

MEMORANDUM

TO: Gary Barczak, Chair, Board of Public Works
 Vincent Vitale, First District
 Cathleen M. Probst, Second District
 Thomas G. Lajsic, Fourth District
 Rosalie Reinke, Fifth District

FROM: Peter C. Daniels P.E., Principal Engineer

DATE: August 1, 2017

RE: **Communication from Principal Engineer regarding LED Lighting Retrofit Master Plan for City Buildings**

The purpose of the attached memo is to report the findings of the West Allis Lighting Survey performed by Harwood Engineering and to summarize the potential energy and cost savings resulting from a fluorescent lighting to energy-efficient light-emitting diode (LED) lighting conversion. Ten West Allis municipal buildings were covered in the survey: the Health Department building, the Department of Public Works building, the Senior Center, City Hall, the Police Department building, the Library, the Fire Administration building, and Fire Stations #1, #2, and #3.

Harwood Engineering has calculated the **payback period for each building (which ranges from 2.93 years to 8.51 years)**, and, based on that information, as well as feedback from electrical contractors and West Allis maintenance personnel, they suggest moving forward with an LED line voltage replacement in every compatible fixture following the below 2-year plan:

2 Year Plan		
	Building	Estimated Cost
Year One	City Hall	\$56,176.00
	Health Department	\$14,401.00
	Library	\$63,290.00
	Senior Center	\$20,332.00
	Fire Station #2	\$23,020.00
	5 Buildings	\$177,219.00
Year Two	Fire Station #1	\$13,204.00
	Fire Station # 3	\$12,270.00
	Fire Department Administration	\$13,216.00
	Police Department	\$72,547.00
	Department of Public Works	\$87,470.00
	5 Buildings	\$198,707.00
Overall Total	10 Buildings	\$375,926.00