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**Cape Elizabeth**  
**Department of Facilities & Transportation**  
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## Memo

November 4, 2013

To: Meredith Nadeau, Superintendent of Schools  
Pauline Aportria, Business Manager

From: Greg Marles, Director

RE: CIP bonding

We respectfully submit our bonding request for fiscal year 2015/2016 for your consideration. We have broken down the projects into different groupings allowing for greater detailed explanation of the work necessary.

Requested projects for bonding:

Primary electrical service entrance at the high school	\$275,000.00
Roof replacements at the high school	\$800,000.00
Roof replacements at the middle school	\$175,000.00
Roof replacements at Pond Cove	\$175,000.00
AHU/HRU replacement at the middle school	\$325,000.00
Total bonding request for fiscal year 2015/2016	\$1,750,000.00

### **Electrical:**

We are requesting for your consideration the replacement and relocation of the primary service feeding the high school as well as update the service entrance for the middle school. The existing service feed is a direct burial cable running under the multi-purpose field, the tennis courts and the parking lot at the back of the high school. This cable was originally installed in 1967/8 during the construction phase of the high school. Over the past several years we have had cable failures causing areas of the multi-purpose field to be excavated as well as having to excavate parts of the parking lot. As the cabling continues to degrade we will be forced to have to make additional repairs to the buried cable. In a two year span (2010, 2011) we had a cable failure just days before the start of school, risking the opening of the high school. This year we had a failure in the cable feeding the scoreboards and pad mounted transformer on the edge of the multi-purpose field.

**Roofing:**

The school department currently has over 26 different roof lines all of varying ages and conditions. The average life expectancy for most commercial roofing systems is 20 years to a maximum of 25 years at which point the failure rates of the seams is very high. Although we have been very successful with a recertification program, this can only help with prolonging the life of the roof to a certain point. We have several roofs that have gone well past their life expectancy and which can no longer be recertified.

We currently have 45,000 square feet of roofing at the high school dating from 1985 to 1989 which have given the school department many years of good service. Unfortunately, we are at the point of where these roofs have to be replaced. At the middle school we have 9400 square feet of roofing that dates back to 1984, and, finally, 9300 square feet of roofing at Pond Cove that dates back to 1985. This relates to 63,700 square feet of roofing that ranges from 25 to 30 years old.

**HVAC equipment:**

During the renovation of the middle school and Pond Cove several roof top heat recovery units, roof top air handling units and roof top exhaust systems were installed, but now those units have been in service for 20 years. Since many of these units are on the roofs slated for replacement, it is prudent to replace these units during the roofing replacement phase. It would not be good construction practices to replace the roofing and reset old equipment which is at the end of its life expectancy.

The replacement of all of these items listed and their continued maintenance will create a life expectancy of 25 to 30 years. This type of infrastructure upgrades shows very good stewardship of Cape Elizabeth community assets.

We are requesting the support of a bond in the amount of \$1,750,000 to address the project detailed herein.