

STREETLIGHTS & CROSSWALK ILLUMINATION

June 19, 2019

Transportation Commission

Raymond Hess

VISIBILITY & POSITIVE CONTRAST

- **10 feet** (or more) prior to crosswalk, from drivers' perspective, optimizes and increases contrast
- If pole placement options are limited, mast arms can be angled to achieve the needed distance

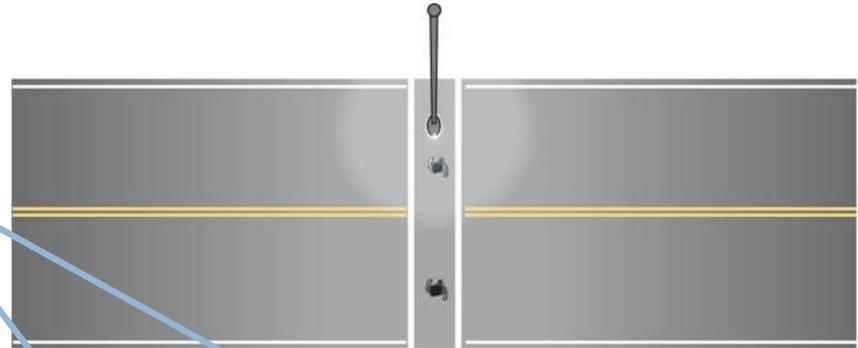
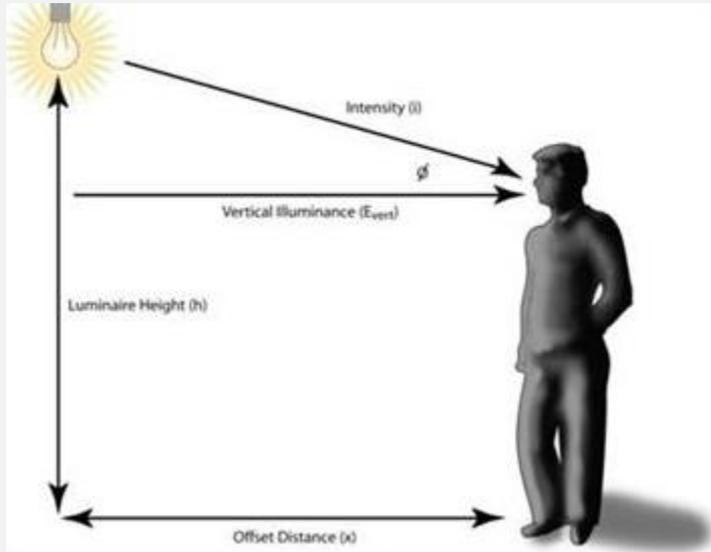


Figure 11. Drawing. Traditional midblock crosswalk lighting layout.

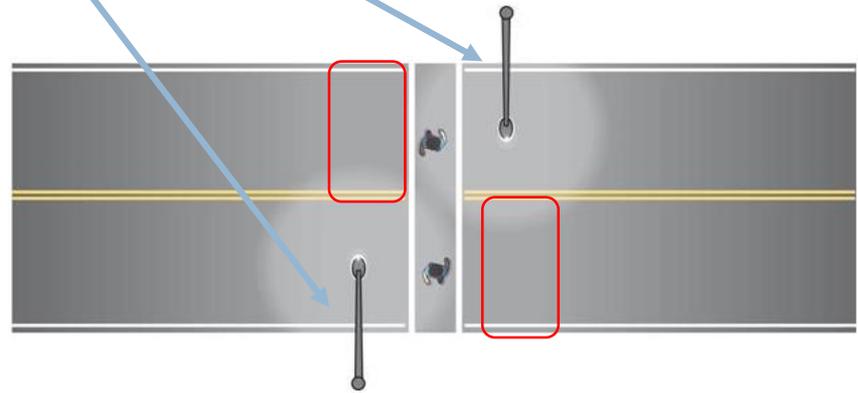


Figure 12. Drawing. New design for midblock crosswalk lighting layout.

Lights placed here would decrease contrast

STREETLIGHT PRIORITIZATION CRITERIA

- Crash History
- Proximity to Transit Stop
- City vs DTE System
- Proximity to Popular Destination
- Crash Potential
- Current Lighting Level
- Street Classification
- Public Request/Desire

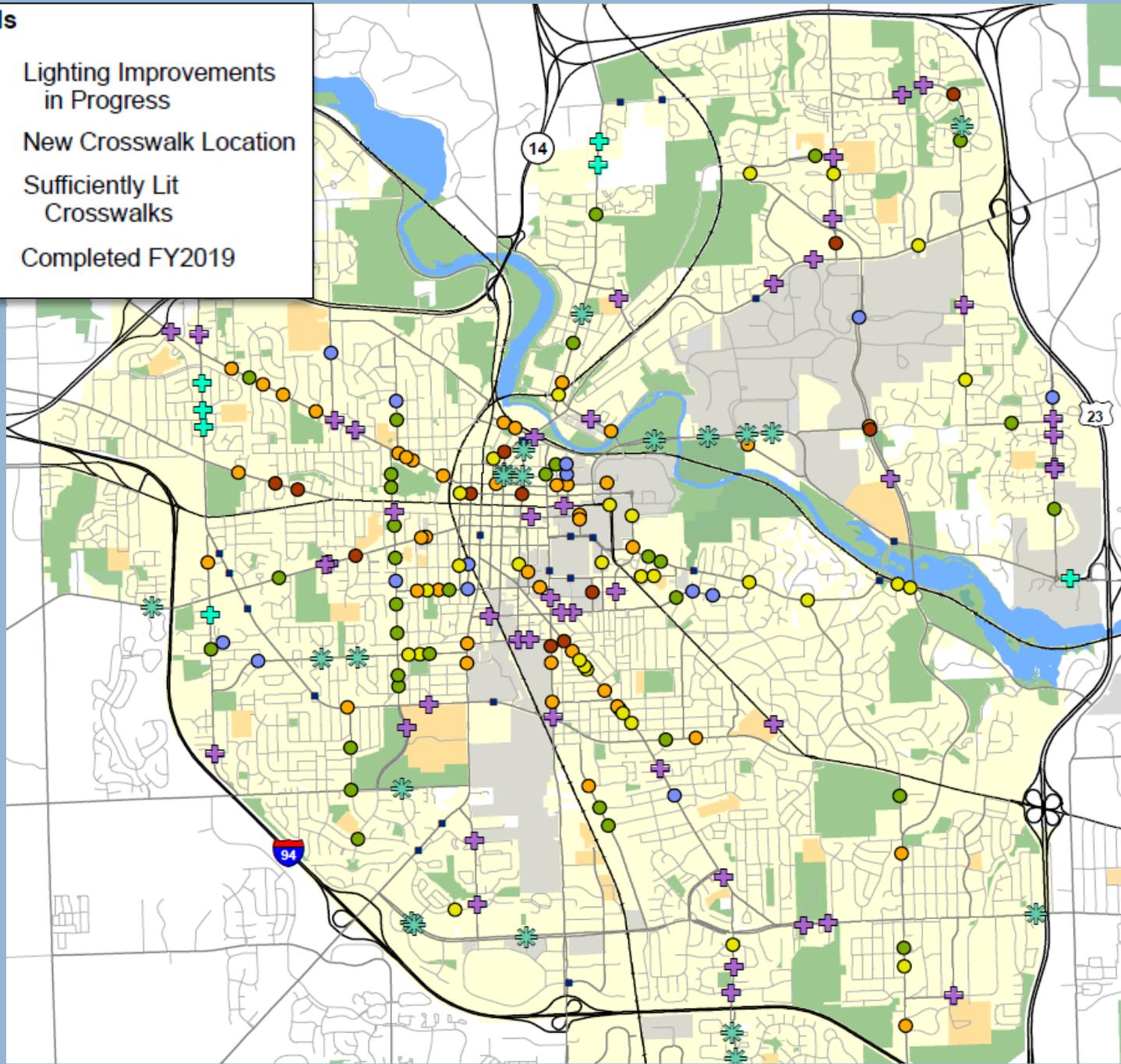
0 No crash history	5 Vehicle-Vehicle PDO crash within influence area	7 Vehicular B and C injury crash within influence area	10 Ped/bike crash or Vehicular K and A injury crash within influence area
0 Greater than ¼ mile from an AAATA or school bus stop or train station	3 Greater than ⅓ mile to ¼ mile from an AAATA or school bus stop or train station	6 300 feet to ⅓ mile from an AAATA or school bus stop or train station	10 Less than 300 feet from an AAATA or school bus stop or train station
2 Add to DTE system w/ City purchased LED		3 Solar Light (as currently available)	10 Part of City System
1 Greater than ½ mile from a school, library, government office, major commercial attractor, or park	3 Greater than ¼ mile to ½ mile from a school, library, government office, major commercial attractor, or park	6 ⅓ mile to ¼ mile from a school, library, government office, major commercial attractor, or park	10 Less than ⅓ mile from a school, library, government office, major commercial attractor, or park
0 No existing facilities		5 Adjacent to intersection	10 Adjacent to existing bike lanes, enhanced cross walks, or mid-block crossings
0 Meets City-defined LOS		6 Area-wide deficiency in meeting City-defined LOS	10 Gap in meeting City-defined LOS
1 Adjacent to a local street	6 Adjacent to an Urban Collector		10 Adjacent to an Arterial Street
0 No petition	3 Single request from individual	7 Requests from multiple citizens or informal citizen group	10 Requested by neighborhood assoc/HOA, school, advocacy group

Crosswalk Lighting Needs

- 2019 Priority Level -

- Highest (12)
- High (42)
- Mid (29)
- Low (34)
- Lowest (14)
- ✚ Lighting Improvements in Progress
- ✚ New Crosswalk Location
- Sufficiently Lit Crosswalks
- ✚ Completed FY2019

MAP



ILLUMINATION BUDGET

	<u>2019</u>	<u>2020</u>
Crosswalk Lighting	\$115,00	\$135,00
Maintenance	\$530,000	\$430,000
New Streetlights	\$155,000	\$155,000+\$100,000

OTHER CONSIDERATIONS

- DTE vs City-owned Streetlights
 - Quantity (2852 city, 5153 DTE)
 - Outage Response
 - Lifecycle Cost
- Dark Skies
- Smart Streetlights
- Mercury Vapor → LED Conversion

THANK YOU

