



**PERMIT TO CONSTRUCT  
Onsite Wastewater System**

File Nbr: **2019050031**  
County: Aiken

Name: DANIEL SAMONSKY

Program Code: 360

Type Facility: LAND

Address: 650 HAMPTON CIR  
BELVEDERE, SC 29841

System Code: 101

Subdivision:

Site: LONDON LN

TM#:

Block:

Lot:

BELVEDERE, SC

Water Supply: PUBLIC

**PERMIT TO CONSTRUCT SYSTEM SPECIFICATIONS**

Daily Flow (gpd): 480

**Tank Sizes (gal):** Septic Tank: 1000 Pump Chamber: 1000

Grease Trap:

LTAR: .80

**Trenches:** Length (ft): 200 Width (in): 36 Max. Depth (in): 40 Agg. Depth (in): 14

Min Pump Capacity: 10 gpm at 30 ft. of Head

**SPECIAL INSTRUCTIONS/CONDITIONS**

THIS PERMIT IS SITE SPECIFIC. ANY CHANGES TO THE SYSTEM MUST BE APPROVED BY DHEC. ALTERNATIVE TRENCH PRODUCTS APPROVED UNDER STATE RULES AND REGULATIONS MAY BE SUBSTITUTED. ANY UNAPPROVED CHANGES WILL VOID THIS PERMIT

See Attached Page...

*\* Pump system*

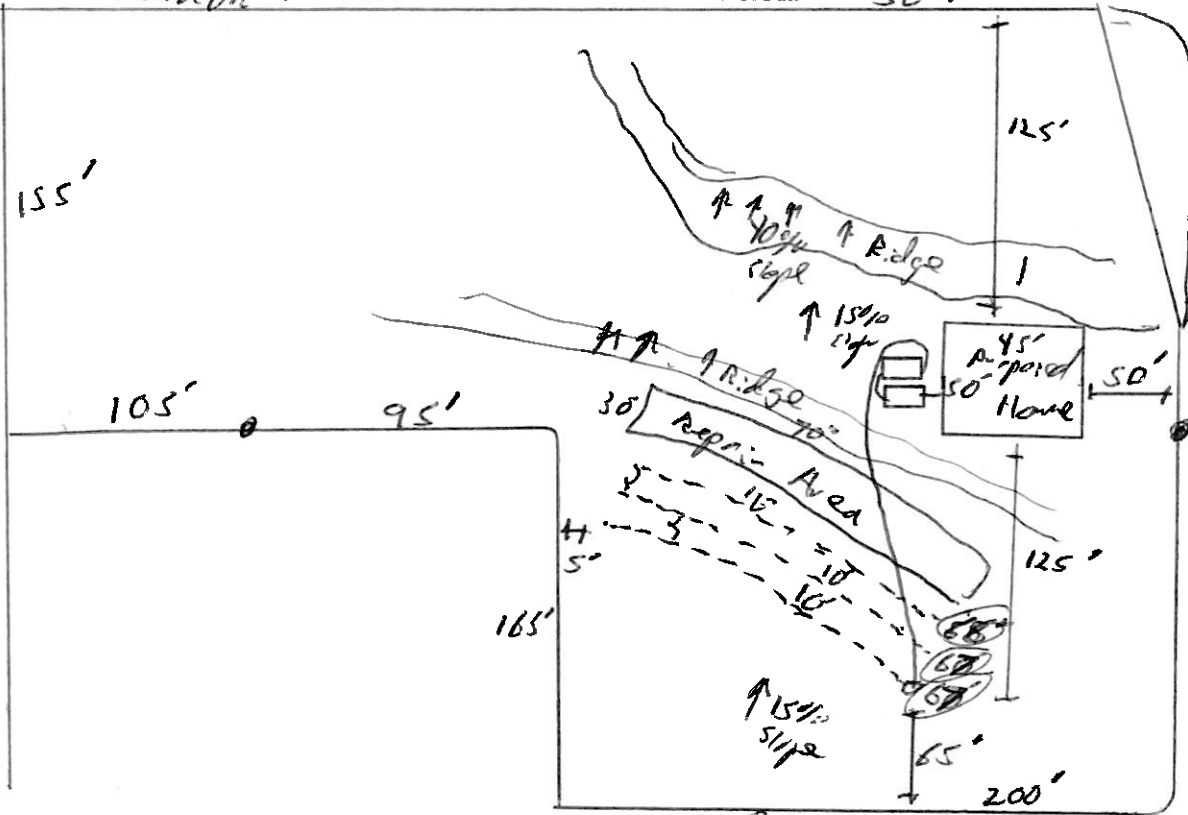
*Landon Lane*

**PERMIT TO CONSTRUCT SYSTEM DIAGRAM**

369'

(NTS)

*Spring Dr.*



Issued/Revised By:

*Rita V. Bryant*

Date:

*6/26/19*



**PERMIT TO CONSTRUCT AND OPERATE  
Onsite Wastewater System**

File Number: 2019050031  
County: Aiken

**SPECIAL INSTRUCTIONS/CONDITIONS**

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ANY UNAPPROVED CHANGES WILL VOID THIS PERMIT

THE SEPTIC TANK CONTRACTOR AND/OR BUILDER MUST READ AND FOLLOW REGULATION 61-56, THE PERMIT AND SPECIAL INSTRUCTIONS BEFORE INSTALLATION\*

\*DO NOT CUT, FILL, GRADE OR DISTURB THE PROPOSED INSTALLATION AREA.\*

\*STAY AT LEAST 5 FT. AWAY FROM PROPERTY LINES AND BUILDINGS\*

\*STAY AT LEAST 75 FT. AWAY FROM PRIVATE WELLS\*

\*MAINTAIN AT LEAST 7 FT. OF UNDISTURBED EARTH BETWEEN ABSORPTION TRENCHES\*

\*STAY AT LEAST 75 FT. AWAY FROM STREAMS, PONDS, OR NATURAL BODIES OF WATER\*

\*DO NOT DRIVE OVER SEWAGE DISPOSAL SYSTEM\*

\*STAY AT LEAST 25 FT. AWAY FROM DRAINAGE DITCHES\*

\*STAY AT LEAST 15 FT. AWAY FROM THE TOP OF EMBANKMENTS OR CUTS OF 2 FT. OR MORE IN HEIGHT\*

\*USE APPROVED SERIAL DISTRIBUTION METHODS (STEP-DOWNS) ON SLOPING LAND SO THAT EACH TRENCH FILLS TO FULL CAPACITY AND THE MAXIMUM DEPTH IS NOT EXCEEDED

Issued/Revised By: 

Date: 8/26/19

ON-SITE WASTEWATER PUMP SYSTEM STANDARD  
600 APPENDIX S

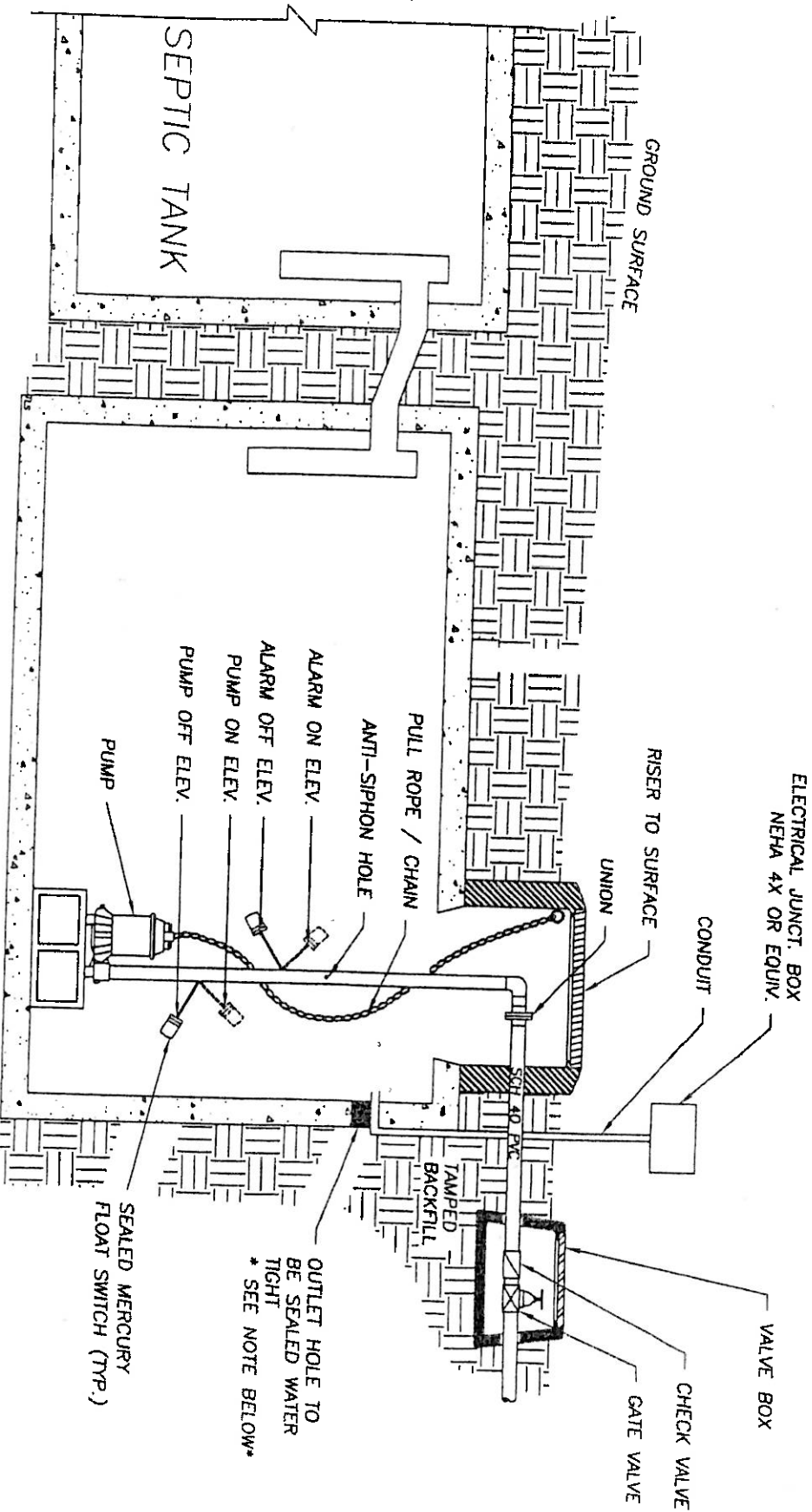
**600.4 FORCE MAIN, VALVES AND FITTINGS**

1. The force main shall be Schedule 40 PVC and the diameter shall be sufficient to provide a velocity of at least one (1) ft/sec (effluent) or two (2) ft/sec (raw) using a C Factor of 150 (effluent) or 140 (raw) at the minimum pumping rate (peak inflow). Fitting and valves shall be of compatible corrosion resistant material.
2. A threaded union, flange or similar disconnect device shall be provided in each pump discharge line. The pump(s) shall be easily removable at ground surface without requiring entrance into the tank. Valves shall also be readily accessible from the ground surface. Duplex pump systems shall be equipped with a separate pit or box for the placement and operation of valves.
3. A shutoff valve (eg., gate valve) and a check valve shall be located on the discharge line from each pump. The check valve shall be placed between the pump and the shutoff valve.
4. A three-sixteenths (3/16) inch anti-siphon hole(s) shall be placed between the pump(s) and the check valve(s) when the discharge elevation of the distribution system is below the inlet to the pump tank.
5. In cases where the force main must be installed over undulating terrain, automatic air relief valves shall be placed at high points in the line to prevent air locking.
6. The force main effluent shall discharge into a separate discharge box or distribution manifold before entering either a septic tank or soil wastewater infiltration trench. The flow shall be directed to the bottom of the box thru a PVC elbow, or into a distribution manifold at an angle of ninety (90) degrees to the septic tank or first wastewater infiltration trench.

**600.5 PUMPS, CONTROL DEVICES AND ELECTRICAL CONNECTIONS**

1. Pumps shall be listed by Underwriter's Laboratory or an equivalent third party testing and listing agency, and shall be specifically manufactured for use with domestic wastewater.
2. Sealed mercury control floats or similar devices designed for detecting liquid levels in septic tank effluent shall be provided to control pump cycles. A separate level sensing device shall be provided to activate an audible and visible high water alarm. Pump-off levels shall be set to keep the pump submerged at all times.
3. Pump and control circuits shall be provided with manual circuit disconnects within a watertight, corrosion resistant, outside enclosure (NEMA 4X or equivalent) adjacent to the pump tank, securely mounted at least twelve (12) inches above finished grade, unless installed within a weather-tight building. Alarm circuits shall be supplied ahead of any pump overload or short circuit protective devices. The pump(s) shall be manually operable without requiring special tools or entrance into the tank for testing purposes. Conductors shall be conveyed to the disconnect enclosure through water proof, gas proof, and corrosion resistant conduit(s), with no splices or junction boxes provided inside the tank. Wire grips, duct seal, or other suitable material shall be used to seal around wire and wire conduit openings inside the pump tank and disconnect enclosure.
4. For systems requiring duplex pumps, each pump shall operate in a lead-lag sequence and be on an alternating cycle. A control panel shall be provided which shall include short circuit protection for each pump and for the control system, independent disconnects, automatic pump sequencer, hands-off-automatic (H-O-A) switches, run lights and elapsed time counters for each pump.

# ONSITE WASTEWATER PUMP SYSTEMS TYPICAL INSTALLATION



**PUMP TANK ( 1000 GALLON )**

NOTE: PUMP SHOULD REMAIN SUBMERGED AT ALL TIMES  
PUMP AND ALARM SHALL BE WIRED ON SEPERATE CIRCUITS

OUTLET HOLE TO  
BE SEALED WATER  
TIGHT  
\* SEE NOTE BELOW\*

SEALLED MERCURY  
FLOAT SWITCH (TYP.)

RISERS AND OTHER TANK  
SECTIONS MUST BE SEALED  
WATER TIGHT WITH A  
PLIABLE, WATERPROOF,  
CORROSION-RESISTANT  
SEALANT.



## Certification of Pump System Electrical Connections

RE: \_\_\_\_\_

Installation

Address

I hereby certify that all pump system electrical connections at the above-referenced installation were made in accordance with the submersible effluent pump standard issued by the South Carolina Department of Health and Environmental Control or, with other applicable codes, where more stringent.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Address