

AmphidromeTM



Project:
(2) Single-Family Residences
Nags Head, NC 27959

BENJAMIN O. PAINE
COMPANY, LLC

Est. 1870 (Closed 1955) Re-opened 2014

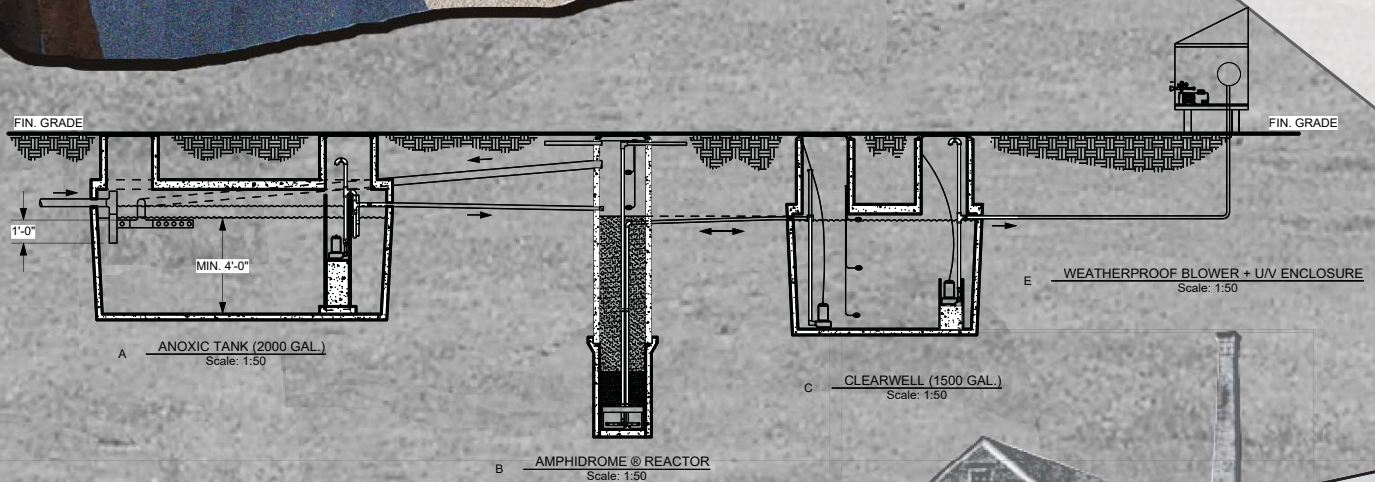
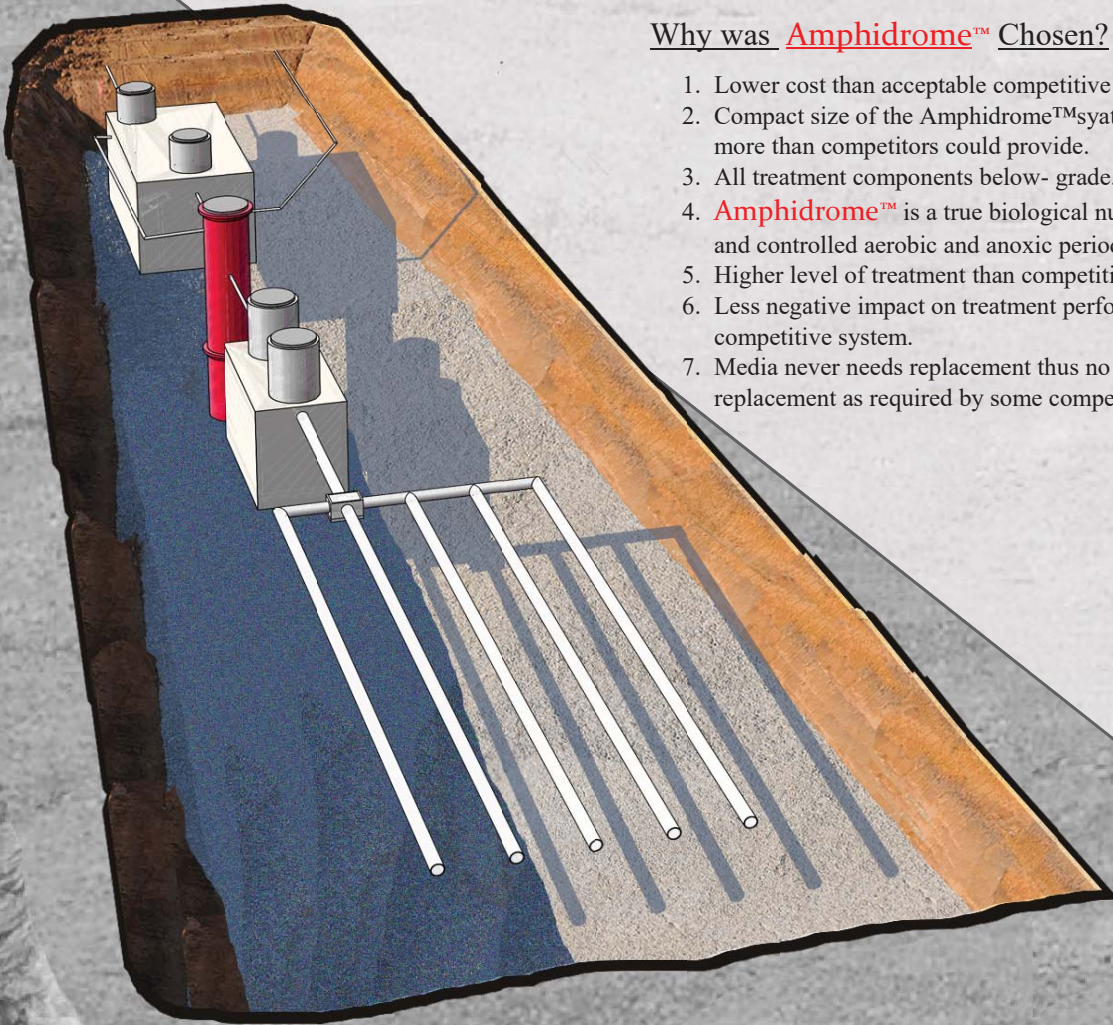
Wastewater Treatment & Pumping Equipment

System Details

- 1) Two 8 bedroom homes
- 2) Design flow 960 gpd each
- 3) Influent design--- 300 mg/l BOD, 200 mg/l TSS, 80 mg/l TKN
- 4) Effluent criteria --- < 10 mg/l BOD, < 10 mg/l TSS < 10 mg/l Ammonium Ion, < 20 mg/l TN, < 1000 fecal coliform colonies/100ml
- 5) Expected effluent < 10 mg/l BOD, < 10 mg/l TSS, , 5 mg/l Ammonium Ion, < 10 mg/l TN, < 1000 fecal coliform colonies per 100 ml.

Why was **Amphidrome™** Chosen?

1. Lower cost than acceptable competitive systems.
2. Compact size of the Amphidrome™ system allowed for one more bedroom more than competitors could provide.
3. All treatment components below- grade. No ugly above grade structures.
4. **Amphidrome™** is a true biological nutrient removal process with distinct and controlled aerobic and anoxic periods.
5. Higher level of treatment than competitive systems.
6. Less negative impact on treatment performance by cold weather than competitive system.
7. Media never needs replacement thus no cost associated with media replacement as required by some competitors' systems.



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