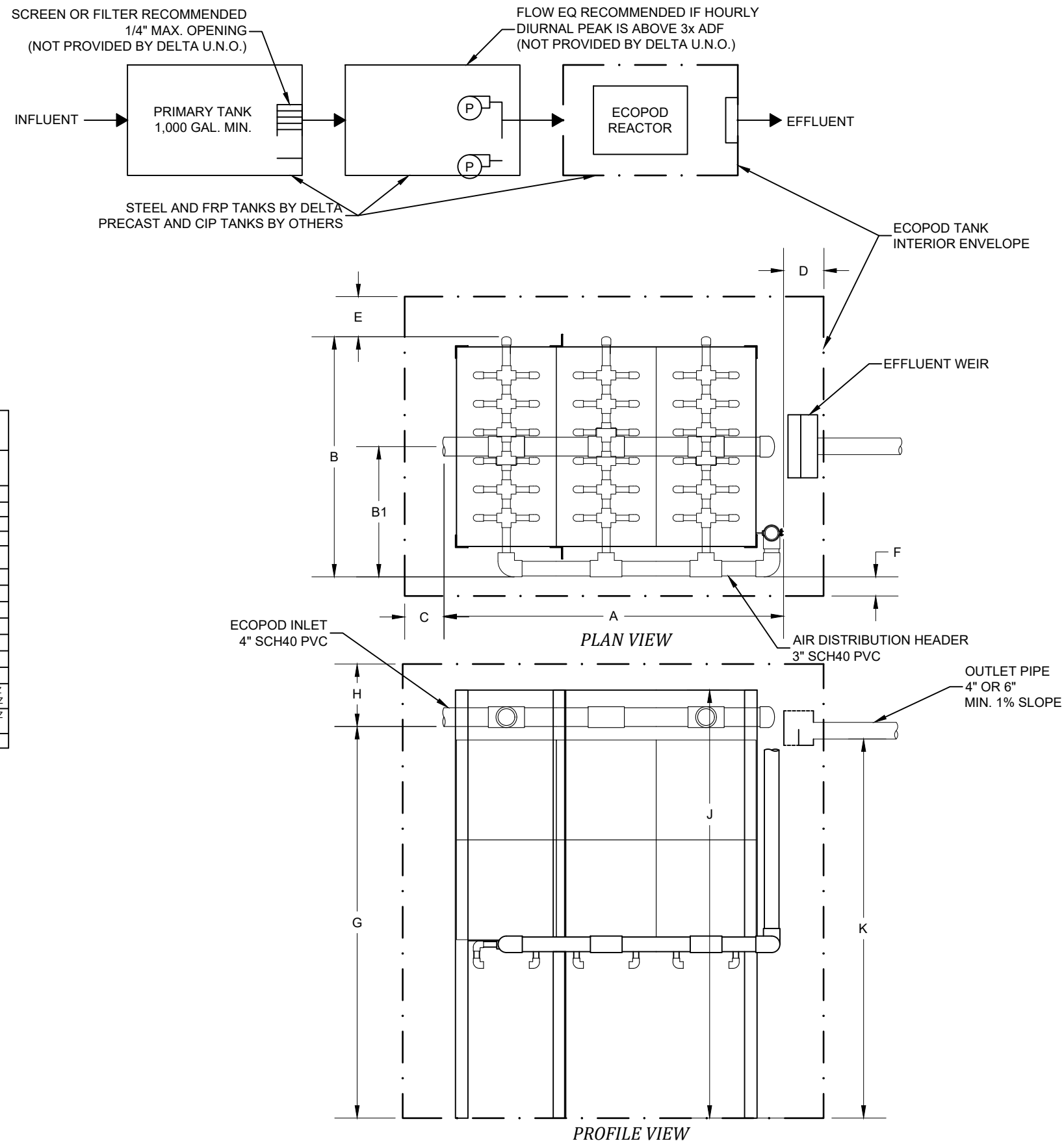
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PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	2,000 GPD
PEAK DAILY FLOW	-	3,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	5 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °F
RELATIVE HUMIDITY	10%	90%
SITE ELEVATION	0 FT AMSL	3,000 FT AMSL

PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
STANDARD AIRFLOW	46 SCFM	53 SCFM
SITE AIR REQUIREMENT	52 ICFM	64 ICFM
BLOWER INLET AIR	67 ICFM	67 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	27.6 IN <sup>2</sup> 1 EA 6"	27.6 IN <sup>2</sup> 1 EA 6"
BLOWER SELECTION	FPZ SCL K04-MS	FPZ SCL K04-MS
NOISE LEVEL	65.0 dB(A)	65.0 dB(A)
AIR TEMPERATURE RISE	41 F (22.8 C)	41 F (22.8 C)
BLOWER INLET DIAMETER	1.5 NPT	1.5 NPT
BLOWER OUTLET DIAMETER	1.5 NPT	1.5 NPT
MOTOR SELECTION	2 HP	2 HP
OPERATING POWER	1.5 HP	1.5 HP
STARTING CURRENT	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E200D-N
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
		IN	CM	IN	CM	IN	CM	
0-3,000	0-914	1	82	209	59	150	32	82
0-3,000	0-914	2	69	176	83	211	44	112


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**DELTA ECOPOD E200D-N**  
**STANDARD DESIGN FOR BOD AND NITRIFICATION**

**GENERAL ARRANGEMENT**

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

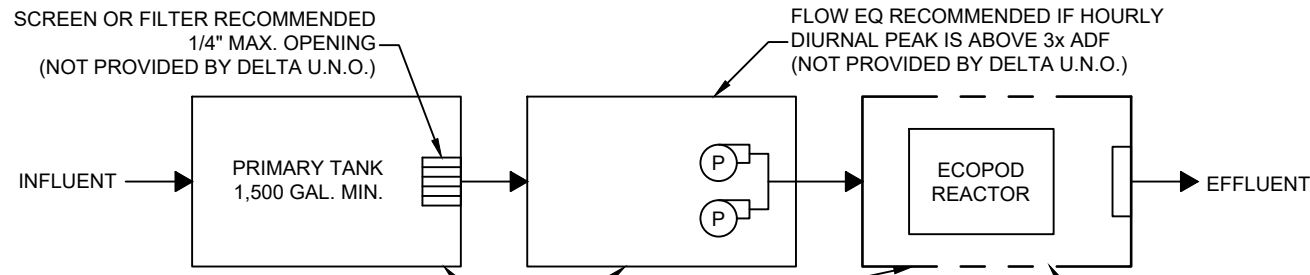
- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE (HDPE) OR AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	3,000 GPD
PEAK DAILY FLOW	-	4,500 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	7.5 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	66 SCFM	77 SCFM
SITE AIR REQUIREMENT	74 ICFM	92 ICFM
BLOWER INLET AIR	78 ICFM	130 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	32.1 IN <sup>2</sup> 2 EA 6" OR 1 EA 8"	53.5 IN <sup>2</sup> 2 EA 6" OR 1 EA 10"
BLOWER SELECTION	FPZ SCL K04-MS	FPZ SCL K05-MS
NOISE LEVEL	64.8 dB(A)	70.5 dB(A)
AIR TEMPERATURE RISE	25 F (13.9 C)	21 F (11.7 C)
BLOWER INLET DIAMETER	1.5 NPT	2 NPT
BLOWER OUTLET DIAMETER	1.5 NPT	2 NPT
MOTOR SELECTION	1.5 HP	2 HP
OPERATING POWER	1.1 HP	1.6 HP
STARTING CURRENT	49.3/23.2 A @ 115-208/230V 1-PH 60HZ 40.5/20.2 A @ 208-230/460V 3-PH 60HZ	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	14.6/7.6 A @ 115-208/230V 1-PH 60HZ 4.35/2.17 A @ 208-230/460V 3-PH 60HZ	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ

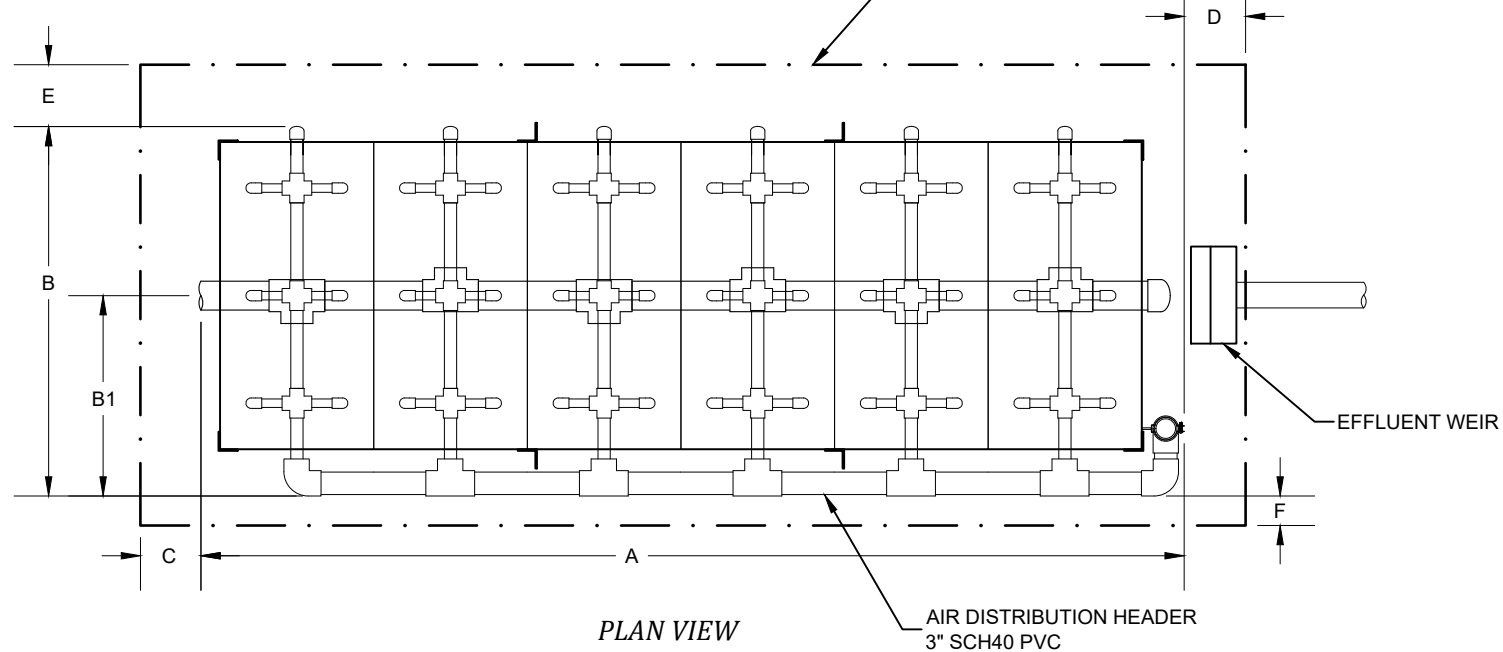
1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E300S
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2

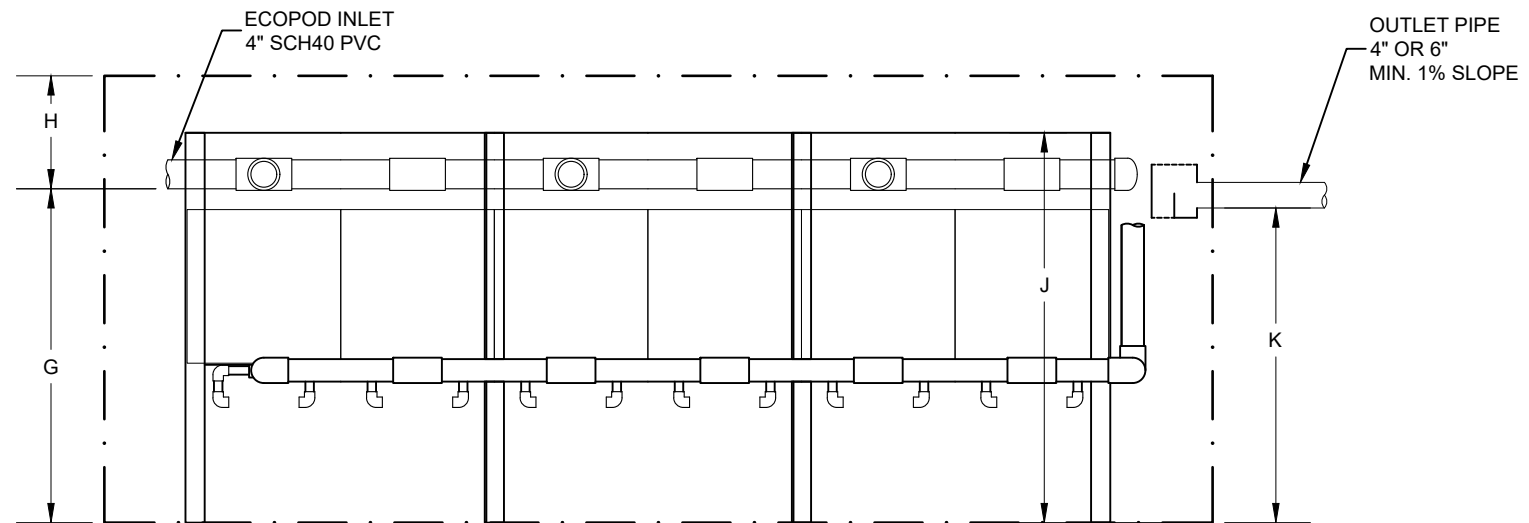


STEEL AND FRP TANKS BY DELTA  
PRECAST AND CIP TANKS BY OTHERS

ECOPOD TANK  
INTERIOR ENVELOPE



PLAN VIEW



PROFILE VIEW

SITE ELEVATION	REACTOR MATERIAL	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
			IN	CM	IN	CM	IN	CM	
0-3,000	0-914	HDPE	1	160	407	60	153	33	84
0-3,000	0-914	SS	1	154	392	56	143	32	82
0-3,000	0-914	SS	2	93	237	107	272	56	143
0-3,000	0-914	SS	3	117	298	83	211	44	112

1. LAYOUT 1 (SS) SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.


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

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

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.

NO.	DATE	INITIALS	DESCRIPTION


**Delta Treatment Systems, LLC**  
 An Infiltrator Water Technologies Company

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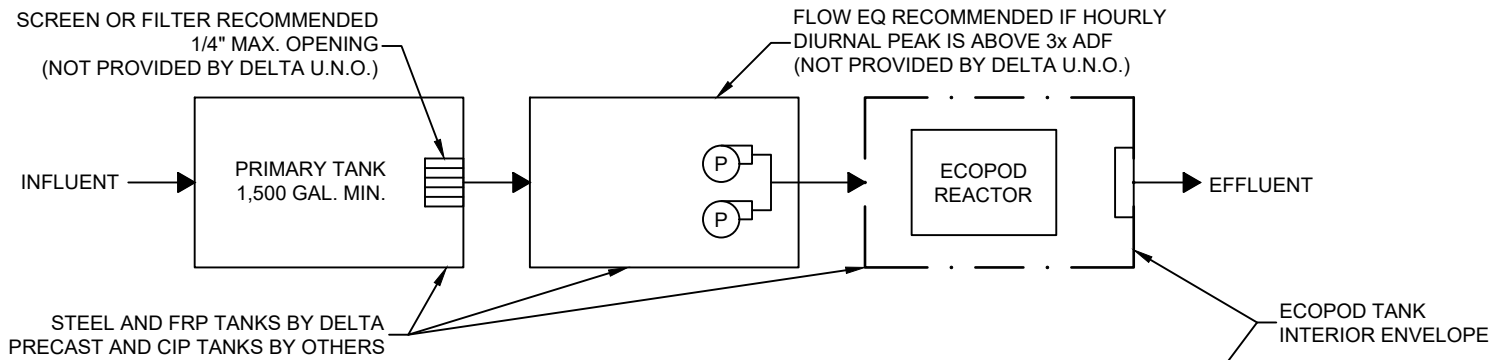
**DELTA ECOPOD E300S**  
**STANDARD DESIGN FOR BOD REDUCTION**

**GENERAL ARRANGEMENT**

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 01



- 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 OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.



PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	3,000 GPD
PEAK DAILY FLOW	-	4,500 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	7.5 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	36 SCFM	42 SCFM
SITE AIR REQUIREMENT	41 ICFM	51 ICFM
BLOWER INLET AIR	51 ICFM	51 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	21 IN <sup>2</sup> 2 EA 4" OR 1 EA 6"	21 IN <sup>2</sup> 2 EA 4" OR 1 EA 6"
BLOWER SELECTION	FPZ SCL R30-MD	FPZ SCL R30-MD
NOISE LEVEL	72.2 dB(A)	72.2 dB(A)
AIR TEMPERATURE RISE	29 F (16.1 C)	29 F (16.1 C)
BLOWER INLET DIAMETER	1.25 NPT	1.25 NPT
BLOWER OUTLET DIAMETER	1.25 NPT	1.25 NPT
MOTOR SELECTION	2 HP	2 HP
OPERATING POWER	1.25 HP	1.25 HP
STARTING CURRENT	96/48.2 A @ 115-208/230V 1-PH 60HZ 51.9/25.9 A @ 208-230/460V 3-PH 60HZ	96/48.2 A @ 115-208/230V 1-PH 60HZ 52.2/26.1 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	19.4/9.8 A @ 115-208/230V 1-PH 60HZ 6.0/3.0 A @ 208-230/460V 3-PH 60HZ	19.4/9.8 A @ 115-208/230V 1-PH 60HZ 6.0/3.0 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E300D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2

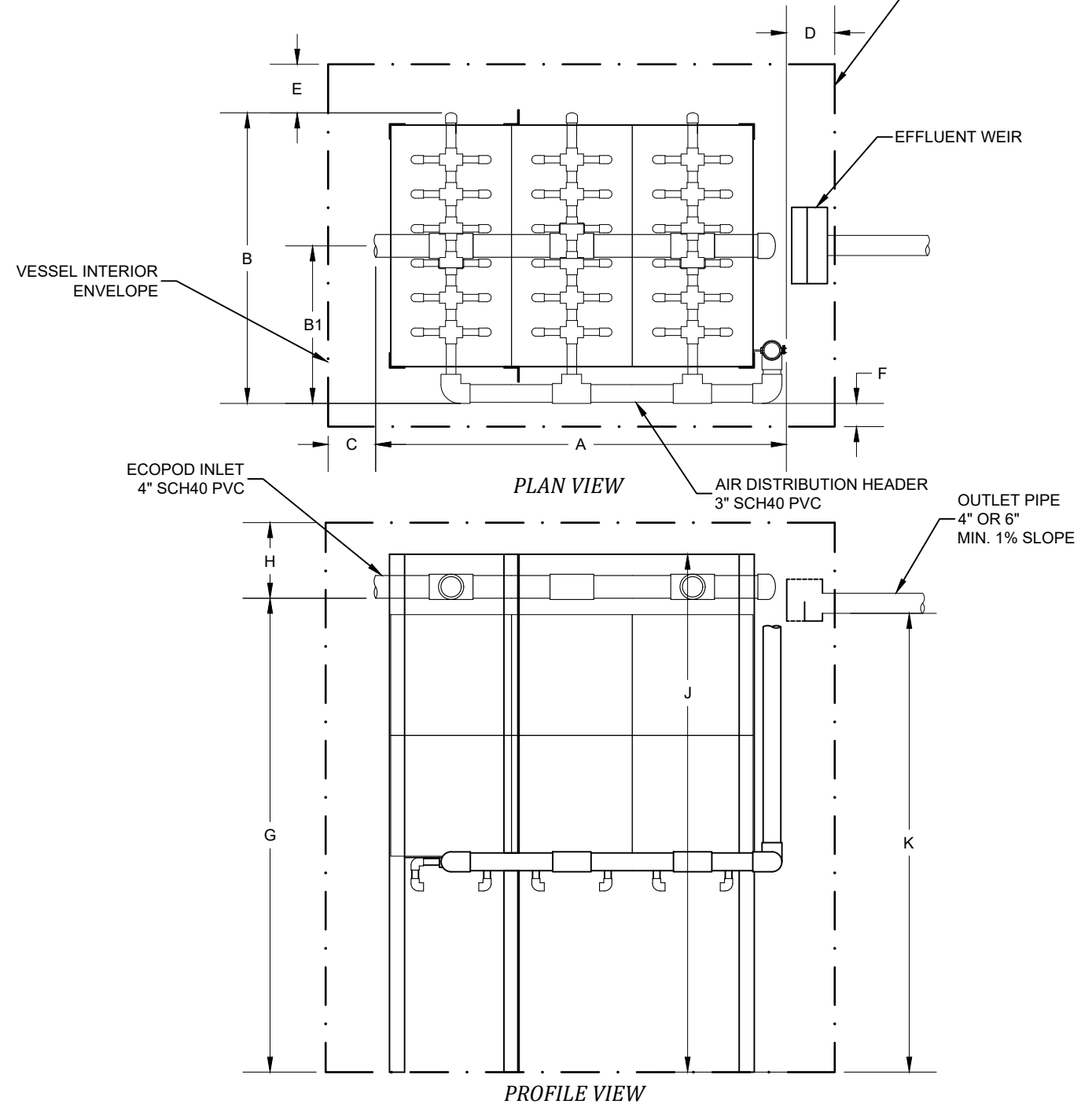
SITE ELEVATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
		IN	CM	IN	CM	IN	CM	
0-3,000	0-914	1	82	209	59	150	32	82
0-3,000	0-914	2	69	176	83	211	44	112

1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.


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

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 HATCH REQUIRED, 24" DIA MINIMUM.



NO.	DATE	INITIALS	DESCRIPTION


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An Infiltrator Water Technologies Company

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**DELTA ECOPOD E300D**  
**STANDARD DESIGN FOR BOD REDUCTION**

GENERAL ARRANGEMENT

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

C:\Users\m\OneDrive\Documents\Delta\Drawings\ECOPOD\STANDARD\COMMERCIAL\Standard\ECOPOD\Drawings\Rev 01.dwg

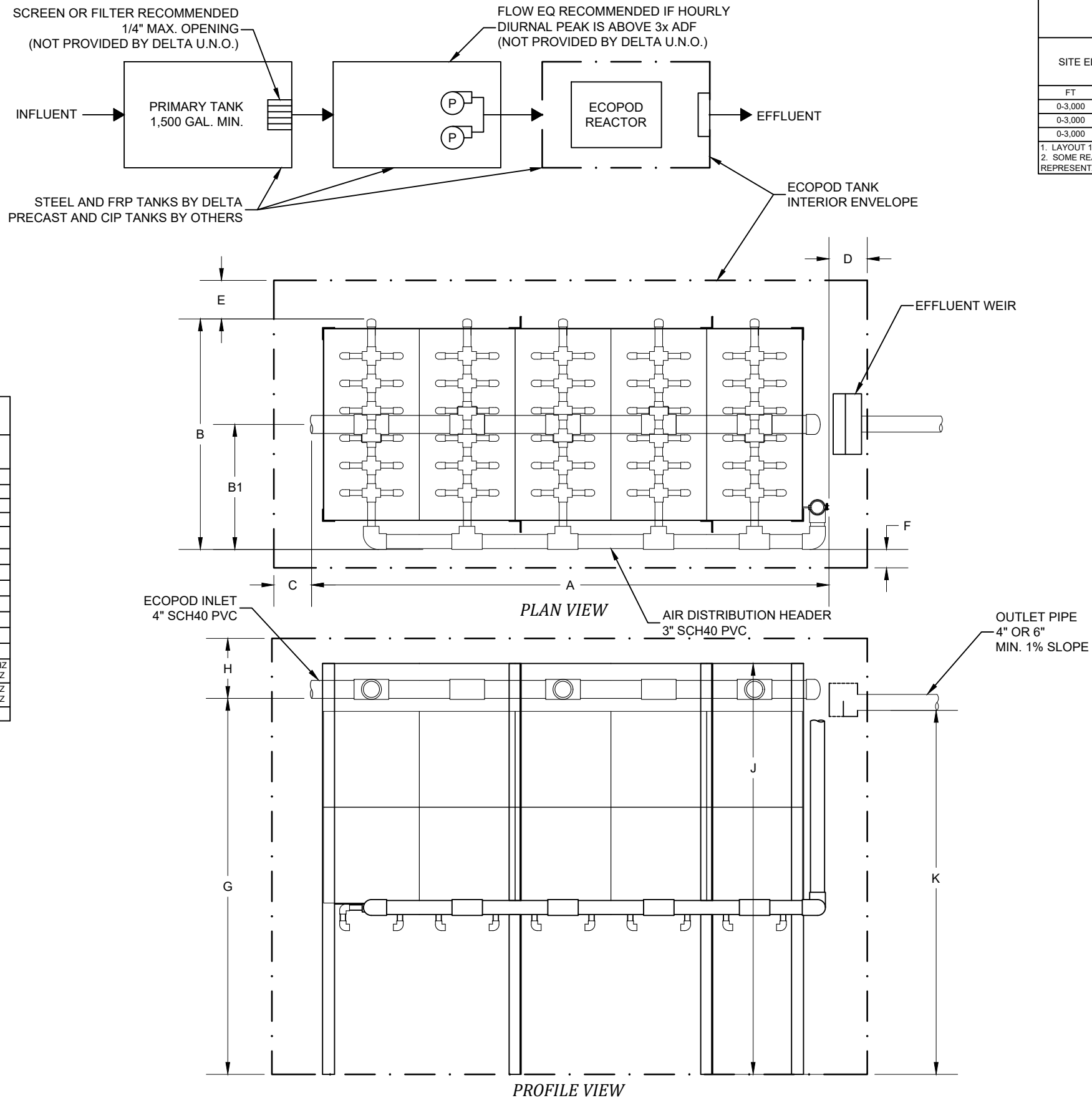
- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	3,000 GPD
PEAK DAILY FLOW	-	4,500 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	7.5 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	69 SCFM	80 SCFM
SITE AIR REQUIREMENT	77 ICFM	96 ICFM
BLOWER INLET AIR	116 ICFM	116 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"	47.8 IN <sup>2</sup> 2 EA 6" OR 1 EA 8"
BLOWER SELECTION	FPZ SCL K05-MS	FPZ SCL K05-MS
NOISE LEVEL	70.8 dB(A)	70.8 dB(A)
AIR TEMPERATURE RISE	33 F (18.3 C)	33 F (18.3 C)
BLOWER INLET DIAMETER	2 NPT	2 NPT
BLOWER OUTLET DIAMETER	2NPT	2NPT
MOTOR SELECTION	3 HP	3 HP
OPERATING POWER	2.25 HP	2.25 HP
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E300D-N
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
		IN	CM	IN	CM	IN	CM	
0-3,000	0-914	1	130	331	59	150	32	82
0-3,000	0-914	2	93	237	107	272	56	143
0-3,000	0-914	3	93	237	83	211	44	112


1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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

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 HATCH REQUIRED, 24" DIA MINIMUM.

NO.	DATE	INITIALS	DESCRIPTION


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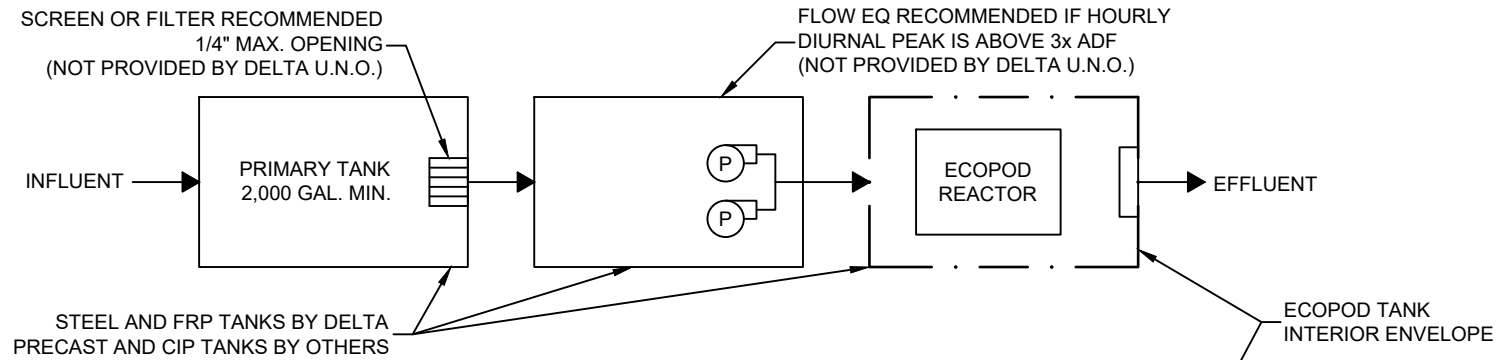
**DELTA ECOPOD E300D-N**  
**STANDARD DESIGN FOR BOD AND NITRIFICATION**

GENERAL ARRANGEMENT

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 01



- 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 POLYETHYLENE (HDPE) OR AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.



SITE ELEVATION	REACTOR MATERIAL	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
			IN	CM	IN	CM	IN	CM	
0-3,000	0-914	HDPE	1	211	536	60	153	33	84
0-3,000	0-914	SS	1	202	514	59	150	32	82
0-3,000	0-914	SS	2	117	298	107	272	56	143
0-3,000	0-914	SS	3	165	420	83	211	44	112

1. LAYOUT 1 (SS) SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	4,000 GPD
PEAK DAILY FLOW	-	6,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	10 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	88 SCFM	102 SCFM
SITE AIR REQUIREMENT	99 ICFM	129 ICFM
BLOWER INLET AIR	130 ICFM	130 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	53.5 IN <sup>2</sup> 2 EA 6" OR 1 EA 10"	53.5 IN <sup>2</sup> 2 EA 6" OR 1 EA 10"
BLOWER SELECTION	FPZ SCL K05-MS	FPZ SCL K05-MS
NOISE LEVEL	70.5 dB(A)	70.5 dB(A)
AIR TEMPERATURE RISE	21 F (11.7 C)	21 F (11.7 C)
BLOWER INLET DIAMETER	2 NPT	2 NPT
BLOWER OUTLET DIAMETER	2 NPT	2 NPT
MOTOR SELECTION	2 HP	2 HP
OPERATING POWER	1.6 HP	1.6 HP
STARTING CURRENT	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

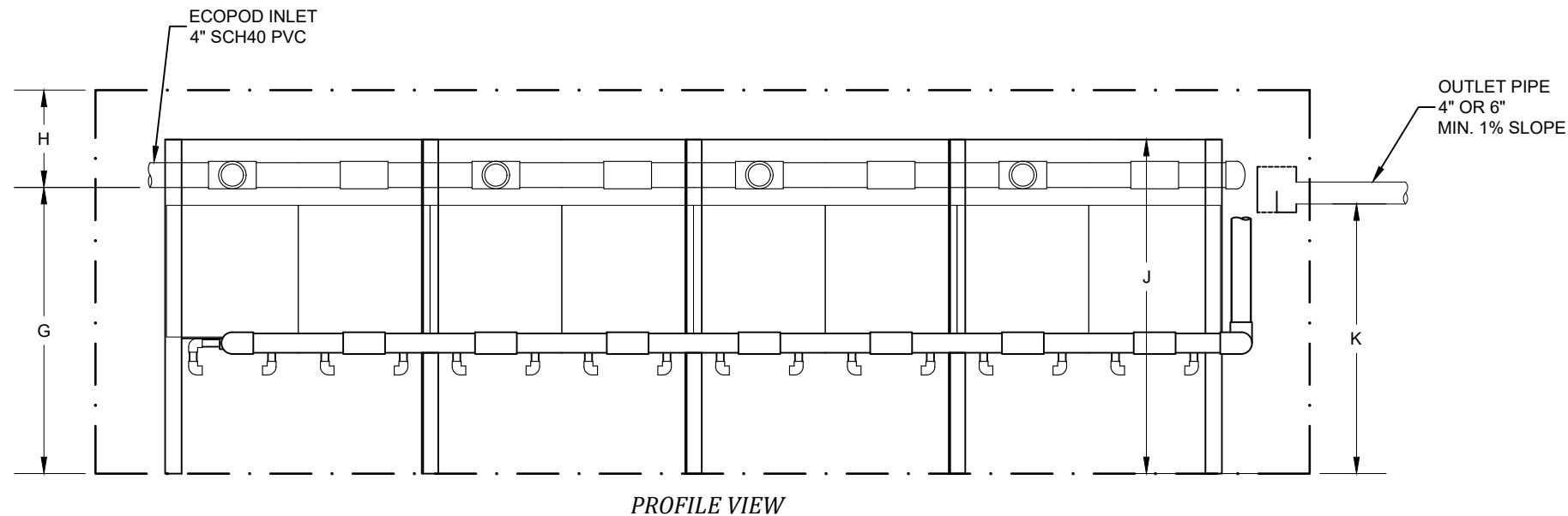
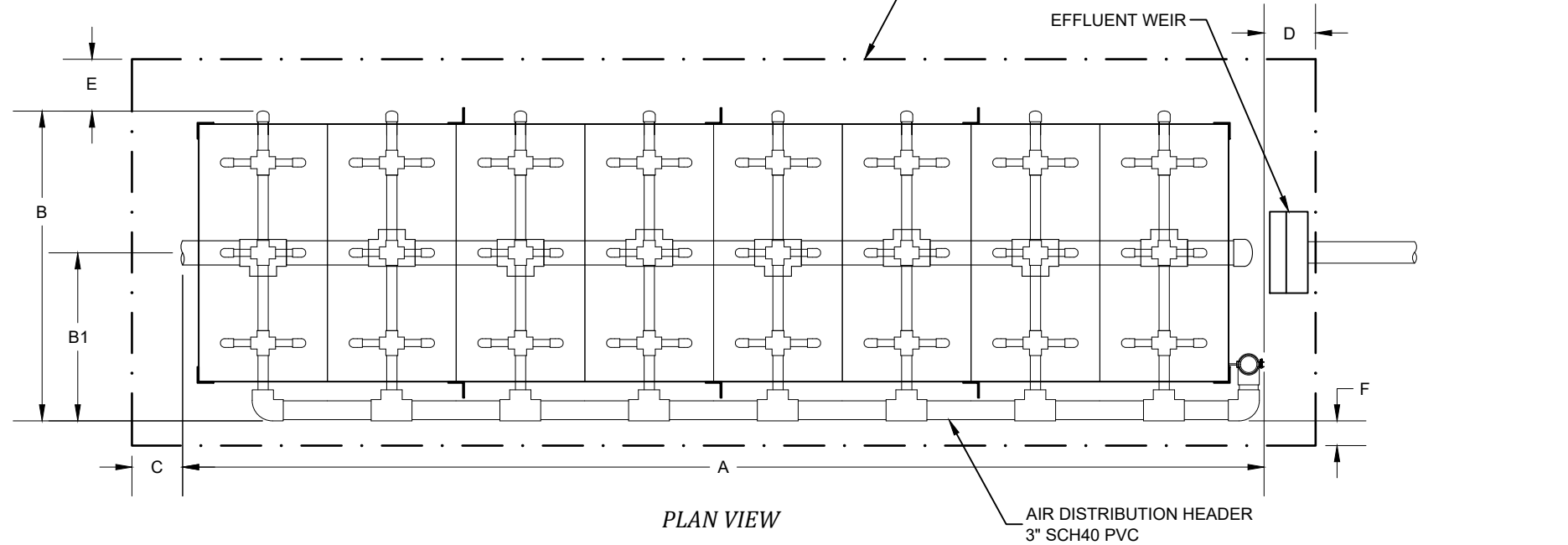
DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E400S
BLOWER	1	FPZ	PER TABLE 5
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2

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


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

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.



NO.	DATE	INITIALS	DESCRIPTION


**Delta Treatment Systems, LLC**  
An Infiltrator Water Technologies Company

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**DELTA ECOPOD E400S**  
**STANDARD DESIGN FOR BOD REDUCTION**

GENERAL ARRANGEMENT

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 01



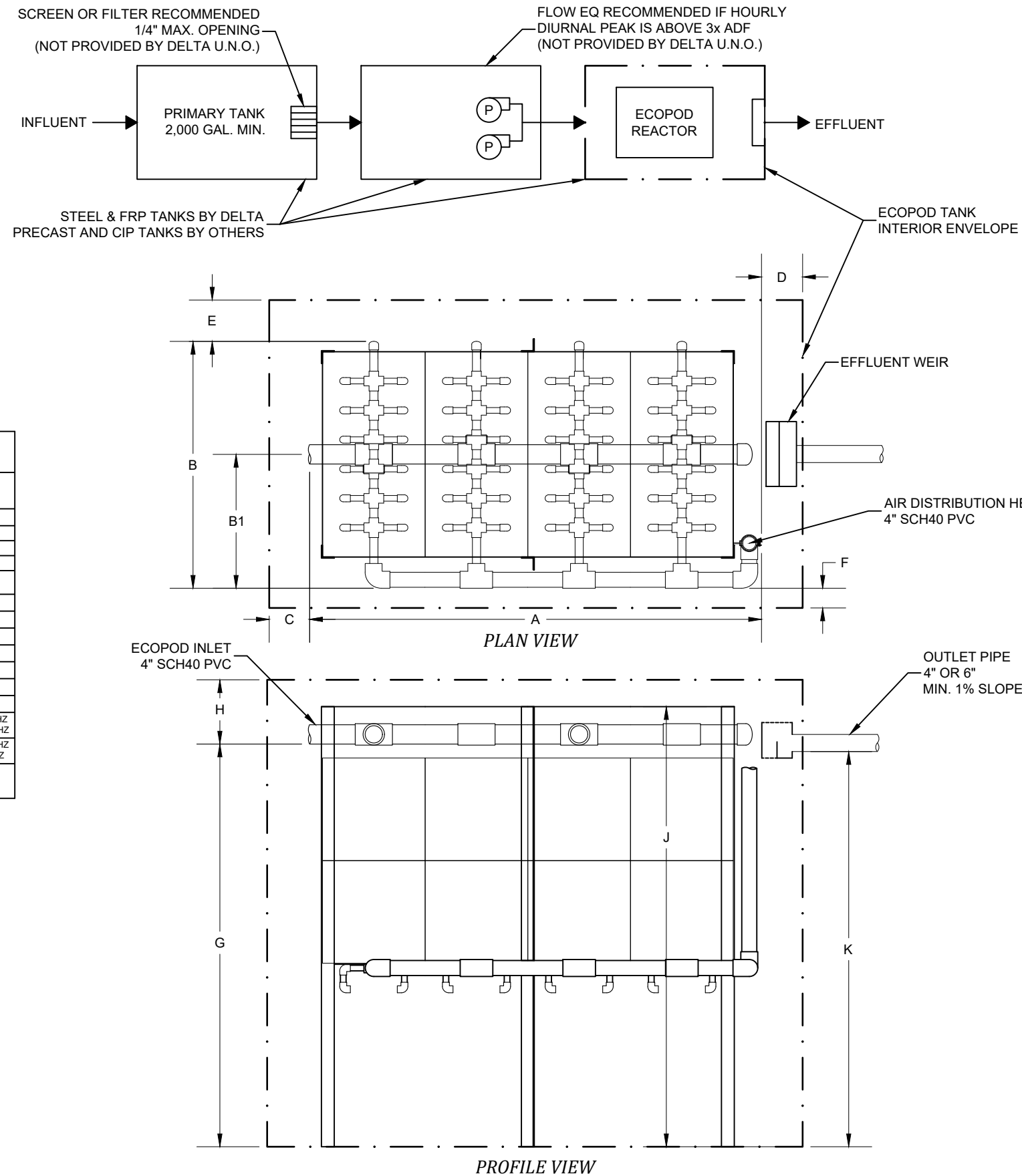
- GENERAL NOTES**
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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 SHALL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED, TO BE INSTALLED BY CONTRACTOR.
  - SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	4,000 GPD
PEAK DAILY FLOW	-	6,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	10 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	49 SCFM	56 SCFM
SITE AIR REQUIREMENT	55 ICFM	68 ICFM
BLOWER INLET AIR	67 ICFM	67 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	27.6 IN <sup>2</sup> 1 EA 6"	27.6 IN <sup>2</sup> 1 EA 6"
BLOWER SELECTION	FPZ SCL K04-MS	FPZ SCL K04-MS
NOISE LEVEL	65.0 dB(A)	65.0 dB(A)
AIR TEMPERATURE RISE	41 F (22.8 C)	41 F (22.8 C)
BLOWER INLET DIAMETER	1.5 NPT	1.5 NPT
BLOWER OUTLET DIAMETER	1.5 NPT	1.5 NPT
MOTOR SELECTION	2 HP	2 HP
OPERATING POWER	1.5 HP	1.5 HP
STARTING CURRENT	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ

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

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E400D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	106	270	59	150	32	82
0-3,000	0-914	2	69	176	107	272	56	143
0-3,000	0-914	3	93	237	83	211	44	112

1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.


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

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

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 HATCH REQUIRED, 24" DIA MINIMUM.

NO.	DATE	INITIALS	DESCRIPTION


**Delta Treatment Systems, LLC**  
 An Infiltrator Water Technologies Company

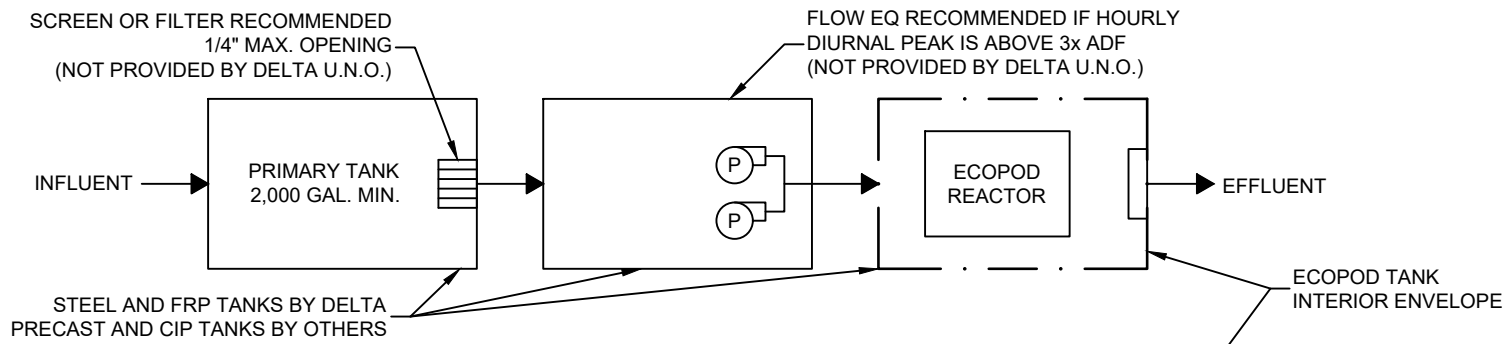
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**DELTA ECOPOD E400D**  
**STANDARD DESIGN FOR BOD REDUCTION**

**GENERAL ARRANGEMENT**

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 01

- 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 OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.



SITE ELEVATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
		IN	CM	IN	CM	IN	CM	
0-3,000	0-914	1	154	392	59	150	32	82
0-3,000	0-914	2	93	237	107	272	56	143
0-3,000	0-914	3	117	298	83	211	44	112

1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	4,000 GPD
PEAK DAILY FLOW	-	6,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	10 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	92 SCFM	107 SCFM
SITE AIR REQUIREMENT	103 ICFM	128 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	33 F (18.3 C)	32 F (17.8 C)
BLOWER INLET DIAMETER	2 NPT	2 NPT
BLOWER OUTLET DIAMETER	2 NPT	2 NPT
MOTOR SELECTION	3 HP	4 HP
OPERATING POWER	2.3 HP	3.5 HP
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	122/60.8 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	11.1/5.53 @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

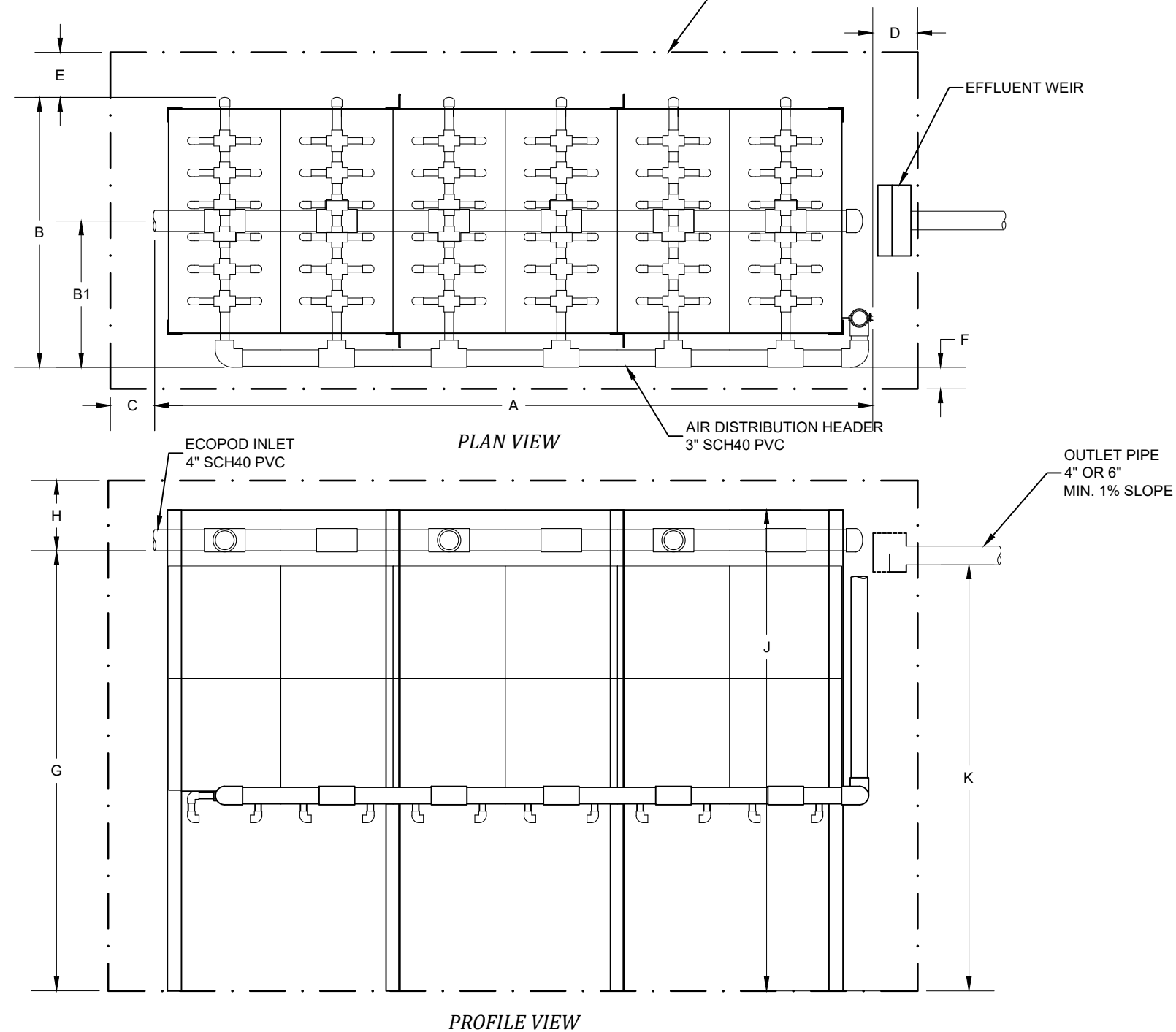
DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E400D-N
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2

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


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

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 HATCH REQUIRED, 24" DIA MINIMUM.



NO.	DATE	INITIALS	DESCRIPTION


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**DELTA ECOPOD E400D-N**  
**STANDARD DESIGN FOR BOD AND NITRIFICATION**

GENERAL ARRANGEMENT

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 01



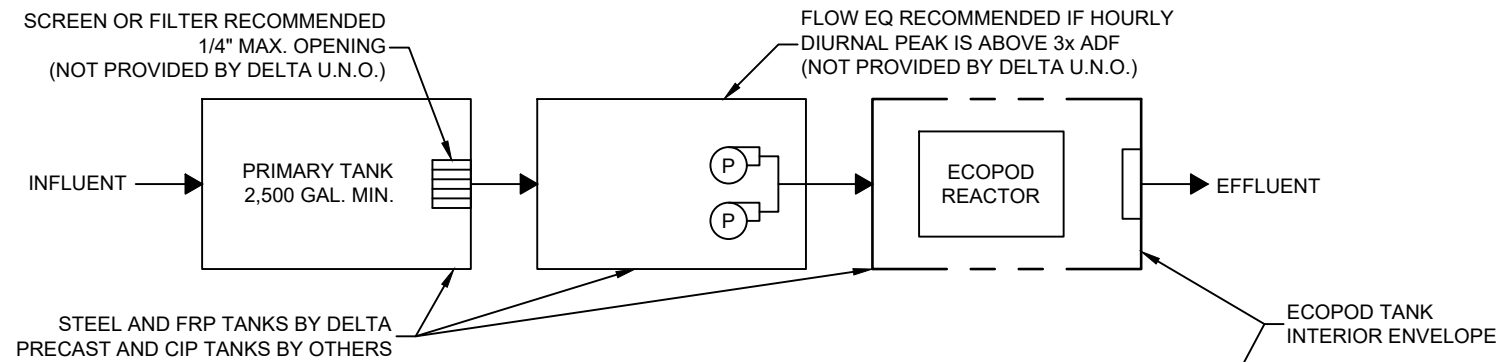
- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	5,000 GPD
PEAK DAILY FLOW	-	7,500 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	12.5 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	208 SCFM	242 SCFM
SITE AIR REQUIREMENT	234 ICFM	290 ICFM
BLOWER INLET AIR	234 ICFM	290 ICFM
AIR HEADER SIZE	4 IN	4 IN
MIN. TANK VENT X-SECT. AREA	105 IN <sup>2</sup> 2 EA 8" OR 1 EA 10"	140 IN <sup>2</sup> 3 EA 8" OR 1 EA 10"
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 3L
NOISE LEVEL	dB(A)	dB(A)
AIR TEMPERATURE RISE	22 F (12.2 C)	21 F (11.7 C)
BLOWER INLET DIAMETER	2.5 NPT	2.5 NPT
BLOWER OUTLET DIAMETER	2.5 NPT	2.5 NPT
MOTOR SELECTION	3 HP	5 HP
OPERATING POWER	2.8 HP	3.4 HP
STARTING CURRENT	218/109 A @ 115-208/230V 1-PH 60HZ 74.0/37.0 A @ 208-230/460V 3-PH 60HZ	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	28.0-15.0/14.0 A @ 115-208/230V 1-PH 60HZ 8.0/4.0 A @ 230/460V 3-PH 60HZ	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E500S-N
BLOWER	1	G-D SUTORBILT	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
		IN	CM	IN	CM	IN	CM	
0-3,000	0-914	1	372	945	60	153	33	84
0-3,000	0-914	2	215	547	108	275	57	145
0-3,000	0-914	3	263	669	84	214	45	115

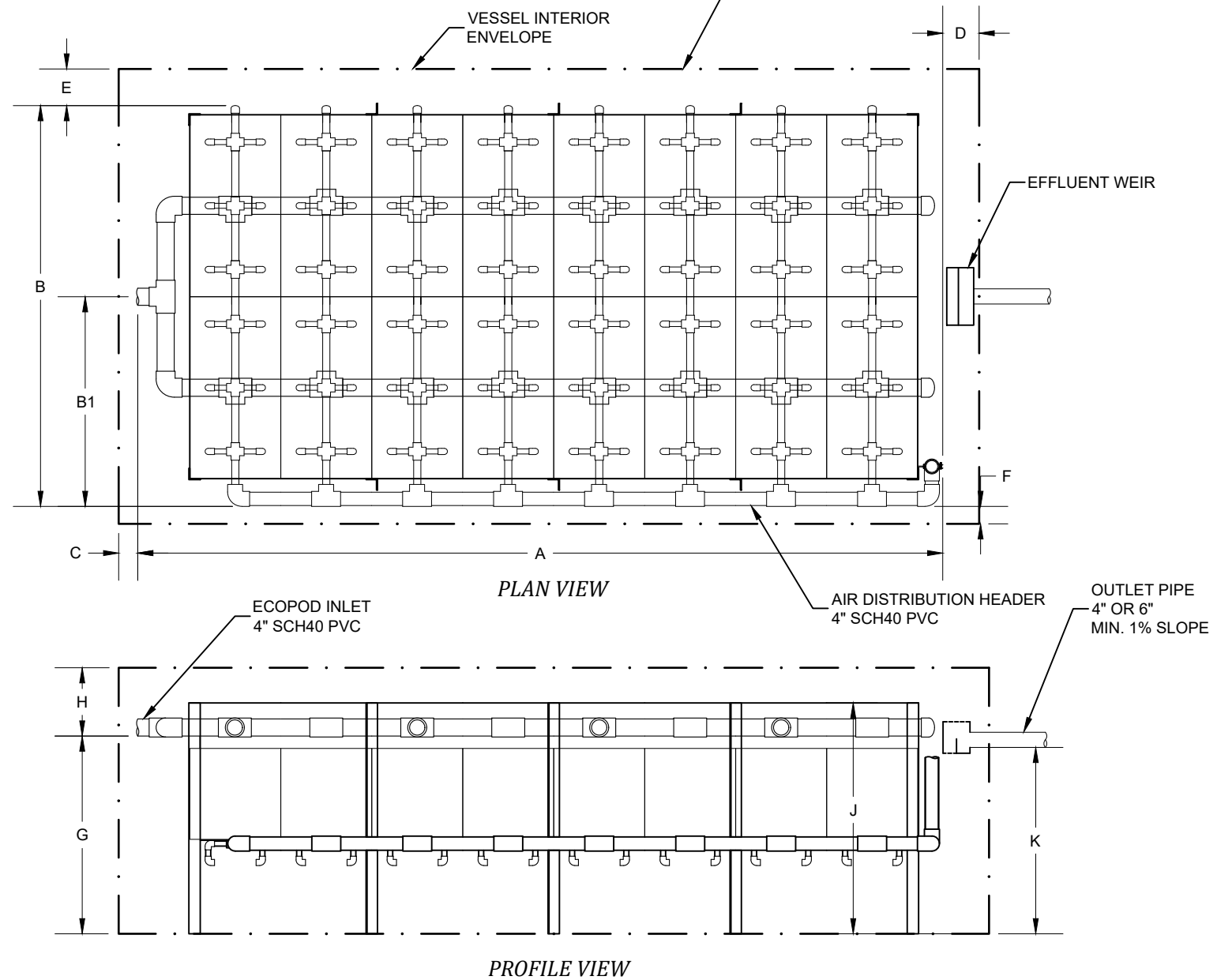
1. LAYOUT 2 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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


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

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.



NO.	DATE	INITIALS	DESCRIPTION


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**DELTA ECOPOD E500S-N**  
**STANDARD DESIGN FOR BOD AND NITRIFICATION**

GENERAL ARRANGEMENT

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 01

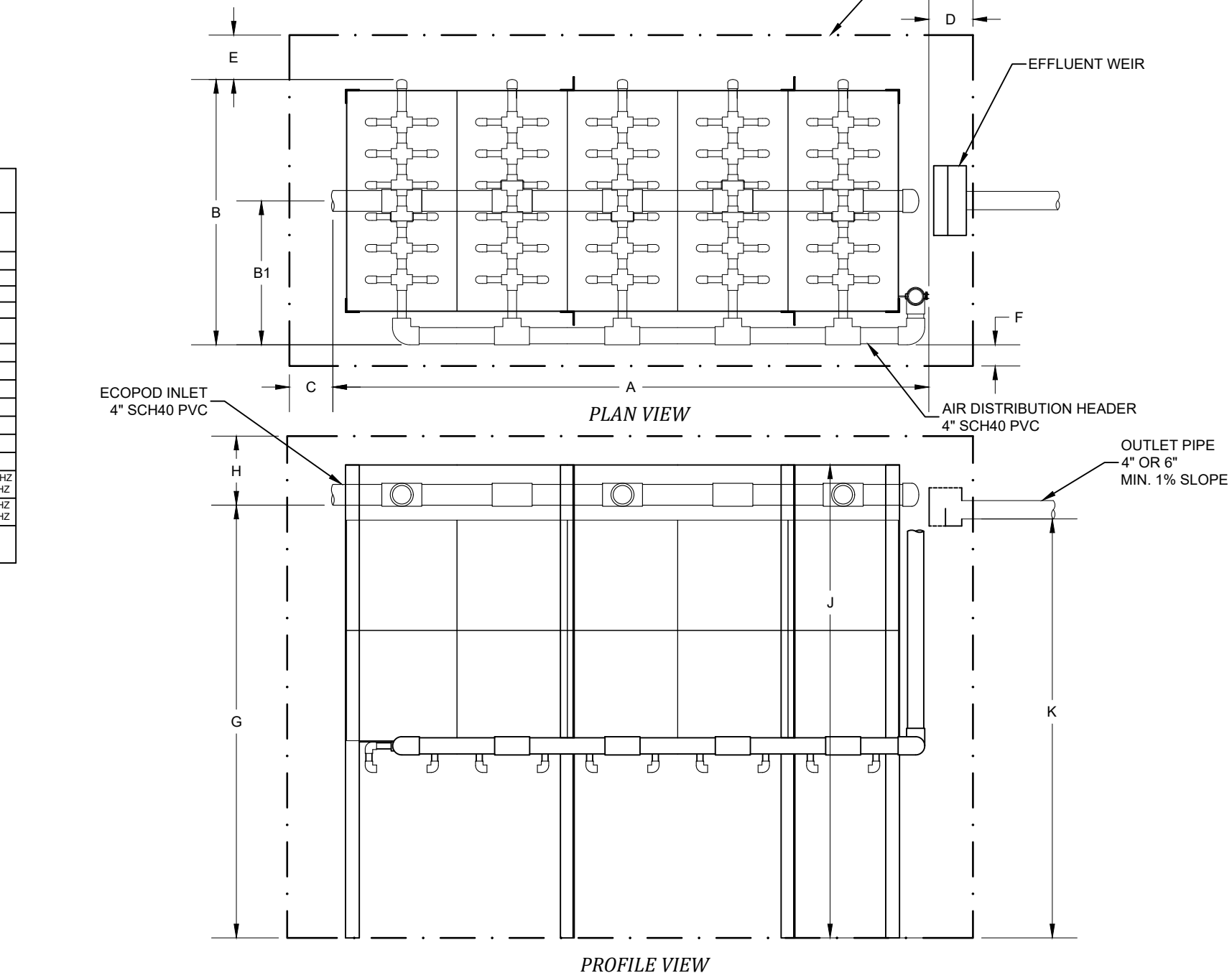
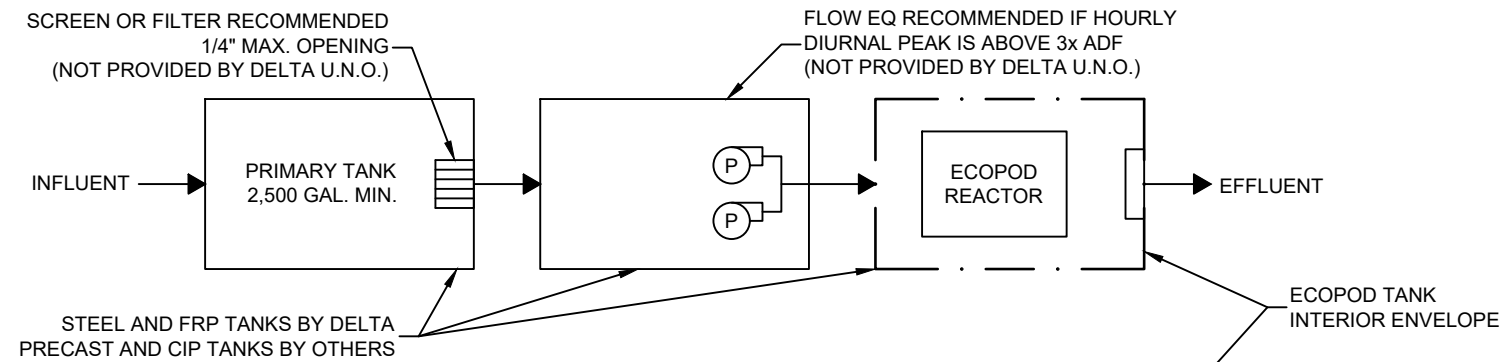
- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	5,000 GPD
PEAK DAILY FLOW	-	7,500 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	12.5 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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> 1 EA 6"	47.8 IN <sup>2</sup> 2 EA 6" OR 1 EA 8"
BLOWER SELECTION	FPZ SCL K04-MS	FPZ SCL K05-MS
NOISE LEVEL	65.0 dB(A)	70.8 dB(A)
AIR TEMPERATURE RISE	41 F (22.8 C)	33 F (18.3 C)
BLOWER INLET DIAMETER	1.5 NPT	2 NPT
BLOWER OUTLET DIAMETER	1.5 NPT	2 NPT
MOTOR SELECTION	2 HP	3 HP
OPERATING POWER	1.5 HP	2.3 HP
STARTING CURRENT	103/52.4 A @ 115-208/230V 1-PH 60HZ 54.2/27.0 A @ 208-230/460V 3-PH 60HZ	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	19.7/10.6 A @ 115-208/230V 1-PH 60HZ 5.8/2.9 A @ 208-230/460V 3-PH 60HZ	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.  
2. USE ALTERNATIVE BLOWER GARDNER DENVER 2L ON LOW ELEVATION RANGE IF REQUIRED. SEE CALCULATIONS FOR DETAILS.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E500D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
0-1,000	0-305	1	130	331	59	150	32	82
0-1,000	0-305	2	93	237	107	272	56	143
0-1,000	0-305	3	130	331	59	150	32	82

1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.


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

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

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 HATCH REQUIRED, 24\"/>

NO.	DATE	INITIALS	DESCRIPTION


**Delta Treatment Systems, LLC**  
 An Infiltrator Water Technologies Company

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**DELTA ECOPOD E500D**  
**STANDARD DESIGN FOR BOD REDUCTION**

**GENERAL ARRANGEMENT**

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 01

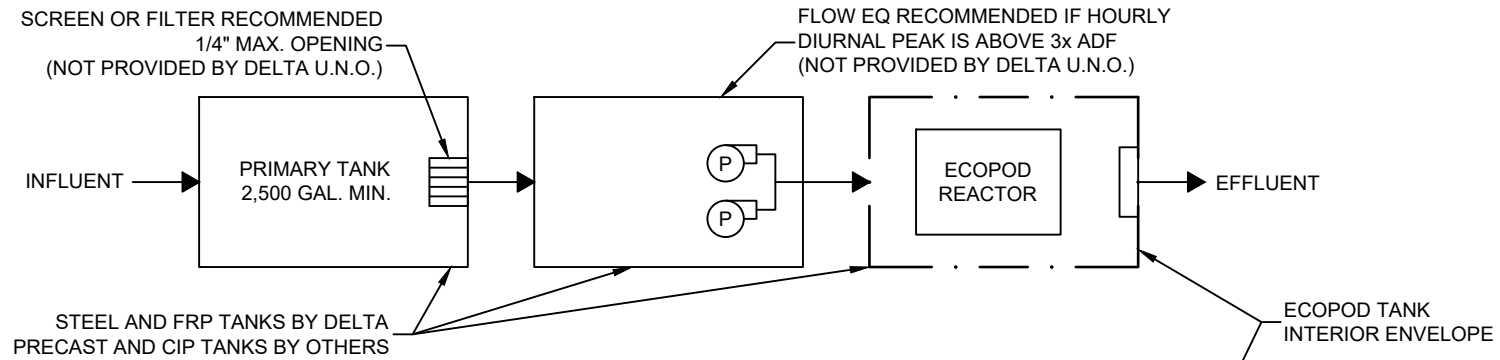
- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	5,000 GPD
PEAK DAILY FLOW	-	7,500 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	12.5 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	115 SCFM	133 SCFM
SITE AIR REQUIREMENT	129 ICFM	160 ICFM
BLOWER INLET AIR	169 ICFM	169 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	69.6 IN <sup>2</sup> 2 EA 8" OR 1 EA 10"	69.6 IN <sup>2</sup> 2 EA 8" OR 1 EA 10"
BLOWER SELECTION	FPZ K06-MS	FPZ K06-MS
NOISE LEVEL	73.3 dB(A)	73.3 dB(A)
AIR TEMPERATURE RISE	32 F (17.8 C)	32 F (17.8 C)
BLOWER INLET DIAMETER	2 NPT	2 NPT
BLOWER OUTLET DIAMETER	2 NPT	2 NPT
MOTOR SELECTION	4 HP	4 HP
OPERATING POWER	3.5 HP	3.5 HP
STARTING CURRENT	122/60.8 A @ 208-230/460V 3-PH 60HZ	122/60.8 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	11.1/5.53 @ 208-230/460V 3-PH 60HZ	11.1/5.53 @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E500D-N
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	202	514	59	150	32	82
0-3,000	0-914	2	117	298	107	272	56	143
0-3,000	0-914	3	141	359	83	211	44	112

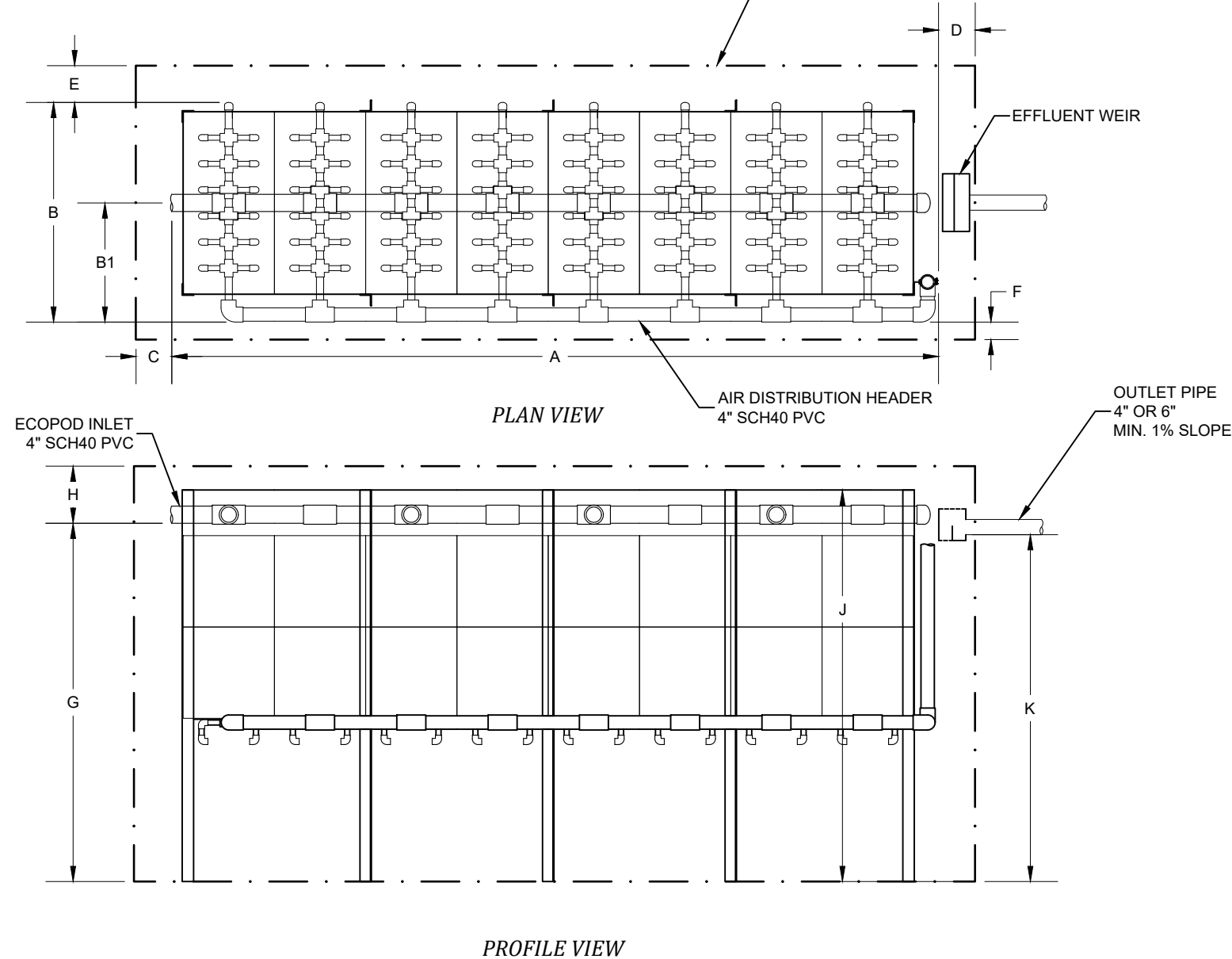
1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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


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

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 HATCH REQUIRED, 24" DIA MINIMUM.



NO.	DATE	INITIALS	DESCRIPTION


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 An Infiltrator Water Technologies Company

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**DELTA ECOPOD E500-N**  
**STANDARD DESIGN FOR BOD AND NITRIFICATION**  
  
**GENERAL ARRANGEMENT**

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 01

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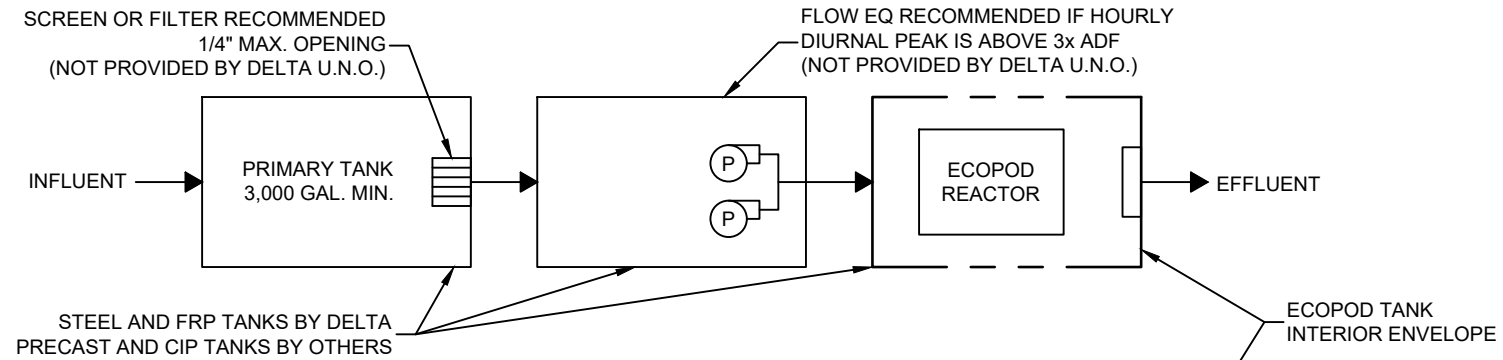
- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
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PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	6,000 GPD
PEAK DAILY FLOW	-	9,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	15 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	132 SCFM	154 SCFM
SITE AIR REQUIREMENT	149 ICFM	184 ICFM
BLOWER INLET AIR	187 ICFM	187 ICFM
AIR HEADER SIZE	4 IN	4 IN
MIN. TANK VENT X-SECT. AREA	77 IN <sup>2</sup> 2 EA 8" OR 1 EA 10"	77 IN <sup>2</sup> 2 EA 8" OR 1 EA 10"
BLOWER SELECTION	FPZ SCL K06-MS	FPZ SCL K06-MS
NOISE LEVEL	73.0 dB(A)	73.0 dB(A)
AIR TEMPERATURE RISE	21 F (11.7 C)	21 F (11.7 C)
BLOWER INLET DIAMETER	2 NPT	2 NPT
BLOWER OUTLET DIAMETER	2 NPT	2 NPT
MOTOR SELECTION	3 HP	3 HP
OPERATING POWER	2.6 HP	2.6 HP
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E600S
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	300	762	60	153	33	84
0-3,000	0-914	2	167	425	108	275	57	145
0-1,000	0-305	3	215	547	84	214	45	115

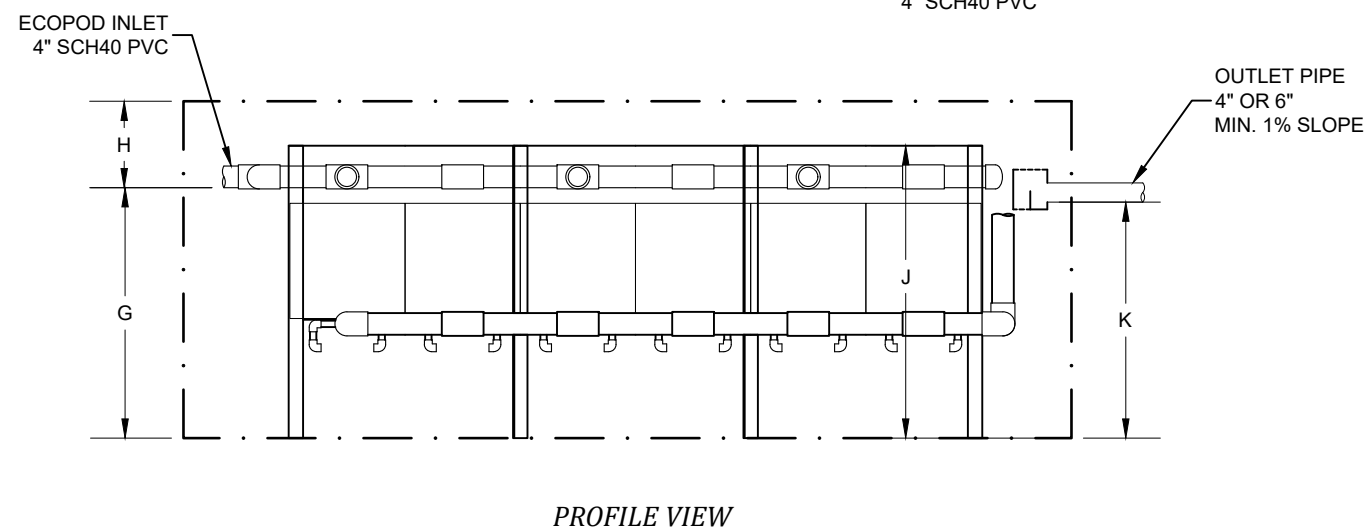
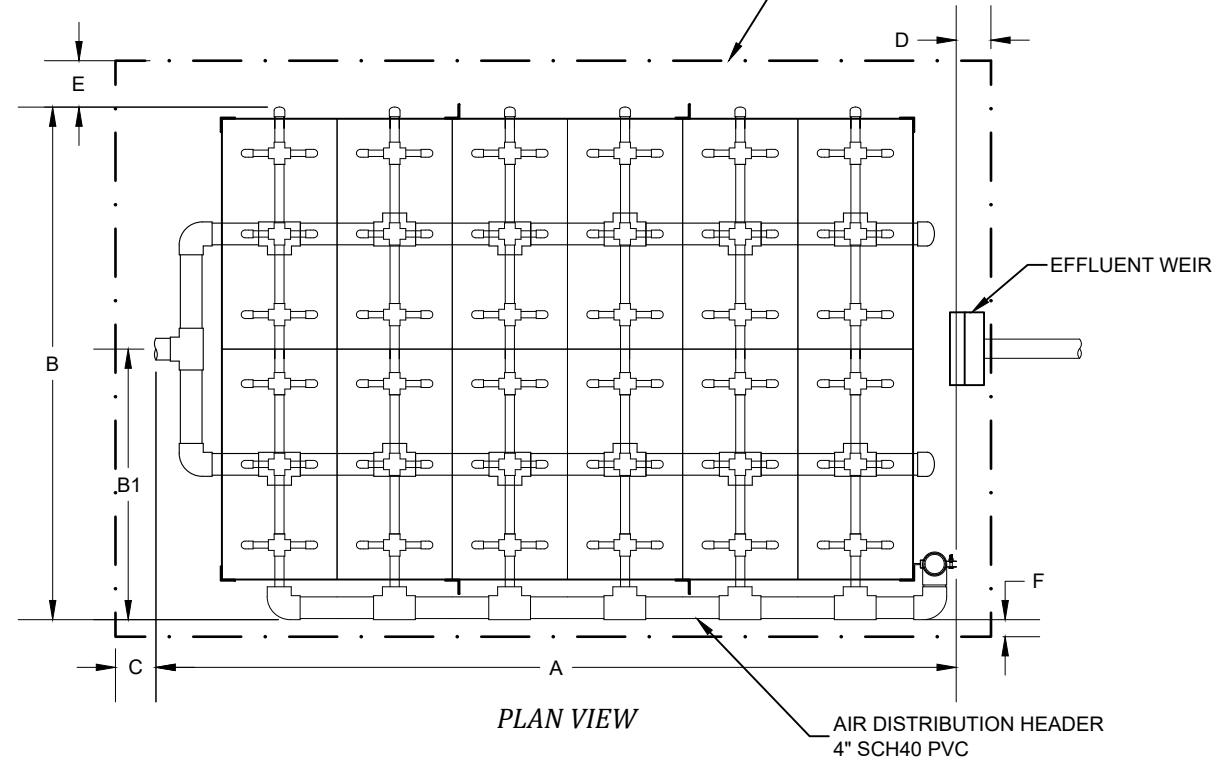
1. LAYOUT 2 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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


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

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.



NO.	DATE	INITIALS	DESCRIPTION


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 An Infiltrator Water Technologies Company

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**DELTA ECOPOD E600S**  
**STANDARD DESIGN FOR BOD REDUCTION**

GENERAL ARRANGEMENT

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 01

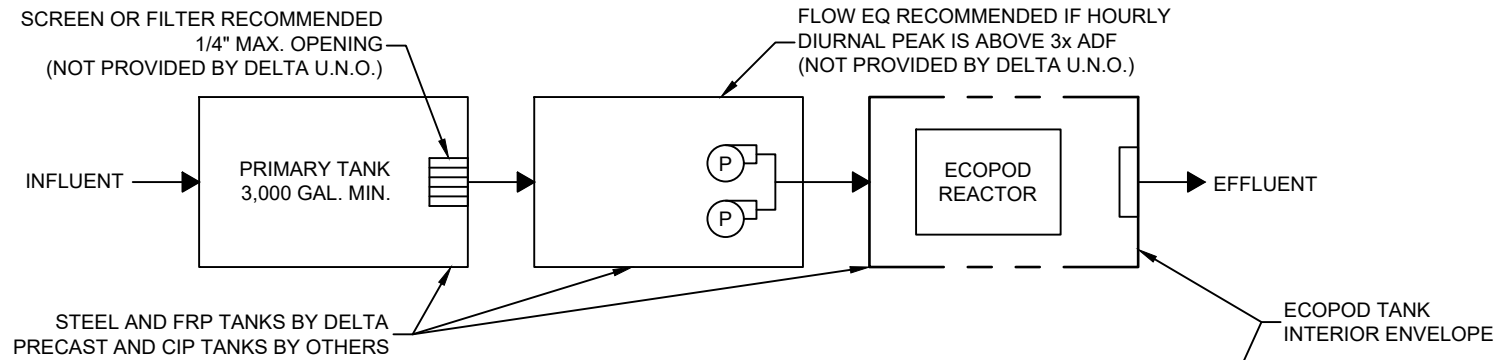
- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
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PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	6,000 GPD
PEAK DAILY FLOW	-	9,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	15 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	249 SCFM	290 SCFM
SITE AIR REQUIREMENT	281 ICFM	348 ICFM
BLOWER INLET AIR	281 ICFM	348 ICFM
AIR HEADER SIZE	4 IN	4 IN
MIN. TANK VENT X-SECT. AREA	116 IN <sup>2</sup> 3 EA 8" OR 1 EA 10"	143 IN <sup>2</sup> 3 EA 8" OR 1 EA 10"
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 4L
AIR TEMPERATURE RISE	21 F (11.7 C)	21 F (11.7 C)
NOISE LEVEL	dB(A)	dB(A)
BLOWER INLET DIAMETER	2.5 NPT	3 NPT
BLOWER OUTLET DIAMETER	2.5 NPT	3 NPT
MOTOR SELECTION	5 HP	5 HP
OPERATING POWER	3.4 HP	4.2 HP
STARTING CURRENT	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E600S-N
BLOWER	1	G-D SUTORBILT	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
		IN	CM	IN	CM	IN	CM	
0-3,000	0-914	1	239	608	108	275	57	145
0-3,000	0-914	2	311	790	84	214	45	115

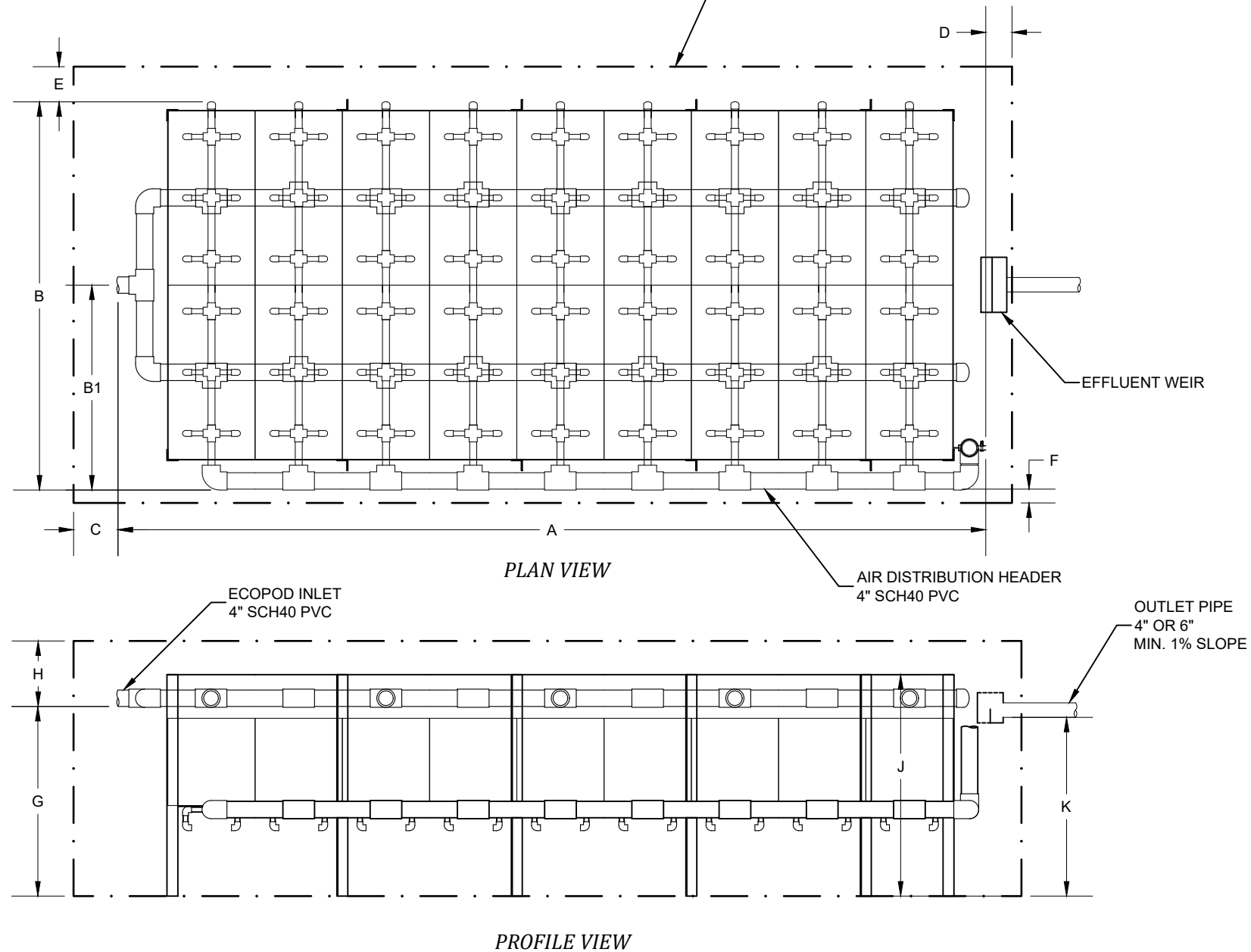
1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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


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

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.



NO.	DATE	INITIALS	DESCRIPTION


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**DELTA ECOPOD E600S-N**  
**STANDARD DESIGN FOR BOD AND NITRIFICATION**  
  
**GENERAL ARRANGEMENT**

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 01

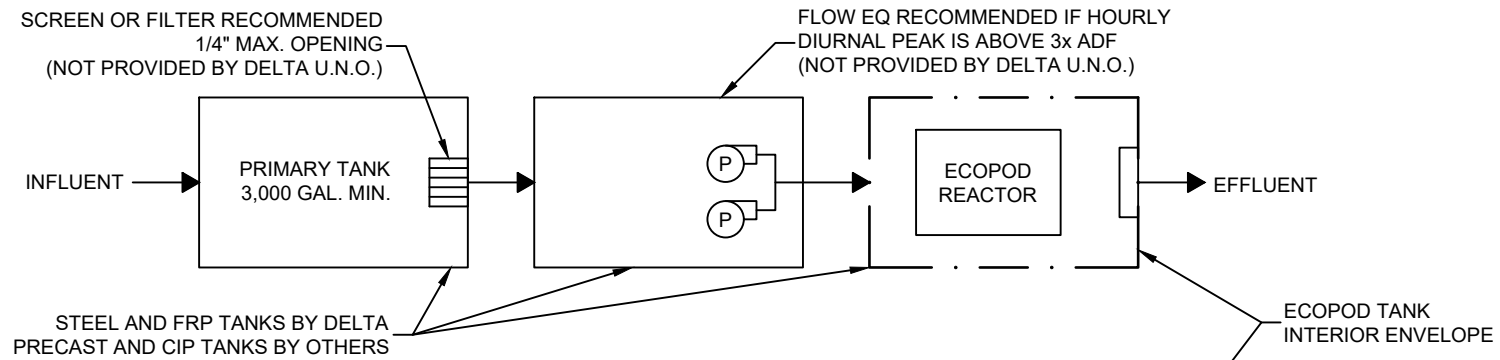
- GENERAL NOTES**
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
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PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	6,000 GPD
PEAK DAILY FLOW	-	9,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	15 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	73 SCFM	85 SCFM
SITE AIR REQUIREMENT	82 ICFM	102 ICFM
BLOWER INLET AIR	116 ICFM	116 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"	47.8 IN <sup>2</sup> 2 EA 6" OR 1 EA 8"
BLOWER SELECTION	FPZ SCL K05-MS	FPZ SCL K05-MS
NOISE LEVEL	70.8 dB(A)	70.8 dB(A)
AIR TEMPERATURE RISE	33 F (18.3 C)	33 F (18.3 C)
BLOWER INLET DIAMETER	2 NPT	2 NPT
BLOWER OUTLET DIAMETER	2 NPT	2 NPT
MOTOR SELECTION	3 HP	3 HP
OPERATING POWER	2.3 HP	2.3 HP
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E600D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	154	392	59	150	32	82
0-3,000	0-914	2	93	237	107	272	56	143
0-1,000	0-305	3	117	298	83	211	44	112

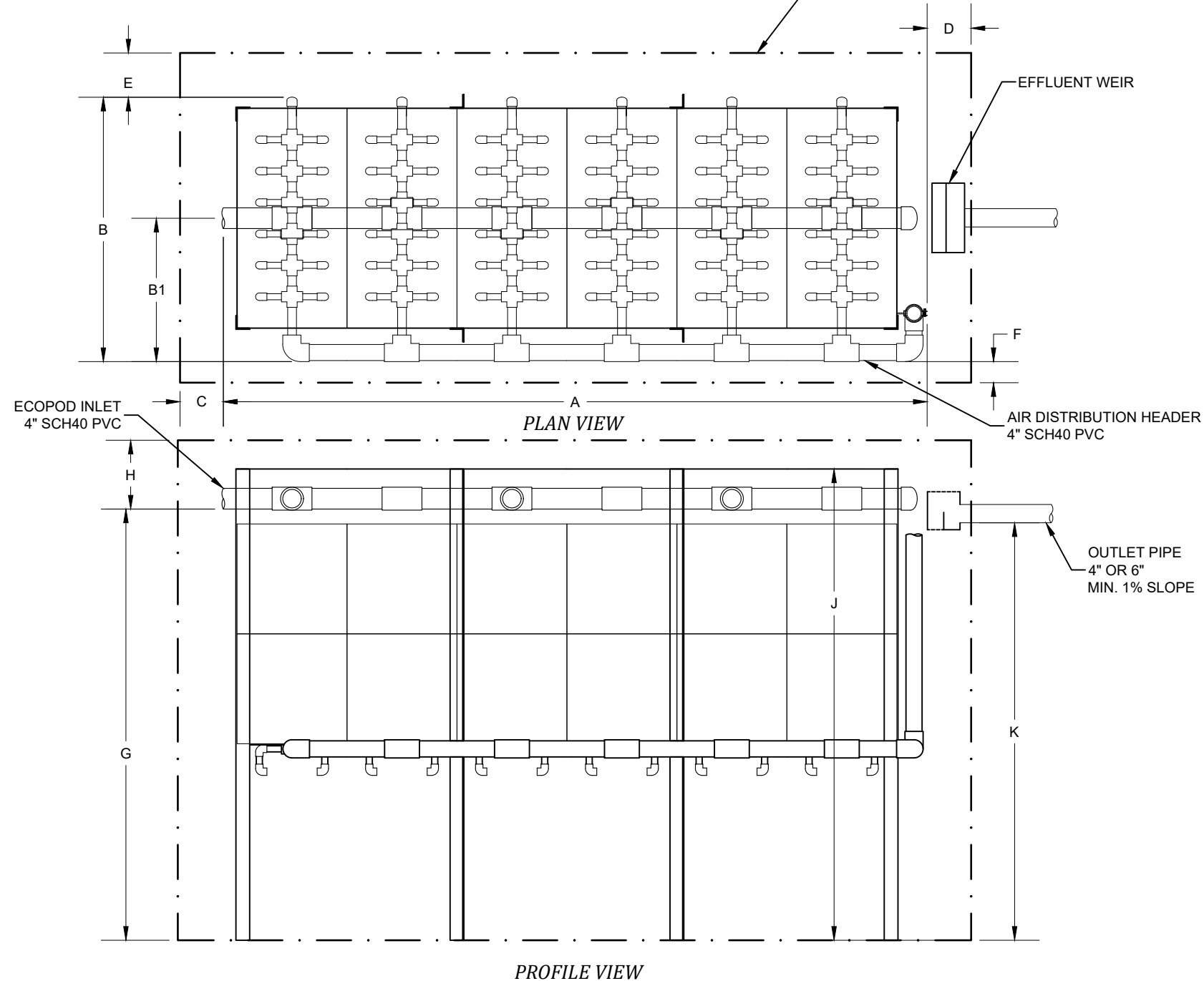
1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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


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

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 HATCH REQUIRED, 24" DIA MINIMUM.



NO.	DATE	INITIALS	DESCRIPTION


**Delta Treatment Systems, LLC**  
An Infiltrator Water Technologies Company

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**DELTA ECOPOD E600D**  
**STANDARD DESIGN FOR BOD REDUCTION**

**GENERAL ARRANGEMENT**

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 01

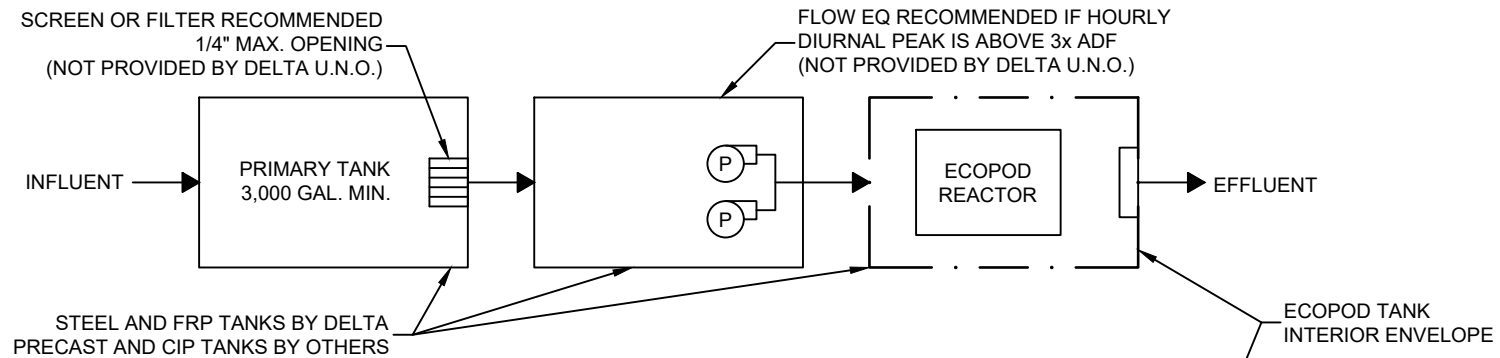
- GENERAL NOTES**
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	6,000 GPD
PEAK DAILY FLOW	-	9,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	15 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	138 SCFM	160 SCFM
SITE AIR REQUIREMENT	155 ICFM	192 ICFM
BLOWER INLET AIR	169 ICFM	192 ICFM
AIR HEADER SIZE	3 IN	4 IN
MIN. TANK VENT X-SECT. AREA	69.6 IN <sup>2</sup> 2 EA 8" OR 1 EA 10"	79 IN <sup>2</sup> 2 EA 8" OR 1 EA 10"
BLOWER SELECTION	FPZ SCL K06-MS	G-D SUTORBILT 3L
NOISE LEVEL	73.3 dB(A)	dB(A)
AIR TEMPERATURE RISE	32 F (17.8 C)	30 F (16.7 C)
BLOWER INLET DIAMETER	2 NPT	2.5 NPT
BLOWER OUTLET DIAMETER	2 NPT	2.5 NPT
MOTOR SELECTION	4 HP	5 HP
OPERATING POWER	3.5 HP	3.3 HP
STARTING CURRENT	122/60.8 A @ 208-230/460V 3-PH 60HZ	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	11.1/5.53 @ 208-230/460V 3-PH 60HZ	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E600D-N
BLOWER	1	VARIES BY SITE ELEVATION	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
		IN	CM	IN	CM	IN	CM	
0-1,000	0-305	1	226	575	59	150	32	82
0-1,000	0-305	2	141	359	107	272	56	143
0-1,000	0-305	3	165	420	83	211	44	112
1,000-3,000	305-914	1	228	580	60	153	33	84
1,000-3,000	305-914	2	143	364	108	275	57	145
1,000-3,000	305-914	3	167	425	84	214	45	115

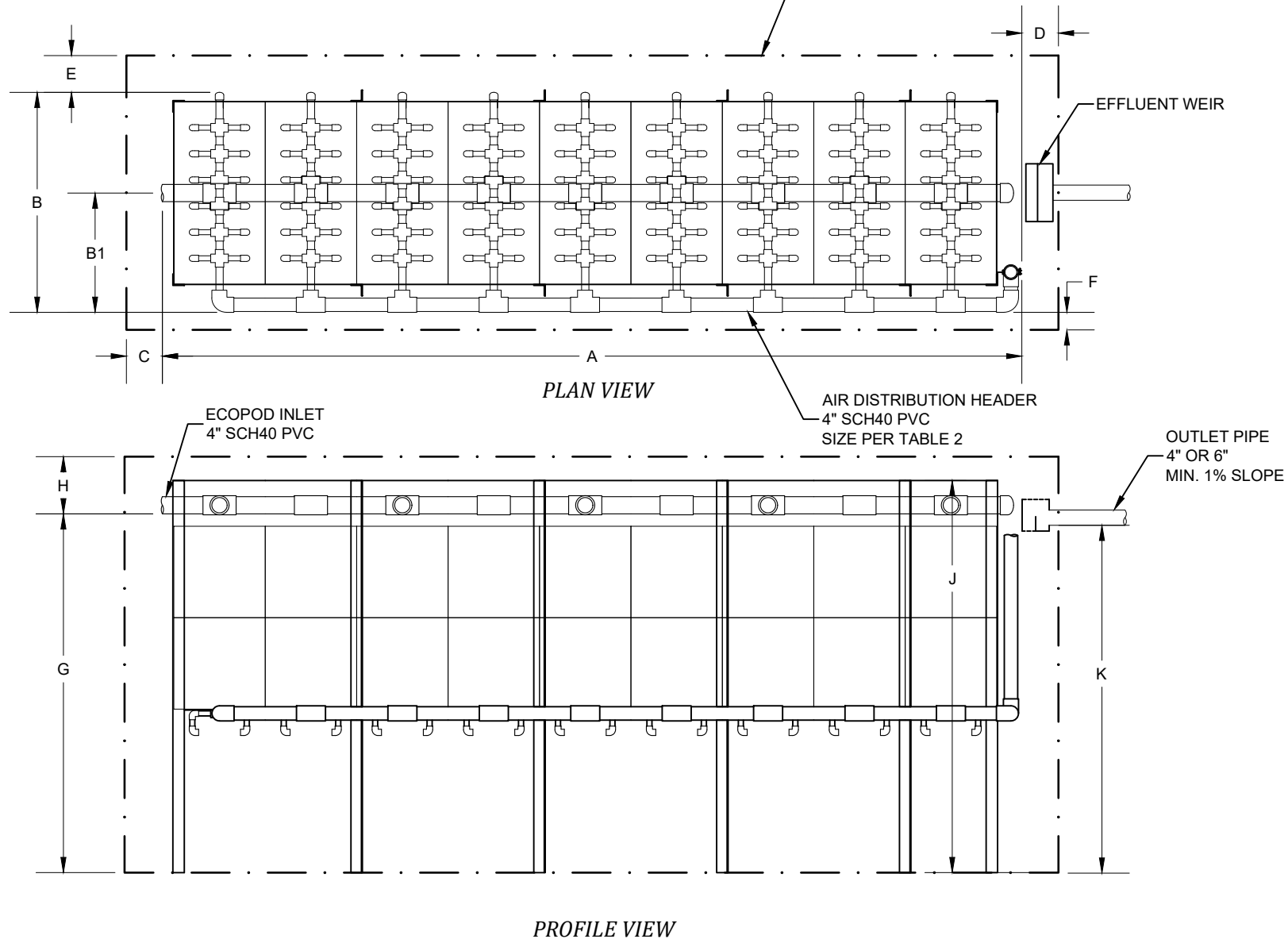
1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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


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

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 HATCH REQUIRED, 24" DIA MINIMUM.



NO.	DATE	INITIALS	DESCRIPTION


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 An Infiltrator Water Technologies Company

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**DELTA ECOPOD E600D-N**  
**STANDARD DESIGN FOR BOD AND NITRIFICATION**  
  
**GENERAL ARRANGEMENT**

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 01

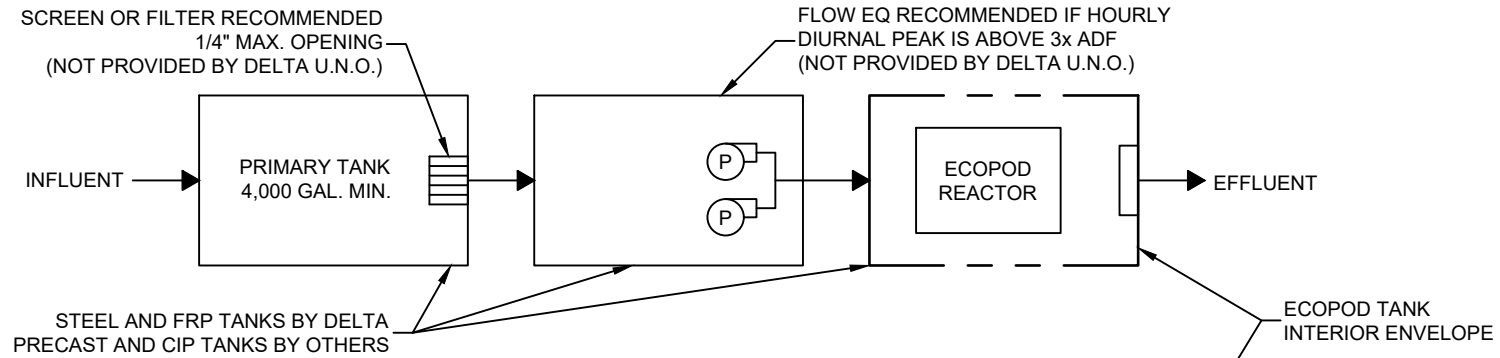
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  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA STANDARDS.
    - FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS).
    - PRECAST CONCRETE 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.
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PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	8,000 GPD
PEAK DAILY FLOW	-	12,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	20 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	176 SCFM	205 SCFM
SITE AIR REQUIREMENT	198 ICFM	246 ICFM
BLOWER INLET AIR	198 ICFM	246 ICFM
AIR HEADER SIZE	4 IN	4 IN
MIN. TANK VENT X-SECT. AREA	81.5 IN <sup>2</sup> 2 EA 8" OR 1 EA 10"	101 IN <sup>2</sup> 2 EA 10" OR 1 EA 12"
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 3L
NOISE LEVEL	dB(A)	dB(A)
AIR TEMPERATURE RISE	22 F (12.2 C)	20 F (11.1 C)
BLOWER INLET DIAMETER	2.5 NPT	2.5 NPT
BLOWER OUTLET DIAMETER	2.5 NPT	2.5 NPT
MOTOR SELECTION	3 HP	5 HP
OPERATING POWER	2.4 HP	2.7 HP
STARTING CURRENT	218/109 A @ 115-208/230V 1-PH 60HZ 74.0/37.0 A @ 208-230/460V 3-PH 60HZ	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	28.0-15.0/14.0 A @ 115-208/230V 1-PH 60HZ 8.0/4.0 A @ 230/460V 3-PH 60HZ	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTPR	1	DELTA	E800S
BLOWER	1	G-D SUTORBILT	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
		IN	CM	IN	CM	IN	CM	
0-3,000	0-914	1	215	547	108	275	57	145
0-3,000	0-914	2	287	729	84	214	45	115

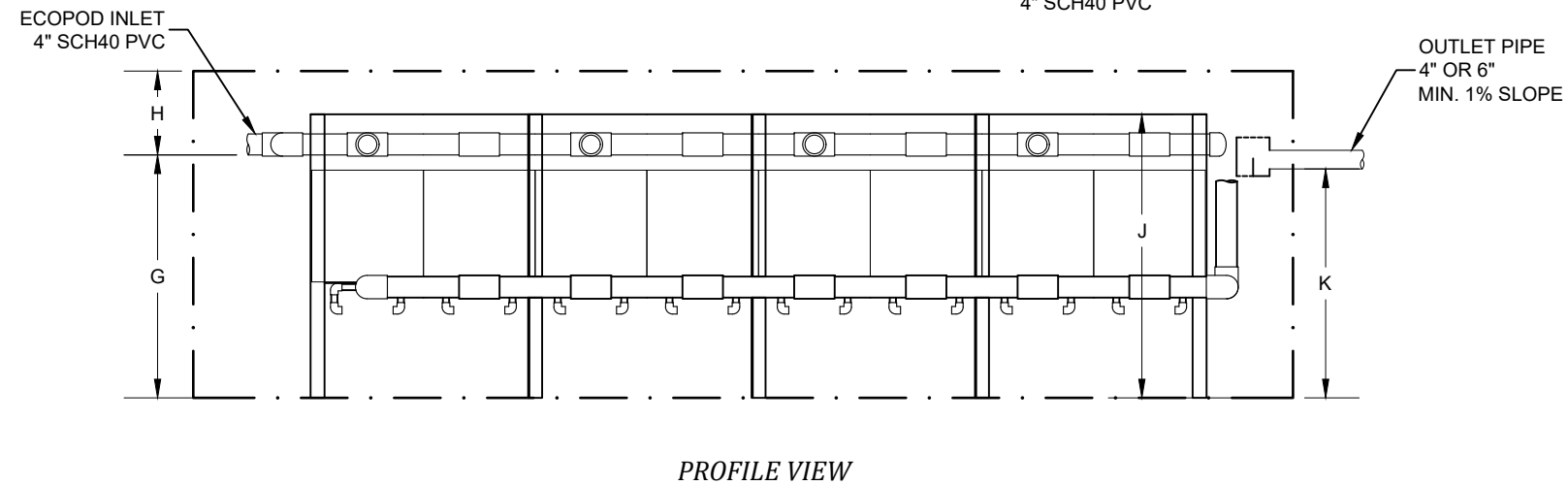
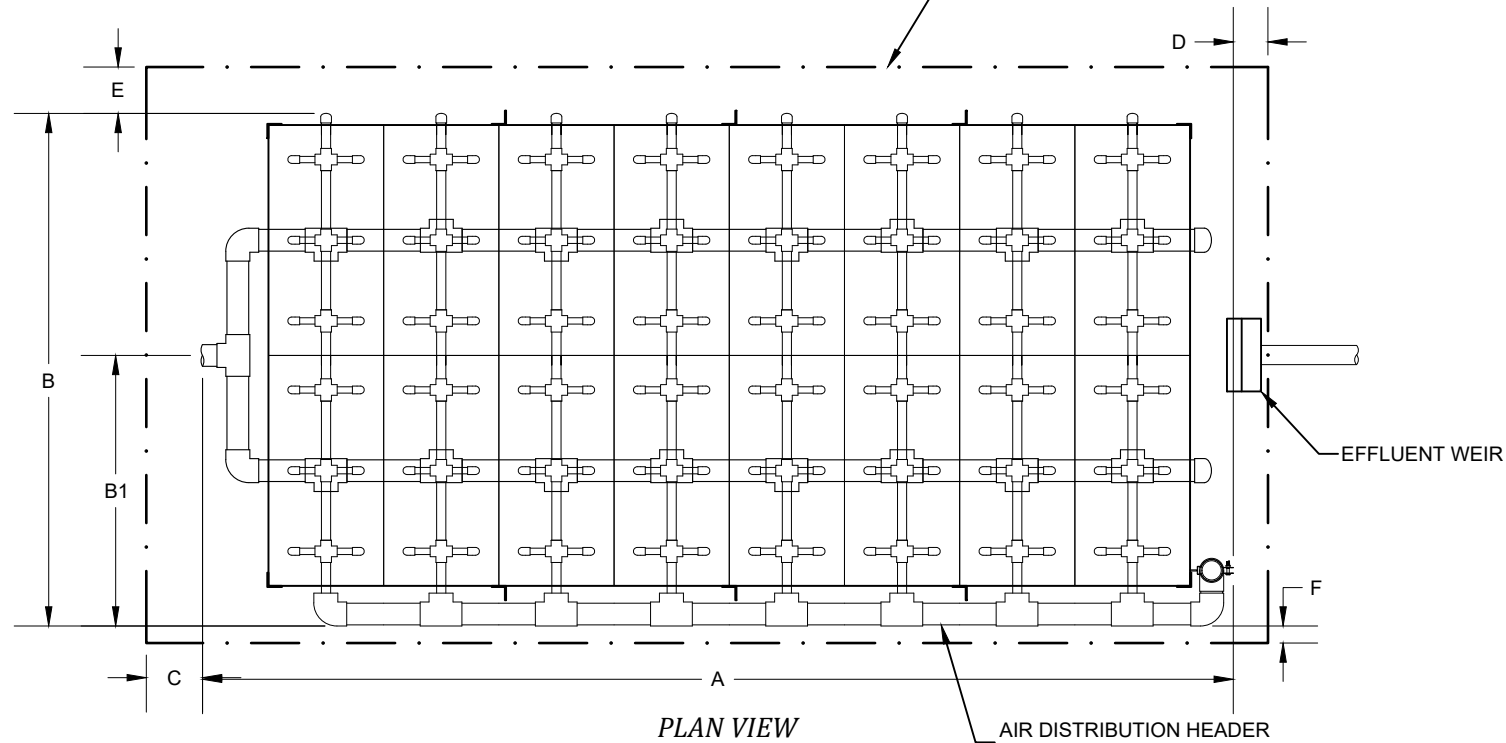
1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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


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

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.



NO.	DATE	INITIALS	DESCRIPTION


**Delta Treatment Systems, LLC**  
 An Infiltrator Water Technologies Company

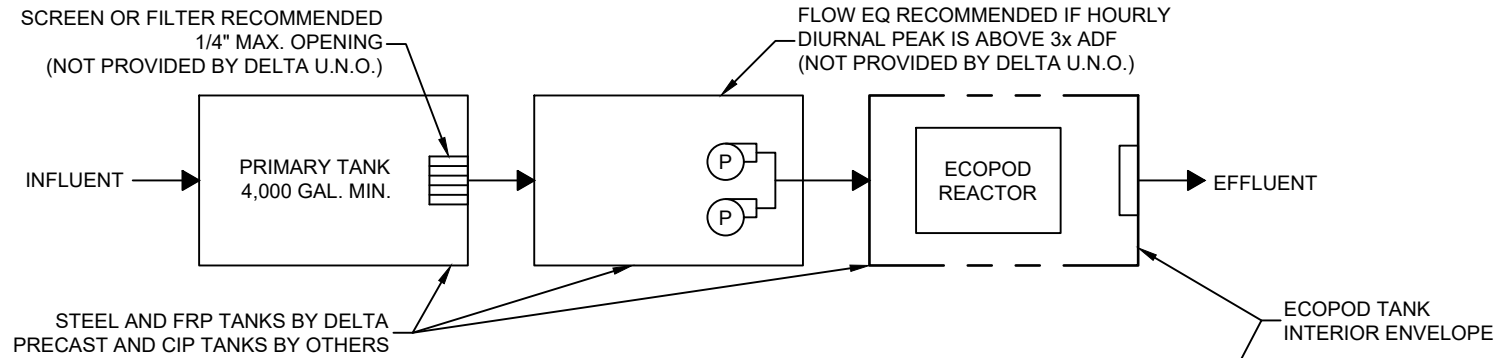
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**DELTA ECOPOD E800S**  
**STANDARD DESIGN FOR BOD REDUCTION**

**GENERAL ARRANGEMENT**

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 01

- 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 OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA STANDARDS.
    - FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS).
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    - CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
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SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	314	798	113	288	62	158
0-3,000	0-914	2	410	1042	89	227	50	127

1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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

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

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

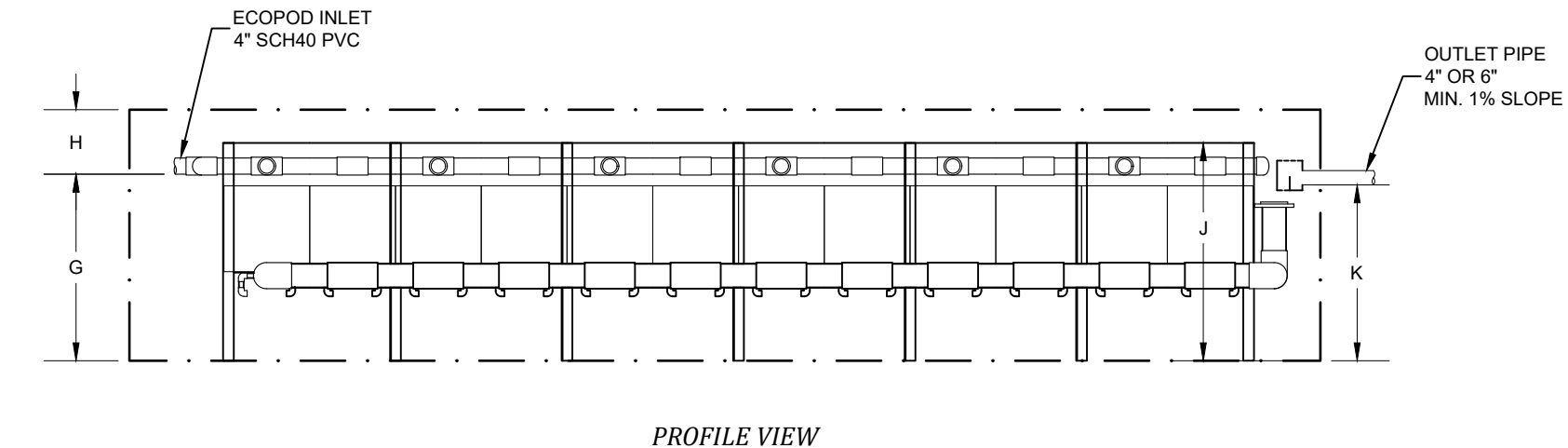
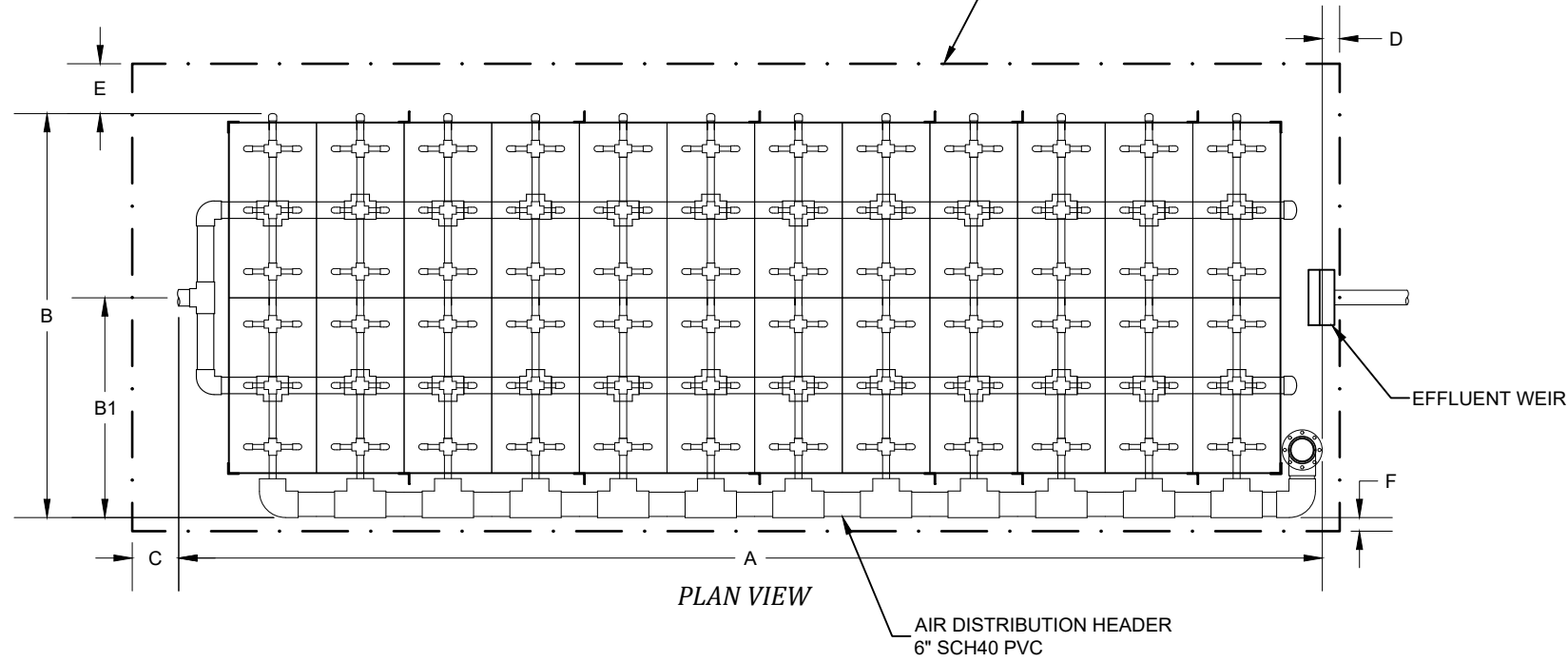
PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
STANDARD AIRFLOW	332 SCFM	387 SCFM
SITE AIR REQUIREMENT	374 ICFM	465 ICFM
BLOWER INLET AIR	374 ICFM	465 ICFM
AIR HEADER SIZE	6 IN	6 IN
MIN. TANK VENT X-SECT. AREA	154 IN <sup>2</sup> 2 EA 10"	191 IN <sup>2</sup> 3 EA 10" OR 2 EA 12"
BLOWER SELECTION	G-D SUTORBILT 4L	G-D SUTORBILT 4L
NOISE LEVEL	dB(A)	dB(A)
AIR TEMPERATURE RISE	22 F (12.2 C)	20 F (11.1 C)
BLOWER INLET DIAMETER	3 NPT	3 NPT
BLOWER OUTLET DIAMETER	3 NPT	3 NPT
MOTOR SELECTION	5 HP	7.5 HP
OPERATING POWER	4 HP	4.8 HP
STARTING CURRENT	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ	198 A @ 208/230V 1-PH 60HZ 124/62 A @ 230/460V 3-PH 60HZ
FULL LOAD CURRENT	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ	35.0/30.0 A @ 208/230V 1-PH 60HZ 19.0/9.5 A @ 230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.


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.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E800S-N
BLOWER	1	G-D SUTORBILT	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



NO.	DATE	INITIALS	DESCRIPTION


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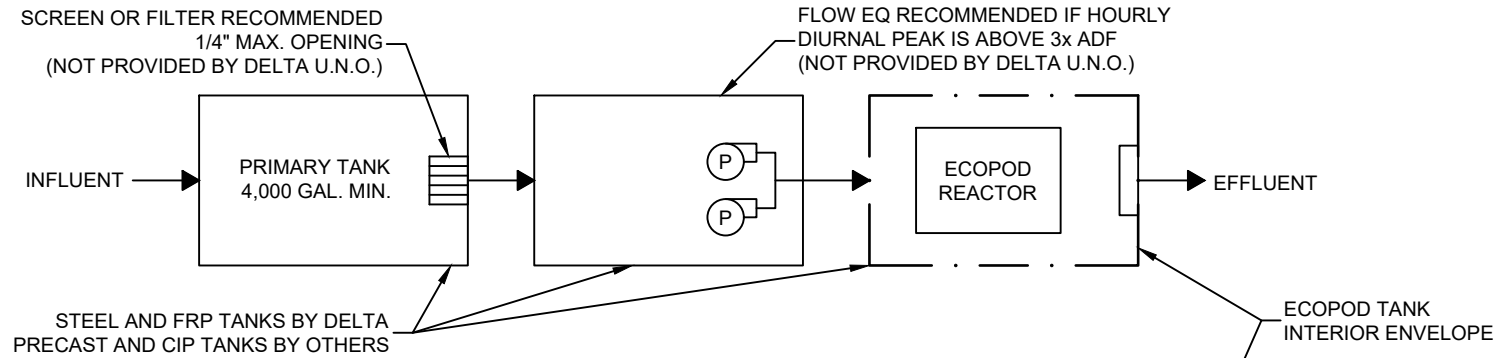
**DELTA ECOPOD E800S-N**  
**STANDARD DESIGN FOR BOD AND NITRIFICATION**

GENERAL ARRANGEMENT

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 01

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- 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 OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
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SITE ELEVATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
		IN	CM	IN	CM	IN	CM	
0-3,000	0-914	1	202	514	59	150	32	82
0-3,000	0-914	2	117	298	107	272	56	143
0-3,000	0-914	3	165	420	83	211	44	112

1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	8,000 GPD
PEAK DAILY FLOW	-	12,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	20 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	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	33 F (18.3 C)	32 F (17.8 C)
BLOWER INLET DIAMETER	2 NPT	2 NPT
BLOWER OUTLET DIAMETER	2 NPT	2 NPT
MOTOR SELECTION	3 HP	4 HP
OPERATING POWER	2.3 HP	3.5 HP
STARTING CURRENT	119.8/61.8 A @ 115-208/230V 1-PH 60HZ 88.9/44.4 A @ 208-230/460V 3-PH 60HZ	122/60.8 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	29.4/16.6 A @ 115-208/230V 1-PH 60HZ 8.31/4.15 A @ 208-230/460V 3-PH 60HZ	11.1/5.53 @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

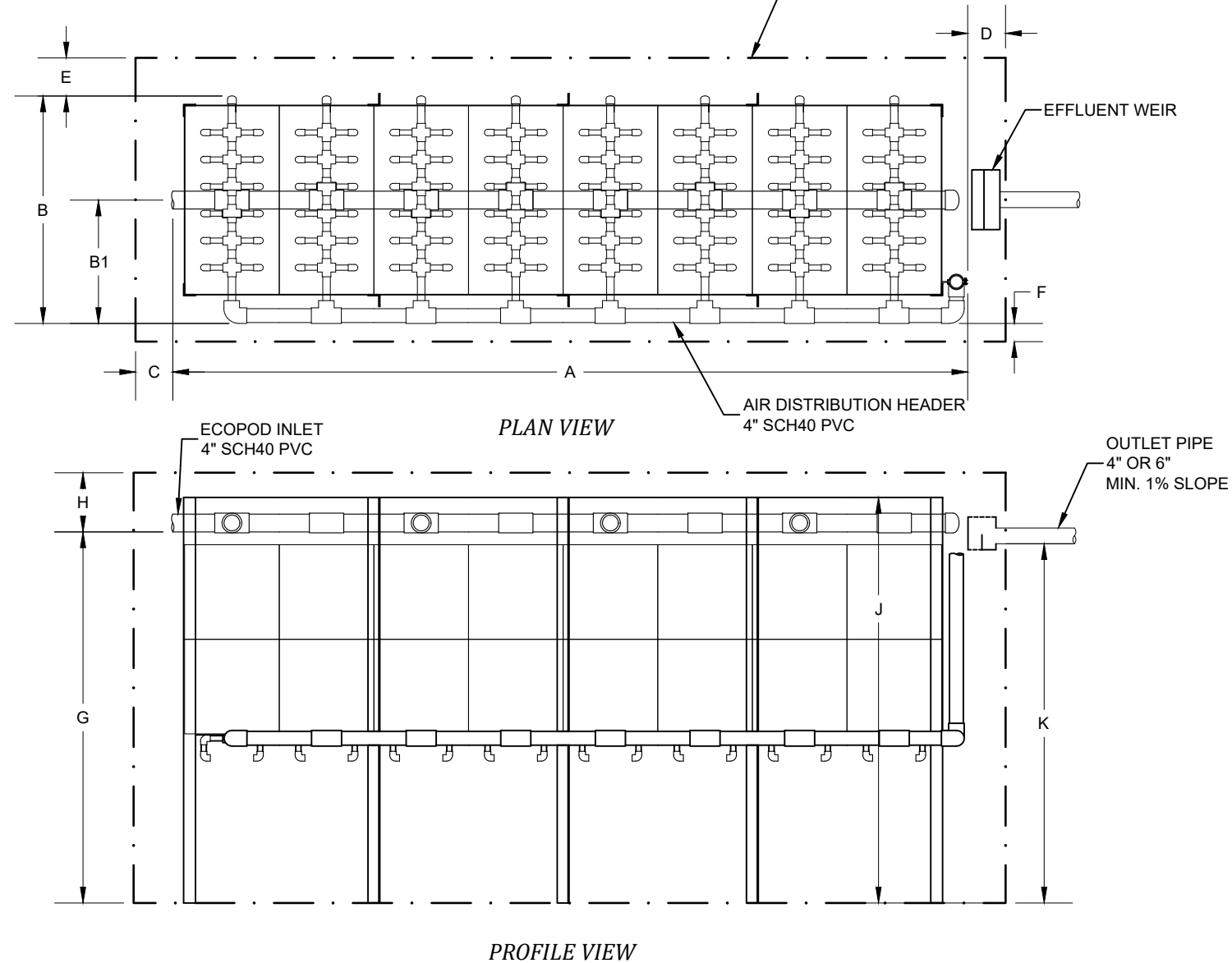
DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E800D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2

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


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

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 HATCH REQUIRED, 24" DIA MINIMUM.



NO.	DATE	INITIALS	DESCRIPTION


**Delta Treatment Systems, LLC**  
An Infiltrator Water Technologies Company

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**DELTA ECOPOD E800D**  
**STANDARD DESIGN FOR BOD REDUCTION**

**GENERAL ARRANGEMENT**

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 01

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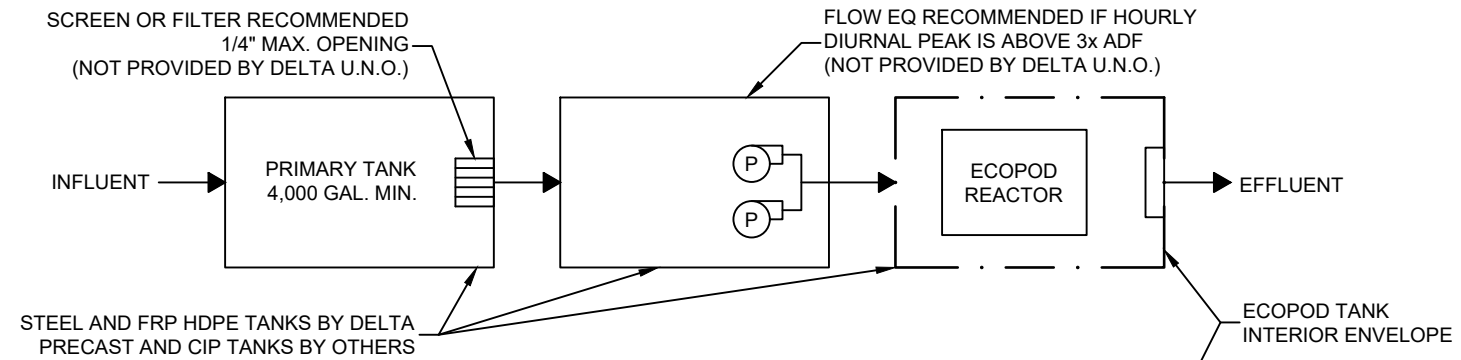
- GENERAL NOTES**
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	8,000 GPD
PEAK DAILY FLOW	-	12,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	20 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	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	dB(A)	dB(A)
AIR TEMPERATURE RISE	30 F (16.7 C)	30 F (16.7 C)
BLOWER INLET DIAMETER	2.5 NPT	2.5 NPT
BLOWER OUTLET DIAMETER	2.5 NPT	2.5 NPT
MOTOR SELECTION	5 HP	5 HP
OPERATING POWER	3.3 HP	3.8 HP
STARTING CURRENT	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E800D-N
BLOWER	1	G-D SUTORBILT	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION	LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM		
		IN	CM	IN	CM	IN	CM	
0-3,000	0-914	1	300	762	60	153	33	84
0-3,000	0-914	2	167	425	108	275	57	145
0-3,000	0-914	3	215	547	84	214	45	115

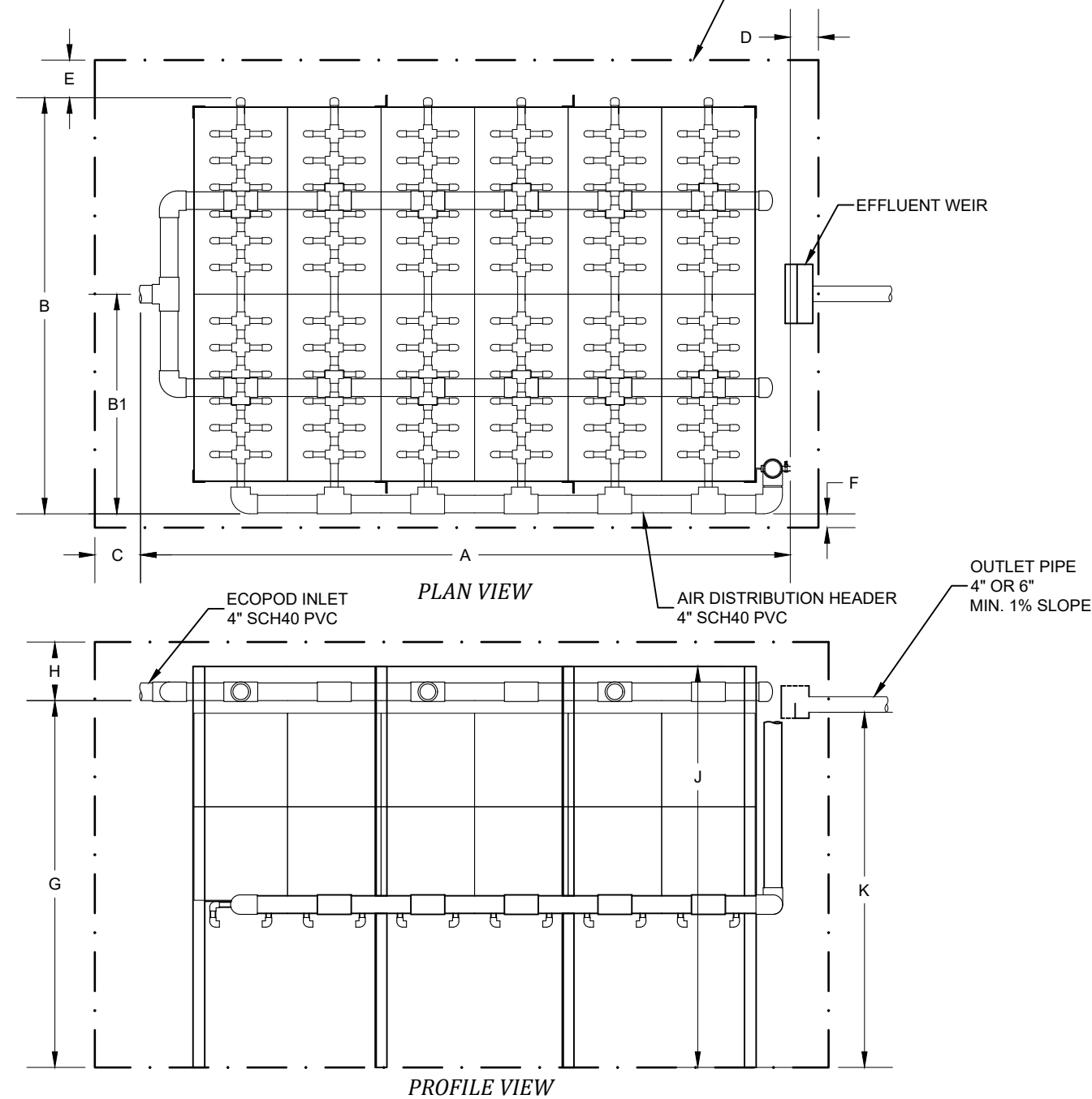
1. LAYOUT 2 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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


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

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 HATCH REQUIRED, 24" DIA. MINIMUM.



NO.	DATE	INITIALS	DESCRIPTION


**Delta Treatment Systems, LLC**  
 An Infiltrator Water Technologies Company

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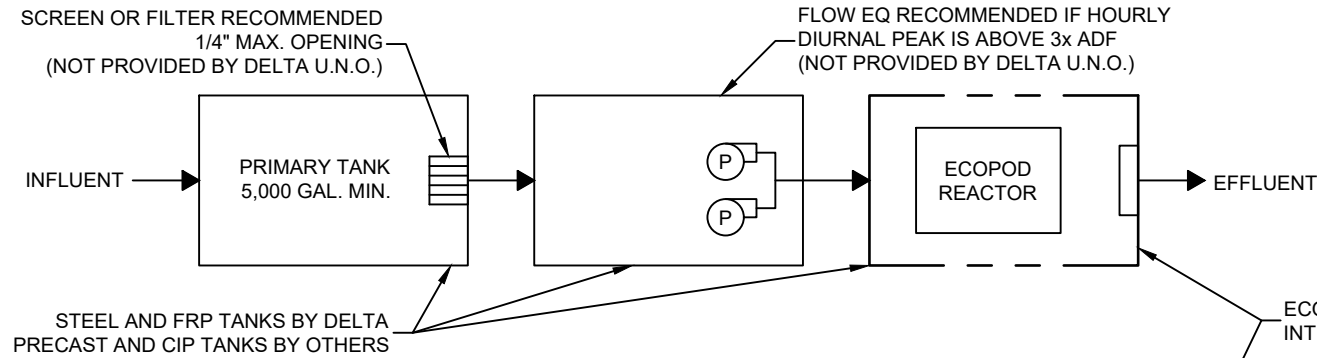
**DELTA ECOPOD E800D-N**  
**STANDARD DESIGN FOR BOD AND NITRIFICATION**

GENERAL ARRANGEMENT

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 01



- 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 OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
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SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	263	669	108	275	57	145
0-3,000	0-914	2	359	912	84	214	45	115

1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	10,000 GPD
PEAK DAILY FLOW	-	15,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	25 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	220 SCFM	256 SCFM
SITE AIR REQUIREMENT	248 ICFM	307 ICFM
BLOWER INLET AIR	248 ICFM	307 ICFM
AIR HEADER SIZE	4 IN	4 IN
MIN. TANK VENT X-SECT. AREA	102 IN <sup>2</sup> 2 EA 10" OR 1 EA 12"	126 IN <sup>2</sup> 3 EA 8" OR 2 EA 10"
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 3L
NOISE LEVEL	dB(A)	dB(A)
AIR TEMPERATURE RISE	21 F (11.7 C)	20 F (11.1 C)
BLOWER INLET DIAMETER	2.5 NPT	2.5 NPT
BLOWER OUTLET DIAMETER	2.5 NPT	2.5 NPT
MOTOR SELECTION	5 HP	5 HP
OPERATING POWER	2.8 HP	3.4 HP
STARTING CURRENT	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

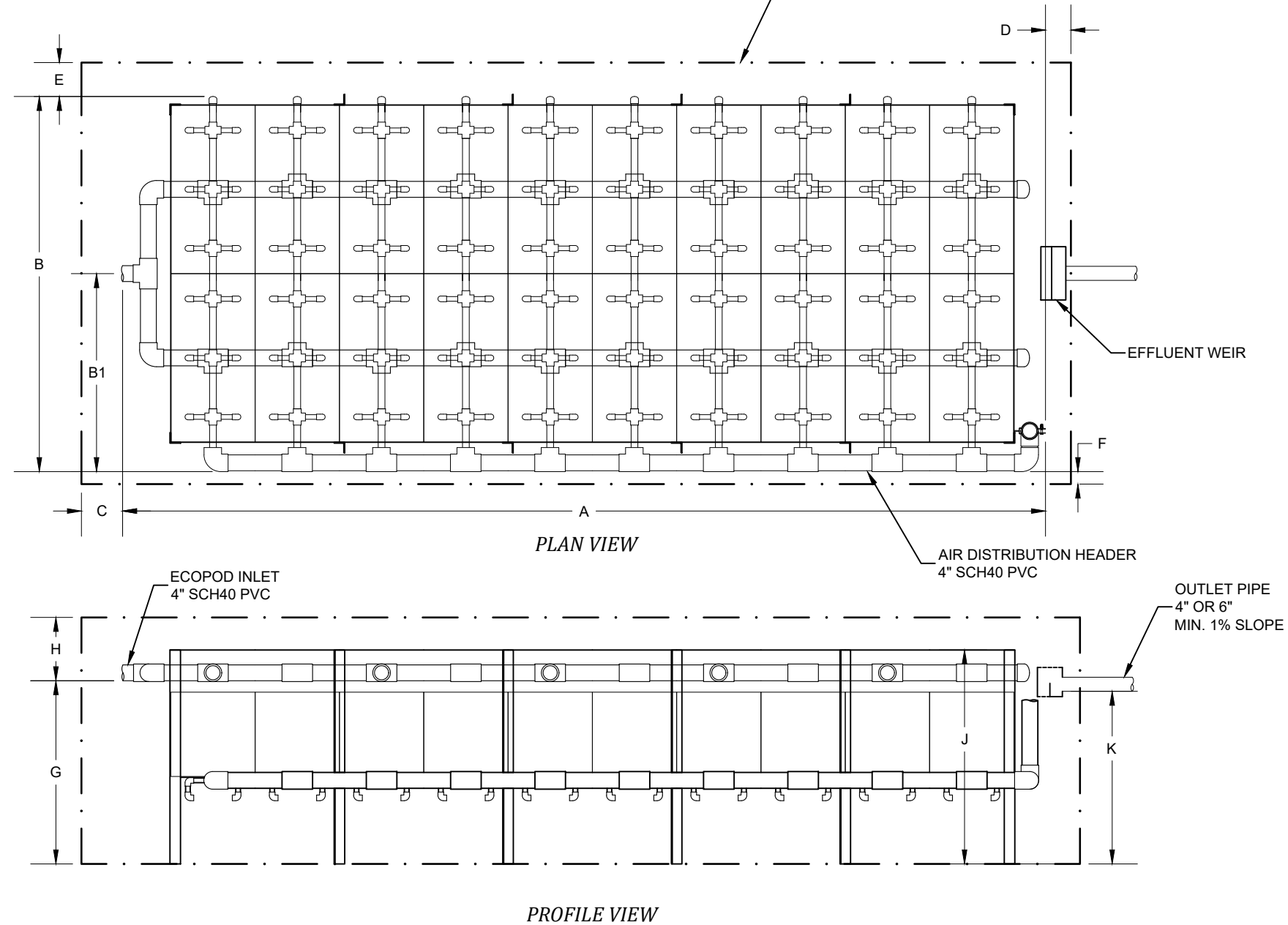
DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E1000S
BLOWER	1	G-D SUTORBILT	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2

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


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

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.



NO.	DATE	INITIALS	DESCRIPTION


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 An Infiltrator Water Technologies Company

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**DELTA ECOPOD E1000S**  
**STANDARD DESIGN FOR BOD REDUCTION**

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**GENERAL ARRANGEMENT**

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 01

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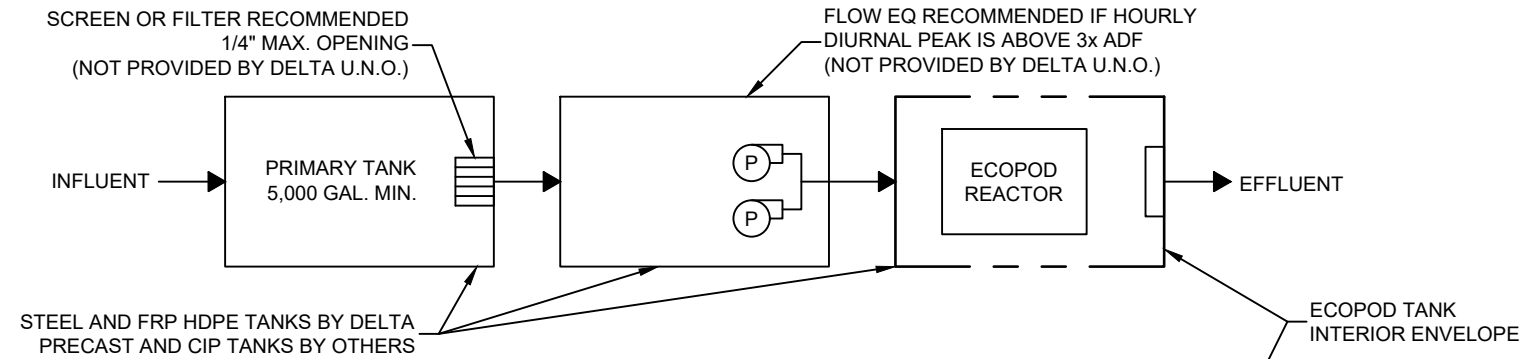
- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
  - TANK MATERIAL OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
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PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	10,000 GPD
PEAK DAILY FLOW	-	15,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	25 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	416 SCFM	534 SCFM
SITE AIR REQUIREMENT	468 ICFM	641 ICFM
BLOWER INLET AIR	468 ICFM	641 ICFM
AIR HEADER SIZE	6 IN	6 IN
MIN. TANK VENT X-SECT. AREA	193 IN <sup>2</sup> 1 EA 12"	264 IN <sup>2</sup> 2 EA 12"
BLOWER SELECTION	G-D SUTORBILT 4L	G-D SUTORBILT 5L
NOISE LEVEL	dB(A)	dB(A)
AIR TEMPERATURE RISE	20 F (11.1 C)	20 F (11.1 C)
BLOWER INLET DIAMETER	3 NPT	4 NPT
BLOWER OUTLET DIAMETER	3 NPT	4 NPT
MOTOR SELECTION	7.5 HP	7.5 HP
OPERATING POWER	4.9 HP	6.2 HP
STARTING CURRENT	198 A @ 208/230V 1-PH 60HZ 124/62 A @ 230/460V 3-PH 60HZ	198 A @ 208/230V 1-PH 60HZ 124/62 A @ 230/460V 3-PH 60HZ
FULL LOAD CURRENT	35.0/30.0 A @ 208/230V 1-PH 60HZ 19.0/9.5 A @ 230/460V 3-PH 60HZ	35.0/30.0 A @ 208/230V 1-PH 60HZ 19.0/9.5 A @ 230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E1000S-N
BLOWER	1	G-D SUTORBILT	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2



SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	386	981	113	288	62	158
0-3,000	0-914	2	506	1286	89	227	50	127

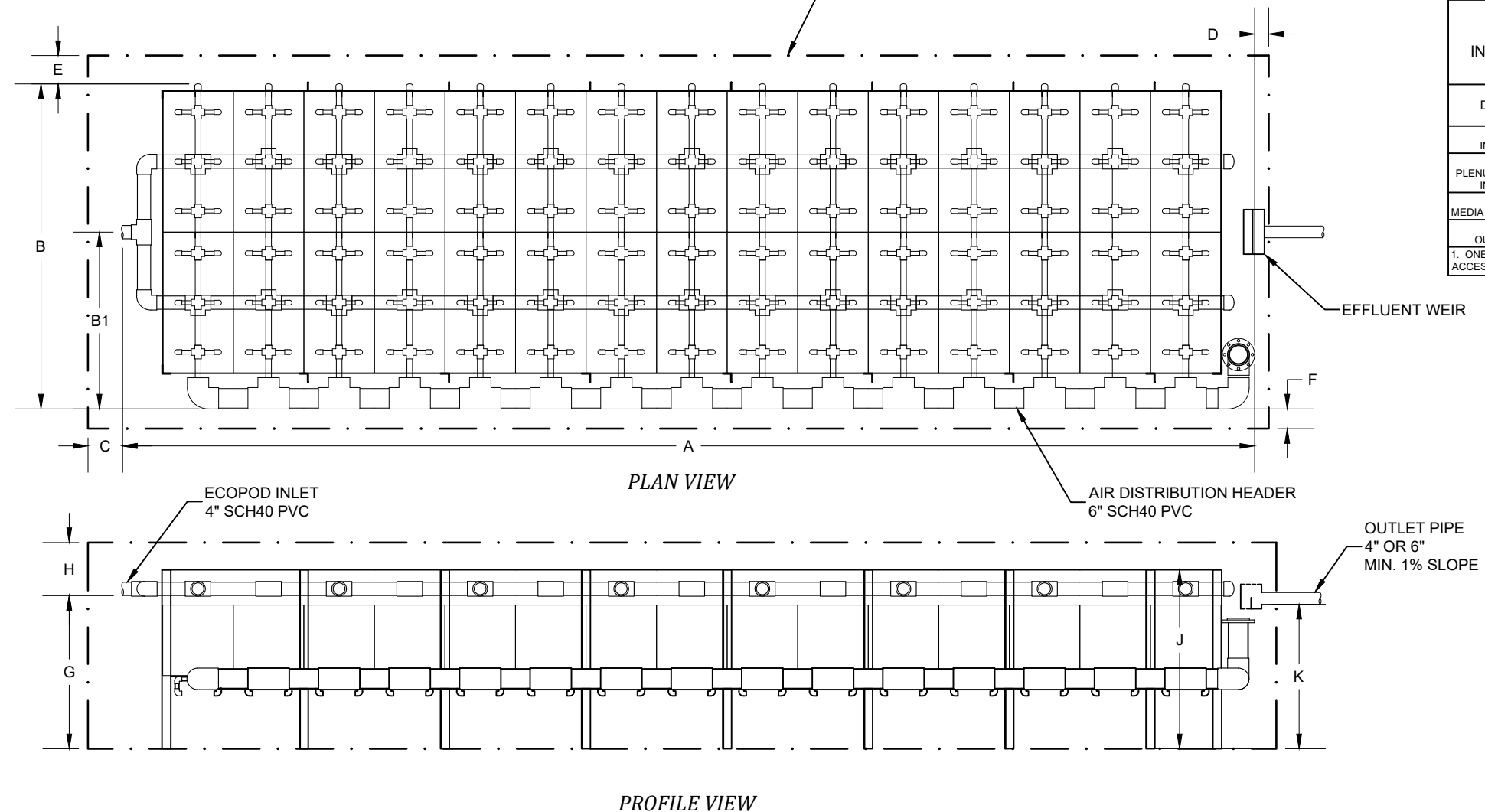
1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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


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

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.



NO.	DATE	INITIALS	DESCRIPTION

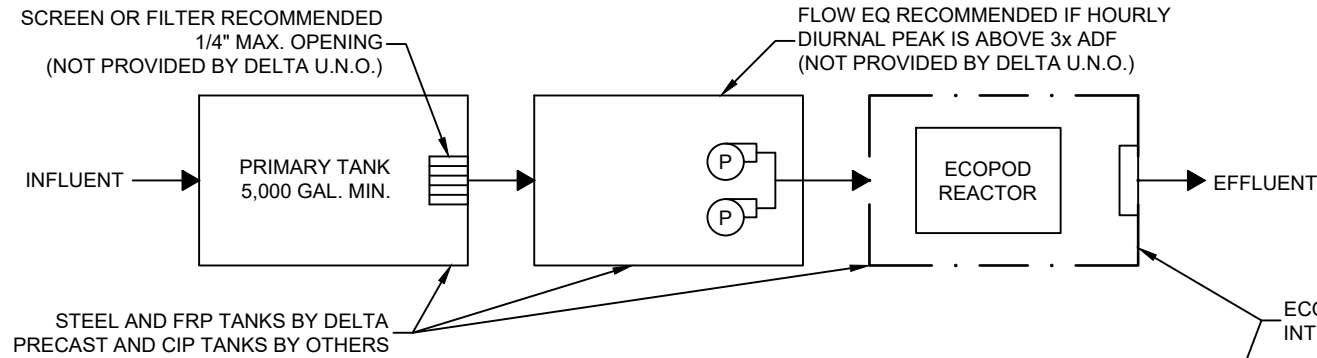

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**DELTA ECOPOD E1000S-N**  
**STANDARD DESIGN FOR BOD AND NITRIFICATION**  
  
**GENERAL ARRANGEMENT**

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 01

- 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 OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA STANDARDS.
    - FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS).
    - PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
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SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	250	635	59	150	32	82
0-3,000	0-914	2	141	359	107	272	56	143
0-3,000	0-914	3	189	481	83	211	44	112

1. LAYOUT 1 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	10,000 GPD
PEAK DAILY FLOW	-	15,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	25 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	134 SCFM	141 SCFM
SITE AIR REQUIREMENT	151 ICFM	170 ICFM
BLOWER INLET AIR	169 ICFM	169 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	69.6 IN <sup>2</sup> 2 EA 8" OR 1 EA 10"	69.6 IN <sup>2</sup> 2 EA 8" OR 1 EA 10"
BLOWER SELECTION	FPZ SCL K06-MS	FPZ SCL K06-MS
NOISE LEVEL	73.3 dB(A)	64.8 dB(A)
AIR TEMPERATURE RISE	32 F (17.8 C)	32 F (17.8 C)
BLOWER INLET DIAMETER	2 NPT	2 NPT
BLOWER OUTLET DIAMETER	2 NPT	2 NPT
MOTOR SELECTION	4 HP	4 HP
OPERATING POWER	3.5 HP	3.5 HP
STARTING CURRENT	122/60.8 A @ 208-230/460V 3-PH 60HZ	122/60.8 A @ 208-230/460V 3-PH 60HZ
FULL LOAD CURRENT	11.1/5.53 @ 208-230/460V 3-PH 60HZ	11.1/5.53 @ 208-230/460V 3-PH 60HZ

- REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.
- USE ALTERNATIVE BLOWER GARDNER DENVER 3L ON HIGH ELEVATION RANGE IF REQUIRED. SEE CALCULATIONS FOR DETAILS.

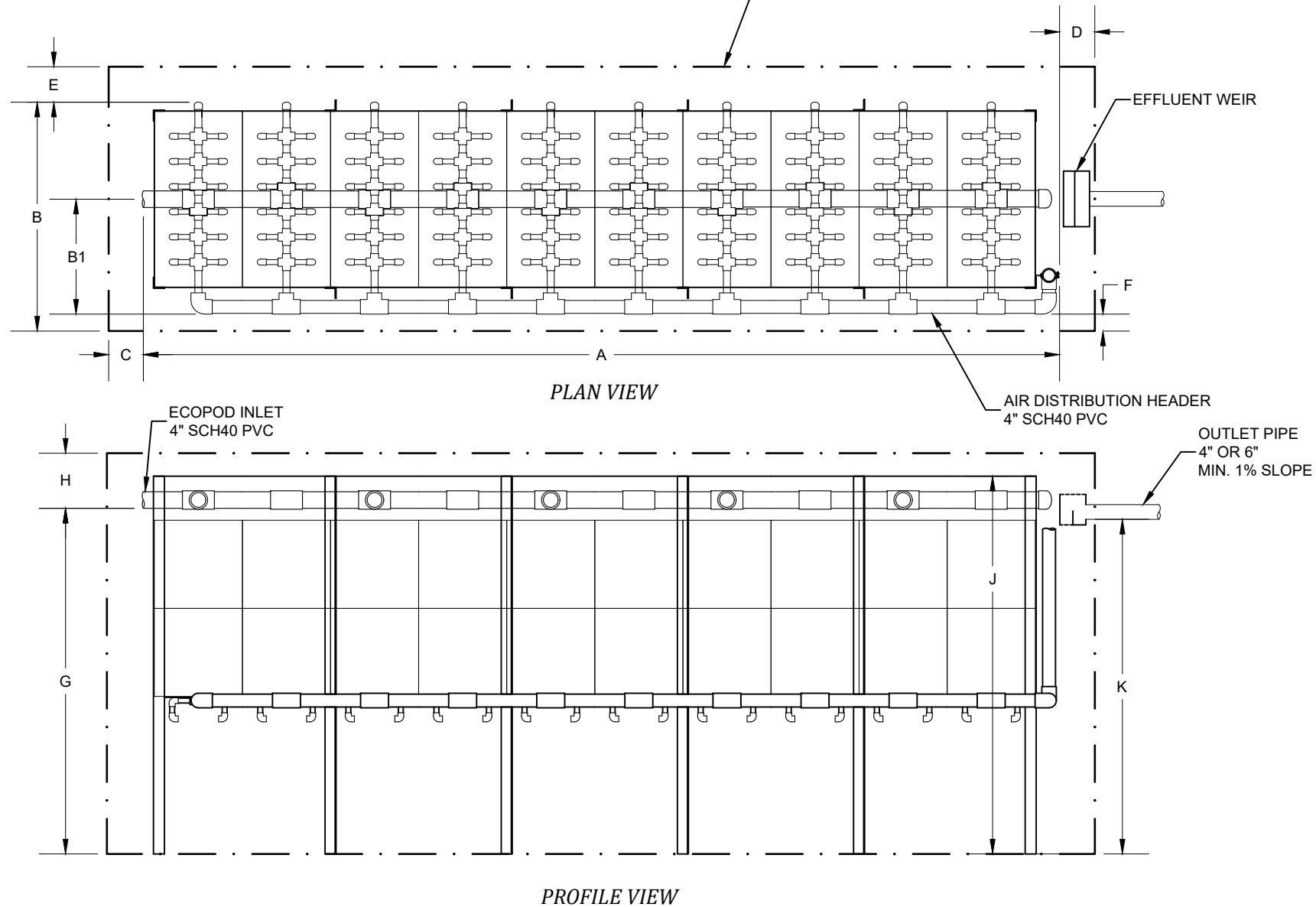
DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E1000D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2

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


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

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 HATCH REQUIRED, 24" DIA MINIMUM.



NO.	DATE	INITIALS	DESCRIPTION


**Delta Treatment Systems, LLC**  
 An Infiltrator Water Technologies Company

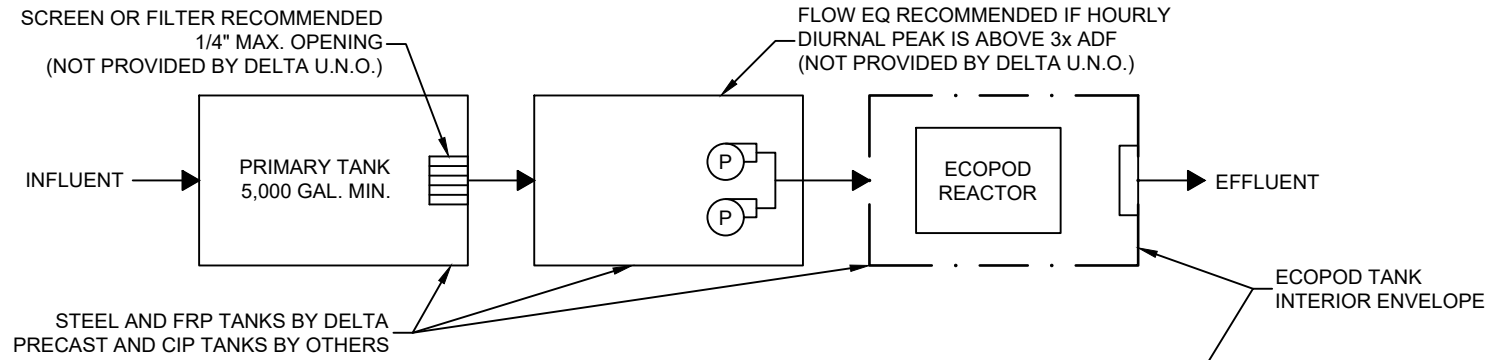
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**DELTA ECOPOD E1000D**  
**STANDARD DESIGN FOR BOD REDUCTION**

**GENERAL ARRANGEMENT**

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 01

- 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 OPTIONS:
    - CARBON STEEL PER ASTM A36 w/COATING PER DELTA 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.
  - STATE OR LOCAL AGENCY APPROVED DESIGNS FOR A PARTICULAR SYSTEM MAY DIFFER FROM THESE DRAWINGS. WHERE APPLICABLE, SYSTEM DESIGNS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE MAY DIFFER FROM THESE DRAWINGS. FOR MORE INFORMATION ON STATE AND LOCAL AGENCY APPROVED DESIGNS, SYSTEMS BASED ON NSF/ANSI 40 AND NSF/ANSI 245 PERFORMANCE, OR CUSTOM DESIGNED SYSTEMS DEVIATING FROM THESE SIZES AND STANDARDS CONTACT IWT/DELTA AT (800) 219-9183.



PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	10,000 GPD
PEAK DAILY FLOW	-	15,000 GPD
PEAK HOURLY FLOW	-	-
INFLUENT BOD <sub>5</sub>	-	25 LB/DAY
AIR TEMPERATURE	-20 °F	115 °F
WATER TEMPERATURE	68 °F	90 °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	229 SCFM	267 SCFM
SITE AIR REQUIREMENT	258 ICFM	320 ICFM
BLOWER INLET AIR	258 ICFM	320 ICFM
AIR HEADER SIZE	4 IN	4 IN
MIN. TANK VENT X-SECT. AREA	106 IN <sup>2</sup> 2 EA 10" OR 1 EA 12"	132 IN <sup>2</sup> 2 EA 10"
BLOWER SELECTION	G-D SUTORBILT 3L	G-D SUTORBILT 4L
NOISE LEVEL	dB(A)	dB(A)
AIR TEMPERATURE RISE	28 F (15.6 C)	27 F (15 C)
BLOWER INLET DIAMETER	2.5 NPT	3 NPT
BLOWER OUTLET DIAMETER	2.5 NPT	3 NPT
MOTOR SELECTION	5 HP	7.5 HP
OPERATING POWER	3.8 HP	4.8 HP
STARTING CURRENT	133.5 A @ 208/230V 1-PH 60HZ 92.0/46.0 A @ 208-230/460V 3-PH 60HZ	198 A @ 208/230V 1-PH 60HZ 124/62 A @ 230/460V 3-PH 60HZ
FULL LOAD CURRENT	21.5/19.5 A @ 208/230V 1-PH 60HZ 14.8-14.0/7.0 A @ 208-230/460V 3-PH 60HZ	35.0/30.0 A @ 208/230V 1-PH 60HZ 19.0/9.5 A @ 230/460V 3-PH 60HZ

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E1000D-N
BLOWER	1	G-D SUTORBILT	PER TABLE 2
CONTROL PANEL	1	DELTA	
EFFLUENT WEIR	1	DELTA	W2592-2

SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	215	547	108	275	57	145
0-3,000	0-914	2	263	669	84	214	45	115

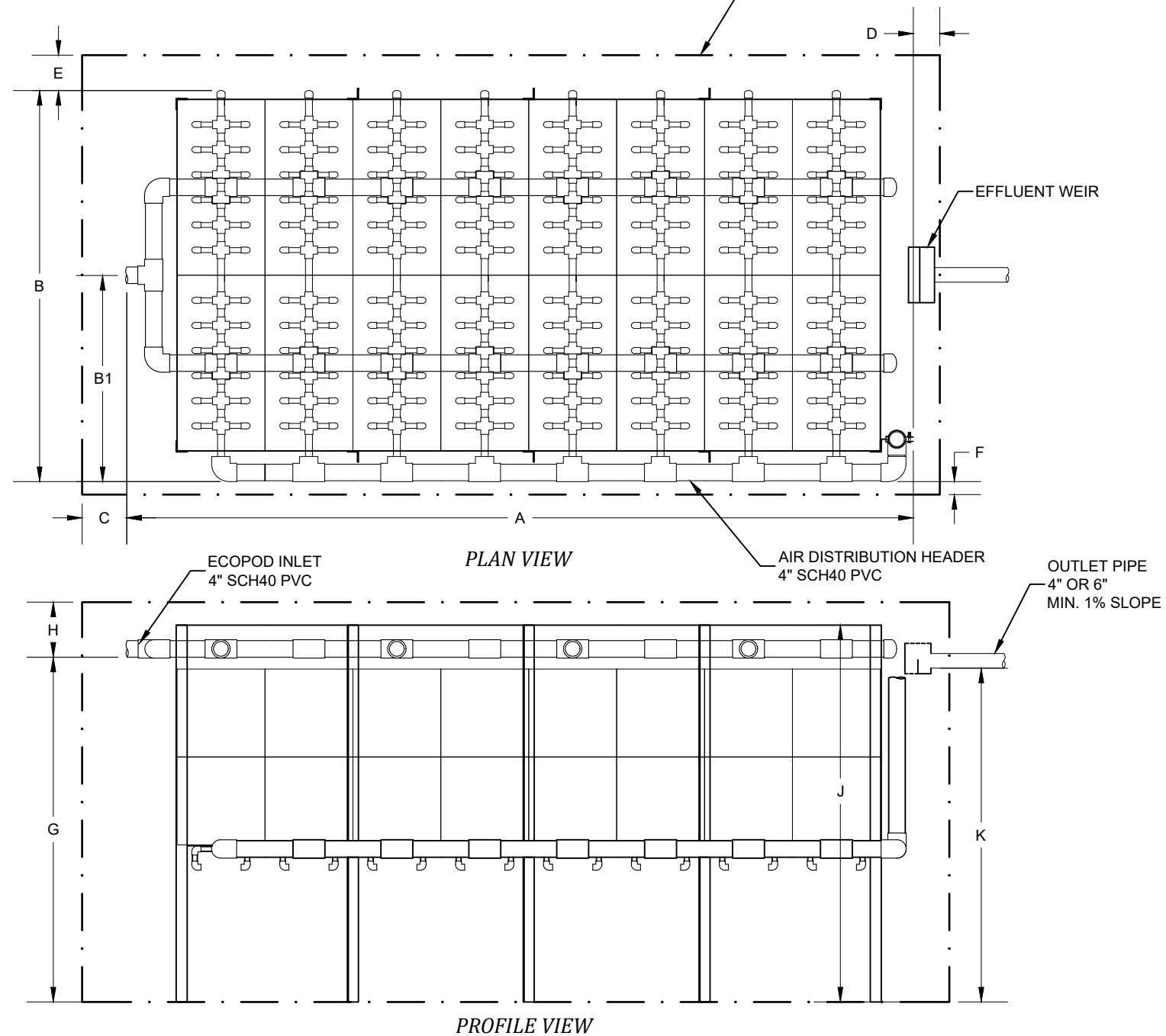
1. LAYOUT 2 SHOWN IN PLAN VIEW.  
2. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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


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

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 HATCH REQUIRED, 24" DIA MINIMUM.



NO.	DATE	INITIALS	DESCRIPTION


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**DELTA ECOPOD E1000D-N**  
**STANDARD DESIGN FOR BOD AND NITRIFICATION**

GENERAL ARRANGEMENT

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 01