

**HART COUNTY BOARD OF COMMISSIONERS
800 Chandler Street
HARTWELL, GA 30643**

DATE: August 25, 2022

BID NOTICE

Sealed bids for **installation of lighting at the tennis/pickle ball courts at the Hart County Recreation and Parks Department's Clay Street Park** located at 200 Clay Street, Hartwell, GA, 30643, subject to the conditions and provisions set forth in the attached bid package will be received at the Hart County Board of Commissioners office until Thursday, September 22, 2022, at 3:30 PM. The commodities and/or services must be furnished as described and specified in this package.

Bids must be received either via mail or hand delivered in a **sealed envelope**. Faxed or emailed bids cannot be accepted.

Please address mailed bids, Fed-Ex, UPS, or hand delivered bids to:

HART COUNTY BOARD OF COMMISSIONERS
800 CHANDLER STREET
HARTWELL, GA 30643
Attn: Lawana Kahn

Also, please show the following on the **OUTSIDE** of the envelope:
BID FOR Tennis / Pickle Ball Court Lighting, "Company Name"

NOTE: Some "Next Day" deliveries may not get delivered to this office prior to the bid opening. Please be aware of this and make arrangements to have your bid here on time, as late bids will be rejected.

NOTICE: If you are downloading this information from a web page, you must register with Hart County at the contact information listed in **Section V, Interpretations or Addenda** or via email at bfloyd@hartcountyga.gov . This is the only way Hart County can be sure that you receive all addendum and relevant information for this bid.



**HART COUNTY PUBLIC WORKS DEPARTMENT
BIDS FOR Tennis/Pickle Ball Court Fencing**

**DATE BIDS DUE: Thursday, September 22, 2022
3:30 p.m.**

**BID FORM
HART COUNTY BOARD OF COMMISSIONERS
800 CHANDLER ST., HARTWELL, GA 30643**

The (Company)_____

submits herewith Bid in response to bid request in this package, and in compliance with the description(s) and/or specification(s) attached hereto:

NOTE: You must sign and complete the Bid Supplemental Form and Contractor Affidavit.

PRICE:

Price in Numbers

Price in Words

The following Addenda to the Bidding and Contract Documents are acknowledged:

Addendum No: _____

Dated: _____

OFFICIAL COMPANY ADDRESS _____

EMAIL ADDRESS: _____

SIGNATURE _____

PRINT NAME _____

TITLE _____ PHONE _____

DATE _____ FAX _____

Corporate Seal (if applicable)

**BID SUPPLEMENTAL FORM
HART COUNTY BOARD OF COMMISSIONERS**

DATE: _____

NOTICE: *Hart County Purchasing Policy prohibits awards to a (1) county employee, (2) employee of a constitutional officer, (3) a Board of Commissioner Member, (4) Constitutional Officer or to a company/business where a county employee/Constitutional Officer holds any interest. These prohibitions also apply to immediate family members of those listed above. By signing below, you are confirming that these prohibitions do not apply to your company/bid.*

References: Name Title Organization Phone Number email address

1.

2.

3.

The _____(Bidder) takes the following exceptions to the specification and bid documents:

(Important: See section IIb)

SIGNATURE: _____

CONTRACTOR AFFIDAVIT AND AGREEMENT OF COMPLIANCE WITH GEORGIA LAW 13-10-91 (1/1/10)

By executing this affidavit, the undersigned contractor verified its compliance with O.C.G.A. 13-10-91, stating affirmatively that the individual, firm or corporation which is contracting with the Hart County Board of Commissioners has registered with and is participating in a federal work authorization program* [any of the electronic verification of work authorization programs operated by the United State Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986 (IRCA), P.L. 99-603], in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

The undersigned further agrees that, should it employ or contract with any subcontractor(s) in connection with the physical performance of services pursuant to this contract with the Hart County Board of Commissioners, contractor will secure from such subcontractor(s) similar verification of compliance with O.C.G.A. 13-10-91 on the Subcontractor Affidavit provided in Rule 300-10-01-.08 or a substantially similar form. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the (name of the public employer) at the time the subcontractor(s) is retained to perform such service.

EEV/Basic Pilot Program* User Identification Number

BY: Authorized Officer or Agent

Date

Title of Authorized Officer or Agent of Contractor

Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME ON
THIS THE ____ DAY OF _____, 200_

Notary Public
My Commission Expires:

* As of the effective date of O.C.G.A. 13-10-91, the applicable federal work authorization program is the "EEV/Basic Pilot Program" operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA).

SCOPE OF WORK:
Clay Street Park Tennis

Lighting System with LED Light Source

PART 1 – GENERAL

1.1 SUMMARY

- A. Work covered by this section of the specifications shall conform to the contract documents, engineering plans as well as state and local codes.
- B. The purpose of these specifications is to define the lighting system performance and design standards for Clay Street Park Tennis/Pickle Ball Courts using an LED Lighting source. The manufacturer / contractor shall supply lighting equipment to meet or exceed the standards set forth in these specifications.
- C. The sports lighting will be for the following venues:
 - 1. Tennis and Pickle Ball Courts 1-4
 - 2. Tennis Courts 5-6
- D. The primary goals of this sports lighting project are:
 - 1. Guaranteed Light Levels: Selection of appropriate light levels impact the safety of the players and the enjoyment of spectators. Therefore, light levels are guaranteed to not drop below specified target values for a period of 10 years.
 - 2. Environmental Light Control: It is the primary goal of this project to minimize spill light to adjoining properties and glare to the players, spectators, and neighbors.
 - 3. Cost of Ownership: In order to reduce the operating budget, the preferred lighting system shall be energy efficient and cost effective to operate. All maintenance costs shall be eliminated for the duration of the warranty.
 - 4. Control and Monitoring: To allow for optimized use of labor resources and avoid unneeded operation of the facility, customer requires a remote on/off control system for the lighting system. Fields should be proactively monitored to detect luminaire outages over a 10-year life cycle. All communication and monitoring costs for 10-year period shall be included in the bid.

1.2 SCOPE OF WORK – INSTALLATION & ELECTRICAL DISTRIBUTION

- A. Work shall be coordinated to be scheduled as to impose the least amount of impact on daily community activities
- B. Demo existing fixtures and dispose of all used equipment.
- C. Provide and Install new lighting Control Panel with contactors next to service panel.
- D. Provide Player Activated Push-Button Control for each set of two tennis courts and Pickle Ball Courts. A green button to activate the lights and a red button to de-activate the lights.
- E. Install new fixtures, cross arms, electrical component enclosures and wire harness per manufacturer requirements
- F. Contractor responsible for 811 locate, any directional boring, concrete cutting and pour back to original state, etc. Routes shall be field verified and written plan shall be submitted to owner and approved prior to

start

- G. Provide and install conduit from Player Activated Push-Button Control from lighting control cabinet (All exposed conduit and elbows shall be galvanized rigid, rest shall be schedule 40 EPVC. Where degrees exceed 270, pull boxes shall be installed, Quazite or equivalent type)
- H. Position fixtures according to lighting manufacturer specifications. Lighting poles shall not be placed inside the fenced in area.
- I. Coordinate with lighting manufacturer representative and commission
- J. Contractor shall submit installation warranty on company letterhead for no less than one year
- K. Keep all heavy equipment off of playing surface. Repair damage to grounds that exceeds that which would be expected. Indentations caused by heavy equipment traveling over dry ground would be an example of expected damage. Ruts and sod damage caused by equipment traveling over wet grounds would be an example of damage requiring repair.

1.3

1.4 LIGHTING PERFORMANCE

- A. Illumination Levels and Design Factors: Playing surfaces shall be lit to an average target illumination level and uniformity as specified in the chart below. Lighting calculations shall be developed, and field measurements taken on the grid spacing with the minimum number of grid points specified below. Appropriate light loss factors shall be applied and submitted for the basis of design. Average illumination level shall be measured in accordance with the IESNA LM-5-04 (IESNA Guide for Photometric Measurements of Area and Sports Lighting Installations). Illumination levels shall not drop below desired target values in accordance to IES RP-6-15, Maintained Average Illuminance and shall be guaranteed for the full warranty period.

Area of Lighting	Average Target Illumination Levels	Maximum to Minimum Uniformity Ratio	Grid Points	Grid Spacing
Tennis Courts 1-4	30FC	2.5:1.0	60	20' x 20'
Tennis Courts 5-6	30FC	2.5:1.0	30	20' x 20'

- B. Color: The lighting system shall have a minimum color temperature of 5700K and a CRI of 75.
- C. Mounting Heights: To ensure proper aiming angles for reduced glare and to provide better playability, minimum mounting heights shall be as described below. Higher mounting heights may be required based on photometric report and ability to ensure the top of the courts angle is a minimum of 10 degrees below horizontal.

# of Poles	Pole Designation	Pole Height
8	T1 – T8	30'
4	T9 – T12	40'

1.5 ENVIRONMENTAL LIGHT CONTROL

- A. 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.
- B. Spill Light and Glare Control: To minimize impact on adjacent properties, spill light and candela values must not exceed the following levels taken at 3 feet above grade.

Tennis Courts	Average	Maximum
150' Specified Spill Line Horizontal Footcandles	0.001	0.003
150' Specified Spill Line Max Vertical Footcandles	0.004	0.025
150' Specified Spill Line Max Candela	104	610

- C. 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.
- D. The efficacy for court aimed fixtures must meet DLC requirement of 105 lumens per watt

PART 2 – PRODUCT

2.1 SPORTS LIGHTING SYSTEM CONSTRUCTION

- A. Manufacturing Requirements: All components shall be designed and manufactured as a system. All luminaires, wire harnesses, drivers and other enclosures shall be factory assembled, aimed, wired and tested.
- B. Durability: All exposed components shall be constructed of corrosion resistant material and/or coated to help prevent corrosion. All exposed carbon steel shall be hot dip galvanized per ASTM A123. All exposed aluminum shall be powder coated with high performance polyester or anodized. All exterior reflective inserts shall be anodized, coated, and protected from direct environmental exposure to prevent reflective degradation or corrosion. All exposed hardware and fasteners shall be stainless steel, passivated and coated with aluminum-based thermosetting epoxy resin for protection against corrosion and stress corrosion cracking. Structural fasteners may be carbon steel and galvanized meeting ASTM A153 and ISO/EN 1461 (for hot dipped galvanizing), or ASTM B695 (for mechanical galvanizing). All wiring shall be enclosed within the cross-arms, pole, or electrical components enclosure.
- C. System Description: Lighting system shall consist of the following:
 1. New poles and cross arms will to be stalled.
 2. Manufacturer will supply all drivers and supporting electrical equipment
 - a. Remote drivers and supporting electrical equipment shall be mounted approximately 10 feet above grade in aluminum enclosures. The enclosures shall be touch-safe and include drivers and fusing with indicator lights on fuses to notify when a fuse is to be replaced for each luminaire. Disconnect per circuit for each pole structure will be located in the enclosure.
Integral drivers are not allowed.
 - b. Manufacturer shall provide surge protection at the pole equal to or greater than 40 kA for each line to ground (Common Mode) as recommended by IEEE C62.41.2_2002.
 5. Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for

fast, trouble-free installation.

6. All luminaires, visors, and new cross-arm assemblies shall withstand 150 mi/h winds and maintain luminaire aiming alignment.
7. Control cabinet to provide remote on-off control, monitoring, of the lighting system. See Section 2.3 for further details.
8. Manufacturer shall provide lightning grounding as defined by NFPA 780 and be UL Listed per UL 96 and UL 96A.
 - a. If grounding is not integrated into the structure, the manufacturer shall supply grounding electrodes, copper down conductors, and exothermic weld kits. Electrodes and conductors shall be sized as required by NFPA 780. The grounding electrode shall be minimum size of 5/8 inch diameter and 8 feet long, with a minimum of 10 feet embedment. Grounding electrode shall be connected to the structure by a grounding electrode conductor with a minimum size of 2 AWG for poles with 75 feet mounting height or less, and 2/0 AWG for poles with more than 75 feet mounting height.

D. Safety: All system components shall be UL listed for the appropriate application.

2.2 ELECTRICAL

- A. Electric Power Requirements for the Sports Lighting Equipment:
 1. Electric power: 240 Volt, Single Phase
 2. Maximum total voltage drop: Voltage drop to the disconnect switch located on the poles shall not exceed three (3) percent of the rated voltage.
- B. Energy Consumption: The kW consumption for the field lighting system shall be 14.4.

2.3 CONTROL

- A. Instant On/Off Capabilities: System shall provide for instant on/off of luminaires.
- B. 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.
- C. Dimming: System shall provide for 3-stage dimming (high-medium-low). Dimming will be set via scheduling options (Website, app, phone, fax, email)
- D. 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.

- E. 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).

- F. 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 and Android 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.

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

- G. Player Activated Control: Manufacturer shall include a pushbutton timer per set of 2 courts that will allow lighting system to turn during the hours owner has designated. Timer must allow owner to set run times for lights. Owner will have ability to set master on/off schedules via web-based management tool.
- H. Communication Costs: Manufacturer shall include communication costs for operating the control and monitoring system for a period of 10 years.
- I. Communication with luminaire drivers: Control system shall interface with drivers in electrical components enclosures by means of powerline communication.

2.4 STRUCTURAL PARAMETERS

- A. Wind Loads: Wind loads shall be based on the 2018 International Building Code. Wind loads to be calculated using ASCE 7-16, an ultimate design wind speed of 110 and exposure category C.
- B. Pole Structural Design: The stress analysis and safety factor of the poles shall conform to 2013 AASHTO Standard Specification for Structural Supports for Highway Signs, Luminaires, and Traffic Signals (LTS-6).

PART 3 – EXECUTION

3.1 DELIVERY TIMING

- A. Delivery Timing Equipment On-Site: The equipment must be on-site 8 weeks from receipt of approved submittals and receipt of complete order information.

3.2 FIELD QUALITY CONTROL

- A. Illumination Measurements: Upon substantial completion of the project and in the presence of the Contractor, Project Engineer, Owner's Representative, and Manufacturer's Representative, illumination measurements shall be taken and verified. The illumination measurements shall be conducted in accordance with IESNA LM-5-04.
- B. Court Light Level Accountability
 1. Light levels are guaranteed not to fall below the target maintained light levels for the entire warranty period of 10 years. These levels will be specifically stated as “guaranteed” on the illumination summary provided by the manufacturer.
 2. The contractor/manufacturer shall be responsible for conducting initial light level testing and an additional inspection of the system, in the presence of the owner, one year from the date of

commissioning of the lighting.

3. The contractor/manufacturer will be held responsible for any and all changes needed to bring these courts back to compliance for light levels and uniformities. Contractor/Manufacturer will be held responsible for any damage to the courts during these repairs.
- C. Correcting Non-Conformance: If, in the opinion of the Owner or his appointed Representative, the actual performance levels including footcandles and uniformity ratios are not in conformance with the requirements of the performance specifications and submitted information, the Manufacturer shall be required to make adjustments to meet specifications and satisfy Owner.

3.4 WARRANTY AND GUARANTEE

- A. 10-Year Warranty: Each manufacturer shall supply a signed warranty covering the entire system for 10 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.
- B. Maintenance: Manufacturer shall monitor the performance of the lighting system, including on/off status, hours of usage and luminaire outage for 10 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. Manufacturer is responsible for removal and replacement of failed luminaires, including all parts, labor, shipping, and equipment rental associated with maintenance. Owner agrees to check fuses in the event of a luminaire outage.

PART 4 – DESIGN APPROVAL

- 4.0 Bidders are required to bid only products that have been approved by this specification or addendum by the owner or owner's representative. Bids received that do not utilize an approved system/design, will be rejected.

GENERAL INFORMATION FOR BIDDERS

Hart County reserves the right to reject any or all bids, further negotiate with one or more bidders, and waive any technicalities or informalities if it is deemed in the best interest of the County. Hart County assumes no responsibility in the costs incurred by the bidder in preparing a response.

The Hart County Board of Commissioners reserves the right to waive technicalities, to accept or reject any and all bids or proposals and to waive any irregularity in any bid or proposal received, to award the entire bid or proposal to one vendor or multiple vendors or to make awards by group or location, whichever is in the best interests of Hart County.

It is the bidder's responsibility to verify all quantities and specifications are met to perform the work as specified herein, before submitting their bid. Price submitted shall include all labor and materials for completion of the work. In the event of a conflict between these specifications and any referenced specifications the higher quality specification shall supersede. Quantities listed are approximate and may be varied at the discretion of the Owner.

All measurements given on the list of work to be done are approximate. It is the contractor's responsibility to verify all quantities and measurements necessary to perform the work as specified herein, before submitting their bid.

Bids submitted and prices submitted shall be valid for 90 days after submittal of bids. After this 90-day period, the bidder has the right to withdraw his pricing or be awarded the work at the bid price should the County choose to award this work. If only one bid is received the County may choose to not open the bid and solicit additional bids prior to opening all bids in a public meeting.

II. PREPARATION OF BID

A. Bidders must submit bids on the proposal forms provided. Additional materials can also be included with the bids. Complete the bid form, bid supplemental form, and contractor affidavit. Place the bid in both numbers and words on the bid form in the space provided. In the event of a conflict between the number and words bid the price in words shall be used. Place bid within an envelope addressed:

Hart County Board of Commissioners
800 Chandler Street
Hartwell, GA 30643
Attn: Lawana Kahn

Place on outside of envelope:

“Bid for Tennis/Pickle Ball Lighting” along with “Name of Company”

B. Any deviations (exceptions) from the bid specifications must be included on the Bid **Supplemental form**. Such deviations may be evaluated by the Owner in making a final determination as to the selection of a bidder.

- C. Submit proposals filled out in ink or typewritten, without erasure, interlineations, or changes. No bid changes will be permitted to be placed on the outside of the envelope. If a bidder desires to change the bid prior to the deadline for acceptance, the bidder may remove place the revised bid in a new sealed envelop.
- D. Make proposals in name of the principal and if a partnership, give names of all parties. Give exact post office address. If an agent submits proposals, provide satisfactory evidence of agency authority with proposal.

III. BIDDER'S RESPONSIBILITY

- A. Before submitting their bid, the Bidder shall carefully perform all necessary investigations to inform themselves thoroughly as to the specifications needed for this work.

IV. INSURANCE, LAWS, PERMITS, LICENSES, REGULATIONS, ETC.

- A. Licensure for work will be as required by any applicable regulatory agency.
- B. The Contractor, in execution of the work, shall conform to all applicable Federal and State laws, Municipal Ordinances and rules and regulations of all authorities having jurisdiction over the work, including in part, all construction codes and safety codes which may apply to (1) performance of work; (2) protection of adjoining and adjacent property; (3) maintenance of passageways, guard fences or other protective facilities; and shall obtain and pay for all permits, licenses and approvals necessary for construction of the work and give all required notices.
- C. The Contractor shall arrange for all inspections required by Federal, State, and Municipal or other authorities having lawful jurisdiction and pay all fees and cost incurred.
- D. The successful bidder shall be required to submit proof of workman's compensation coverage for all employees of the bidder, as well as public liability insurance of at least \$500,000/\$1,000,000 limits. In addition, the successful bidder will be solely responsible for any damages done by their company (or their subcontractors and suppliers) to public utilities and/or personal property as a result of the execution of this Contract.
- E. Bidders must comply with the State of Georgia Public Works Laws for Bidding this work. In general, if the bid is greater than \$100,000 a 5% bid bond must be included with the bid.
- F. Under Georgia Law, bidders must provide an affidavit of compliance with the Georgia Security and Immigration Compliance for their company and any all subcontractors proposed under this work if this work with their bid.

V. INTERPRETATIONS OR ADDENDA

Any questions concerning this invitation should be directed via fax or mailed to:
Terrell Partain,
Hart County Administrator,
800 Chandler Street
Hartwell, GA 30643,
Fax: 706-376-2024

Hart County reserves the right to reject any or all bids, to further negotiate with one or more bidders, and, to waive any technicalities and informalities, and to accept the bid deemed to be in the best interest of the County.

No oral changes or interpretations shall be made to any bidder regarding the bid Documents or any part thereof. Every request for an interpretation shall be made in writing via fax or mail to: Jon Caime, Hart County Administrator, at the contact information above.

Any inquiry received five or more days prior to the date fixed for acceptance of bids will be given consideration and addressed to all known bidders in the form of an Addendum. Any changes or interpretations to the specifications shall also be in the form of an Addendum to the Bid Documents. All Addenda will be faxed and mailed to each person holding Bid Documents, but it shall be the bidder's responsibility to make inquiries as to the Addenda issued. All such Addenda shall become part of the Bid Documents and all bidders shall be bound by such Addenda, whether or not received by the bidders. It shall be the bidder's responsibility to ensure delivery of any and all requests for interpretations.

VI. OTHER REQUIREMENTS

Should the contractor, in the opinion of Hart County representatives, fail to comply with any requirements of these specifications; the County may delay work until such requirements are satisfactorily met.

Any quantity listed is approximate and/or estimated. Contractor shall verify all quantities. Hart County reserves the right to reject any or all bids, to further negotiate with one or more bidders, and, to waive any technicalities and informalities, and to accept the bid deemed to be in the best interest of the County.

This bid package and any subsequent bid addendum are the specifications and contract documents for this project. The County must approve any variance from the required specifications in writing. If there is a conflict between these specifications and any referenced specifications, the higher quality specification shall be applied.

End of Bid Package