

.....

McClanaghan Associates, Inc.

May 29, 2021

Brad S. Leach, P.E.
Associate/Senior Transportation Engineer
Gordon R. Archibald, Inc.
Civil and Environmental Engineers
200 Main Street
Pawtucket, RI 02860

Re: City of East Providence Peer Review – East Point Lighting Review Report, East Providence, RI

Dear Brad:

The following is noted for this lighting review:

1. In general, the site lighting layout is good, and conforms to IESNA (Illuminating Engineering Society North America) requirements, meeting minimum lighting levels and good maximum to minimum ratios.
2. The roadway lighting, I believe, can be reduced. Many of the pole lights are set across from each other, versus a staggered setup where each pole light is approximately ½ the distance spacing from the pole light on the opposite side of the road. The staggered layout can also help with maintaining minimum lighting levels on the roadway. Lower lighting levels can reduce energy consumption, improve visual comfort, while still maintain safe lighting levels.
3. The roadway lighting used (type P3) is a traditional colonial style light fixture which should work well with this site. It contrasts somewhat with the contemporary style parking lot lighting. However, multiple orientations of the parking lot lights are required (double, triples, etc.) which is not possible with the single type of roadway light. Therefore, the contemporary style light fixture is necessary to achieve desired lighting levels in the parking lots.
4. Parking lot #5 appear to have relatively high lighting levels (average 2.49 fc). Recommend that the designer review this layout for possible lighting reductions.
5. There is one location where I believe an additional pole is required for minimum light levels (see attachment).

Please let me know if you have any questions on this report.

May 29, 2021
Page 2

Sincerely,



Robert McClanaghan, P.E.
Principal Electrical Engineer



ADD P3?