

6. A force main shall not be connected into another force main.

**Section 14 - Prefabricated Low-Pressure Sewage Pump Systems**

- A. The Commission has standardized on the type of pumping system to be purchase, installed and operated and maintained by private property owners.
- B. Following a Request for Proposal process and associated Proposal evaluation, the Commission selected F. R. Mahoney & Associates using Environmental One Corp. as the manufacturer of the Low-Pressure Sewerage Pump Systems. F. R. Mahoney & Associates contact information is as follows:
- C. F. R. Mahoney & Associates (Exclusive New England Distributor for Environmental One Corp.)  
273 Weymouth Street  
Rockland, MA 02370  
T: 781-982-9300  
F: 781-982-1056  
<http://www.frmahony.com>
- D. The Design Engineer should coordinate with F.R. Mahoney & Associates for the appropriate Low-Pressure Sewage Pump System for the property. Such coordination shall occur prior to the submittal of the permit application.
- E. In general, the Prefabricated Low-Pressure Sewage Pump Systems is a complete factory-built and tested system of the wetwell/drywell type designed to take the flow from the property and boost into the Town’s wastewater infrastructure (gravity sewer or low-pressure sewer). The System includes, but not be limited to: (a) wetwell containing grinder pump(s) (semi-positive displacement type grinder unit) mounted in a high-density polyethylene (HDPE) basin and anti-siphon valve and check valve assembly; (b) drywell containing an electrical quick-disconnect; pump removal system and shut-off valve; and (c) electrical alarm/disconnect panel. Additional information can be found in the Property Owner’s Guidebook which can be downloaded from the Town’s Website at: <https://www.town.orleans.ma.us/DocumentCenter/View/2348/Orleans-MA--Property-Owners-Guidebook-PDF?bidId=>.
- F. As part of the Request for Proposal process, the proposal by F. R. Mahoney & Associates included a guaranteed, Lump Sum price for each component, identified in the table below, in May 2023 U.S. Dollars. The Lump Sum Prices will be adjusted for inflation by the percent increase in the ENR Construction Cost Index between May 2023 and the month in which each Purchase Order is issued.

Item	Description	May 2023 Price
A.1.	Cost for Each Low-Pressure Sewerage Pump System, including control systems and all other necessary appurtenances. The cost shall include delivery and all other construction related services for the Low-Pressure Sewerage Pump Systems.	
A.1.1.	Model DH071-93 (Type A) Exterior, Simplex, System Capacity at 700 GPD and Wetwell Capacity of 70 Gallons	\$5,620.00
A.1.2.	Model DH151-93 (Type B) Exterior, Simplex, System Capacity at 1,500 GPD and Wetwell Capacity of 150 Gallons	\$6,145.00
A.1.3.	Model DH152-93 Exterior, Duplex, System Capacity at 3,000 GPD and Wetwell Capacity of 150 Gallons	\$11,890.00
A.1.4.	Model IH-091 (Type D) Interior, Simplex, System Capacity at 700 GPD and Wetwell Capacity of 90	\$4,812.00

Item	Description	May 2023 Price
	Gallons	
A.1.5.	Model DH272-92 Exterior, Duplex, System Capacity at 5,000 GPD and Wetwell Capacity of 275 Gallons	\$25,460.00
A.1.6.	Model WH484-92 Exterior, Quadriplex, System Capacity at 7,000 GPD and Wetwell Capacity of 486 Gallons	\$29,150.00
A.2.	2 Year Warranty extended to 5 Years for Each Low-Pressure Sewerage Pump as part of base equipment package	\$1.00
A.3.	Cost for Each Engineered Stainless-Steel Service Lateral Component	\$270.88
A.4.	Cost for Each Pump Monitoring System	\$528.10
A.5.	Cost for Each Anti-Buoyancy Device Bal-Last for DH071	\$359.00
A.6.	Cost for Each Pump Core Replacement	\$2,490.00
A.7.	High Flood Configuration for Type A, Type B, and DH152	\$260.90
A.8.	Insulation Disc for Freeze Protection	\$75.00
A.9.	Remote Sentry – Alarm Unit in House Mounting	\$250.00

- G. F. R. Mahoney & Associates has identified several options and additional packages that homeowners may opt to purchase. Please refer to the Property Owner’s Guidebook which can be downloaded from the Town’s Website at: <https://www.town.orleans.ma.us/DocumentCenter/View/2348/Orleans-MA--Property-Owners-Guidebook-PDF?bidId=>.

**Section 15 - Abandoning Existing On-Site Disposal Systems**

- A. Upon connection of the building plumbing system to the common sewers, existing septic tanks and cesspools shall be abandoned.
- B. Contractor to abandon existing on-site sewer disposal system per the Board’s requirements.