

BERWICK SEWER DISTRICT
PO BOX 15 / 39 POWERHOUSE ROAD
BERWICK, MAINE 03901
207-698-5740



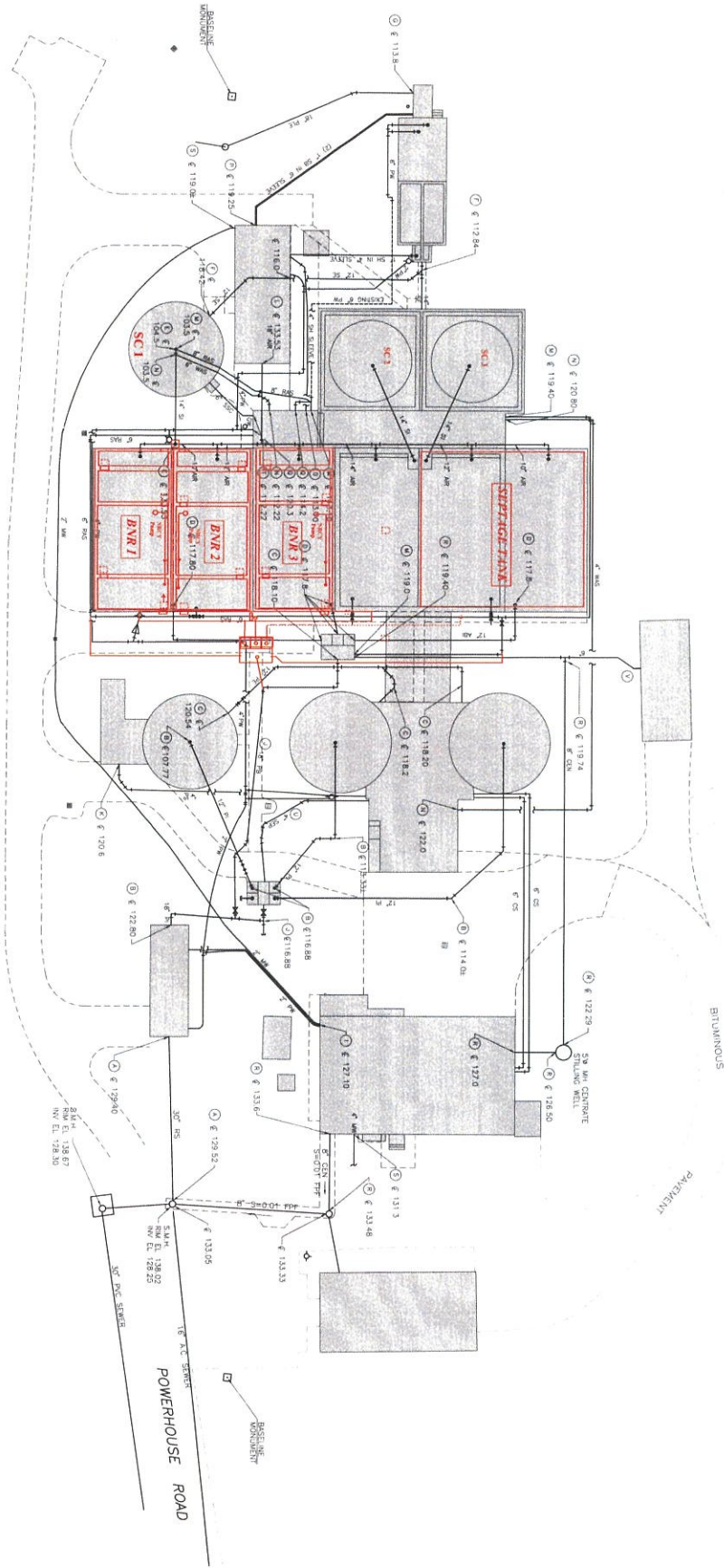
PUBLIC NOTICE

July 1, 2024

The Berwick Sewer District proposes to obtain grants/loans in an amount up to \$3,600,000 for funding Wastewater Treatment Facility Improvements from the USDA, Rural Development and the Clean Water State Revolving Fund (CWSRF) in order to meet new and more stringent discharge parameters issued by the Maine Department of Environmental Protection (DEP) as well as provide the capacity to process the 20-year projected increased flows in the District. The application will be discussed at the next Public Board Meeting on July 31, 2024, 6:00 PM at the Berwick Sewer District office at 39 Powerhouse Road, Berwick, Maine.

Project Description: The Berwick Sewer District (BSD) has received a Draft MEPDES Permit with new permitted discharge limits. The new limits require the District to meet a total nitrogen limit on a pound per day basis, from April to October of each year. In 2018, BSD and staff established and trialed a biological process in one third of the District's tank capacity that successfully proved it was possible to remove nitrogen and meet this limit. Unfortunately, the self-designed and installed tank partitions from 2018 are beginning to fail.

The proposed project would equip half of the District's tank capacity for treatment using a full Biological Nutrient Removal (BNR) process optimized for Nitrogen removal. This proposed project will allow us to meet our 10-to-20-year planning period by increasing treatment capacity from 290,000 gallons per day (gpd) to 380,000gpd, providing redundancy and reliability in the advanced biological process. As always, our focus is to accomplish this necessary goal while minimizing costs for our rate-payers.



REFERENCE NUMBER	SIZE & TYPE	DESCRIPTION
A	30" PVC	RAW SEWAGE
B	12" & 18" DIP	PRIMARY INFLUENT
C	12" DIP	PRIMARY EFFLUENT
D	12" DIP	ACTION BASIN INFLUENT
E	12" DIP	SECONDARY INFLUENT
F	12" & 14" DIP	SECONDARY EFFLUENT
G	18" DIP	PLANT EFFLUENT

REFERENCE NUMBER	SIZE & TYPE	DESCRIPTION
I	2" PVC	INFLUENT POLYMER
J	1" DIP	PRIMARY BYPASS
K	4" DIP	PRIMARY SLUDGE
L	18", 10", 14"	AIR
M	6" & 8" SS	SECONDARY RAS
N	4" & 6" DIP	SECONDARY WAS

REFERENCE NUMBER	SIZE & TYPE	DESCRIPTION
O	1" CPVC	SODIUM HYPOCHLORITE
P	1" PVC	SODIUM BISULFITE
Q	2", 4", 6" DIP & PVC	PLANT WATER
R	6" DIP	CENTRATE
S	2" PE	MUNICIPAL WATER
T	6" CLDIP	SECONDARY SCUM
U	4" DIP	SEPTAGE
V	3" PVC	OBRAIN



BERWICK SEWER DISTRICT
WWTP IMPROVEMENT PROGRAM
 EXTERIOR PIPING
 PLAN - NEW
 SHEET 13

Underwood Engineers, Inc.
 25 Vaughan Mall, Portsmouth, N.H. 03801 Tel: 603-436-6192

Drawn: RJB	ISSUE FOR:
Designed: JCK	APPROVAL:
Checked: RCH	Date: 5/26/95 By: FGU
Approved: FGU	CONSTRUCTION:
Date: 6/19/95	Date: 6/19/95 By: FGU
Book No: 125,119	RECORD DRAWING:
Project No: 660	Date: 7/3/98 By: FGU
Dwg. ID: 660CEP228	
Scale: 1" = 20'	
REVISIONS	
NO	APPD