

CHATHAM COUNTY PURCHASING DEPARTMENT  
ADDENDUM NO. 1 TO BID #18-0025-7

FOR: Lake Mayer Court Lighting Replacement Project

=====

PLEASE SEE THE FOLLOWING ADDITIONS, CLARIFICATIONS AND/OR CHANGES:

**\*\*NOTE: Pole Designation Layout is posted on the Purchasing and Contracting website (purchasing.chathamcounty.org) along with the bid document.**

1. **Addition:** Add to Section 4.1, second paragraph, #5 – Additional Areas – playground area, parking area near basketball court, parking near tennis court.
2. **Addition:** Add Section 4.7 LIGHT SPILL AND GLARE CONCERNS: - Light Control Luminaires: All luminaires shall utilize spill light and glare control devices including, but not limited to, internal shields, louvers and external shields. No symmetrical beam patterns are accepted.

Spill Light and Glare Control: To minimize impact on adjacent properties, spill light and candela values must not exceed the following.

Typical Field Type	Maximum Candela at 150'
Tennis	<12,000 candela

Spill Scans: Spill scans must be submitted indicating the amount of horizontal and vertical footcandles along the specified lines. Light levels shall be taken at 30-foot intervals along the boundary line. Readings shall be taken with the meter orientation at both horizontal and aimed towards the most intense bank of lights. Illumination level shall be measured in accordance with the IESNA LM-5-04 after 1 hour warm up.

The first page of a photometric report for all luminaire types proposed showing horizontal and vertical axial candle power shall be provided to demonstrate the capability of achieving the specified performance. Reports shall be certified by a qualified independent testing laboratory with a minimum of five years experience or by a manufacturer's laboratory with a current accreditation under the National Voluntary Laboratory Accreditation Program for Energy Efficient Lighting Products. A summary of the horizontal and vertical aiming angles for each luminaire shall be included with the photometric report.

3. **Addition:** Add Section 4.8 BUILDING CODE/WIND SPEED: - Wind Loads: Wind loads shall be based on the 2012 International Building Code. Wind loads to be calculated using ASCE 7-10, an ultimate design wind speed of 140 mph and exposure category C.
4. **Addition:** Add Section 4.9 LIGHT LEVELS – Light levels are as follows:

Area of Lighting	Average Target Illumination	Maximum to Minimum	Grid Points	Grid Spacing
------------------	-----------------------------	--------------------	-------------	--------------

	<b>Levels</b>	<b>Uniformity Ratio</b>		
Basketball Courts	30 FC	3.0:1.0	30	20' x 20'
Tennis Courts 1-4	50 FC	2.0:1.0	60	20' x 20'
Tennis Courts 5-8	50 FC	2.0:1.0	60	20' x 20'

5. **Addition:** Add Section 4.10 MOUNTING HEIGHTS –

<b># of Poles</b>	<b>Pole Designation</b>	<b>Pole Mounting Height</b>
4	T1, T2, T3, T4	60'
4	T5, T7, T8, T10	50'
4	BA1, BA2, T6, T9	50'

6. **Addition:** Add Section 4.11 WARRANTY - 25-Year Warranty: Each manufacturer shall supply a signed warranty covering the entire system for 25 years from the date of shipment. Warranty shall guarantee specified light levels. Manufacturer shall maintain specifically-funded financial reserves to assure fulfillment of the warranty for the full term. Warranty does not cover weather conditions events such as lightning or hail damage, improper installation, vandalism or abuse, unauthorized repairs or alterations, or product made by other manufacturers. Maintenance: Manufacturer shall monitor the performance of the lighting system, including on/off status, hours of usage and luminaire outage for 25 years from the date of equipment shipment. Parts and labor shall be covered such that individual luminaire outages will be repaired when the usage of any field is materially impacted. Owner agrees to check fuses in the event of a luminaire outage.

Instant On/Off Capabilities: System shall provide for instant on/off of luminaires. Lighting contactor cabinet(s) constructed of NEMA Type 4 aluminum, designed for easy installation with contactors, labeled to match field diagrams and electrical design. Manual off-on-auto selector switches shall be provided.

Remote Lighting Control System: System shall allow owner and users with a security code to schedule on/off system operation via a web site, phone, fax or email up to ten years in advance. Manufacturer shall provide and maintain a two-way TCP/IP communication link. Trained staff shall be available 24/7 to provide scheduling support and assist with reporting needs.

The owner may assign various security levels to schedulers by function and/or fields. This function must be flexible to allow a range of privileges such as full scheduling capabilities for all fields to only having permission to execute “early off” commands by phone. Scheduling tool shall be capable of setting curfew limits.

Controller shall accept and store 7-day schedules, be protected against memory loss during power outages, and shall reboot once power is regained and execute any commands that would have occurred during outage.

Remote Monitoring System: System shall monitor lighting performance and notify manufacturer if individual luminaire outage is detected so that appropriate maintenance can be scheduled. The controller shall determine switch position (manual or auto) and contactor status (open or closed).

Management Tools: Manufacturer shall provide a web-based database and dashboard tool of actual field usage and provide reports by facility and user group. Dashboard shall also show current status of luminaire outages, control operation and service. Mobile application will be provided suitable for IOS, Android and Blackberry devices.

Hours of Usage: Manufacturer shall provide a means of tracking actual hours of usage for the field lighting system that is readily accessible to the owner.

- a. Cumulative hours: shall be tracked to show the total hours used by the facility
- b. Report hours saved by using early off and push buttons by users.

Communication Costs: Manufacturer shall include communication costs for operating the controls and monitoring system for a period of 25 years.

7. **Question:** Will there be a Geo-technical report available?  
**Response:** No, a Geo-technical report is not available.
8. **Question:** Will a company be approved if it does not match the number of poles and fixtures call out in the specifications?  
**Response:** Yes, as long as required candelas are achieved.
9. **Question:** Will the County require electrical stamp drawings with bid?  
**Response:** Yes, electrical stamped drawings are to be submitted to the Project Manager.
10. **Question:** Will the County require stamp structural foundation for poles with bid?  
**Response:** Yes, stamped structural foundation for poles is to be submitted to the Project Manager.

**THE BID OPENING DATE REMAINS 2:00 PM,  
MAY 17, 2018.**

**PROPOSER IS RESPONSIBLE FOR MAKING THE NECESSARY CHANGES.**

May 15, 2018

DATE

  
MARGARET H. JOYNER  
PURCHASING DIRECTOR  
CHATHAM COUNTY