

Quote

Date: February 7, 2024
Expiration date: March 7, 2024
To: City of Bay City, TX

Project: Bay City Hardeman Park
Bay City, TX
Musco Project No. 231172

BuyBoard

Master Project: 218434, Contract Number: 677-22, Expiration: 09/30/2024
Commodity: Parks and Sports Field Lighting Products and Installation Services

All purchase orders should note the following:
BuyBoard Purchase – Contract Number: 677-22

Quotation Price – Materials Delivered to Job Site and Installation

Lighting Existing 640' x 355' Field \$ 270,483.00

Sales tax and bonding(if required) are not included.

Quote is confidential. Pricing and lead times are effective for 30 days only. Prices are subject to change if the order is not released within 60 days from the date of the purchase.

SportsCluster® system with Total Light Control – TLC for LED™ technology

Guaranteed Lighting Performance

- Guaranteed light levels of 30 footcandles and uniformity of 2.5:1.

System Description

- (54) Factory aimed and assembled LED luminaires
- Pole length factory assembled wire harnesses
- Factory wired and tested remote electrical component enclosures
- Mounting hardware for poletop luminaire assemblies and electrical components enclosures
- Disconnects
- UL listed assemblies
- Corrosion protection

Control Systems and Services

- Control-Link® control and monitoring system to provide remote on/off and dimming (high/medium/low) control and performance monitoring with 24/7 customer support.

Operation and Warranty Services

- Product assurance and warranty program that covers materials and onsite labor, eliminating 100% of your maintenance costs for 10 years.
- Support from Musco's Lighting Services Team – over 170 Team members dedicated to operating and maintaining your lighting system – plus a network of 1800+ contractors.

Musco Scope

- Provide design and layout for lighting system
- Test and final aim equipment

Installation Services Provided

[See attached scope of work]

Responsibilities of Buyer

- Confirm pole or luminaire locations, supply voltage and phase required for lighting system prior to production.
- Provide electrical design and materials for electrical distribution system.
- Provide labor and equipment for installation of electrical distribution system; if required.
- Buyer is responsible for getting electrical power to the site, coordination with the utility, and any power company fees.
- The owner of the field is responsible for the structural integrity of the existing poles and/or structures.



Payment Terms

Final payment terms are subject to approval by Musco credit department. Final payment shall not be withheld by Buyer on account of delays beyond the control of Musco.

Email or fax a copy of the Purchase Order to Musco Sports Lighting, LLC:

Musco Sports Lighting, LLC
Attn: Musco Contracts
Fax: 800-734-6402
Email: musco.contracts@musco.com

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Delivery Timing

8 - 12 weeks for delivery of materials to the job site from the time of order, submittal approval, and confirmation of order details including voltage, phase, and pole/luminaire locations.

Notes

Quote is based on following conditions:

- Shipment of entire project together to one location.
- Existing 480 Volt, 3 phase electrical system requirement.
- Due to the built-in custom light control per luminaire, pole or luminaire locations need to be confirmed prior to production.
- Product assurance and warranty program is contingent upon site review and compatibility with Musco's lighting system.
- Musco photometric calcs 231172D; Dated 12/7/2023.

Thank you for considering Musco for your lighting needs. Please contact me with any questions or if you need additional details.

Pat Perry
Field Sales Representative
Musco Sports Lighting, LLC
100 1st Avenue West – PO Box 808
Oskaloosa, IA 52577, USA
Phone: 281-605-9506
E-mail: Pat.Perry@Musco.com

**Bay City Hardeman Park
Bay City, TX
Retrofit Scope of Work**

Customer Responsibilities:

1. Complete access to the site for construction using standard 2-wheel drive rubber tire equipment.
2. Locate existing underground utilities not covered by your local utilities. (i.e. water lines, electrical lines, irrigation systems, and sprinkler heads). Musco or Subcontractor will not be responsible for repairs to unmarked utilities.
3. Locate and mark field reference points per Musco supplied layout. (i.e. home plate, center of FB field).
4. Ensure existing poles are structurally adequate to handle new fixture loading.
5. Ensure usability of existing underground wiring.
6. Pay any necessary power company fees and requirements.
7. Pay all permitting fees.
8. Provide any existing as-built documents or drawings.
9. Provide sealed Electrical Plans. (If required)

Musco Responsibilities:

1. Provide required fixtures, electrical enclosures, mounts, hardware, wire harnesses, and control cabinets.
2. Provide SportsCluster® poletop luminaire assembly on six (6) poles.
3. Provide fixture layout and aiming diagram.
4. Provide Contract Management as required.
5. Assist our installing subcontractor and ensure our responsibilities are satisfied.

Subcontractor Responsibilities

General:

1. Obtain any required permitting.
2. Contact 811 for locating underground public utilities and confirm they have been clearly marked.
3. Contact the facility owner/manager to confirm the existing private underground utilities and irrigation systems have been located and are clearly marked to avoid damage from construction equipment. Notify owner and repair damage to marked utilities. Notify owner and Musco regarding damage which occurred to unmarked utilities.
4. Provide labor, equipment, and materials to off load equipment at jobsite per scheduled delivery.
5. Provide storage containers for material, (including electrical components enclosures), as needed.
6. Provide necessary waste disposal and daily cleanup.
7. Provide adequate security to protect Musco delivered products from theft, vandalism, or damage during the installation.
8. Keep all heavy equipment off playing fields when possible. Repair damage to grounds which 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.
9. Provide startup and aiming as required to provide complete and operating sports lighting system.
10. Installation to commence upon delivery and proceed without interruption until complete. Musco to be immediately notified of any breaks in schedule or delays.

Retrofit Musco Equipment to Existing Poles:

1. Provide labor, materials, and equipment to assemble and install Musco TLC for LED® equipment on existing poles and terminate grounding and power feed. Power feed may need to be reworked to adapt to the new Musco equipment.
2. Ensure grounding components meet minimum standards required by NEC and NFPA780.
3. For concrete poles provide new lightning down conductor(aluminum) and $\frac{5}{8}$ in copper ground rod. For poles 75 ft (22 m) or less use 1/0 AWG, poles over 75 ft (22 m) use 4/0 AWG conductor. Bond internal pole ground to new down conductor.
4. For steel poles provide new ground rod and pole bonding conductor per NFPA Annex A.1.6.
5. Down conductor shall be converted to copper wire for any underground runs and bonded to ground rod(s).
6. Ensure all Musco components are bonded to both equipment and lightning grounds. No upward sweeps allowed for lightning down conductor or bonding jumper(s). See installation instructions for further information.
7. Test ground resistance with 3-point megger and confirm 25 ohms or less for each pole. Install additional ground rods or create grounding grid until resistance of 25 ohms or less is achieved.

Electrical:

1. Provide materials, and equipment to reuse existing electrical service panels as required.
2. Provide materials, and equipment to reuse existing electrical wiring as permitted.

Control-Link Control and Monitoring:

1. Provide labor, equipment, and materials to install one (1) 24" x 48" Musco control and monitoring cabinet and terminate all necessary wiring.
2. Provide a dedicated 120 V 20 A controls circuit or a step-down transformer for 120 V control circuit if not available.
3. Check all zones to make sure they work in both auto and manual mode.
1. Commission Control-Link® by contacting Control-Link Central™ at 877-347-3319.