

GENERAL NOTES FOR STREET LIGHTING

1. The design and layout for street lights, underground wiring and other pertinent equipment to be used shall be in conformance with guidelines issued by the Illuminating Engineering Society of North America (IESNA), stamped by a registered professional engineer and approved by the City Engineer.
2. All electric work performed under these specifications shall be in accordance with the latest edition of the National Electric Code (NEC), which is published by the National Fire Protection Association and is a United States standard for the safe installation of electrical wiring and equipment, and all state or local codes that may apply, including but not limited to Columbus Item 1000 and ODOT Item 625.
3. Metering of electricity for street lighting is not required. Street lighting designs shall be coordinated with the electrical energy supplier by the design engineer; the type of lighting, including the use of all advanced lighting technologies, shall be clearly defined in order to estimate energy use. The number and format of record plans to be submitted shall be determined by the supplier of electric energy. All service enclosures along public streets shall be pad-mounted and screened; aboveground pole or post-mounted assemblies are not permitted.
4. Lighting conduit parallel to the street shall be located per Hilliard Standard Drawing SL-6. All other lighting conduit shall be located two (2) feet minimum off side and rear lot lines in a five (5) foot minimum easement. Minimum depth for conduit is two (2) feet. Electrical warning tape (red) shall be provided one (1) foot over top of street light cable and conduit.
5. The Contractor/Owner/Developer shall submit manufacturer's specification sheets to the City Engineer for approval prior to installation. Manufacturer's specification sheets are required for the following items:
 - Luminaire
 - Lamps
 - Pole
 - Photocell
 - Service Enclosure
 - Pull box
 - Conduit
 - Cable
 - Hand holes
 - Controls
6. For each new project where street light poles are installed in public right-of-way, additional poles(s), luminaire(s), and all incidental hardware, shall be provided to the City of Hilliard Service Department for maintenance purposes. The required number of spares is based on a ratio of 1 spare for each 10 new poles with a minimum of one complete assembly (pole, luminaire, and all incidental hardware) for all systems of four (4) or more poles. If fewer than

4 poles are installed, this requirement is waived. The following are the number of additional poles, luminaires, and incidental hardware that are required:

<u>Poles Installed</u>	<u>Additional Poles, Luminaires, & Hardware to be delivered to City</u>
0 – 3	0
4 – 10	1
11 - 20	2
21 - 30	3
31 - 40	4
more than 40	5

These additional “material only” items shall be clearly defined as a separate line item in the general summary or quantities. All spare equipment shall be delivered to the City of Hilliard Service Department prior to acceptance of the project. A signed itemized receipt showing the items and quantities delivered to the City shall be provided by the contractor to the inspector prior to acceptance and/or payment of materials.

7. The Contractor/Owner/Developer shall obtain all permits required by the Public Authority having jurisdiction, including a Hilliard right-of-way permit. All easements required for construction shall be secured and submitted to the City of Hilliard for recording prior to commencement of work; no work which requires an easement shall proceed until this is complete.
8. The City Engineer or his authorized representative shall perform inspection of the work. The City Engineer will require at least forty-eight (48) hours’ notice before any work takes place. No underground cable shall be backfilled until inspected. Failure to request the necessary inspection may result in the rejection of the work and the project.
9. The Contractor/Owner/Developer shall conduct Electrical Tests per COLS Item 1000.18 and ODOT item 625.19.
10. The Contractor/Owner/Developer shall provide one paper copy and one electronic (PDF) copy of the following items:
 - Final “as-built” drawings for the lighting system
 - An Operations & Maintenance (O&M) Manual (paper copy in a 3-ring binder) for all electrical items provided in the Project
11. Following installation of the lighting system, the Contractor/Owner/Developer shall request final inspection by the City of Hilliard Operations Division. Within one week, the final inspection will be conducted, and a final punch list will be issued. Upon completion of all punch list items, the City, or their representative, will officially accept the lighting system in writing. This date establishes the beginning of the warranty period.

12. The warranty period for all lighting systems, materials, and/or other electric components is one (1) year unless otherwise extended in the plans. Any poles, luminaires or other equipment that are damaged as part of construction activities are the sole responsibility of the Developer to repair and/or replace, independent of the status of the warranty period.