

Date: January 23, 2024

To: City of Margate

Project: Firefighters Park Sports Lighting

Margate, FL

**Quotation Price – Materials Delivered to Job Site and Installation****Soccer Area, Pickleball Courts, Basketball Courts, & (5) Tennis Courts**..... **\$ 475,000.00***All purchase orders should note the following:**Clay County RFP 18/19-2**Sales tax, permitting fees, and bonding are not included.**Pricing furnished is effective for 30 days unless otherwise noted and is considered confidential.*

Field Description	Quantity	Pricing Per Clay County	Extended Price
(Section I) Tennis – Light Structure – 2 Courts	1	\$69,500.00	\$69,500.00
(Section II A) Broward County HVHZ wind zone adder – 40%	1	\$27,800.00	\$27,800.00
(Section II C) Broward County HVHZ wind zone adder – 30%	1	\$20,850.00	\$20,850.00
(Section I) Tennis – Light Structure – 3 Courts	1	\$81,500.00	\$81,500.00
(Section II A) Broward County HVHZ wind zone adder – 40%	1	\$32,600.00	\$32,600.00
(Section II C) Broward County HVHZ wind zone adder – 30%	1	\$24,450.00	\$24,450.00
(Section I) Basketball – Outdoor - SportsCluster	1	\$44,300.00	\$44,300.00
(Section I C) Additional Lighting – Non-Standard Fields Pickleball Courts & Soccer Area	20	\$3,500.00	\$70,000.00
(Section III A) Pole Installation – 50' Poles	6	\$4,300.00	\$25,800
(Section IV B 3 b) Copper Conductors	3,600'	\$8.65	\$31,140.00
(Section IV B 4 a) Pull Boxes	6	\$600.00	\$3,600.00
(Section IV C a) Installation of Contactor Cabinet	3	\$5,750.00	\$17,250.00
(Section IV D 1) Lightning Protection – Surge Arrestor	18	\$1,200.00	\$21,600.00
(Section IV E 1) Pole Grounding	18	\$900.00	\$16,200.00
(Section V A 1) Electrical Engineering	1	\$6,600.00	\$6,600.00
(Section V B 1) Structural Engineering	1	\$1,350.00	\$1,350.00
(Section V F) Project Management	1	\$6,000.00	\$6,000.00
<b>Deduct / Design Parameters / Labor</b>			<b>\$-25,540.00</b>
<b>Total</b>			<b>\$475,000.00</b>



### ***Total Light Control – TLC for LED™ technology***

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#### **Guaranteed Lighting Performance**

- Guaranteed light levels and uniformity – Per Design

#### **System Description (Tennis)**

- Pre-cast concrete bases with integrated lightning grounding
- Galvanized steel poles
- Factory wired and tested remote electrical component enclosures
- Pole length, factory assembled wire harnesses
- Factory wired poletop luminaire assemblies
- Factory aimed and assembled luminaires, including BallTracker® luminaires
- UL Listed assemblies
- Product assurance and warranty program that covers materials and onsite labor, eliminating 100% of your maintenance costs for 25 years

#### **System Description (Soccer, Pickleball, Basketball Courts)**

- Factory wired poletop luminaire assemblies
- Factory aimed and assembled luminaires, including BallTracker® luminaires
- Factory wired and tested remote electrical component enclosures
- Pole length, factory assembled wire harnesses
- Mounting hardware for poletop luminaire assemblies and electrical components enclosures
- Disconnects
- UL Listed assemblies
- Product assurance and warranty program that covers materials and onsite labor, eliminating 100% of your maintenance costs for 10 years

#### **Environmental Light Control**

- Spill light minimized
- Off-site glare light minimized

#### **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
- 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
- 25-year warranty – Tennis Lighting
- 10-year warranty – Pickleball Court, Basketball Court, and Soccer Field Lighting



### ***Installation Services Provided***

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#### **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 football field).
4. Ensure existing poles are structurally adequate to handle new fixture loading.
5. Ensure usability of existing underground wiring (Pickleball, Basketball, and Soccer).
6. Provide a source of water such as a fire hydrant or 2" water line for foundation excavation. Pay for all fees associated with the water access and usage.
7. Provide area on site for disposal of spoils from foundation excavation and area for disposal of removed old product from soccer, pickleball, and basketball courts.
8. Provide area on site for storage containers and laydown.
9. Pay any necessary power company fees and requirements.
10. Pay all permitting fees.
11. Provide any existing as-built documents or drawings.

##### **Musco Responsibilities:**

1. Provide required poles, fixtures, electrical enclosures, mounts, hardware, wire harnesses, and control cabinets.
2. Provide fixture layout and aiming diagram.
3. Provide Project Management as required.
4. Assist our installing subcontractor and ensure our responsibilities are satisfied.

##### **Musco Subcontractor Responsibilities:**

###### **General:**

1. Obtain any required permitting.
2. 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. Repair any damage made during construction.
3. Provide labor, equipment, and materials to off load equipment at jobsite per scheduled delivery.
4. Provide storage containers for material, (including electrical components enclosures), as needed.
5. Provide necessary waste disposal and daily clean up.
6. Provide adequate security to protect Musco delivered products from theft, vandalism, or damage during the installation.
7. Confirm the existing underground utilities and irrigation systems have been located and are clearly marked to avoid damage from construction equipment. Repair any damage made during construction.
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.

###### **Demolition:**

1. Remove of the existing lighting fixtures and electrical enclosures on existing soccer, pickleball, and basketball poles.
2. Leave existing grounds and power feed in place for connection to new lighting equipment.



### **Retrofit Musco Equipment to Existing Poles: Soccer, Pickleball, Basketball**

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 5/8" copper ground rod. For poles 75' or less use 1/0 AWG, poles over 75' use 4/0 AWG conductor.
4. Down conductor shall be converted to copper wire for any underground runs and bonded to ground rod(s).
5. 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.
6. 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.

### **Foundations, Poles, and Luminaires: Tennis**

1. Mark and confirm pole locations per the aiming diagram provided. If there are any issues, immediately notify your Musco Project Manager.
2. Provide labor, materials, and equipment to install (6) LSS foundations as specified on Layout and per the stamped foundation drawings, if applicable.
3. Remove spoils to owner designated location at jobsite.
4. Provide labor, materials, and equipment to assemble Musco TLC-LED luminaires, electrical component enclosures, poles, and pole harnesses.
5. Provide labor, equipment, and materials to erect (6) dressed LSS Poles and aim utilizing the pole alignment beam.

### **Electrical:**

1. Provide sealed Electrical Plans. (If required)
2. Provide materials, and equipment to upgrade existing electrical service panels as required.
3. Provide materials, and equipment to reuse existing electrical wiring as permitted.

### **Control System:**

1. Provide labor, equipment, and materials to install one (1) 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.
4. Commission Control-Link® by contacting Control-Link Central™ at 877-347-3319.



### ***Payment Terms***

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Net 30 days on Materials and progressive payments on labor.

### ***Delivery Timing***

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12 - 14 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 locations.

Due to the built-in custom light control per luminaire, pole locations need to be confirmed prior to production. Changes to pole locations after the product is sent to production could result in additional charges.

### ***Notes***

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Quote is based on:

- Shipment of entire project together to one location.
- Voltage and phase information prior to production
- Structural code and wind speed = 2023 FBC, 170 mi/h, Exposure HVHZ, Importance Factor C.
- Owner is responsible for getting electrical power to the site, coordination with the utility, and any power company fees.
- Standard soil conditions – rock, bottomless, wet or unsuitable soil may require additional engineering, special installation methods and additional cost.
- Confirmation of pole locations prior to production.
- Product assurance and warranty program is contingent upon site review and compatibility with Musco's lighting system
- The owner of the field is responsible for the structural integrity of the existing poles.

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



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