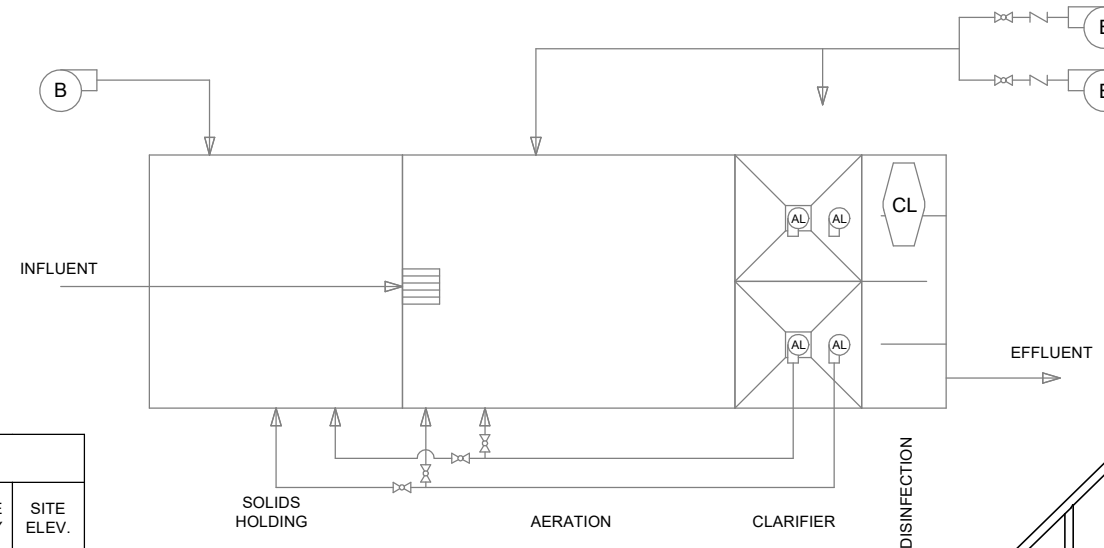


- GENERAL ARRANGEMENT NOTES
1. THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUT(S) OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
  2. THE EQUIPMENT ARRANGEMENT/LAYOUT IS SCHEMATIC IN NATURE AND SOME OBJECTS MAY NOT BE DRAWN TO SCALE. REFER TO THE ENGINEER-OF-RECORD PROJECT DOCUMENTS FOR FINAL SITE AND/OR EQUIPMENT ARRANGEMENT.
  3. PACKAGE TREATMENT SYSTEM TANK BASINS SHALL BE FABRICATED FROM STRUCTURAL GRADE STEEL PLATE PER ASTM A36 REQUIREMENTS. STRUCTURAL SHAPES SHALL BE PER AISC PREFERRED MATERIAL SPECIFICATION.
  4. BLOWERS, WEIRS, CONTROL PANELS, AND VARIOUS SMALL PARTS SHALL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED, TO BE INSTALLED BY CONTRACTOR. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL DETAIL.
  5. CONTRACTOR TO PROVIDE AND INSTALL ALL FIELD PIPING AND SECURE ALL EQUIPMENT CONNECTIONS AS SHOWN IN THE ENGINEER OF RECORD'S PROJECT DOCUMENTS.
  6. INTERNAL DEVICES SHALL BE INSTALLED PLUMB AND LEVEL.
  7. CONTACT AN INFILTRATOR/DELTA REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.



**TABLE 1  
PROCESS PARAMETERS**

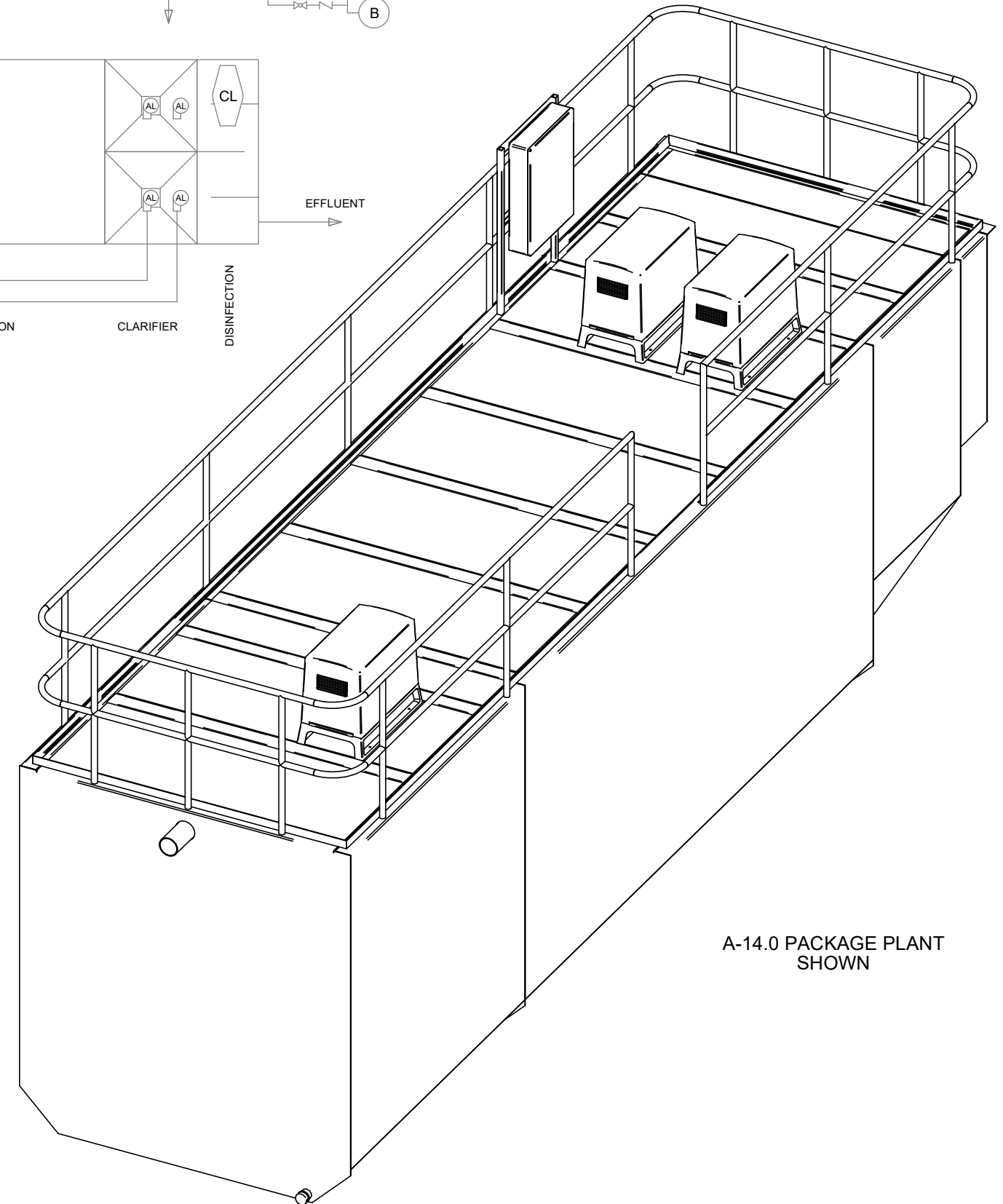
| MODEL  | AVG. DAILY FLOW |              | PEAK DAILY FLOW (PDF) | PEAK HOURLY FLOW (PHF) | INFLUENT BOD | AIR TEMP. | WATER TEMP. |      | RELATIVE HUMIDITY |     | SITE ELEV. |
|--------|-----------------|--------------|-----------------------|------------------------|--------------|-----------|-------------|------|-------------------|-----|------------|
|        | MIN             | MAX          | MAX                   | MAX                    | MAX          | MAX       | MIN         | MAX  | MIN               | MAX | MAX        |
| A-8.0  | 4,000 (GPD)     | 12,000 (GPD) | 16,000 (GPD)          | 32,000 (GPD)           | 13.3 (LB/D)  | 115°F     | 68°F        | 90°F | 10%               | 90% | 1,000 FT   |
| A-9.0  | 4,500 (GPD)     | 13,500 (GPD) | 18,000 (GPD)          | 36,000 (GPD)           | 15 (LB/D)    | 115°F     | 68°F        | 90°F | 10%               | 90% | 1,000 FT   |
| A-10.0 | 5,000 (GPD)     | 15,000 (GPD) | 20,000 (GPD)          | 40,000 (GPD)           | 16.7 (LB/D)  | 115°F     | 68°F        | 90°F | 10%               | 90% | 1,000 FT   |
| A-11.0 | 5,500 (GPD)     | 16,500 (GPD) | 22,000 (GPD)          | 44,000 (GPD)           | 18.3 (LB/D)  | 115°F     | 68°F        | 90°F | 10%               | 90% | 1,000 FT   |
| A-12.0 | 6,000 (GPD)     | 18,000 (GPD) | 24,000 (GPD)          | 48,000 (GPD)           | 20 (LB/D)    | 115°F     | 68°F        | 90°F | 10%               | 90% | 1,000 FT   |
| A-13.0 | 6,500 (GPD)     | 19,500 (GPD) | 26,000 (GPD)          | 52,000 (GPD)           | 21.7 (LB/D)  | 115°F     | 68°F        | 90°F | 10%               | 90% | 1,000 FT   |
| A-14.0 | 7,000 (GPD)     | 21,000 (GPD) | 28,000 (GPD)          | 56,000 (GPD)           | 23.4 (LB/D)  | 115°F     | 68°F        | 90°F | 10%               | 90% | 1,000 FT   |

**TABLE 2  
AIR DEMAND**

| PARAMETER              | A-8.0                                                          | A-9.0    | A-10.0   | A-11.0   | A-12.0   | A-13.0   | A-14.0   |
|------------------------|----------------------------------------------------------------|----------|----------|----------|----------|----------|----------|
| STANDARD AIRFLOW       | 94 SCFM                                                        | 101 SCFM | 107 SCFM | 113 SCFM | 119 SCFM | 116 SCFM | 121 SCFM |
| SITE AIR REQ.          | 105 ICFM                                                       | 113 ICFM | 121 ICFM | 127 ICFM | 134 ICFM | 130 ICFM | 137 ICFM |
| BLOWER INLET AIR       | 105 ICFM                                                       | 113 ICFM | 121 ICFM | 127 ICFM | 134 ICFM | 130 ICFM | 137 ICFM |
| AIR HEADER SIZE        | 2"                                                             | 2"       | 2"       | 2"       | 2"       | 2"       | 2"       |
| BLOWER SELECTION       | G-D                                                            | G-D      | G-D      | G-D      | G-D      | G-D      | G-D      |
| BLOWER MODEL           | 3M                                                             | 3M       | 3M       | 3M       | 3M       | 3M       | 3M       |
| NOISE LEVEL            | 81 dB(A)                                                       | 81 dB(A) | 82 dB(A) | 82 dB(A) | 83 dB(A) | 83 dB(A) | 84 dB(A) |
| AIR TEMP. RISE         | 73°F                                                           | 72°F     | 70°F     | 70°F     | 69°F     | 76°F     | 75°F     |
| BLOWER INLET DIAMETER  | 2" NPT                                                         | 2" NPT   | 2" NPT   | 2" NPT   | 2" NPT   | 2" NPT   | 2" NPT   |
| BLOWER OUTLET DIAMETER | 2" NPT                                                         | 2" NPT   | 2" NPT   | 2" NPT   | 2" NPT   | 2" NPT   | 2" NPT   |
| MOTOR SELECTION        | 5 HP                                                           | 5 HP     | 5 HP     | 5 HP     | 5 HP     | 5 HP     | 5 HP     |
| OPERATING POWER        | 2.5 kW                                                         | 2.7 kW   | 2.8 kW   | 2.9 kW   | 3.1 kW   | 3.2 kW   | 3.4 kW   |
| STARTING CURRENT       | 133.5 A @ 230 V 1-PH 60HZ<br>92.0/46.0 A @ 230/460 V 3-PH 60HZ |          |          |          |          |          |          |
| FULL LOAD CURRENT      | 19.5 A @ 230 V 1-PH 60HZ<br>14.0/7.0 A @ 230/460 V 3-PH 60HZ   |          |          |          |          |          |          |

**TABLE 3  
STANDARD EQUIPMENT LIST**

| MODEL  | MAIN AIR BLOWER |      |       | AERATION BASIN DIFFUSERS |                           |       | SOLIDS MIXING BLOWER |      |       | SOLIDS MIXING DIFFUSERS |                           |       | CHLORINE TABLET FEEDER |         |        | CONTROL PANEL |       |            |
|--------|-----------------|------|-------|--------------------------|---------------------------|-------|----------------------|------|-------|-------------------------|---------------------------|-------|------------------------|---------|--------|---------------|-------|------------|
|        | QTY.            | MAKE | MODEL | QTY.                     | MAKE                      | MODEL | QTY.                 | MAKE | MODEL | QTY.                    | MAKE                      | MODEL | QTY.                   | MAKE    | MODEL  | QTY.          | MAKE  | MODEL      |
| A-8.0  | 2               | G-D  | 3-M   | 16                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                    | G-D  | 2M    | 4                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                      | NORWECO | IT2000 | 1             | DELTA | PER DESIGN |
| A-9.0  | 2               | G-D  | 3-M   | 16                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                    | G-D  | 2M    | 4                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                      | NORWECO | IT2000 | 1             | DELTA | PER DESIGN |
| A-10.0 | 2               | G-D  | 3-M   | 16                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                    | G-D  | 2M    | 4                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                      | NORWECO | IT2000 | 1             | DELTA | PER DESIGN |
| A-11.0 | 2               | G-D  | 3-M   | 16                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                    | G-D  | 2M    | 4                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                      | NORWECO | IT2000 | 1             | DELTA | PER DESIGN |
| A-12.0 | 2               | G-D  | 3-M   | 16                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                    | G-D  | 2M    | 4                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                      | NORWECO | IT2000 | 1             | DELTA | PER DESIGN |
| A-13.0 | 2               | G-D  | 3-M   | 16                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                    | G-D  | 2M    | 8                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                      | NORWECO | IT2000 | 1             | DELTA | PER DESIGN |
| A-14.0 | 2               | G-D  | 3-M   | 16                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                    | G-D  | 2M    | 8                       | DIFFUSED GAS TECHNOLOGIES | DP-75 | 1                      | NORWECO | IT2000 | 1             | DELTA | PER DESIGN |



A-14.0 PACKAGE PLANT SHOWN

| NO. | DATE | INITIALS | DESCRIPTION |
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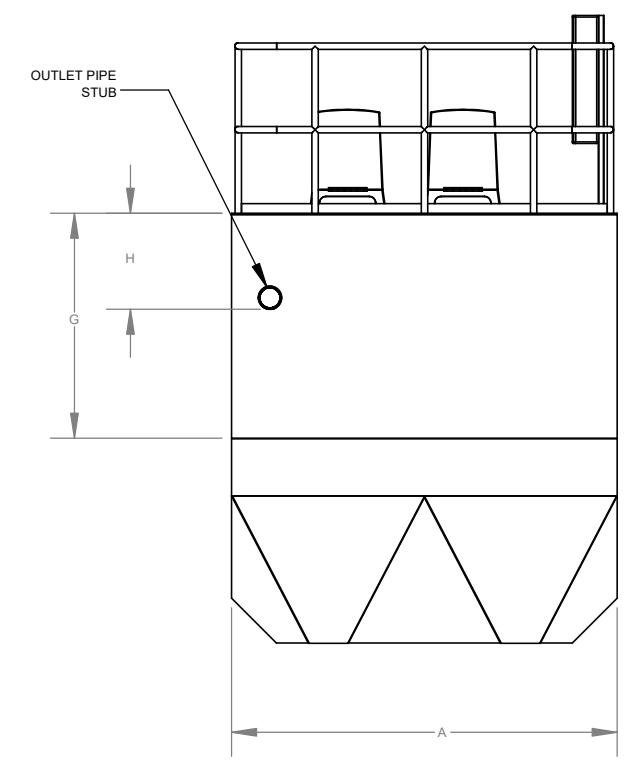
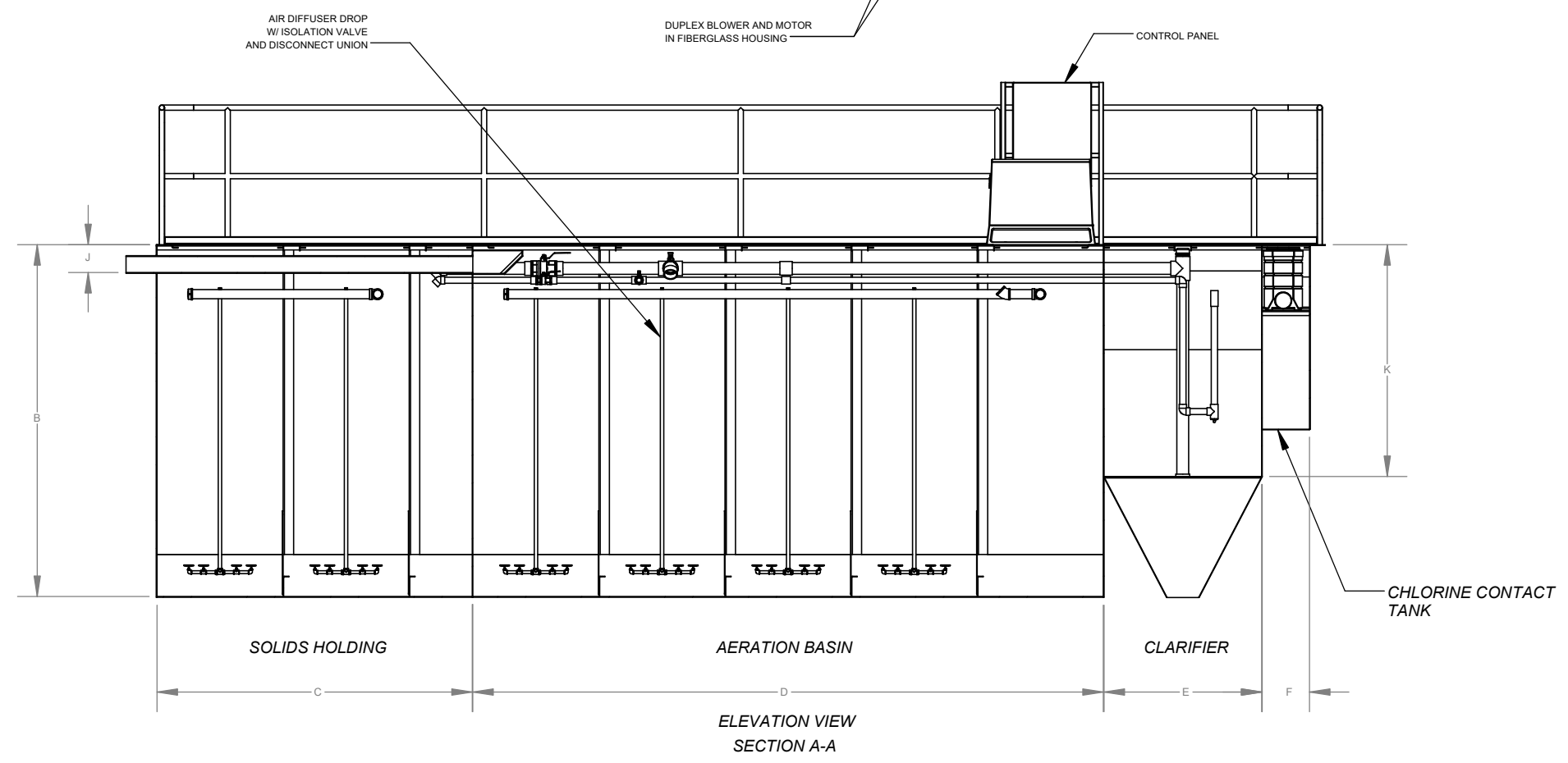
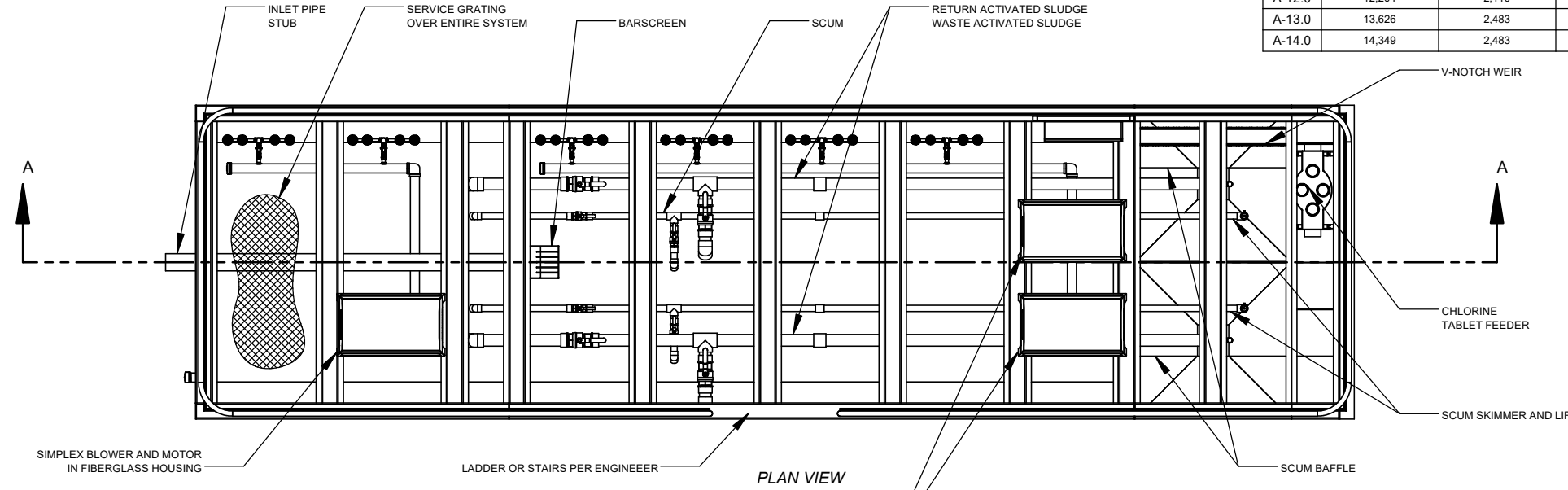
**ENVIRO-AIRE PACKAGE PLANT  
A-8.0 THROUGH A-14.0**

**GENERAL ARRANGEMENT  
DESIGN OVERVIEW**

|                     |                       |
|---------------------|-----------------------|
| HORIZ. SCALE<br>N/A | PROJECT NO.<br>P/N    |
| VERT. SCALE<br>N/A  | DATE<br>12/02/2021    |
| DRAWN BY<br>KJS     | DESIGNED BY<br>AOB    |
| DRAWING NO.<br>C1.0 | SHEET NO.<br>01 OF 02 |

TABLE 4  
PACKAGE PLANT DIMENSIONS

| MODEL  | AERATION VOLUME (GAL) | CLARIFIER VOLUME (GAL) | C.C.T. VOLUME (GAL) | SOLIDS HOLDING BASIN (GAL) | A      | B      | C      | D      | E     | F     | G      | H     | J      | K     | SWD   | INLET SIZE | OUTLET SIZE |
|--------|-----------------------|------------------------|---------------------|----------------------------|--------|--------|--------|--------|-------|-------|--------|-------|--------|-------|-------|------------|-------------|
| A-8.0  | 8,650                 | 1,561                  | 218                 | 4,378                      | 9'-0"  | 10'-2" | 7'-6"  | 15'-0" | 4'-6" | 1'-6" | 4'-8"  | 2'-6" | 0'-11" | 5'-6" | 8'-8" | 4"         | 4"          |
| A-9.0  | 9,234                 | 1,561                  | 252                 | 4,670                      | 9'-0"  | 10'-2" | 8'-0"  | 16'-0" | 4'-6" | 1'-6" | 5'-0"  | 2'-6" | 0'-11" | 5'-6" | 8'-8" | 4"         | 4"          |
| A-10.0 | 10,260                | 2,110                  | 261                 | 5,188                      | 10'-0" | 10'-2" | 8'-0"  | 16'-0" | 5'-0" | 1'-6" | 4'-10" | 2'-6" | 0'-11" | 6'-2" | 8'-8" | 4"         | 4"          |
| A-11.0 | 11,556                | 2,110                  | 299                 | 5,837                      | 10'-0" | 10'-2" | 9'-0"  | 18'-0" | 5'-0" | 1'-6" | 5'-2"  | 2'-6" | 0'-11" | 6'-2" | 8'-8" | 4"         | 4"          |
| A-12.0 | 12,204                | 2,110                  | 317                 | 6,161                      | 10'-0" | 10'-2" | 9'-6"  | 19'-0" | 5'-0" | 1'-6" | 5'-4"  | 2'-6" | 0'-11" | 6'-2" | 8'-8" | 4"         | 4"          |
| A-13.0 | 13,626                | 2,483                  | 355                 | 6,872                      | 10'-0" | 11'-2" | 9'-6"  | 19'-0" | 5'-0" | 1'-6" | 5'-8"  | 2'-6" | 0'-11" | 7'-2" | 9'-8" | 4"         | 4"          |
| A-14.0 | 14,349                | 2,483                  | 373                 | 7,234                      | 10'-0" | 11'-2" | 10'-0" | 20'-0" | 5'-0" | 1'-6" | 5'-10" | 2'-6" | 0'-11" | 7'-2" | 9'-8" | 4"         | 4"          |



| NO. | DATE | INITIALS | DESCRIPTION |
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**ENVIRO-AIRE PACKAGE PLANT  
A-8.0 THROUGH A-14.0**

**GENERAL ARRANGEMENT  
DIMENSIONS**

|                     |                       |
|---------------------|-----------------------|
| HORIZ. SCALE<br>N/A | PROJECT NO.<br>P/N    |
| VERT. SCALE<br>N/A  | DATE<br>12/02/2021    |
| DRAWN BY<br>KJS     | DESIGNED BY<br>AOB    |
| DRAWING NO.<br>C1.1 | SHEET NO.<br>02 OF 02 |