

Form Pur. 1
 REQUEST FOR QUOTATION
 BIDS TO BE SUBMITTED TO:
 DEPARTMENT OF PURCHASES
 27 WEST MAIN STREET, ROOM 401
 NEW BRITAIN, CT 06051

Bid No. 3517

Issued: February 2, 2010

Page 1 of 17 Pages

Bid No. 3517

Date Submitted _____

Delivery: _____ days after receipt of order

Terms: Cash Discount _____ % 30 Days

Net Cash _____ Days

Bidder _____

Street _____

City _____ ST _____ Zip _____

Signature and Title _____

(Printed name of signer)

Bidder's Telephone Number _____

Bidder's Email Address _____

Prices Quoted Must be F.O.B. 180 John Karbonic Way

New Britain, CT 06051

Date of Bid Opening February 24, 2010 Time 11:00 AM

Delivery Required _____

Jack Pieper
 Purchasing Agent

Amount of Bid Bond 10%

ITEM NO.	DESCRIPTION OF COMMODITIES AND/OR SERVICES	UNIT PRICE
1	<p><u>Beehive Stadium Lighting Project</u></p> <p style="text-align: right;"><u>Total Bid Pricing</u> \$ _____</p> <p style="text-align: right;"><u>Alternate Pricing</u> \$ _____</p> <p>Non-Mandatory Pre-Bid Conference to be held at Beehive Stadium on February 9, 2010, 180 John Karbonic Way, New Britain CT at 10:00AM. It is highly recommended that you attend</p> <p>****PLEASE SUBMIT BIDS IN DUPLICATE****</p> <p>Duration of the Bid Price (How long will bid price be held for) Number of Days? _____</p> <p>THE FOLLOWING MUST BE EXECUTED/COMPLETED AND RETURNED: 1. Form Pur. 1 (Request for Quotation). 2. Notices to Prospective Bidders, Pages 14-17. 3. A Bid Bond is required for all goods or services that are \$25,000.00 or greater.</p> <p><u>BIDS WILL NOT BE ACCEPTED AFTER THE STATED BID OPENING DATE AND TIME.</u></p> <p>PLEASE NOTE THAT BIDS SUBMITTED CANNOT BE FAXED OR E-MAILED.</p>	

**IMPORTANT - READ CAREFULLY BEFORE MAKING BID: CONDITIONS, BID TERMS AND INSTRUCTIONS
CITY OF NEW BRITAIN CONNECTICUT -DEPARTMENT OF PURCHASES**

1. All bids must be submitted on and in accordance with this form. If more space is required to furnish a description of the commodities and/or services offered or delivery terms, the Bidder may attach a letter hereto which will be made a part of the bid. All bids must be submitted in duplicate in sealed envelopes clearly identified with the appropriate bid number.
 2. Bids and amendments thereto, or withdrawal of bids submitted, if received by the City after the date and time specified for bid opening, will not be considered. If any person contemplating the submission of a bid on this invitation is in doubt as to the true meaning of any part of the specifications, plans or other documents, he should submit a written request for an interpretation thereof to the City Purchasing Agent at least 10 days prior to scheduled bid opening. An interpretation of the bid invitation documents will be made only by addendum duly issued to each person receiving a bid invitation and/or holding plans. The City of New Britain will not be responsible for explanations or interpretations of bid invitation documents except as issued in accordance herewith. Note regarding addenda: Addenda shall be mailed via certified mail to all vendors listed on the City's list of plan holders. Addenda will be made available to those vendors downloading specifications from a website at that same website.
 3. Prices should be stated in units of quantity specified, with packing and delivery to destination and all other incidental charges included.
 4. The time of proposed delivery must be stated in definite terms. If time of delivery for different commodities varies, the Bidder shall so state.
 5. Samples, when requested, must be furnished free of expense to the City, and if not destroyed, will, upon request, be returned at the Bidder's risk and expense.
 6. Price Quotations must be stated in units of quantity specified, show unit pricing, include packing and delivery to destination and all other incidental charges included in the grand total price or bid may be rejected. In case of error in the extension of prices, the unit price shall govern.
 7. Unless qualified by the provision "NO SUBSTITUTE", the use of the name of a manufacturer, brand, make or catalog designation in specifying an item does not restrict Bidders to the manufacturer, brand, make or catalog designation identification. This is used simply to indicate the character, quality and/or performance equivalence of the commodity desired, but the commodity on which bids are submitted must be of such character, quality and/or performance equivalence that it will serve the purpose for which it is to be used equally as well as that specified. In submitting bids on a commodity other than as specified, Bidder shall furnish complete data and identification with respect to the alternate commodity he proposes to furnish. The City reserves the right to make final determination of equivalency.
- Consideration will be given to bids submitted on alternate commodities to the extent that such action is deemed to serve best the interests of the City. If the Bidder does not indicate that the commodity he proposed to furnish is other than specified, it will be construed to mean that the Bidder proposes to furnish the exact commodity described.
8. Bidder declares that the bid is not made in connection with any other Bidder submitting a bid for the same commodity or commodities, and that the bid is bona fide and is in all respects fair and without collusion or fraud. Abstracts of bids received are prepared for distribution by the Department of Purchases.
 9. Award will be made to the lowest responsible qualified Bidder, who shall be determined in accordance with and pursuant to Section 2-578, inclusive of the Purchasing Ordinances City of New Britain. The quality of the articles to be supplied, their conformity with the specifications, their suitability to the requirements of the City, and the delivery terms will be taken into consideration in making the award.
- 10. Section 2-578, item 10, allows up to a ten (10) percent differential in favor of resident Bidders for all purchases and contracts except construction and/or capital improvements. Any city-based bidder, which has submitted a bid, shall be awarded the bid provided that such city-based bidder agrees to accept the award of the bid at the amount of the low bid. In a situation where no city-based bidder submits a bid or where a city-based bidder does not come within the ten (10) percent or chooses not to meet the lowest bid however, there are bids submitted by companies based in Connecticut and other companies based outside Connecticut, in that event the Purchasing Agent shall allow a five (5) per cent differential in favor of the Connecticut based bidder. If more than one Connecticut based bidder submits a bid of not more than five (5) percent higher than the low bid and has agreed to accept the award of the bid at the amount of the low bid, the bidder who has submitted the lower/lowest bid shall be awarded the bid. A "Connecticut based bidder" shall mean a business with a legal principle place of business located with in the State of Connecticut. A business shall not be considered a Connecticut based bidder unless evidence satisfactory to the purchasing agent has been submitted with the bid documents has a bona fide principle place of business within the State of Connecticut. For construction projects or capital improvements the lowest bidder shall be determined in the following order unless otherwise prohibited by applicable state and federal legislation. (1) For construction projects or capital improvements involving a total contract price of one million dollars (\$1,000,000.) or less any city-based bidder that submitted a low bid not more than eight (8) percent higher than the lowest bid, provided such city-based bidder agrees to accept the award of the bid at the lowest bid amount. (2) For construction projects and capital improvements of involving a total contract price of more than one million dollars (\$1,000,000.) but less than five million dollars (\$5,000,000.) any city-based bidder that submitted a low bid not more than four (4) percent higher than the lowest bidder, provided such city -based bidder agrees to accept the award of the bid at the lowest bid amount. For construction projects and capital improvements involving a total contract price of over five million dollars (\$5,000,000.) any city-based bidder that submitted a low bid not more that two (2) percent higher than the lowest bid, provided such city-bases bidder agrees to accept the award of the bid at the lowest bid amount.**
11. The City reserves the right to award by item, groups of items or total bid; to divide the award; to reject any and all bids, in whole or in part, and to waive any informality or technical defects if, in its judgment, the best interests of the City will be served.
 12. Cash discounts may be offered by bidder for prompt payment of bills, but such discount will not be taken into consideration in determining the low Bidder but will be taken into consideration in awarding tie bids. The discount period will be computed from the date delivery is accepted at destination or from date correct invoice is received by the consignee, whichever is the later date.
 13. Acceptance of a bid by the City is not an order to ship or a commitment to purchase the goods or services from the bidder.

14. Each bid is received with the understanding that the acceptance in writing by the City of the offer to furnish any or all of the commodities and/or services described therein shall constitute a contract between the Bidder and the City, which shall bind the Bidder on his part to furnish and deliver the articles quoted at the prices stated and in accordance with the conditions of said accepted bid.

15. Any equipment delivered must be standard new equipment, latest model, except as otherwise specifically stated in bid. Where part or nominal appurtenances of equipment are not described, it shall be understood that all the equipment and appurtenances which are usually provided in the manufacturer's stock model shall be furnished.

16. In event of default by the Bidder, the City reserves the right to procure the commodities and/or services from other sources and hold the Bidder liable for any excess cost occasioned thereby. If, however, public necessity requires use of materials or supplies not conforming to the specifications, they may be accepted and payment therefor shall be made at a proper reduction in price.

17. Where a bid bond is required, such bond must accompany the bid; it must be executed by a surety company licensed to do business in the State of Connecticut; or it may be in the form of a cashier's or certified check made out to the "Treasurer, City of New Britain". Said bond or check in the amount of Ten Percent (10%) of the total bid amount shall be given as security that, if the bid is accepted, a contract will be entered into and the performance guarantee properly secured.

18. The bid bond, cashier's or certified check shall be forfeited and the principal amount of said bid bond shall be paid to the City or said check shall be surrendered to the City as the agreed amount of liquidated damages in case of failure of Bidder to enter into contract as above described. The bid bond or check will be released or returned to the Bidder in case his bid is rejected. Bid bonds or checks from the three lowest bidders will be held for a period of 60 days after the bids are opened.

19. All contracts for goods or services where the contract price is more than \$50,000.00 will require a performance bond that must be executed by a surety company licensed to do business in the State of Connecticut in accordance with and pursuant to Section 2-702 inclusive of the Purchasing Ordinances of the City.

20. The Bidder guarantees to save the City, its agents or employees, harmless from liability of any nature or kind, for use of any copyrighted or uncopyrighted compositions, secret process, patented or unpatented invention, articles or appliances furnished or used in the performance of the contract, or which the Bidder is not the patentee, assignee or licensee.

21. The Bidder, where applicable, agrees to pay its labor force Prevailing Wage Rates and to comply to all Laws, Regulations and Ordinances regarding these wage rates and the recording of them set forth by the Connecticut Department of Labor and the City of New Britain Connecticut.

The City of New Britain, through its Purchasing Agent, is seeking competitive bids for the following commodity:

Beehive Stadium Lighting Project

Specifications for the product required follow. The Purchasing Agent reserves the right to divide the award and the right to reject any and all bids, in whole or in part, as best serves the interests of the City of New Britain. *SEALED BIDS ARE TO BE SUBMITTED BY THE DATE AND TIME SPECIFIED ON THE COVER SHEET TO: CITY OF NEW BRITAIN PURCHASING DEPT., ROOM 401, 27 WEST MAIN ST., NEW BRITAIN, CT 06051. BID ENVELOPE IS TO BE CLEARLY MARKED ON THE OUTSIDE WITH BID NUMBER AND NAME.*

NOTICE TO BIDDERS:

1. All delivery and any incidental charges must be included in the pricing. Delivery point is: New Britain, CT. Stated quantities are estimates only; no guarantee is given, express or implied, as to actual quantities to be ordered.

2. **The City of New Britain is exempt from the payment of taxes imposed by the federal government and/or the State of Connecticut; such taxes shall not be included in the bid prices.**

3. **The City of New Britain will hold 5% payment of the total contract price to the contractor awarded this bid for one (1) year to make sure the lighting system operates properly and all work is per formed per bid specifications.**

4. **Connecticut Prevailing Wage Rates apply to this project.**

5. **Manufacturer must be Musco Sport lighting to conform with other City Park's lighting systems.**

6. Questions regarding the Purchasing process may be directed to Jack Pieper, Purchasing Agent, (860) 826-3402. Questions regarding technical specifications may be directed to Erik Barbieri, New Britain Park and Recreation Department, (860) 826-3453.

7. Vendor insurance requirements are as follows:

Vendor shall agree to maintain in force at all times during which services are to be performed the following coverages placed with company(ies) licensed by the State of Connecticut which have at least an "A-" VIII policyholders rating according to Best Publication's latest edition Key Rating Guide.

		(Minimum Limits)
General Liability*	Each Occurrence	\$1,000,000
	General Aggregate	\$2,000,000
	Products/Completed Operations	\$2,000,000
Auto Liability*	Aggregate	
	Combined Single Limit	
Umbrella*	Each Accident	\$1,000,000
	Each Occurrence	\$1,000,000
(Excess Liability)	Aggregate	\$1,000,000
Professional Liability	Each Occurrence	\$1,000,000
	Aggregate	\$ 1,000,000

CITY OF NEW BRITAIN
PUBLIC BID NO. 3517

* "The City of New Britain and Consolidated School District" shall be named as "Additional Insured". Coverage is to be provided on a primary, noncontributory basis.

If any policy is written on a "Claims Made" basis, the policy must be continually renewed for a minimum of two (2) years from the completion date of this contract. If the policy is replaced and/or the retroactive date is changed, then the expiring policy must be endorsed to extend the reporting period for claims for the policy in effect during the contract for two (2) years from the completion date.

Workers' Compensation and WC Statutory Limits

Employers' Liability	EL Each Accident	\$100,000
	EL Disease Each Employee	\$100,000
	EL Disease Policy Limit	\$500,000

Original, completed Certificates of Insurance must be presented to the Acting Purchasing Agent prior to purchase order/contract issuance. Vendor agrees to provide replacement/renewal certificates at least 60 days prior to the expiration of the policy. Should any of the above described policies be cancelled before the expiration date, written notice must be made to the City 30 days prior to cancellation.

Purchaser shall agree to submit proof of the following coverages placed with company(ies) licensed by the State of Connecticut which have at least an "A-" VIII policyholders' rating according to Best Publication's latest edition Key Rating Guide.

8. **HOLD HARMLESS AGREEMENT:** The Contractor, its agents and assigns shall indemnify and hold harmless the City of New Britain, including but not limited to, its elected officials, its officers, and agents, ("the City") from any and all claims made against the City, including but not limited to, damages, awards, costs and reasonable attorneys fees, to the extent any such claim directly and proximately results from the wrongful willful or negligent performance of services by the Contractor during the Contractor's performance of this Agreement or any other Agreements of the Contractor entered into by reason thereof. The City agrees to give the Consultant prompt notice of any such claim and absent a conflict of interest, an opportunity to control the defense thereof.

9. The City may consider as irregular any bid on which there is an alteration of or departure from the Bid Forms hereto attached and at its option may reject the same. The City reserves the right to reject any Bid submitted that is not in full compliance with these Instructions to Bidders as being not responsive. The City also reserves the right to reject the Bid of any Bidder it considers not responsible.

10. The City may make such investigations as it deems necessary to determine the ability of the bidder to perform the work, and the Bidder shall furnish to the City all such information and data for this purpose as the City may request. The City reserves the right to reject any and all bids if evidence submitted by or investigation of such Bidder fails to satisfy the City that such Bidder is properly qualified to carry out the obligations of the Contract and to complete the work or delivery the items contemplated therein.

11. The City shall not be held responsible for any misspellings, typographical errors, omission or conflicting information within the bid documents. If the Bidder finds any within the bid documents, the Bidder should contact the Purchasing Agent requesting clarification.

SPECIFICATIONS:

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. Working hours at field to be coordinated with the Parks and Recreation Department's scheduled activities.
- B. The purpose of these specifications is to define the performance and design standards for New Britain Beehive Field in New Britain, CT. The manufacturer / contractor shall supply lighting equipment to meet or exceed the standards set forth by the criteria set forth in these specifications.
 - 1. The sports lighting will be for the Baseball Field
- C. 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. All maintenance costs shall be eliminated, and the field(s) should be proactively monitored to detect fixture outages over a 10 year life cycle. 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.

1.2 LIGHTING PERFORMANCE

- A. Performance Requirements: Playing surfaces shall be lit to an average constant light level and uniformity as specified in the chart below. Light levels shall be held constant for 10 years. 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 +/- 10% of predicted mean in accordance with IESNA RP-6-01, and measured at the first 100 hours of operation.

Area of Lighting	Average Constant Light Levels	Maximum to Minimum Uniformity Ratio	Grid Points	Grid Spacing
Infield	70 footcandles	1.5:1.0	25	30' x 30'
Outfield	50 footcandles	2.0:1.0	117	30' x 30'

1.3 LIFE CYCLE COSTS

- A. Energy Consumption: The average kWh consumption for the field lighting system shall be 87.6 or less.
- B. Complete Lamp Replacement: Manufacturer shall include all group lamp replacements required to provide 10 years of operation based upon 450 usage hours per year.
- C. Preventative and Spot Maintenance: Manufacturer shall provide all preventative and spot maintenance, including parts and labor for 10 years from the date of equipment shipment. Individual lamp outages shall be repaired when the usage of any field is materially impacted. Owner agrees to check fuses in the event of a luminaire outage.
- D. 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 manufacturer shall notify the owner of outages within 24 hours, or the next business day. The controller shall determine switch position (Manual or Auto) and contactor status (open or closed).
- E. 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.

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.

- F. Management Tools: Manufacturer shall provide a web-based database of actual field usage and provide reports by facility and user group.
- G. Communication Costs: Manufacturer shall include communication costs for operating the controls and monitoring system for a period of 10 years.
- H. 10-Year Life Cycle Cost: Manufacturer shall submit 10-year life cycle cost calculations as follows. Equipment price and total life cycle cost shall be entered separately on bid form.

a.	Luminaire energy consumption # luminaires x ___kW demand per luminaire x \$.15 kWh rate x 450 annual usage hours x 10 years		
b.	Cost for spot relamping and maintenance over 10 years Assume 7.5 repairs at \$500 each if not included with the bid	+	
c.	Cost to relamp all luminaires during 10 years 450 annual usage hours x 10 years / <u>lamp replacement hours</u> x \$125 lamp & labor x # fixtures if not included with the bid	+	
d.	Extra energy used without base bid automated on/off control system \$ Energy consumption in item a. x 15% if control system not included with the bid	+	
	TOTAL 10-Year Life Cycle Operating Cost	=	

1.4 WARRANTY AND GUARANTEE

- A. 10-Year Warranty: Each manufacturer shall supply a signed warranty covering the entire system for 10 years. Warranty shall guarantee light levels; lamp replacements; system energy consumption; monitoring, maintenance and control services, spill light control and structural integrity. Manufacturer shall maintain specifically-funded financial reserves to assure fulfillment of the warranty for the full term. Warranty may exclude fuses, storm damage, vandalism, abuse and unauthorized repairs or alterations.

1.5 DELIVERY TIMING

- A. Equipment On-Site: The equipment must be on-site 4-6 weeks from receipt of approved submittals and receipt of complete order information.

1.6 PRE-BID SUBMITTAL REQUIREMENTS

- A. Approved Product: Musco's SportsCluster Green™ System is the approved product. All substitutions must provide a complete submittal package for approval as outlined in Submittal Information at the end of this section at least 10 days prior to bid. 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 manufacturer's 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.

1.7 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.
- B. Light Level Requirements: Manufacturer shall provide computer models guaranteeing light levels on the field over 10 years. If a constant light level cannot be provided, a maximum Recoverable Light Loss Factor of 0.70 shall be applied to the initial light level design to achieve the following Initial and maintained light levels. For alternate systems, scans for both initial and maintained light levels shall be submitted.

Area of Lighting	Average Initial Light Levels	Average Target/Maintained Light Levels	Maximum to Minimum Uniformity Ratio	Grid Points	Grid Spacing
Infield	100 footcandles	70 footcandles	1.5:1.0	25	30' x 30'
Outfield	71.4 footcandles	50 footcandles	2.0:1.0	117	30' x 30'

- C. Revised Electrical Distribution: Manufacturer shall provide revised electrical distribution plans to include changes to service entrance, panel, and wire sizing.

PART 2 – PRODUCT

2.1 LIGHTING SYSTEM CONSTRUCTION

- A. System Description: Lighting system shall consist of the following:
1. Galvanized crossarm assembly for attachment to existing 80' structures.
 2. All luminaires shall be constructed with a die-cast aluminum housing or external hail shroud to protect the luminaire reflector system.
 3. Each B pole: Relamped with (18) 1500w lamps and every existing lens is to be cleaned.
 3. Manufacturer will remote all ballasts and supporting electrical equipment in aluminum enclosures mounted approximately 10' above grade. The enclosures shall include ballast, capacitor and fusing for each luminaire. Safety disconnect per circuit for each pole structure will be located in the enclosure.
 4. Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for fast, trouble-free installation.
 5. Controls and Monitoring Cabinet to provide on-off control and monitoring of the lighting system, constructed of NEMA Type 4 aluminum. Communication method shall be provided by manufacturer. Cabinet shall contain custom configured contactor modules for 30, 60, and 100 amps, labeled to match field diagrams and electrical design. Manual Off-On-Auto selector switches shall be provided.
- B. Manufacturing Requirements: All components shall be designed and manufactured 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. Pole mounting hardware to attach crossarms shall be hot-dip galvanized per ASTM 153. All exposed aluminum shall be powder coated with high performance polyester. All exterior reflective inserts shall be anodized, coated with a clear, high gloss, durable fluorocarbon, and protected from direct environmental exposure to prevent reflective degradation or corrosion. All wiring shall be enclosed within the crossarms, pole, conduit or electrical components enclosure.
- D. Lightning Protection: All structures shall be equipped with lightning protection meeting NFPA 780 standards. Contractor shall verify compliance or supply and install a ground rod of not less than 5/8" in diameter and 8' in length, with a minimum of 10' embedment. Ground rod should be connected to the structure by a copper main down conductor with a minimum size of #2 for poles with less than 75' mounting height and 2/0 for poles with more than 75' mounting height.
- E. Safety: All system components shall be UL Listed for the appropriate application.
- F. Electric Power Requirements for the Sports Lighting Equipment:
1. Electric power: 480 Volt, 3 Phase
 2. Contractor to use existing power to each pole and remove old fixtures and crossarms from A, C and D poles. Recycle the old lamps from all fixtures. B pole fixtures remain in use and will be relamped.

3.1.1 INSTALLATION

- A. Manufacturer's Instructions: Written instructions for the installation of the sports lighting equipment shall be provided by the manufacturer. The contractor shall review the instructions prior to beginning installation and review any areas of concern with the manufacturer.
- B. Manufacturer Representative: A qualified representative from the sports lighting manufacturer shall be available to provide installation guidance if required by the contractor.
- C. Handling of Equipment: The lighting equipment shall be handled in an appropriate manner to ensure safe installation and prevent damage to the equipment. Repair or replacement of damaged component shall be the responsibility of the installing contractor
- D. Rigging: Use the appropriated rated web fabric slings to lift components into position. Chains or cables shall not be allowed due to potential failure and damage to components.
- E. Provide labor and equipment to unload new equipment which will include skidded Electrical Component Enclosures, Boxed and skidded cartons of new wire harnesses, skidded luminaire assemblies, individually packaged luminaires.
 - i. Provide labor and equipment to remove existing 72 fixtures and removal of all materials form the A, C & D poles. This will include the recycling of lamps, & any other possible materials. The existing poles will be re-used.
 - ii. Unplug and dispose of the pole length wire harness.
- F. Provide the labor to assemble the new luminaire Assembly.
 - i. Verify that the letter-number identification on the luminaire carton corresponds to the proper location on the field aiming and existing pole.
 - ii. Removing shipping protection and match and attach each luminiare to its location on the crossarm by installing the luminaire knuckle into the mounting plate on the crossarm.
 - iii. For each luminaire tighten two captive mounting bolts with tools that are provided with the shipment.
 - iv. Installation of new luminaires should be in the following quantities:
 - A poles: 9 fixtures on each(18 total)
 - C and D poles: 10 fixtures on each(40 total)
- G. Provide labor and materials for new ballast boxes on existing pole (as needed). Any welds needed shall be cold galvanized . Connect to existing pole circuits at the each pole.
- H. Provide the labor to connect the factory-built pole wire harness from the Electrical Components Enclosure to the new fixtures .
- I. Provide the labor to fine tune any aiming required

- J. Clean-up: Upon completion of the work and before acceptance and final payment is made, the contractor shall clean and remove from the site of the work, surplus and discarded materials, temporary structures and debris of every kind. The contractor shall leave the site of work in a neat and orderly condition equal to that which originally existed. Surplus and waste materials removed from the site of the work shall be disposed of at locations satisfactory to the owner.
- K. Install Control Link cabinet and contactors near the existing service panel for the field and connect into existing system. In addition, the security lighting on the parking lot is to be connected into the Control Link System.
- L. Test all systems to be sure that they are properly functioning.

PART 3 – EXECUTION

4.1 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, in the opinion of the Owner or his appointed Representative, the actual performance levels including footcandles, uniformity ratios, and maximum kilowatt consumptions are not in conformance with the requirements of the performance specifications and submitted information, the Manufacturer or Contractor shall be liable to any or all of the following:
 - 1. *Manufacturer or Contractor shall at his expense provide and install any necessary additional fixtures to meet the minimum lighting standards. The Manufacturer or Contractor 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 or Contractor 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.
 - 3. Manufacturer or Contractor shall remove the entire unacceptable lighting system and install a new lighting system to meet the specifications.

5.1 Bid Alternate: As an alternate to the base bid, please include a price to remove old and install new breakers in existing power panel box.

SUBMITTAL INFORMATION- Alternate Manufacturers Only

Design Submittal Data Checklist and Certification

All items listed below are mandatory, shall comply with the specification and be submitted according to pre-bid submittal requirements

Included	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), or homeplate for baseball/softball fields. 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. f. Alternate manufacturers shall provide both initial and maintained light scans using a maximum 0.70 Light Loss Factor to calculate maintained values.
	C	Off Field Lighting Design	Lighting design drawings showing spill light levels in footcandles as specified in section 1.3 A.
	D	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 10 Years.
	E	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.
	F	Control and Monitoring	Manufacturer shall provide written definition and schematics for automated control system to include monitoring. They will also provide examples of system reporting and access for numbers for personal contact to operate the system.
	G	Electrical distribution plans	If bidding an alternate system, manufacturer must include a revised electrical distribution plan including changes to service entrance, panels and wire sizing, signed by a licensed Electrical Engineer in the state of Connecticut.
	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. Light levels must be guaranteed per specification for 10 years.
	I	Warranty	Provide written warranty information including all terms and conditions.
	J	Project References	Manufacturer to provide a list of project references of similar products completed within the past three years.
	K	Product Information	Complete set of product brochures for all components, including a complete parts list and UL Listings.
	L	Non-Compliance	Manufacturer shall list all items that do not comply with the specifications.
	M	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 Responsibilities:

- Clean all lens (glass) on installed fixtures.
- Take light level readings of game field upon completion of re-lamp with recently calibrated meter.
- Complete written report and submit to Parks and Recreation Department on results of light level readings.
- Dispose of old metal halide lamps in an environmentally friendly manner and in accordance with all applicable laws and codes.
- Contractor to use due care to minimize the damage to jobsite during the pole installation and relamping. Contractor to return site to pre-construction condition.
- Work must be completed by May 21, 2010.
- The Contractor will furnish all labor, materials, fixtures, equipment, accessories, services and tests necessary to properly install the lighting, make them operational and complete the work.

Required Bonds, Permits, Licenses and Documents

- A 10% Bid Bond is required when submitting this bid.
- The Bidder awarded this project is to provide Material and Performance Bonds for this job along with proof of insurance coverage.
- The Bidder must be State of Connecticut Licensed, Copy of their Electricians' license must be submitted with the bid documents.
- The Bidder is to provide references and the type of work performed with their submitted bid documents.
- Bidder awarded the contract to perform the work will be required to obtain and pay for all the necessary state and local permits.

Warranty and Guarantee

- The Contractor shall provide a 10-Year signed Warranty from Musco covering the entire system, excluding fuses and lamps, for 10 years from the date of shipment. Labor shall be included for 2 years. Lamps shall be warranted for 2 years for parts, and 1 year for labor. Warranty may exclude fuses, storm damage, vandalism, abuse and unauthorized repairs or alterations.

NON COLLUSIVE AFFIDAVIT OF BIDDERS

BID# 3517 - LIGHTING SYSTEMS UPGRADES AT BEEHIVE STADIUM

State of (_____);

County of (_____).

I state that I am the _____ of _____
(title) (name of firm)

and that I am authorized to make this affidavit on behalf of my firm, and its owners, directors, and officers. I am the person responsible in my firm for the price(s) and the amount of this Bid.

I certify that:

- (1) The price and amount on this Bid has been arrived at independently and without consultation, communication, or agreement with any other bidder.
- (2) Neither the price(s) nor the amount of this Bid and approximate price(s) nor approximate amount of this Bid has been disclosed to any other firm or person who is a Bidder and that no disclosure of these items will be made prior to the Bid opening.
- (3) No attempt has been or will be made to induce any firm or person to refrain from proposing on this Bid, or to submit a Bid higher than this Bid, or to submit any intentionally higher or non competitive Bid.
- (4) Neither the said Bidder nor any of its officers, partners, owners, representatives, employees or parties in interest, including this affidavit, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted or to refrain from Bidding in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit or cost element of the Bid price or the Bid price of any Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of New Britain, owner, or any person interested in the proposed Contract.
- (5) The Bid of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other non competitive proposal.

(6) I state that _____ understands and acknowledges that all
(name of my firm)

representations of this affidavit are material and important, and will be relied on by the City of New Britain in awarding a contract for which this is submitted. I understand and my firm understands that any misstatement in this affidavit is and shall be treated as fraudulent concealment from the City of New Britain of the true facts relating to the submission of Bids for this contract. That the City of New Britain also reserves the right to reject our Bid if failure to complete this document, have it notarized and submitted with our Bid documents.

The undersigned Bidder further certifies that this statement is executed for the purpose of including the City of New Britain to consider the Bid and make an award in accordance therewith.

Subscribe and Sworn to me this

_____ day of _____,
2009.

Legal Name of Bidder

Business Address

Signature and Title of Person

Notary Public
My Commission Expires

Date

NOTICE TO PROSPECTIVE BIDDERS
CERTIFICATION REQUIRED

The City of New Britain Code of Ordinances, Sec. 2-575, reads as follows:

Sec. 2-575. Rejection of bid where bidder is in default to city.

The agent shall not accept the bid of a contractor, who is in default on the payment of taxes, licenses or other monies due the city.

The agent shall include in the bid document a form to be executed by a bidder, certifying that said bidder is not in default on the payment of taxes, licenses or other monies due the city.

As used in this section, (1) a "principal" of a contractor shall mean an individual who is a director, an officer, an owner, a limited partner or a general partner; and (2) "default in the payment of taxes" shall mean the failure to pay taxes by the date such taxes are due and payable or the failure to be current with respect to a delinquent taxes payment schedule as set forth in a written agreement with the Tax Collector.

In accordance with this provision, prospective vendors make the following certification:

The principals, as defined above, of the entity submitting responses to Public Bid No. 3479 are: (Please type or print clearly and use additional pages if necessary).

1. Name: _____

Local Residence Address (if any) _____

Local Mailing Address (if any) _____

If a principal, as defined above, is in any local entity other than the entity submitting a response to this Public Bid listed above, state the entity or entity's name(s) and address(es):

Entity's Name _____

Local Mailing Address (if any) _____

NOTICE TO PROSPECTIVE BIDDERS
CERTIFICATION REQUIRED

2. Name: _____

Local Residence Address (if any) _____

Local Mailing Address (if any) _____

If a principal, as described above, is in any local entity other than the entity submitting a response to this Public Bid No. listed above, state the entity or entity's names(s) and address(es):

Entity's Name _____

Local Mailing Address (if any) _____

3. Name: _____

Local Residence Address (if any) _____

Local Mailing Address (if any) _____

If a principal, as defined above, is in any local entity other than the entity submitting a response to this Public Bid No. listed above, state the entity or entity's name(s) and address(es):

Entity's Name _____

Local Mailing Address (if any) _____

Signature of Principal and their Title of the Entity Submitting this Bid hereby indicates by signing this Notice to Prospective Bidder that the Entity or its Principles as listed herein are not in default on the payment of taxes, licenses, or other monies due to the City of New Britain as of the date of this bid solicitation.

_____ Date: _____

Review by Tax Collector: (To be completed by the City of New Britain's Tax Collector only if the Bidder is awarded the contract as the result of this Public Bid)

By: _____ Date: _____



City of New Britain
New Britain, Connecticut 06051

*"New Britain:
A City for
All People"*

27 WEST MAIN ST., NEW BRITAIN, CT 06051

PHONE: (860) 826-3434

FAX: (860) 612-4204

E-MAIL: jpieper@ch.ci.new-britain.ct.us

Date: _____, 2010

Subject: Beehive Stadium Relamping Public Bid No. 3517

To Whom It May Concern:

Specifications for subject bid solicitation are enclosed for your review and response.

If you do not submit a bid, we request that you complete the bottom portion of this letter and return to the writer's attention. This shall assist the City of New Britain in maintaining accurate bidders' lists.

Your cooperation is greatly appreciated.

Very truly yours,

Jack Pieper
Purchasing Agent

Company Name: _____

Address: _____

We are not responding to subject bid solicitation for the following reason:

- Our company does not sell the requested product.
- Our company does not provide the requested service.
- Our schedule will not allow us to provide the requested service at this time.
- Other (please explain): _____
