



**TOWN OF OAK BLUFFS, MASSACHUSETTS  
CAPITAL IMPROVEMENT PROGRAM  
PROJECT REQUEST FORM**

**FY2024**

DEPARTMENT INFORMATION			
Department	Wastewater	Date	10/1/21
Submitted by	Patrick Hickey	Title	Facilities Manager
Signature	<i>Patrick Hickey</i>		

ASSET OR PROJECT INFORMATION	
Project Title	Hazard Mitigation Design -Duke's Pump Station
Asset Description	Pump station moves all from the harbor to the Council on Aging to the to the treatment plant
Description and Purpose of Equipment/Project	Hazard Mitigation Design - Allowance to design improvements to Duke's County Pump Station and other pump stations located in the 100 year floodplain. Partial competitive grant funding is typically available for this work.
Justification	Three pump stations, which serve the majority of the Town's commercial district, are located in the 100 year flood plain and are vulnerable to severe damage from flooding. The ultimate risk of not upgrading the pump stations is catastrophic failure of the station during a flooding event, which would make the wastewater collection system unusable until the damage is corrected.

ASSET/PROJECT DETAILS					
Useful Life	20+ Years				
Preliminary Plans/Specs	Under Study		Completed		N/A
Final Plans/Specs	Under Study		Completed		N/A
Priority	URGENT		NECESSARY	X	DESIRABLE

Costs/Cost Estimates	
Land	0
Construction	0
Equipment	0
Other	0
<b>TOTAL COST (use word table tools layout formula to sum above)</b>	<b>\$150,000</b>

Effects on Annual Operating Budget	
Operational	0
Maintenance	0
Personnel	0
<b>TOTAL COST (use word table tools layout formula to sum above)</b>	

Grants/Source of Funding					
How will expense be funded?	Current Funds		Bond or Note	Grant	X
If Bond or Note do you have TA approval		Yes		No	
If Grant, has Grant be awarded		Yes		No	
If Grant, is there a Match Requirement		Yes	X	No	
If Grant Match required do you have funds for it		Yes		Not Yet	X

The Town has three wastewater pumping stations that lie within the 100 year flood plain. These three stations are several feet below the design flood elevation for the 100 year flood plain and thus are vulnerable to a number of storms of varying severity. Some work has been completed on these stations recently through a project that was funded with a CZM grant for 75% of the project.

The purpose of the design appropriation (and construction money which is the subject of a different appropriation) is to design improvements to the pump stations to render them more resilient to future flooding conditions. The photo below shows a new platform installed above the flood elevation and the adjacent Duke's County station which has a first floor elevation approximately 4 feet below the platform level. This building has a wooden exterior and is very vulnerable to flooding conditions.

**The ultimate risk of not upgrading these pump stations is catastrophic failure of the pumping stations during a flooding event which would make the wastewater collection system unusable until the damage is corrected.**

