

**Chattooga County School District
Request for Sealed Bids**

A. Invitation to Bid

Chattooga County Board of Education is requesting bids, from interested and qualified construction firms, for the replacement of **Chattooga County High School Football Stadium Lighting, Summerville, Georgia**. The proposed budget is **\$250,000.00**.

Construction work shall be coordinated with Chattooga County School District, as directed by the school system's owner's representative following the competitive process. **The scope of work for the project shall be started and completed between September 4, 2021 and September 23, 2021.**

The scope of work for this project is defined by the Contract Documents, and consists of the following:

1. Sports Lighting for Football Field (360'x160')
2. Emergency Egress Lighting (Contractor to Provide)

Documents may be examined/requested by contacting Mr. John Worsham at 706-859-3051 or at jworsham@chattooga.k12.ga.us. Additionally, PDFs of documents will be provided at no cost. Only complete sets will be provided for download.

Chattooga County School District (hereafter referred to as School District) plans to select the construction company with the lowest and most responsive bid, to enter into a contract for the construction of the above referenced project.

The procedures for public works construction contracts, as established by the Georgia Local Government Public Works Construction Law O.C.G.A., and 36-91-1 shall be followed. Final selection will be made in accordance with the policies and administrative directives of the School District and any other statutory provisions.

Contractors shall comply with, and shall require all subcontractors to comply with, all provisions of the "Georgia Security and Immigration Compliance Act," O.C.G.A 13-10-9. Contractors shall complete the attached "**Vendor Packet**" and submit with their bid, along with a current Certificate of Liability and W-9. If applicable, contractors shall require all subcontractors to complete the attached "**Vendor Packet**" as well. Subcontractor agreements may be submitted after contractor selection, but they must be submitted prior to contract.

Responses must be received by Chattooga County Board of Education, Superintendent's Office, located at 33 Middle School Road, Summerville, Georgia 30747, on or before **2:00 PM, Eastern Standard Time, on June 17, 2021**. After which time and date, they will no longer be accepted. Late responses will be returned unopened and will not be considered. To be accepted, all responses must be submitted in a sealed package marked "**Bid for Chattooga High School Football Stadium Lighting, Summerville, Georgia.**" Six copies of each proposal must be forwarded to or delivered to:

Mr. John Worsham
Chattooga County School District
33 Middle School Road
Summerville, Georgia 30747

Oral or telegraphic (including FAX) responses are **NOT** acceptable.

Project selection timeline:

Public Announcement:	<u>5/20/21</u>
Pre-Bid Meeting:	<u>6/3/21 @ 2:00 PM</u>
Proposals Due:	<u>6/17/21@2:00 PM</u>
Committee Evaluation:	<u>6/17/21</u>
Interviews (if deemed necessary):	<u>6/22/21</u>
Board Approval:	<u>6/24/21</u>
Award Notification:	<u>6/25/21</u>

Please direct all questions regarding the project and the program it represents to:

Mr. John Worsham
Chattooga County School District
706-859-3051
jworsham@chattooga.k12.ga.us

The pre-bid meeting will be held at Chattooga High School Football Stadium located at 989 Highway 114, Summerville, Georgia on 6/03/2021 at 2:00 PM. Immediately following the meeting, a walking tour of the football stadium will be conducted. Interested proposers are encouraged to send only one representative to this meeting to limit the number of visitors to the school during COVID-19 conditions.

Additional site visits to inspect the site can be arranged by contacting Mr. John Worsham at 706-859-3051. It is the responsibility of the respondent to arrange and conduct any site visits necessary to familiarize themselves with existing conditions.

The School District reserves the right to select or reject any and all responses as a result of this Bid Request. The School District is not liable for any costs incurred by any person or firm responding to this Project.

Chattooga High School

Little Big Horn
Football Stadium

Summerville, Georgia

SECTION 16526 – SPORTS FIELD LIGHTING

PART 1 – GENERAL

1.1 SUMMARY

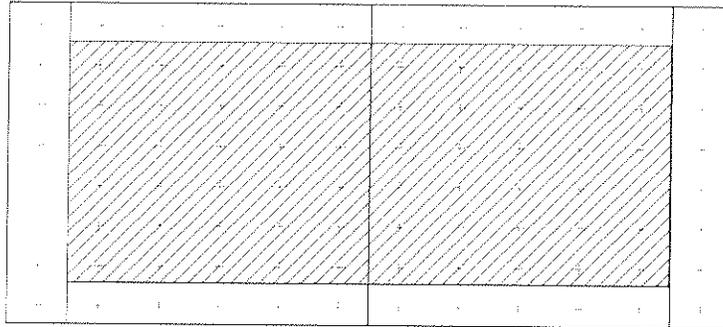
- A. Work covered by this section of the specifications shall conform to the contract documents, engineering plans as well as state and local codes.
- B. The purpose of these specifications is to define the performance and design standards for Chattooga High School in Summerville, GA. The manufacturer / contractor shall supply lighting equipment to meet or exceed the standards set forth by the criteria set forth in these specifications.
- C. The sports lighting will be for the following:
 - 1. Football Field – 360'x160'
 - 2. Emergency Egress Lighting (Contractor to provide)
- D. The primary goals of this sports lighting project are:
 - 1. Life Cycle Cost: In order to reduce the operating budget, the preferred lighting system shall be energy efficient and cost effective to operate.
 - 2. Highest Quality Lighting: It is a goal of this project to assure the Football Field and Track are lighted to the highest quality. All illuminance averages, minimums, critical minimums, and uniformities must be met.
 - 3. Guaranteed Light Levels: Selection of appropriate light levels impact the safety of the players and the enjoyment of spectators. Therefore, the lighting system shall be designed such that the light levels specified are guaranteed for a period of 25 years.

1.2 LIGHTING PERFORMANCE

A. Performance Requirements: Playing surfaces shall be lit to a target **average illuminance** and target **minimum illuminance** levels and uniformities as specified in the chart below. Horizontal lighting calculations shall be developed, and field measurements taken on the grid spacing with the minimum number of grid points specified below. Measured average illumination level shall be in accordance with IESNA RP-6-01.

Area of Lighting	Guaranteed Average Horizontal Light Levels	Maximum to Minimum Uniformity Ratio	Minimum Level – Entire Field	Critical Minimum Level	Grid Points	Grid Spacing
Football Field 360'x160'	50 FC	1.46:1	40 FC	50 FC (See Fig 1)	96	30' x 20'

Figure 1: Football Critical Minimum Zones (minimum 50 FC within the shadowed area below)



1. The required system will utilize 1200w (white light) LED sports lighting fixtures. RGB LED Fixtures will utilize NEMA 3, 660w.
 - A. Luminaire Mounting Heights: To ensure proper aiming angles for reduced glare and to provide better playability, the fixture mounting height on all existing poles to be re-used shall be 80' as shown on plans regardless of elevation.
 - B. Spill Light: maximum horizontal light level 150' from track shall not exceed 1 footcandles. Up lighting will not be approved.

1.3 LIFE CYCLE COSTS

- A. Energy Consumption: The MAX kWh consumption for the entire field lighting system shall be 57.2 KW or less.

1.4 25-YEAR TOTAL COVERAGE WARRANTY

Manufacturer shall provide a 25-year "total coverage warranty" to the owner for complete peace of mind at no out-of-pocket cost.

Warranty shall cover and include:

- Total system coverage, lights, drivers, etc.
- All labor
- Lifts, crane other equipment required for repair
- All parts will be supplied by manufacturer at no cost to owner
- Light levels are guaranteed for full 25-year period
- Fixture aiming and mounting is guaranteed

Warranty shall not cover:

- Acts of God (flood, lightning, tornado, hurricane, etc)
- Vandalism
- Non-compliant power conditions

Conditions of Service:

- Adequate, pre-determined egress/ingress is required for heavy service equipment
- Safe working environment for crews

Response Time:

- Normal non-emergency service work will be scheduled within owner's requirements
- Emergency service response will occur within a 24-hour period

Warranty is intended for normal usage of the lighting system that would be installed on a grade school, high school sports venue, charter schools, parks and recreation, college level or other venue with normal use considerations.

1.5 DELIVERY TIMING

- A. Equipment On-Site: The equipment must be on-site 6-8 weeks from receipt of approved submittals and receipt of complete order information.

1.6 SUBMITTAL REQUIREMENTS

- A. Product: Qualite's GameChanger Q-LED™ System or similar product. All substitutions must provide a complete submittal package for approval as outlined in Submittal Information at the end of this section at least 7 days prior to bid closing. Special manufacturing to meet the standards of this specification may be required. An addendum will be issued prior to bid listing any other approved lighting manufacturers and designs.
- B. Design Approval: The owner / engineer will review pre-bid shop drawings from the manufacturers to ensure compliance to the specification. If the design meets the design requirements of the specifications, a letter will be issued to the manufacturer indicating approval for the specific design submitted.

PART 2 – PRODUCT

2.1 LIGHTING SYSTEM CONSTRUCTION

- A. System Description: Lighting system shall consist of the following:
1. Existing poles to be re-used
 2. Galvanized steel light stanchion or crossarm assemblies with enclosed wireways. No exposed wiring will be allowed.
 3. All poles shall have Rotary Disconnects for maintenance purposes
 4. All Luminaires shall utilize TIR lenses to improve efficiency and control unwanted glare and shall all be pre-aimed and pre-mounted on the light stanchion or crossarm. All luminaire wire connections shall be terminated prior to shipment. Reflective lighting technology and up lighting will not be approved.
 5. CRI shall be greater than 80
 6. CCT shall be 5700K

7. Driver/Distribution Cabinet to be located approximately 10' above pole base. Manufacturer will remote all other supporting electrical equipment in NEMA 3R enclosures galvanized, powder coated and mounted approximately 10' above grade. The enclosures shall include distribution and fusing for each luminaire. Safety disconnect per circuit for each pole structure will be located within the enclosure assembly. Driver surge protection of 20 ka and separate surge protection of 20 ka in cabinet connected to incoming power. All surge protectors must have self, re-setting modules installed in surge protectors. A power conditioner is required for all cabinets.
 8. Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for fast, trouble-free installation
- B. Manufacturing Requirements: All components shall be designed, manufactured and UL or ETL approved as a system. All luminaires, wire harnesses, ballast and other enclosures shall be factory assembled, aimed, wired and tested.
- C. Durability: All exposed components shall be constructed of corrosion resistant material and/or coated to help prevent corrosion. All exposed steel shall be hot dip galvanized per ASTM A123. All exposed hardware and fasteners shall be stainless steel of at least 18-8 grade, passivated and polymer coated to prevent possible galvanic corrosion to adjoining metals. All wiring shall be enclosed within the crossarms, pole, or electrical components enclosure.
- D. Safety: All system components shall be UL or ETL Listed for the appropriate application.
- E. Electric Power Requirements for the Sports Lighting Equipment:
1. Electric power: 120/208 Volts, 3 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.

2.2 CONTROL SYSTEM

Mobile and remote controls should be integrated into a control station with multiple presets and individual light zone controls. The control system shall include the following features:

- A. System shall be remotely controlled via computer or mobile device through the use of a downloadable app with cellular connectivity or similar platform.
- B. Shall be capable of scheduling simple on and off times and dimmed scene control.
- C. Network shall not require internet access for on-site control and shall allow for system setup and configuration through a mobile friendly Wi-Fi interface.
- D. Shall utilize a user-friendly Dashboard
- E. Shall utilize a user-friendly Scheduling Calendar
- F. Multi-zone, behaviors, events, scheduling capabilities
- G. Include sunrise and sunset scheduling capability driven by latitude and longitude
- H. Shall include Standard 25%, 50%, 75%, and 100% dim presets, AND continuous dimming capability
- I. Site controller shall be composite constructed and NEMA 3R rated

2.3 ALTERNATE SYSTEM REQUIREMENTS

- A. Compliance to Specifications: Acceptance of a bid alternate does not negate the contractor and lighting manufacturer's responsibility to comply fully with the requirements of these specifications. Any exceptions to the specifications must be clearly stated in the prior approval submittal documents.

Requirements shall be submitted at least 7 days prior to bid closing for alternates. No Submittals will be accepted after that date.

Failure to provide any of the following information at bid time will be grounds for rejection of bid. Each item listed below shall be provided in the form of clear and concise statements and/or plans and drawings, which can be easily read and clearly interpreted. Each item shall also be clearly numbered to correspond with the following list. All items shall be assembled in the order indicated and secured or bound in a neat and orderly fashion for easy use and reference.

- 1) Written copy of manufacturer's warranty meeting specifications
- 2) A computer derived lighting layout showing guaranteed, maintained, point-by-point footcandle levels on playing surface.
- 3) Lighting plan indicating:
 - Aim Points
 - Lamp lumens used for design
 - Written statement of average footcandle levels
 - Written statement of Critical Minimum levels
 - Written statement of uniformity ratio
 - Written statement showing the individual lowest target points value
 - Technical specifications for all equipment for the bid
 - 25-Year Light level guarantee letter
 - 25-Year Warranty letter

PART 3 – EXECUTION

3.1 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 RP-6-01, Appendix B.
- B. Correcting Non-Conformance: If the actual performance levels including average footcandles, critical minimum footcandles, uniformity ratios, and maximum kilowatt consumptions are not in conformance with the requirements of the performance specifications and submitted information, the Manufacturer shall be liable to any or all of the following:
1. Manufacturer shall at his expense provide and install any necessary additional fixtures to meet the minimum lighting standards. The Manufacturer shall also either replace the existing poles to meet the new wind load (EPA) requirements or verify by certification by a licensed structural engineer that the existing poles will withstand the additional wind load.
 2. Manufacturer shall minimize the Owner's additional long-term fixture maintenance and energy consumption costs created by the additional fixtures by reimbursing the Owner the amount of \$1,000.00 (one thousand dollars) for each additional fixture required.

SUBMITTAL INFORMATION

Design Submittal Data Checklist and Certification

All items listed below are mandatory, shall comply with the specification and be submitted 7 days prior to bid.

Included YES OR NO	Tab	Item	Description
	A	Letter/ Checklist	Listing of all information being submitted must be included on the table of contents. List the name of the manufacturer's local representative and his/her phone number. Signed submittal checklist to be included.
	B	On Field Lighting Design	Lighting design drawing(s) showing: a. Field Name, date, file number, prepared by, and other pertinent data b. Outline of field(s) being lighted, as well as pole locations referenced to the center of the field (x & y). Illuminance levels at grid spacing specified c. Pole height, number of fixtures per pole, as well as luminaire information including wattage, lumens and optics d. Height of meter above field surface e. Summary table showing the number and spacing of grid points; average, minimum and maximum illuminance levels in foot candles (fc); uniformity including maximum to minimum ratio, coefficient of variance and uniformity gradient; number of luminaires, total kilowatts, average tilt factor; light loss factor.
	C	Off Field Lighting Design	Lighting design drawings showing spill light levels in footcandles as specified in section 1.2 B
	D	Critical Minimum Levels	Provide photometric computer calculations showing proposed system meets all Critical Minimum Light Levels as specified in Section 1.2
	E	Life Cycle Cost calculation	Document life cycle cost calculations as defined in the specification. Identify energy costs for operating the luminaires, maintenance cost for the system including spot lamp replacement, and group relamping costs. All costs should be based on 30 Years.
	F	Luminaire Aiming Summary	Document showing each luminaire's aiming angle and the poles on which the luminaires are mounted. Each aiming point shall identify the type of luminaire.
	G	TIR Lensing	Fixture utilizes TIR lensing technology to improve fixture efficiency and control unwanted glare
	H	Performance Guarantee	Provide performance guarantee including a written commitment to undertake all corrections required to meet the performance requirements noted in these specifications at no expense to the owner. Per warranty section.
	I	Warranty	Provide written 25-year warranty information including all terms and conditions.
	J	Product Information	Complete set of product brochures for all components, including a complete parts list and UL Listings.
	K	Non- Compliance	Manufacturer shall list all items that do not comply with the specifications.
	L	Compliance	Manufacturer shall sign off that all requirements of the specifications have been met at that the manufacturer will be responsible for any future costs incurred to bring their equipment into compliance for all items not meeting specifications and not listed in item N – Non-Compliance

Manufacturer: _____

Signature: _____

Contact Name: _____

Date: ____/____/____

Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1)

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of Chattooga County Schools, has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number

Date of Authorization

Name of Contractor

Name of Project

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, ____, 20__ in _____(city), _____(state).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE _____ DAY OF _____, 20__.

NOTARY PUBLIC

My Commission Expires:

Subcontractor Affidavit under O.C.G.A. § 13-10-91(b)(3)

By executing this affidavit, the undersigned subcontractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract with (NAME of Contractor): _____ on behalf of the Chattooga County School system has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned subcontractor will continue to use the federal work authorization program throughout the contract period and the undersigned subcontractor will contract for the physical performance of services in satisfaction of such contract only with sub-subcontractors who present an affidavit to the subcontractor with the information required by O.C.G.A. § 13-10-91(b). Additionally, the undersigned subcontractor will forward notice of the receipt of an affidavit from a sub-subcontractor to the contractor within five business days of receipt. If the undersigned subcontractor receives notice that a sub-subcontractor has received an affidavit from any other contracted sub-subcontractor, the undersigned subcontractor must forward, within five business days of receipt, a copy of the notice to the contractor. Subcontractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number

Date of Authorization

Name of Subcontractor

Name of Project

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, ____, 20__ in _____ (city), _____ (state).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE _____ DAY OF _____, 20__.

NOTARY PUBLIC

My Commission Expires:

IMMIGRATION AND SECURITY FORM
Contractors and Individuals Performing Services for
Chattooga County BOE

Any contractor who contracts with Chattooga County BOE for the performance of services in which the fee for services or labor exceeds \$2499.00 must comply with the Federal work authorization program by signing and submitting an E-Verify Contractor Affidavit to Chattooga County BOE.

1. The contractor has no employees and no intent to hire employees in which case the contractor must present an approved state issued identification card or driver's license. The driver's license or identification card is acceptable only if it is issued by a state that verifies lawful immigration status prior to issuance; or
2. The contract is with an individual licensed under Title 26, Title 43 or the State Bar of Georgia who is in good standing and is performing the service. Subcontractors are held to the same requirement. A copy of the Georgia License issued under Title 26, Title 43 or the State Bar of Georgia must be submitted with this form.

In order to insure compliance with the Immigration Reform and Control Act of 1986 (IRCA), Pub.L. 99-603 and the Georgia Security and Immigration Compliance Act O.C.G.A. § 13-10-90 et. seq., Contractor must certify compliance by initialing on of the sections below:

_____The Contractor has employees and has attached a completed Contractor Affidavit (Form A). Subcontractor Affidavit (Form B) and Sub-subcontractor Affidavit (Form C) area also attached if applicable. W-9 request for Taxpayer Identification Number is also attached.

_____The Contractor has no employees and has attached a copy of a valid driver's license or other approved state-issued identification card. W-9 request for Taxpayer Identification Number is also attached.

_____The Contractor is licensed under Title 26, Title 43 or the State Bar of Georgia who is in good standing and is performing the service. Copy of Georgia license is attached. W-9 request for Taxpayer Identification Number is also attached.

Signature

Title

By signing above, you are certifying that the representations made herein are true and correct.

Firm Name: _____

Street/Mailing Address: _____

City, State, Sip Code: _____

Telephone Number: _____

Email Address: _____

Sworn to and subscribed before me

This ____ day of _____, 20____.

Notary Public
(Seal)