## WWTP GENERAL NOTES:

- 1. See Sheet C1.12 for WWTP Facility Site Plan.
- 2. All WWTP control panels shall be located in the WWTP laboratory building. Install PVC electrical conduit between WWTP and lab building and route power and control circuitry as required.
- 3. A licensed electrician shall be required to install all electrical conduit, wiring, control circuitry, and control panels. The electrical contractor shall provide shop drawings showing proposed conduit and control wiring installation prior to start of work.
- 4. Refer to all WWTP shop drawings provided by the manufacturer.
- 5. Provide sacrificial anodes for corrosion protection. Install anodes in accordance with manufacturer's recommendations.
- 6. The WWTP manufacturer shall provide detailed instructions for installation and start-up of the treatment plant.
- 7. Back fill around WWTP and provide a minimum of 4-inches of reveal around the perimeter of the treatment plant. Grade site to ensure positive drainage away from the treatment plant. Use VDOT #57 stone backfill. Do not compact around steel tank structure.
- 8. Refer to project manual for detailed material and equipment specifications.
- 9. Install soda ash feed system so that soda ash solution is administered at in influent of the primary equalization tank. Install soda ash feed system in accordance with manufacturer's instructions.

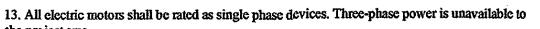
10. A licensed Class III Wastewater Operator shall provide daily operations and maintenance for this WWTP facility after start-up.

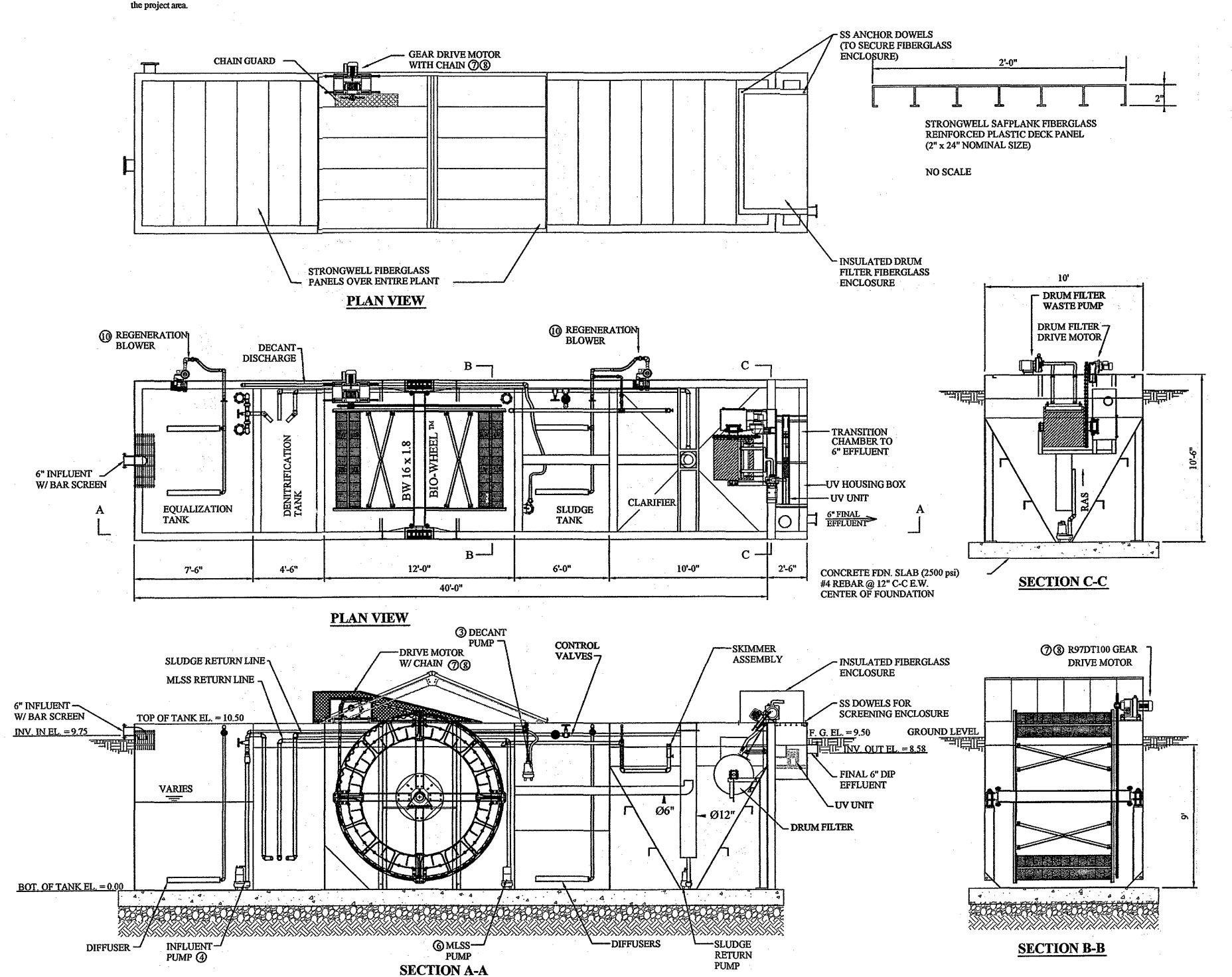
Wastewater licensure shall comply with the latest DPOR regulations as set forth by the Commonwealth of Virginia. Testing and monitoring guidelines shall be set forth by the Virginia Department of Health.

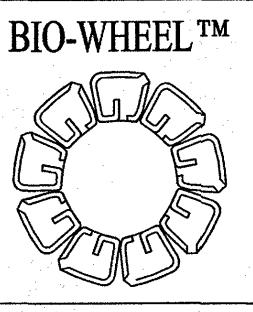
11. The Operations and Maintenance manual for the WWTP facility shall be provided prior to start-up. The wastewater operator in conjunction with the WWTP manufacturer shall provide this O&M manual to the owner, the consulting engineer, and Virginia Department of Health. The manual shall reflect all necessary operating procedures that are particular and specific to this treatment

12. The WWTP facility shall have a Class I reliability rating as set forth by the Virginia Department of Health. An emergency back-up electrical generator shall be provided with automatic transfer switch capability. The generator shall be sized to accommodate the ultimate WWTP facility. DO NOT provide mechanical compaction around WWTP installation.

13. All electric motors shall be rated as single phase devices. Three-phase power is unavailable to







MEASUREMENTS VOLUME (CU. FT.)

7'-6"L x 9'H x 10'W

4'-6"L x 9'H x 10W

12'L x 9'H x 10'W

6'L x 9'H x 10'W

 $10L \times 10W$ 

MODEL

#065601

#073612

3866 WS0512B

3866 WS1012B

3866 WS1012B

PE31AV PUMP

R107DT100LS4

-BMHR-KS

9A2305.0,

ATV18U72M2

2BH7320OAK52

"T" SERIES

AZ-4800

675

1,080

100 SQ. FT.

TANK VOLUME SCHEDULE

TANK CLASSIFICATION

EQUALIZATION TANK I

DENITRIFICATION TANK

**EQUIPMENT SCHEDULE** 

MAKE

BARNES DUPLEX

IN NEMA 3R STEEL **ENCLOSURE W/ ALARM** 

LIGHT AND HORN

GOULDS MERCURY

**GOULDS SUBMERSIBLE** 

GOULDS SUBMERSIBLE

**GOULDS SUBMERSIBLE** 

GOULDS DECANT PUMP

SEW EURODRIVE GEAR

SEW INVERTER W/

REGENERATIVE

KEYPAD

SIEMENS

BLOWER

EDI FLEXAIR

**TUBE DIFFUSERS** 

AQUA AZUL UV DISNF.

LEVEL FLOAT

INFLUENT PUMP

CONTROLS

RAS PUMP

MLSS PUMP

MOTOR

R-SERIES

CONTROL PANEL

**BIO-WHEEL TANK** 

SLUDGE TANK

CLARIFIER

BW 16 x 1.8 20,000 GPD WASTEW **TREATMEN** 

SCALE: WASTEWATER TECH P.O. BOX MONTEREY, VIRO PH. 1 (800)-741-8941 FAX (540)-468-3129

**VOLUME (GALLONS)** 

3,029

8,078

4,039

| WATER<br>NT PLANT       | DANIEL, M. EARLY |
|-------------------------|------------------|
| 1/4"=1'<br>HNOLOGY INC. | No. 031/787      |
| K 737<br>CGINIA 24465   | TANAL DIA        |

engineering - Surveying LANDSCAPE ARCHITECTURE **CONSTRUCTION MANAGEMENT** 

2203 PETERS CREEK ROAD ROANOKE, VIRGINIA 24017 P 540.562.2345 F 562.2344 INFO@ ACSDESIGNLLC.COM WWW. ACSDESIGNLLC.COM

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Franklin

01 MAY 2006

TOP CONSTRUCTION

SHEET NO .:

**WWTP** 

**EQUIPMENT** 

05271

operti

Optima

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| CAPACITY   | QUANTIT                               | ΓY                      |
|--|---------------------------------------|-------------------------|
| N/A  | • • • • • • • • • • • • • • • • • • • |                         |
| N/A  |                                       | - <del>1151 - 115</del> |
| 73 HP 120V<br>PH<br>750 RPM<br>" DISCHARGE   | -                                     |                         |
| .5 HP 200-230V<br>PH<br>750 RPM<br>" DISCHARGE   | <b>-</b>                              |                         |
| HP 200-230V<br>PH<br>750 RPM   | -                                     |                         |
| 33 HP 115V<br>PH<br>000 RPM  | -                                     |                         |
| .5 RPM .ATIO 223:1 ORGUE RATED 38,400 N.LB. ERVICE FACTOR 1.9, /60/230 ELASS F INSULATION, EVERE DUTY, NVERTOR DUTY, MTG OS. B3 US | •                                     |                         |
| HP<br>PH<br>O HERTZ<br>30 VOLTS  | -                                     |                         |
| 35 HP<br>PH<br>) HERTZ<br>)8-230 VOLTS   | 2                                     | <del></del>             |
| <b>.</b>   | 5                                     | ,                       |
| 120V, 60HZ   | 1                                     |                         |