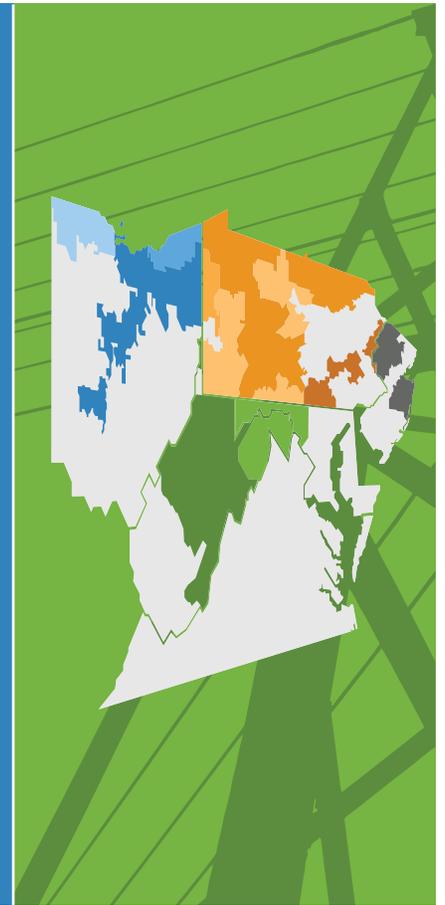


Street Lighting Options

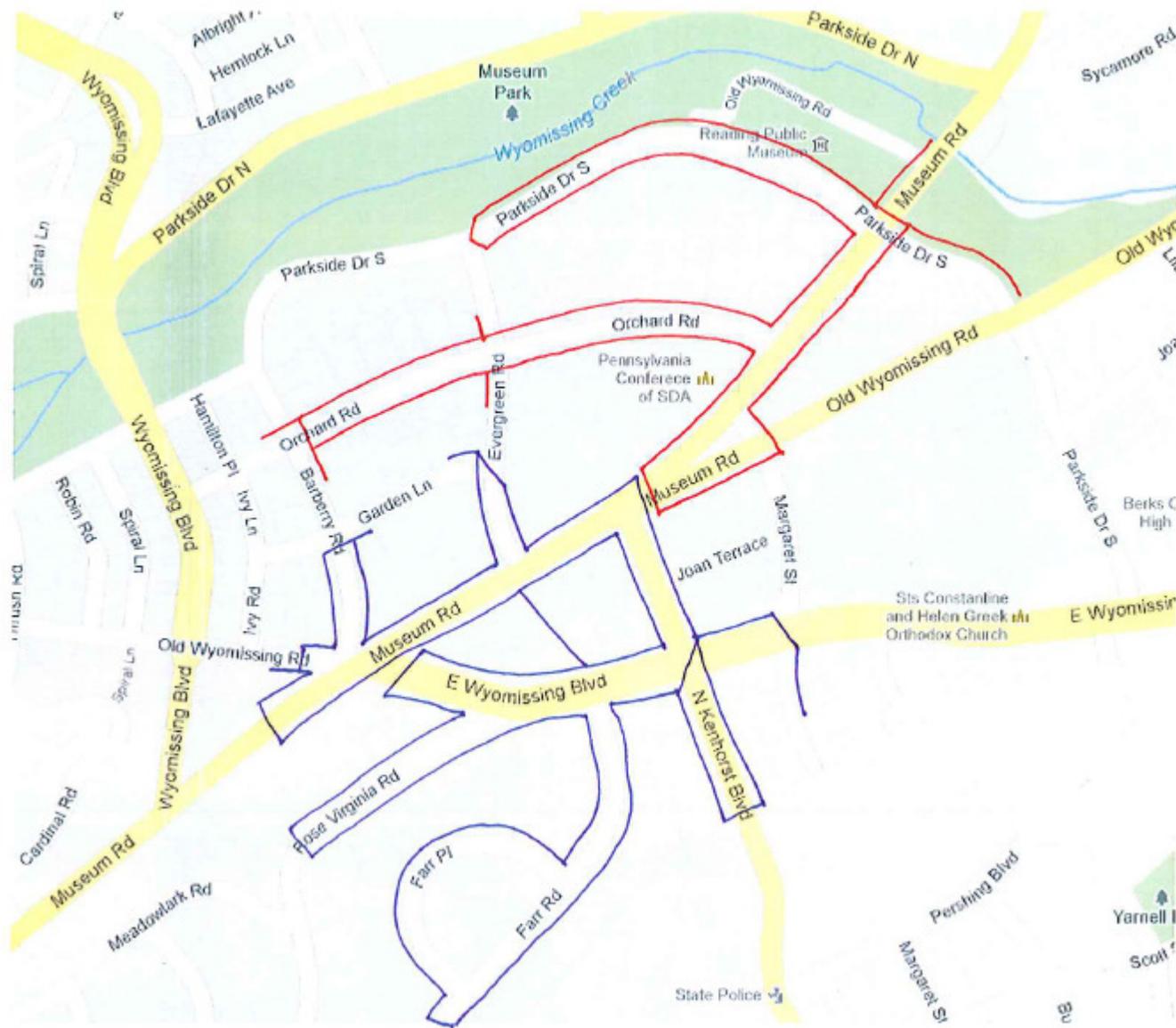
Wyomissing Park, Reading, PA

November 2012



Background

- **Wyomissing Park Street Lighting consists of two circuits of series circuit streetlights built ca. 1920:**
 - Circuit 19 has 20 lights – by the museum
 - Circuit 24, with 32 lights, is on the other side of Museum Road.
 - The two circuits are comprised of 52 lights in the following styles:
 - 2 bridge lights (on Reading side)
 - 5 high mount aluminums
 - 5 modern post top (flying saucers)
 - 40 green post top steel ornamentals



Safety

- **These lines are shallow (6.6 amps, 6” below ground) and vulnerable to erosion and excavation.**
- **Circuit 19 was shut down permanently in May due to energized light standards.**
- **When this type of line fails, it keeps burning; it doesn't trip and could possibly cause damage.**

Aging Technology Can No Longer be Maintained

- **Technology is obsolete – currently the *only* location within FirstEnergy’s five state service area**
- **Replacement equipment, IF it is even available, must be custom ordered:**
 - incandescent bulbs are no longer available (we have stopped repairing lights as they go out as bulbs are no longer available)
 - transformers are no longer available off the shelf –six-week lead time
 - photo cells require special order
 - standards must be custom-made

Options

- **Entire lighting system needs to be replaced – not just the standards.**
- **Options available based on Met-Ed's tariff:**
 - Overhead
 - Underground
 - City owned/Unmetered
 - City owned/Metered
 - Met-Ed Owned
 - Resident Owned

Overhead Option (Met-Ed Installed)

- **Met-Ed builds an overhead streetlight system on wooden poles at no installation cost to the city or residents.**
- **The construction of an overhead system would necessitate substantial and widespread tree trimming.**
- **The City could decide to increase or decrease the number of lights.**



Underground Options

- **According to Met-Ed's tariff, as *in all underground options*, the City is responsible for some of the installation work, including:**
 - the digging and backfilling of the wire trenches, as well as any repairs to lawns, sidewalks, driveways, etc.
 - streetlight foundation costs, if applicable.
- **A new underground street lighting system would not occupy the same footprint of the existing system; it would require placing additional transformers (our engineers have suggested a design to minimize this as much as possible) and opening trenches in homeowner's yards.**

Underground Options (continued)

– City Owned (unmetered)

- **City installs approved streetlights that conform to Met-Ed engineering practices.**
- **City owns the system, and pays Met-Ed for energy, lamp and photocell maintenance. Any other repairs are the City's responsibility.**

Note: This is the most common option because it offers a balance of flexibility and convenience.

Underground Options (continued)

– City Owned (metered)

- **City installs metering point(s).**
- **City installs on its own any street lighting it chooses and connects it to the metering point(s).**
- **City owns the system, and pays Met-Ed for metered consumption (energy) only.**
- **Any maintenance or repairs are the City's responsibility.**

Note: This option offers the most flexibility in lighting choice.

Underground Options (continued)

– Met-Ed Owned

- **Met-Ed installs a standard style post-top streetlight and pole.**
- **Met-Ed owns and maintains the system.**
- **Different payment options are available for the city to consider.**

Note: This option provides limited lighting choices.



Resident-Owned

- Homeowners could coordinate a landscape lighting program at their cost.
- Existing system would be removed.



Questions?