

## ARTICLE 4:

ARTICLE 4: To see if the Town will vote to raise and appropriate, transfer from available funds or borrow a sum of money for the construction and/or repair and/or purchase and/or lease and/or replacement of departmental buildings and/or equipment and/or capital facilities and/or for feasibility studies and other types of studies for the various departments of the Town, including all other costs incidental and related thereto, including authorizing lease/purchase agreements for terms of up to or in excess of three years, substantially as follows:

ITEM	DEPARTMENT	PROJECT DESCRIPTION
A1	Police Dept.	TruNarc Handheld Narcotics Analyzer
A2	Police Dept.	Portable Radio Replacement - Cruisers
A3	School Dept.	Replace Tech Van 1
A4	School Dept.	Nathaniel Morton Roof Replacement
A5	DPW - Crematory	Rebuild Retort #1
A7	DPW - Cemetery	1-ton Pickup Truck
A8	DPW - Cemetery	Mini Excavator
A9	DPW - Cemetery	Heavy Duty Utility Cart
A10	Center for Active Living	Upgrade for Public Wi-Fi Access
A11	Marine & Environmental	Bartlett Road Bridge Engineering
B1	DPW - Engineering	Brook Rd. Bridge Design & Construction

or take any other action relative thereto.  
SELECT BOARD

### ARTICLE 4 A1 – 4 A11

#### **RECOMMENDATION: Approval \$2,761,849 Unanimous (14-0-0)**

The Advisory & Finance Committee recommends Town Meeting approve the Article 4 A1 thru 4 A11 Capital appropriations listed below:

ITEM	PROJECT DESCRIPTION	APPROPRIATION
A1	TruNarc Handheld Narcotics Analyzer	\$ 30,836
A2	Portable Radio Replacement - Cruisers	\$ 231,037
A3	Replace Tech Van 1	\$ 39,167
A4	Nathaniel Morton Roof Replacement	\$ 2,000,000
A5	Rebuild Retort #1	\$ 105,750
A7	1-ton Pickup Truck	\$ 111,487
A8	Mini Excavator	\$ 58,740
A9	Heavy Duty Utility Cart	\$ 43,832
A10	Upgrade for Public Wi-Fi Access	\$ 17,000
A11	Bartlett Road Bridge Engineering	\$ 124,000
	<b>Total for Article 4 A1- 4 A11 Items</b>	<b>\$ 2,761,849</b>

**TOWN OF PLYMOUTH CAPITAL IMPROVEMENT PLAN REQUEST FORM  
FY22 ANNUAL FALL TOWN MEETING REQUEST FORM**

4 A11

<b>Department: Marine and Environmental Affairs</b>	<b>Priority #:</b>	<b>2</b>
<b>Project Title and Description: Bartlett Road Bridge Engineering</b>	<b>Total Project Cost:</b>	<b>\$224,000</b>

**Department/Division Head:** David Gould/Chad Hunter

**Check if project is:** New ☒ Resubmitted ☐ **Cost estimate was developed:** Internally ☐ Externally ☒

**For project re-submittals, list prior year(s):**

**List any funding sources and amounts already granted:** \$100,000 from the MA Division of Ecological Restoration. DMEA proposes to utilize \$120,000 from the Environmental Affairs Fund to match the state grant monies.

Basis of Estimated Costs (attach additional information if available)			If project has impact on 5 Year Plan and future operating budgets, insert estimated amounts.		
Capital:	Cost	Comments	Fiscal Year:	Capital	Operations & Maintenance
<i>Planning and Design</i>	\$124,000		FY22		
<i>Labor and Materials</i>			FY23		
<i>Administration</i>			FY24		
<i>Land Acquisition</i>			FY25		
<i>Equipment</i>			FY26		
<i>Engineering Oversight</i>					
<i>Contingency</i>					
<b>Total Capital</b>	<b>\$124,000</b>				

**Project Justification and Objective:** In 2015, prior to DER's restoration at Tidmarsh Farms which is adjacent to Fresh Pond Dam, the Town removed one side of boards in Fresh Pond Dam to allow flow from Fresh Pond, down the unnamed tributary to DER's restoration site for fish passage. Previous to 2015, Fresh Pond Dam impounded water and was considered a significant jurisdictional dam in poor condition. This dam is unique as it is downstream of Fresh Pond and was used to dam the unnamed tributary for agricultural water use at Tidmarsh Farms. Due to the current height of the dam with the weir boards removed it is no longer considered jurisdictional, however, it is still in poor condition with limited ecological function. Fresh Pond Dam is located on Bartlett Road, a public way, in Plymouth, south of Route 3A. The dam is in poor condition and has a structural height of 5 feet with a 7.5 ft wide by 6ft tall concrete box culvert with stop logs on one side of the dam. Fresh Pond is a freshwater pond that feeds via an unnamed tributary into Beaver Dam Brook, site of DER's Restoration Project. Mass Department of Fish and Game have documented American Eels on multiple survey's in Fresh Pond. Following the removal of one side of the boards in the dam, river herring were documented entering Fresh Pond even given the limited river function. The existing dam does not provide adequate ecological function for proper fish passage nor does it provide any wildlife habitat passage.

In 2005 the Town of Plymouth placed a weight restriction on the crossing the Bartlett Road/Fresh Pond Dam due to the poor condition of the structure. Since then, the Town of Plymouth has had this project on capital list

of projects, however it had not been prioritized or funded by the Town Meeting process. On August 28,2012 Tighe and Bond conducted an Inspection and Evaluation Report for Fresh Pond Dam and the dam was classified in poor condition. Due to the boards on one side of the structure being removed, the dam is no longer considered a jurisdictional dam with ongoing inspections. On February 18,2021, SLR Consulting conducted a visual inspection with recommendations of complete replacement. Some of the visual findings included the superstructure with spalling of the concrete encasement of the grinders/ stringers revealed surface oxidation on the exposed surfaces. Sounding of the remaining encasement yielded hollow spots along the bottom of the flanges where concentrated cracking was observed. The substructure was found to be in fair to poor condition. Scaling within three feet of the waterline was observed at both the east and west abutments. Both abutments had minor hairline cracking and honeycombing. The approaches to the bridge were considered in poor to critical condition. Roadway alignment of both approaches is located along a curve with a bridge width of 18 feet for two lanes of traffic. The east and west approach pavement exhibited minor alligator cracking and roadway settlement of 1-2 feet at the east abutment. The bridge railing consists of steel guard rail section unsupported along the approximate 8 foot length of the structure. The current support condition of the bridge rail is not considered to provide adequate protection for vehicular traffic. Approach guardrails and end treatments are present although the guard rail posts appear misaligned and hence they are not in compliance with current standards nor do they provide adequate protection to vehicular traffic on the bridge.

The necessary easements to align the road, install a larger bridge and undertake stormwater treatment have already been acquired as part of the land acquisition by Mass Audubon.

**For Capital Project Requests:**

Will this project be phased over more than one fiscal year? If yes, enter it on the 5 Year Plan	Yes X	No X
Can this project be phased over more than one fiscal year?	Yes X	No X

**For Capital Equipment Requests:**

☒ Check if equipment requested is replacement and enter the year, make & model, VIN and present condition of existing equipment

**What is the expected lifespan of this new/replacement equipment:** \_\_\_\_\_

**Attach backup information, estimates, or justification to support this request.**

## PROFESSIONAL FEES

The services described above will be performed on a lump sum basis broken down by task as follows:

1.0	Kickoff and Coordination Meetings .....	\$16,500
2.0	Data Collection and Subsurface Exploration.....	\$26,500
3.0	Preliminary Engineering.....	\$52,000
4.0	Conceptual Design .....	\$19,000
5.0	Preliminary Design .....	\$30,000
6.0	Regulatory Permitting Assistance .....	\$28,000
7.0	Final Design .....	\$37,000
8.0	Stakeholder Engagement.....	<u>\$15,000</u>
<b>Subtotal Preconstruction .....</b>		<b>\$224,000</b>
9.0	Bidding-Phase Services .....	\$7,500
10.0	Construction Administration .....	\$26,000
11.0	Project Representation (4-month construction period).....	<u>\$150,000</u>
<b>Subtotal Construction Phase.....</b>		<b><u>\$183,500</u></b>
<b>ESTIMATED PROJECT TOTAL.....</b>		<b>\$407,500</b>

## STANDARD TERMS AND CONDITIONS

This proposal is subject to our Standard Terms and Conditions, which are attached hereto and incorporated herein.

## EXCLUSIONS AND LIMITATIONS

In submitting this proposal, we make no representation that the project will receive all necessary regulatory approvals.

The following work items are not included in this scope of work at this time:

1. Payment of permit application fees
2. Historic and/or archaeological surveys
3. A-2 boundary survey and easement maps
4. Utility design, other than water and drainage
5. Natural Diversity Data Base studies

Should any of the above items or any additional services be required, they can be provided on an hourly basis or for an agreed-upon lump sum fee.