

Presented to:

Clay County
Sports Lighting Contract
RFP # 13/14-8
“Various Equipment And Amenities For
Parks And Playgrounds”
Green Cove Springs, Florida



Submitted by:

Musco Sports Lighting, LLC
2107 Stewart Road
Muscatine, Iowa 52761

Phone: 563/262-4719
Toll Free: 800/756-1205
Fax: 800/374-6402

LSG Spec - Revision Level: 1
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BID FORM

RFP #13/14-8, Various Equipment And Amenities For Parks And Playgrounds

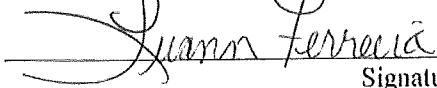
Bidder: Musco Sports Lighting, LLC

Address: 2107 Stewart Road

City, State and Zip: Muscatine, IA 52761-5934

Phone: 800-756-1205 x4738 Email: musco.contracts@musco.com

Contact Name(s): Luann Ferreira



Signature of Bidder

MANUFACTURER CATALOGS:

Manufacturer: Musco Sports Lighting, LLC

Fixed Percentage Discount off MSRP:

Prices as Listed

Installation (Fixed Percentage of cost after discounts of equipment): _____

Manufacturer: N/A

Fixed Percentage Discount off MSRP:

Installation (Fixed Percentage of cost after discounts of equipment): _____

Manufacturer: N/A

Fixed Percentage Discount off MSRP:

Installation (Fixed Percentage of cost after discounts of equipment): _____

Manufacturer: N/A

Fixed Percentage Discount off MSRP:

Installation (Fixed Percentage of cost after discounts of equipment): _____

RFP #13/14-8, Various Equipment And Amenities For Parks And Playgrounds

SUB-CONTRACTOR EQUIPMENT INSTALLERS:

Business Name: See attached list.

Address: _____

Phone Number: _____

Contact Name: _____

Business Name: _____

Address: _____

Phone Number: _____

Contact Name: _____

Business Name: _____

Address: _____

Phone Number: _____

Contact Name: _____

Note: Attach vendor/manufacture WRITTEN CERTIFICATION (s) naming bidder, and/or each of its sub-contractor installer(s), as an authorized installer certified to install park and playground equipment as required by each manufacturer. Failure to comply with this provision may result in rejection of bid.

SUBCONTRACTORS

Musco Sports Lighting, LLC
100 1st Avenue West
Oskaloosa, IA 52577

M Gay Constructors
Mike Gay
11802 Industry Drive
Jacksonville, FL 32226
904-714-4001

Davco
Russ White / Mark Komar
4885 Park Ridge Boulevard
Boynton Beach, FL 33426
561-732-3434

Electrical Contracting Service
Charlie Floyd / Chuck Floyd
2375 West 77th Street
Hialeah, FL 33016
305-556-0041

Imperial Electrical Inc.
Mike Terrango
951 NW 51 Place
Ft. Lauderdale, FL 33309
954-938-0520

Himes Electric
Thomas Cook
1040 Land O Lakes Blvd.
Lutz, FL 33549
813-909-1927

Joyner Electric
Houston Joyner / Royce Lowery
4955 Swamp Fox Rd.
850-576-1125

References

Contact: Wil Smith
St. Johns County Parks
904-471-6896

St. Lucie County Sports Complex
Contact: Guy Medor
St. Lucie County Parks Manager
772-462-1527

Gwen Cherry Baseball, Miami
Contact: Manny Docurro
Calvin Giordano & Associates
Electrical Engineer
954-266-6494

Miramar Regional Park
Contact: Norman Bray, Elec. Eng.
Norman Bray & Associates
954-925-3217

University of Tampa Lacrosse
Contact: Brent Kitchner
RR Simmons
813-632-1200

Florida State University
Contact: Bernie Waxman
Tallahassee, FL 32304
850-644-4502

Musco Sports Lighting certifies each of the aforementioned sub-contractor installer(s) is an authorized installer certified to install sports lighting equipment as required.

Musco reserves the right to use other approved contractors, with the municipality's approval.

WARRANTY INFORMATION FORM

MAKE AND MODEL OF EQUIPMENT PROPOSED: Musco Sports Lighting Equipment & Services

Is there a warranty on the equipment proposed? X
Yes No

Does the warranty apply to ALL components or only part? (State Explicitly)

See attached warranties

Parts Warranty Period: _____ Service Warranty Period: _____

Nearest source for parts and/or service center (s):

Musco Sports Lighting, LLC

Name, address and phone number of the authorized service center (s):

- 1) Jason Thomes; 100 Avenue West, Oskaloosa, IA 52577; 800-825-6030
- 2) _____
- 3) _____

Name, address and phone number of the authority issuing this warranty: (Manufacturer, Distributor, etc.)

Musco Sports Lighting, LLC; 2107 Stewart Road, Muscatine, IA 52761; 800-756-1205

COPY OF COMPLETE WARRANTY STATEMENT IS SUBMITTED HEREWITH: X
Yes No

Name of Bidder: Musco Sports Lighting, LLC

Signature Luann Ferrelli

Title Vice President Phone Number 800-756-1205 ext. 4738



Musco Constant 25™

25-Year Product Assurance & Warranty Program

Musco Sports Lighting, LLC will provide all materials and labor to maintain operation of your lighting system to original design criteria for 25 years, or until maximum hours of coverage have accumulated, whichever comes first. Musco products and services are guaranteed to perform on your project as detailed in this document.

Light

Average Constant Light™ illumination levels are guaranteed through Musco's Smart Lamp® power regulator and service technology.

Musco will electronically monitor lamp operation and operating hours, and will group re-lamp as described in the Project Details on the following page.

Individual lamp outages that occur during the lamp warranty and maintenance period are repaired when the usage of any field is materially impacted. If actual usage exceeds the maximum hours of coverage, the customer will be required to purchase lamp replacements in order to maintain the warranty to the end of 25 years.

Energy Consumption

Average and maximum energy consumptions for your lighting system are guaranteed. Exhibit A provides a 25-year energy cost model based upon the customer provided utility rate and anticipated hours of usage. Changes in rates or usage will proportionately change the costs.

Monitoring, Maintenance and Control Services

Musco shall monitor the performance of your lighting system, including on/off status, hours of usage and lamp outages. If fixture outages that affect playability are detected, Musco will contact you and proactively dispatch technicians.

On-off control of your lighting system is provided via an easy-to-use web site scheduling system, phone, fax, or email. Our trained Control-Link Central™ service center staff is available toll-free 24/7. Regular usage reports are always available on Control-Link Central's web site.

Spill Light Control

Spill light readings at identified locations are guaranteed to be controlled to the values provided in Musco's design documents for your project, shown in Exhibit B.

Structural Integrity

Your project has been designed to _____.
Structural integrity of equipment manufactured by Musco is guaranteed.

Musco has a team of people to ensure fulfillment of our product and services warranty (Exhibit C) and maintains financial reserves dedicated to support our fulfillment of this warranty. Please keep this document as your signed contract guaranteeing comprehensive service for the 25 year period.



Musco Constant 25TM

25-Year Product Assurance & Warranty Program

Project Details

Project Name: _____ Project Number: _____

Owner: _____ City: _____ State: _____

Product(s) Covered: _____

Date Issued: _____

Expiration: _____ or maximum hours of coverage noted below, whichever occurs first

Total Average kW per hour: _____ Total Maximum kW per hour: _____

Musco products and services are guaranteed to perform on your project as follows:

Field/Zone	Fixture Quantity	Lamp Type/ Lamp Hours	Average Target Constant Light Level	Uniformity Max/Min	Total Relamps Included	Estimated Annual/25- Year Estimated Usage Hours	Maximum Hours of Coverage



Musco Constant 25™

25-Year Product Assurance & Warranty Program

Terms and Conditions

Service under this Contract is provided by Musco Sports Lighting, LLC ("Musco") or an authorized servicer approved by Musco. Services performed under this Contract shall consist of furnishing labor and parts necessary to restore the operation of the Covered Product(s) to original design criteria provided such service is necessitated by failure of the Covered Product(s) during normal usage. This Contract covers Product(s) consisting of Musco's Green Generation Lighting® with Control-Link® and any additional Musco manufactured product as listed on page 2.

"We", "us" and "our" mean Musco. "You" and "your" mean the purchaser of the Covered Product(s). No one has the authority to change this Contract without the prior written approval of Musco. Musco shall not assume responsibility for their agents or assignees other than as described below. If there is a conflict between the terms of this Contract and information communicated either orally or in writing by one or more of our employees or agents, this Contract shall control.

Additional Provisions

1. **Availability of Service:** Control-Link Central operators shall be available 24/7 via web site, phone, fax, or email. Maintenance service specialists shall be available 8AM to 5PM Central Time, and services shall be rendered during these same hours in your local time zone, Monday through Friday (with the exception of national holidays). Hours of operation are subject to change without notice to you. Musco will exercise all reasonable efforts to perform service under this Contract, but will not be responsible for delays or failure in performing such services caused by adverse weather conditions, acts of any government, failure of transportation, accidents, riots, war, labor actions or strikes or other causes beyond its control.
2. **Determination of Repairs:** Musco will utilize the field monitoring system and any information provided by the customer to determine when the usage of the field is materially impacted. From this information, Musco will determine needed repair and/or replacement of Covered Product(s) and parts. Repair will be with product(s) of like kind and quality.
3. **Your Requirements Under this Contract:** You must meet all electrical and installation requirements as specified by the manufacturer. In addition, you promise and assure: full cooperation with Musco, Musco's technicians and authorized servicers during telephone diagnosis and repair of the Covered Product(s); reasonable accessibility of the Covered Product(s); a non-threatening and safe environment for service.

You agree to check fuses and to replace fuses as needed. Musco provides spare fuses in the lowest alpha-numeric numbered enclosure Musco will replenish spare fuses used.

You agree to keep your Green Generation Lighting system online. This means keeping the required control voltage to the control system at all times. Any deviation from this practice must be discussed with Musco's Warranty Department.

4. **Service Limitations - This Contract does not cover:** Maintenance, repair or replacement necessitated by loss or damage resulting from any external causes such as, but not limited to, theft, environmental conditions, negligence, misuse, abuse, improper electrical/power supply, unauthorized repairs by third parties, attachments, damage to cabinetry, equipment modifications, vandalism, animal or insect infestation, physical damage to Covered Products parts or components, failure of existing structures, supporting electrical systems or any non-Musco equipment, or acts of God/nature (including, but not limited to: earthquake, flood, tornadoes, typhoons, hurricanes or lightning).

5. Contract Limitations:

- a. **EXCLUSIONS FROM COVERAGE:** IN NO EVENT WILL MUSCO BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHICH INCLUDE, BUT ARE NOT LIMITED TO, ANY DELAY IN RENDERING SERVICE OR LOSS OF USE DURING THE REPAIR PERIOD OF THE COVERED PRODUCT(S) OR WHILE OTHERWISE AWAITING PARTS.
- b. **Limitation of Liability:** To the extent permitted by applicable law, the liability of Musco, if any, for any allegedly defective Covered Product(s) or components shall be limited to repair or replacement of the Covered Product(s) or components at Musco's option. THIS CONTRACT IS YOUR SOLE EXPRESS WARRANTY WITH RESPECT TO THE COVERED PRODUCT(S). ALL IMPLIED WARRANTIES WITH RESPECT TO THE COVERED PRODUCT(S) INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY EXCLUDED.
- c. For the purposes of and by your acceptance of this Contract you acknowledge and agree that if a surety bond ("Bond") is provided the warranty and/or maintenance guarantee provided for in this Contract and any corresponding liability on behalf of the issuing surety under the Bond is limited to the first twelve (12) months of said warranty and/or maintenance guarantee coverage period. Any warranty and/or guarantee coverage period in excess of said initial 12 month period does not fall within the scope of the Bond and shall be the sole responsibility of Musco.
- d. Musco requires reasonable access for a crane or man lift equipment to service the lighting system. Musco will not be responsible for damage from operating the vehicle on the property when the equipment is operated in the prescribed manner over the designated access route.
6. **Transfer and Assignment:** Except to owners, you shall not have the right to assign or otherwise transfer your rights and obligations under this Contract except with the prior written consent of Musco; however, a successor in interest by merger, operation of law, assignment or purchase or otherwise of your entire business shall acquire all of your interests under this Contract.
7. **Governing Law:** Unless otherwise governed by applicable state law, the Contract shall be interpreted and enforced according to the laws of the State of Iowa.
8. **Subrogation:** In the event Musco repairs or replaces any Covered Product(s), parts or components due to any defect for which the manufacturer or its agents or suppliers may be legally responsible, you agree to assign your rights of recovery to Musco. You will be reimbursed for any reasonable costs and expenses you may incur in connection with the assignment of your rights. You will be made whole before Musco retains any amounts it may recover.

Signature: _____

Vice President of Sales



Musco Constant 10™

10-Year Product Assurance & Warranty Program

Musco Sports Lighting, LLC will provide all materials and labor to maintain operation of your lighting system to original design criteria for 10 years, or until maximum hours of coverage have accumulated, whichever comes first. Musco products and services are guaranteed to perform on your project as detailed in this document.

Light

Average Constant Light™ illumination levels are guaranteed through Musco's Smart Lamp® power regulator and service technology.

Musco will electronically monitor lamp operation and operating hours, and will group re-lamp as described in the Project Details on the following page.

Individual lamp outages that occur during the lamp warranty and maintenance period are repaired when the usage of any field is materially impacted. If actual usage exceeds the maximum hours of coverage, the customer will be required to purchase lamp replacements in order to maintain the warranty to the end of 10 years.

Energy Consumption

Average and maximum energy consumptions for your lighting system are guaranteed. Exhibit A provides a 10-year energy cost model based upon the customer provided utility rate and anticipated hours of usage. Changes in rates or usage will proportionately change the costs.

Monitoring, Maintenance, and Control Services

Musco shall monitor the performance of your lighting system, including on/off status, hours of usage, and lamp outages. If fixture outages that affect playability are detected, Musco will contact you and proactively dispatch technicians.

On-off control of your lighting system is provided via an easy-to-use web site scheduling system, phone, fax, or email. Our trained Control-Link Central™ service center staff is available toll-free 24/7. Regular usage reports are always available on Control-Link Central's web site.

Spill Light Control

Spill light readings at identified locations are guaranteed to be controlled to the values provided in Musco's design documents for your project, shown in Exhibit B.

Structural Integrity

Your project has been designed to _____ .
Structural integrity of equipment manufactured by Musco is guaranteed.

Musco has a team of people to ensure fulfillment of our product and services warranty (Exhibit C) and maintains financial reserves dedicated to support our fulfillment of this warranty. Please keep this document as your signed contract guaranteeing comprehensive service for the 10 year period.



Musco Constant 10™

10-Year Product Assurance & Warranty Program

Project Details

Project Name: _____ Project Number: _____

Owner: _____ City: _____ State: _____

Covered Product(s): _____

Date Issued: _____

Expiration: _____ or maximum hours of coverage noted below, whichever occurs first

Total Average kW per hour: _____ Total Maximum kW per hour: _____

Musco products and services are guaranteed to perform on your project as follows:

Field/Zone	Fixture Quantity	Lamp Type/ Lamp Hours	Target Constant Light Level	Uniformity Max/Min	Total Relamps Included	Estimated Annual/10- Year Estimated Usage Hours	Maximum Hours of Coverage



Musco Constant 10™

10-Year Product Assurance & Warranty Program Terms and Conditions

Service under this Contract is provided by Musco Sports Lighting, LLC ("Musco") or an authorized servicer approved by Musco. Services performed under this Contract shall consist of furnishing labor and parts necessary to restore the operation of the Covered Product(s) to original design criteria provided such service is necessitated by failure of the Covered Product(s) during normal usage. This Contract covers Product(s) consisting of Musco's Green Generation Lighting® with Control-Link® and any additional Musco manufactured product as listed on page 2.

"We", "us," and "our" mean Musco. "You" and "your" mean the purchaser of the Covered Product(s). No one has the authority to change this Contract without the prior written approval of Musco. Musco shall not assume responsibility for their agents or assignees other than as described below. If there is a conflict between the terms of this Contract and information communicated either orally or in writing by one or more of our employees or agents, this Contract shall control.

Additional Provisions

1. **Availability of Service:** Control-Link Central™ operators shall be available 24/7 via web site, phone, fax, or email. Maintenance service specialists shall be available 8AM to 5PM Central Time, and services shall be rendered during these same hours in your local time zone, Monday through Friday (with the exception of national holidays). Hours of operation are subject to change without notice to you. Musco will exercise all reasonable efforts to perform service under this Contract, but will not be responsible for delays or failure in performing such services caused by adverse weather conditions, acts of any government, failure of transportation, accidents, riots, war, labor actions or strikes or other causes beyond its control.
2. **Determination of Repairs:** Musco will utilize the field monitoring system and any information provided by the customer to determine when the usage of the field is materially impacted. From this information, Musco will determine needed repair and/or replacement of Covered Product(s) and parts. Repair will be with Product(s) of like kind and quality.
3. **Your Requirements Under this Contract:** You must meet all electrical and installation requirements as specified by the manufacturer. In addition, you promise and assure: full cooperation with Musco, Musco's technicians and authorized servicers during telephone diagnosis and repair of the Covered Product(s); reasonable accessibility of the Covered Product(s); a non-threatening and safe environment for service.

You agree to check fuses and to replace fuses as needed. Musco provides spare fuses in the lowest alpha-numeric numbered enclosure. Musco will replenish spare fuses used.

You agree to keep your Green Generation Lighting system online. This means keeping the required control voltage to the control system at all times. Any deviation from this practice must be discussed with Musco's Warranty Department.

4. **Service Limitations — This Contract does not cover:** Maintenance, repair, or replacement necessitated by loss or damage resulting from any external causes such as, but not limited to, theft, environmental conditions, negligence, misuse, abuse, improper electrical/power supply, unauthorized repairs by third parties, attachments, damage to cabinetry, equipment modifications, vandalism, animal or insect infestation, physical damage to Covered Product(s) parts or components, failure of existing structures, supporting electrical systems or any non-Musco equipment, or acts of God/nature (including, but not limited to: earthquake, flood, tornadoes, typhoons, hurricanes, or lightning).

5. Contract Limitations:

- a. **EXCLUSIONS FROM COVERAGE:** IN NO EVENT WILL MUSCO BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES WHICH INCLUDE, BUT ARE NOT LIMITED TO, ANY DELAY IN RENDERING SERVICE OR LOSS OF USE DURING THE REPAIR PERIOD OF THE COVERED PRODUCT(S) OR WHILE OTHERWISE AWAITING PARTS.
- b. **LIMITATION OF LIABILITY:** To the extent permitted by applicable law, the liability of Musco, if any, for any allegedly defective Covered Product(s) or components shall be limited to repair or replacement of the Covered Product(s) or components at Musco's option. THIS CONTRACT IS YOUR SOLE EXPRESS WARRANTY WITH RESPECT TO THE COVERED PRODUCT(S). ALL IMPLIED WARRANTIES WITH RESPECT TO THE COVERED PRODUCT(S) INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY EXCLUDED.
- c. For the purposes of and by your acceptance of this Contract you acknowledge and agree that if a surety bond ("Bond") is provided the warranty and/or maintenance guarantee provided for in this Contract and any corresponding liability on behalf of the issuing surety under the Bond is limited to the first **twelve (12) months** of said warranty and/or maintenance guarantee coverage period. Any warranty and/or guarantee coverage period in excess of said initial 12 month period does not fall within the scope of the Bond and shall be the sole responsibility of Musco.
- d. Musco requires reasonable access for a crane or man lift equipment to service the lighting system. Musco will not be responsible for damage from operating the vehicle on the property when the equipment is operated in the prescribed manner over the designated access route.
6. **Transfer and Assignment:** Except to owners, you shall not have the right to assign or otherwise transfer your rights and obligations under this Contract except with the prior written consent of Musco; however, a successor in interest by merger, operation of law, assignment or purchase or otherwise of your entire business shall acquire all of your interests under this Contract.
7. **Governing Law:** Unless otherwise governed by applicable state law, the Contract shall be interpreted and enforced according to the laws of the State of Iowa.
8. **Subrogation:** In the event Musco repairs or replaces any Covered Product(s), parts or components due to any defect for which the manufacturer or its agents or suppliers may be legally responsible, you agree to assign your rights of recovery to Musco. You will be reimbursed for any reasonable costs and expenses you may incur in connection with the assignment of your rights. You will be made whole before Musco retains any amounts it may recover.

Signature: _____

Vice President of Sales



10 Year Warranty

Equipment

Musco warrants your lighting system (excluding fuses and lamps) to be free from defects in materials and workmanship for a period of ten years starting from the date of shipment.

Two Years Labor — Musco agrees to provide labor and materials for a period of two years to replace defective parts or repair defects in workmanship or, at its election, to pay the reasonable cost of labor for such repairs. For the remainder of the warranty period, replacement materials will be provided at no charge. Labor costs will be the owner's expense.

Lamps

Lamps are warranted not to fail for two years from the date of shipment. Lamps which fail during the first year of the warranty period will be replaced and installed at no cost to the owner.

Lamps which fail during the second year of the warranty period will be replaced by the manufacturer, but installation will be the owner's responsibility. Lamps damaged by physical trauma or electrical surges are not covered by this warranty.

Alignment

Musco warrants accurate alignment of the luminaires on the luminaire assembly for a period of ten years starting from the date of shipment.

Limitations

The following are not covered by this warranty:

- Fuses
- Weather condition events such as lightning or hail damage
- Improper installation, vandalism or abuse
- Unauthorized repairs or alterations

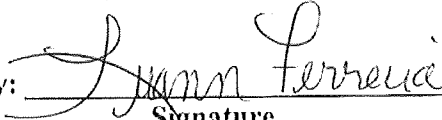
Repair and/or replacement are the complete warranty and constitute the exclusive remedy.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion Form

- (1) The prospective Vendor, Musco Sports Lighting, LLC, certifies, by submission of this document, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal Department or Agency.
- (2) Where the Vendor is unable to certify to the above statement, the prospective Vendor shall attach an explanation to this form.

Vendor:

Musco Sports Lighting, LLC

By: 
Signature

Luann Ferreira, Vice President
Name and Title

2107 Stewart Road
Street Address

Muscataine, IA 52761
City, State, Zip

✓ 12-31-2013
Date

Clay County

Sports Lighting Bid Sheet

Manufacturer: Musco Sports Lighting, LLC.

Address: 2107 Stewart Road

City, State, Zip Code: Muscatine, IA 52761

Contacts:

Danny Sheldon
Phone #: 352/665-0578

Email: danny.sheldon@musco.com
Fax #: 800/374-6402

Bob DeCouto
Phone#: 352/243-9999

Email: bob.decouto@musco.com
Fax #: 800/374-6402

Jason Frucht
Phone #: 954/732-5674

Email: jason.frucht@musco.com
Fax #: 800/374-6402

Fed. ID #: 42-1511754

Delivery: 4-6 weeks F.O.B. Destination

MUSCO LIGHTING PRICING - All prices are delivered to the job site – Terms: Net 30 days upon delivery
For installed packages, 25% down payment is requested.

BASE BID LIGHTING EQUIPMENT DESCRIPTION

LIGHT-STRUCTURE GREEN™ SYSTEM (LSG)

Equipment Pricing includes: Precast Concrete Bases, Galvanized Steel Poles, Fixtures, Pole Top Luminaire Assemblies, Electrical Component Enclosures, and Wire Harnesses.

WARRANTY AND GUARANTEE (LSG)* 25-Year Warranty: Manufacturer shall supply a signed warranty covering the entire system for 25 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.

All warranty and maintenance agreements on all facilities except tennis/roller hockey are based upon 600 hours or less on annual usage. The tennis, roller hockey, skate park and outdoor basketball courts warranty and maintenance agreement is based upon 1000 hours or less of annual usage. If annual usage exceeds the hours noted above, an extension of the warranty/maintenance agreement will be negotiated with the manufacturer on a project by project basis.

SPORTSCLUSTER GREEN™ SYSTEM (SCG)

Equipment Pricing includes: Fixtures, Luminaire Assemblies, Electrical Component Enclosures, and Wire Harnesses.

WARRANTY AND GUARANTEE (SCG)* 10-Year Warranty: Manufacturer shall supply a signed warranty providing all materials and labor to maintain operation of your lighting system to original design covering the entire system for 10 years from the date of shipment, or until maximum hours of coverage have accumulated, whichever comes first. Warranty may exclude fuses, storm damage, vandalism, abuse and unauthorized repairs or alterations. The Constant 10 Warranty is contingent upon site review for compatibility with Musco's lighting system.

LIGHT-PAK SYSTEM™

Equipment Pricing includes: Luminaire Assemblies, Electrical Component Enclosures.

WARRANTY AND GUARANTEE (LIGHT-PAK) 10-Year Warranty: Manufacturer shall supply a signed warranty 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.

Section I - Musco Lighting Price List

Note: For field sizes and pole locations not covered below, use fixture and pole adjustments found in Adders section of the bid page. Manufacturer shall provide design for actual field, plus the design of the field that most closely relates to actual field, for comparative purposes.

Tennis – Standard pole locations are 6' beyond the serving line and 3' outside the fence. Pricing and pole sizing for tennis courts are also applicable to roller hockey and skate parks.

Size	Light Level	LSG 130 ULT 2010 Price	SCG Price
2 Ct	50 fc	\$48,500	\$32,200
3 Ct	50 fc	\$62,700	\$42,600
4 Ct	50 fc	\$83,300	\$53,300

Outdoor Basketball – Standard pole locations are 15' outside the fence on the center line

Size	Light Level	LSG 130 ULT 2010 Price	SCG Price
1 Ct	40 fc	\$27,000	\$20,200
2 Ct	40 fc	\$35,700	\$25,600

Light-Pak

Fixtures	Light-Pak Price
8	\$8,700
12	\$11,300

Baseball (90' Base path) – Standard A-pole locations are 50' down line and 55' off for a 90' base path. Standard B-pole locations are 5' beyond the outfield radius and 10' off the foul line for a 4-pole design and are at a distance down the line of $((\text{Foul Line} + \text{Basepath})/2 \times 0.5)$ and 40' off the foul line for a 6-pole and 8-pole design. Standard C-pole locations are 5' beyond the outfield radius at an angle of 20 degrees from the foul line for a 6-pole design and 10 degrees from the foul line for an 8-pole design. Standard D-pole locations are 5' beyond the outfield radius at an angle of 30 degrees from the foul line for an 8-pole design.

Size	Light Level	LSG 130 ULT 2010 Price	SCG Price
300'	50/30 fc	\$134,300	\$93,500
300'	70/50 fc	\$201,000	\$146,200
350'	50/30 fc	\$156,700	\$94,900
350'	70/50 fc	\$251,200	\$152,100
330'/400'/330'	50/30 fc	\$173,000	\$114,500
330'/400'/330'	70/50 fc	\$297,500	\$185,200
320'/360'/320'	50/30 fc	\$163,500	\$105,900
320'/360'/320'	70/50 fc	\$253,100	\$167,900

Softball/T-Ball (60' Base path) - Standard A-pole locations are 35' down line and 40' off for a 60' base path. Standard B-pole locations are 5' beyond the outfield radius and 10' off the foul line for a 4-pole design and are at a distance down the line of $((\text{Foul Line} + \text{Basepath})/2 \times 0.5)$ and 40' off the foul line for a 6-pole and 8-pole design. Standard C-pole locations are 5' beyond the outfield radius at an angle of 20 degrees from the foul line for a 6-pole design and 10 degrees from the foul line for an 8-pole design. Standard D-pole locations are 5' beyond the outfield radius at an angle of 30 degrees from the foul line for an 8-pole design.

Size	Light Level	LSG 130 ULT 2010 Price	SCG Price
150'	30 fc	\$51,300	\$34,900
175'	50/30 fc	\$61,400	\$42,300
185'	50/30 fc	\$65,400	\$46,400
200'	50/30 fc	\$68,300	\$48,400
200'	70/50 fc	\$115,600	\$78,000
225'	50/30 fc	\$87,800	\$57,000
225'	70/50 fc	\$106,400	\$74,600
250'	50/30 fc	\$93,400	\$61,700
250'	70/50 fc	\$141,000	\$100,100
275'	50/30 fc	\$106,200	\$70,600
275'	70/50 fc	\$160,400	\$117,800
300'	50/30 fc	\$117,700	\$82,000
300'	70/50 fc	\$182,700	\$127,300
320'	50/30 fc	\$135,100	\$90,900
320	70/50 fc	\$198,100	\$143,500

Soccer – Standard pole locations for a 4-pole design would be located at a distance of (Field Length/2 – ((Field Width/2 + Setback) x 0.40)) from the center line, with setbacks from the field as given above. Standard outside pole locations for a 6-pole design would be located at a distance of (Field Length/2 – ((Field Width/2 + Setback) x 0.28)) from the center line, with setbacks from the field as given below.

Size	Light Level	Set-back	LSG 130 ULT 2010 Price	SCG Price
330'x160'	30 fc	30'	\$78,600	\$57,700
330'x160'	50 fc		\$124,600	\$97,900
330'x180'	30 fc	30'	\$96,400	\$67,300
330'x180'	50 fc		\$132,200	\$102,500
330'x210'	30 fc	30'	\$99,800	\$70,700
330'x210'	50 fc		\$140,300	\$105,800
330'x225'	30 fc	30'	\$105,800	\$75,600
330'x225'	50 fc		\$152,700	\$114,100
360'x160'	30 fc	30'	\$93,800	\$65,900
360'x160'	50 fc		\$140,300	\$105,800
360'x180'	30 fc	30'	\$93,800	\$65,900
360'x180'	50 fc		\$140,300	\$105,800
360'x210'	30 fc	30'	\$105,800	\$75,600
360'x210'	50 fc		\$152,700	\$114,100
360'x225'	30 fc	30'	\$112,300	\$82,300
360'x225'	50 fc		\$162,200	\$123,800
360'x240"	30 fc	30'	\$112,300	\$82,300
360'x240'	50 fc		\$172,300	\$128,600

Football – Standard pole locations are located at the 15 yard line, with setbacks from the field as given below.

Size	Light Level	Set-back	LSG 130 ULT 2010 Price	SCG Price
No track	30 fc	60'	\$104,300	\$75,000
No track	50 fc		\$150,500	\$112,800
No track	100 fc		\$299,300	\$218,800
No track	30 fc	80'	\$117,000	\$85,700
No track	50 fc		\$185,900	\$131,800
No track	100 fc		\$312,300	\$235,700
No track	30 fc	100'	\$133,900	\$95,400
No track	50 fc		\$194,200	\$142,700
No track	100 fc		\$378,300	\$255,000
No track	30 fc	120'	\$169,900	\$114,300
No track	50 fc		\$251,900	\$173,300
No track	100 fc		\$464,200	\$296,500

Section II – Adders/Deducts

- A. The above pricing is based upon 130 ULT wind zone. For each 10 mph increase in wind zone, the equipment price will increase by 5%.
- B. Florida Building Code, 2010 edition with supplement for public schools will add up to 20% to the price of the job plus any applicable wind zone increase adder.
- C. Broward County and Miami-Dade County for HVHZ wind zone will add up to 30% to the price of the job plus any applicable wind zone increase adder.
- D. Purchase of additional lighting for security, special areas, or replacing lights on existing poles and non-standard field sizes or pole locations. \$ 3,000 per fixture
- E. Control Link Retrofit Adder \$7,500 per unit
- F. Additional Control Link Unit necessary due to additional electrical services \$5,000 per unit
- G. Osprey Nest Platforms \$3,000 each
- H. Adder for additional spill and glare control \$3,500 per pole

Section III – Labor Costs

A. Pole Installation (price per pole)

Pole Height	LSG 130 ULT 2010 Price
40'	\$3,600
50'	\$3,700
60'	\$4,000
70'	\$4,600
80'	\$5,600
90'	\$6,500
100'	\$8,300
110'	\$13,500

- B. Sub-Standard Soil Conditions – The above installation price is based upon 130 mph ULT wind zone installed in standard class 5 soils. If sub-standard soil conditions exist, it is understood that there may be additional costs associated with a sub-standard soil installation and owner agrees to accept the additional costs. In addition, because wind zones sometimes impact pole size, there may be a 5% increase in the cost of installation for each 10 mph increase in wind zone.
- C. Removal of Existing Concrete Poles \$4,000 per pole
- D. Removal of Existing Wooden Poles \$1,500 per pole
- E. Installation of Fixtures on Existing Poles \$5,200 per pole
- F. Installation of Control Link Retrofit \$1,800 per unit

Section IV – Electrical Costs

A. Service Options

Option A – 200 Amp Service (Section IV, A, 1)	<u>\$11,000 each</u>
Option B – 400 Amp Service (Section IV, A, 1)	<u>\$18,500 each</u>
Option C – 600 Amp Service (Section IV, A, 1)	<u>\$22,500 each</u>
Option D – 800 Amp Service (Section IV, A, 1)	<u>\$25,000 each</u>

B. Conduit, Pull Boxes and Conductors

1. Wiring from Panel to Contactors

- a. Connect wiring from one 3 pole, 30 amp breaker to one 3 pole, 30 amp contactor using 3-#6 conductors, max distance of 10 feet \$ 90 each
- b. Connect wiring from one 3 pole, 60 amp breaker to one 3 pole, 60 amp contactor using 3-#4 conductors, max distance of 10 feet \$100 each

2. Wiring from Contactors to Poles
 - a. 2 ½" PVC with (4) 3/0 \$ 35 per foot
 - b. 4" PVC with (4) 500mcm \$ 65 per foot
 - c. (2) 4" PVC with (4) 300mcm \$ 85 per foot
 - d. 2" PVC with (4) #1 THWN conductors \$ 25 per foot
3. Copper Conductors in PVC Conduit pricing is based on a 500' maximum distance. After 500' the per foot pricing will apply.
 - a. :10 \$4,700.00 \$5.00 per foot
 - b. :8 \$5,200.00 \$7.50 per foot
 - c. :6 \$5,400.00 \$10.00 per foot
4. Pull Boxes
 - a. Brooks 38T pull box with 8" x 8" x 6" PVC box Inside \$ 500 each
 - b. Connect 4-#1 conductors from pull box to sports lighting pole, maximum distance of 10 feet \$ 110 each
- C. Installation of Contactor Cabinets
 - a. 48" Cabinet \$5,000 each
 - b. 72" Cabinet \$7,500 each
- D. Lightning Protection
 1. Surge Arrestor – protection at remote electrical enclosure \$ 1,050 each
 2. Surge Arrestor – protection on line side of panel \$ 8,600 each
- E. Pole Grounding
 1. Provide and install ground rods for poles 70' and below \$750 per pole
 2. Provide and install ground rods for poles 80' and above \$1,250 per pole

Section V – Engineered Plans

- A. Electrical Engineering Drawings, sealed by P.E.
 1. Adder for 200 amp service \$ 5,750 each
 2. Adder for 400 amp service \$ 8,625 each
 3. Adder for 600 amp service \$13,800 each
 4. Adder for 800 amp service \$23,000 each
- B. Structural Engineering Drawings, sealed by P.E.
 1. Foundation and pole plans based on assumed soils \$1,150 per project
 2. Foundation and pole plans based on geotech report \$2,875 per project
- C. Geotech report \$8,625 per project
- D. Bonding (over \$200,000) \$1,785 per \$100,000
- E. Site survey \$2,875 per project
- F. Project management \$5,750 per project

Section VI - Yearly Adjustments

- A. During the term of this contract, technical upgrades to these products may periodically become available and will be offered to the owner. Musco reserves the right to supply upgraded technology provided it maintains the on-field lighting performance, enhances benefits and does not exceed the prices bid when applied to a project application under the current contract provisions.
- B. During the term of this contract, NEW products with IMPROVED technology may become available. Musco reserves the right whether or not to offer new products to the owner based upon the application, and it is at the owner's discretion whether or not to accept the associated, increased costs of the new, improved technology.
- C. During the term of this contract if the state of Florida Building Codes/Wind speeds change, Musco reserves the right to adjust pricing accordingly.

I. SPORTS LIGHTING – LIGHT-STRUCTURE GREEN™ SYSTEM

A. BASE BID LIGHTING EQUIPMENT

The primary goals of this sports lighting specification are:

- 1. Life Cycle Costs: 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 fields should be proactively monitored to detect fixture outages over a twenty-five (25) 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.
- 2. Environmental Light Control: It is the primary goal of this project to minimize spill light and glare.
- 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 are guaranteed for a period of twenty-five (25) years.

B. LIGHTING PERFORMANCE / PLAYABILITY

The manufacturer shall supply lighting equipment to meet the following performance and life cycle cost criteria:

Playing surfaces shall be lit to an average constant light level and uniformity as specified per the bid sheet. Light levels shall be held constant for 5,000 hours. Lighting calculations shall be developed and field measurements taken on the grid spacing with the minimum number of grid points specified on the bid sheet.

C. LIFE CYCLE COST

- 1. Energy Consumption: The kWh consumption for the field lighting system shall be calculated by the following criteria:
luminaries x kw demand x kw rate of .11/hr x annual usage of 600 hours x 25 years. Tennis courts, skate parks, roller hockey and outdoor basketball courts will be based on an annual usage of 1,000 hours.
- 2. Complete Lamp Replacement: Manufacturer shall include the appropriate number of group lamp replacements to be completed at end of each 5,000 hours of operation. For the purpose of the bid, it is assumed that the field(s) will be operated 600 hours per year or 10,000 hours during a 25 year period. Manufacturer shall warrant the system to meet designed light levels upon completion of these relamps.

3. Preventative and Spot Maintenance: Manufacturer shall provide all preventative and spot maintenance, including parts and labor for 25 years on the system from the date of equipment delivery. Lamp outages shall be repaired when they materially impact the usage of any field. Owner agrees to check fuses and maintain as necessary in the event of a fixture outage prior to calling the manufacturer.
4. 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).
5. Remote Lighting Control System: System shall include lighting contactors. 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 using a user code and password 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 or extend the field usage.

On site equipment shall include Manual Off-On-Auto Switches to allow for maintenance, and shall accept and store 7-day schedules. The controller shall be protected against power outages / memory loss and shall reboot once power is regained and execute any commands that would have occurred during outage.

6. Management Tools: Manufacturer shall make available a web-based database of actual field usage and provide reports by facility and user group.
7. Communication Costs: Manufacturer shall include communication costs for operating the controls and monitoring system for a period of 25 years.

II. **SPORTS LIGHTING - SPORTSCUSTER GREEN™ SYSTEM**

A. **BASE BID LIGHTING EQUIPMENT**

The primary goals of this sports lighting specification are:

1. Life Cycle Costs: In order to reduce the operating budget, the preferred lighting system shall be energy efficient and cost effective to operate.
2. Environmental Light Control: It is the primary goal of this project to minimize spill light and glare.
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 are guaranteed for a period of ten (10) years.

B. **LIGHTING PERFORMANCE / PLAYABILITY**

The manufacturer shall supply lighting equipment to meet the following performance and life cycle cost criteria:

Playing surfaces shall be lit to an average constant light level and uniformity as specified per the bid sheet. Light levels shall be held constant for 5,000 hours. Lighting calculations shall be developed and field measurements taken on the grid spacing with the minimum number of grid points specified on the bid sheet.

C. LIFE CYCLE COST

1. Energy Consumption: The average kWh consumption shall be calculated by the following criteria: # luminaires x kw demand x kw rate of .11/hr x annual usage of 600 hours x 25 years. Tennis courts, skate parks, roller hockey and outdoor basketball courts will be based on an annual usage of 1,000 hours.

III. LIGHTING SYSTEM CONSTRUCTION

A. SYSTEM DESCRIPTION

Lighting system shall consist of the following:

1. Galvanized steel poles and crossarm assembly (LSG Only)
Enhanced corrosion protection package:
 - a. Exposed carbon steel horizontal surfaces on the cross arm assembly shall be galvanized to a five (5) mil minimum average thickness.
 - b. Exposed die cast aluminum components shall be Type II anodized per MIL-STD-8625 and coated with high performance polyester.
 - c. Exposed extruded aluminum components shall be Type II anodized per MIL-STD-8625 and coated with high performance polyester.
2. Pre-stressed concrete base embedded in concrete backfill (LSG Only)
3. All luminaires shall be constructed with a die-cast aluminum housing to protect the luminaire reflector system.
4. Luminaire, visor, and crossarm shall withstand 150 mph winds and maintain luminaire aiming alignment.
5. 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.
6. Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for fast, trouble free installation.
7. 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. (Standard LSG/Optional SCG)

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. 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, or electrical components enclosure.

D. LIGHTNING PROTECTION

LSG: Integrated lightning grounding via concrete encased electrode grounding system as defined by NFPA 780 and be UL Listed per UL 96 and UL 96A.

SCG; or 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 not less than 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.

E. SAFETY

All system components shall be UL Listed for the appropriate application.

F. ELECTRIC POWER REQUIREMENTS FOR SPORTS LIGHTING EQUIPMENT

Maximum total voltage drop to the disconnect switch located on the poles shall not exceed three (3) percent of rated voltage.

1. Voltage/Phase to be determined for each specific site.

IV. DELIVERY TIMING

The equipment must be on site 4-6 weeks from the receipt of approved submittals and receipt of complete order information.

V. STRUCTURAL PARAMETERS

A. BUILDING CODE

The base bid of the lighting system must comply with Florida Building Code Edition 2010, 130 mph ULT.

B. STRUCTURAL DESIGN

The stress analysis and safety factor of the poles shall conform to AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

C. SOIL CONDITIONS

The design criteria for these specifications are based on soil design parameters as outlined in the geotechnical report. If a geotechnical report is not provided by the owner, the foundation design shall be based on soils that meet or exceed those of a Class 5 material as defined by 2010 FBC, Table 1804.2.

D. FOUNDATION DRAWINGS

Project specific foundation drawings stamped by a registered engineer in the state where the project is located are required. The foundation drawings must list the moment, shear (horizontal) force, and axial (vertical) force at ground level for each pole. These drawings must be submitted within 14 days of purchase.

VI. 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.

VII. POLE CONSTRUCTION, POLE REMOVAL, AND RELIGHT

A. POLE INSTALLATION

Provide pricing for labor to install owner furnished poles & fixtures. Price will include unloading of the equipment upon arrival to job site, excavation of holes, assembly of the poles and luminaires, all wiring from the remote electrical enclosure to the luminaires, proper grounding, installation of the pre-stressed foundations with concrete backfill, pole erection and aiming. Installation assumes standard soils of 2000 psf with no rock or abnormal collapsing holes.

B. REMOVAL OF EXISTING POLES OR STRUCTURES

Provide pricing for labor to take down existing poles, structures and fixtures and remove them to a staging area on the job site designated by the owner. Concrete and steel poles will be completely removed. Poles will be cut at base – foundations will not be removed but cut and jack-hammered to a foot below grade. Wood poles may be cut off 2 feet below grade, as long as the stumps are covered back with soil.

C. INSTALLATION OF FIXTURES ON EXISTING POLES

Provide pricing for labor to take down existing fixtures and remove them to a staging area on the job site designated by the owner. The cost will also include labor to install the new fixtures on the existing structure. Installation assumes that the pole structure and wiring will be sufficient to handle the new fixtures. Owner assumes all responsibility of structural integrity of existing poles.

D. OWNER AND BIDDER RESPONSIBILITIES

1. Owner's Responsibilities:

- a. Provide total access to the site and pole locations for construction. Equipment must be able to move from location to location on standard rubber tires – no towing required.
- b. Remove any trees, limbs, shrubs, etc. for total access to pole locations.
- c. Survey in pole locations and aiming points (one per field) for sighting in lighting cross-arms. Mark home plate, foul lines, and field boundary lines. Final grade elevations will also need to be marked if necessary.
- d. Removal, replacement, and repair of all fencing necessary for construction.
- e. Repair and replacement of any field turf, asphalt, curbs, and concrete inadvertently damaged during installation.
- f. Provide area on site for disposal of spoils from foundation excavation.
- g. Locate and mark existing underground utilities not covered by "One Call" and irrigation systems including sprinkler heads prior to excavation. Bidder will not be responsible for repairs to unmarked utilities.
- h. Pay for any power company fees and requirements. **(If necessary).**
- i. Additional charges will apply for foundation excavation and construction in non-standard soils (rock, caliche, high water table, collapsing holes, alluvial soils, etc.). Standard soils are defined as Class 5 soils in the 2010 edition of the Florida Building Code and can be excavated using standard earth auguring equipment.
- j. Provide a source of water such as a fire hydrant or 2" water line for foundation excavation. Pay for any and all fees associated with the water access and usage.
- k. Pay for any and all permitting fees.

2. Bidder's Responsibilities:

- a. Provide required poles, fixtures, foundations, and associated designs.
- b. Provide structural design for poles and foundations, certified by a professional engineer licensed in the State of Florida.
- c. Provide layout of pole locations and aiming diagram.
- d. Provide light test upon completion of works once owner supplied electrical system is energized.
- e. Provide review of electrical design as provided by Electrical Contractor or Electrical Engineer.
- f. Provide bonding per State of Florida requirements.
- g. Provide equipment and materials to off load equipment at jobsite per scheduled delivery.
- h. Provide storage containers for material, including ballast enclosures.
- i. Provide adequate trash container for cardboard waste and packing debris.
- j. Provide adequate security to protect delivered products from theft, vandalism or damage during the installation.
- k. Obtain any and all required permits. Costs to be paid by Owner.
- l. Make appropriate contact to ensure utility locations have been marked prior to excavation and trenching. Repair any damage to existing utilities made during construction.

- m. Provide materials and equipment to install Light Structure System foundations as specified on Layout.
- n. Remove augured spoils to owner-designated location at jobsite.
- o. Provide materials and equipment to assemble and install Light Structure Green™ fixtures and terminate all necessary wiring.
- p. Provide equipment and materials to assemble and erect Light Structure System Poles.

VIII. ELECTRICAL SUPPLY LABOR/EQUIPMENT

A. ELECTRICAL SERVICES

All services are to be quoted at 277/480 volt three phase. Base all service feeders on a length of 150 feet at a burial depth of 36" with no obstructions in the path. Provide lump sum costs for equipment and labor to install each of the following four options:

1. Option A
 - a. 200 amp three phase meter can
 - b. 200 amp main circuit breaker N3R 42 circuit panel with 8 three pole 30 amp breakers.
 - c. Service feeders. (4) 3/0 conductors in a 2 1/2" raceway. 150'
 - d. Build Service Rack out of 2" galvanized pipe with galvanized uni-strut to accommodate meter can, electrical panel and one lighting contactor cabinet sized at 72" high, 36" wide and 12" deep. The lighting contactor cabinet will be provided by the sports lighting manufacturer and installed.
 - e. Pull necessary permits
2. Option B
 - a. 400 amp three phase meter can
 - b. 400 amp main circuit breaker N3R 42 circuit panel with 8 three pole 60 amp breakers.
 - c. Service feeders. (4) 500 mcm conductors in a 4" raceway. 150'
 - d. Build Service Rack out of 2" galvanized pipe with galvanized uni-strut to accommodate meter can, electrical panel and one lighting contactor cabinet sized at 72" high, 36" wide and 12" deep. The lighting contactor cabinet will be provided by the sports lighting manufacturer and installed.
 - e. Pull necessary permits.
3. Option C
 - a. 600 amp three phase meter can
 - b. 600 amp main circuit breaker N3R 42 circuit panel with 12 three pole 60 amp breakers.
 - c. Service feeders. (2) 4" raceways with (4) 300 mcm conductors in a 4" raceway. 150'
 - d. Build Service Rack out of 3" galvanized pipe with galvanized uni-strut to accommodate meter can, electrical panel and one lighting contactor cabinet sized at 72" high, 36" wide and 12" deep. The lighting contactor will be provided by the sports lighting manufacturer and installed.
 - e. Pull necessary permits.
4. Option D
 - a. 800 amp three phase CT enclosure
 - b. 800 amp three phase CT meter can
 - c. 800 amp main circuit breaker N3R 42 circuit panel with 12 three pole 80 amp breakers.
 - d. Service feeders (2) 4" raceways with (4) 500 mcm conductors in each raceway. 150'
 - e. Build Service Rack out of 3" galvanized pipe with galvanized uni-strut to accommodate meter can, CT enclosure, electrical panel and one lighting contactor cabinet sized at 72" high, 36" wide and 12" deep. The lighting contactor cabinet will be provided by the sports lighting manufacturer and installed.
 - g. Grounding per NEC and local building codes.
 - f. Pull necessary permits.

B. CONDUIT, PULL BOXES AND CONDUCTORS

Provide equipment and labor to install conduit, pull boxes and conductors. All installations are to be in pvc schedule 40 pipe at a burial depth of 36" with twin conductors.

C. LIGHTNING PROTECTION

Surge Arrestors: UL labeled and rated for 277/480V, 3 phase, 4 wire, as manufactured by Erico (TDX-50) or equal and shall be attached to the bottom of the remote ballast enclosure and/or on line side of main electrical panel.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/09/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Holmes Murphy & Assoc - WDM PO Box 9207 Des Moines, IA 50306-9207	1-800-247-7756	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL ADDRESS:	FAX (A/C, No):
INSURED Musco Sports Lighting, LLC Attn: Carrie Ferguson P O Box 808 Oskaloosa, IA 52577	INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A: EMPLOYERS MUT CAS CO A XII		21415	
INSURER B: STARR IND & LIAB CO A XIV c/o RT		38318	
INSURER C:			
INSURER D:			
INSURER E:			
INSURER F:			

COVERAGES

CERTIFICATE NUMBER: 37234459

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY ☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ Contractual Liability GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PRO-JECT ☒ LOC			2D5362514	07/01/13	07/01/14	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/OP AGG \$ 2,000,000 \$
	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ ALL OWNED AUTOS ☒ HIRED AUTOS ☐ SCHEDULED AUTOS ☒ NON-OWNED AUTOS			2E5362514	07/01/13	07/01/14	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	UMBRELLA LIAB ☒ OCCUR EXCESS LIAB ☐ CLAIMS-MADE DED RETENTION \$			1000010100	07/01/13	07/01/14	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000 \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	2S5362514 (Non Ded States) 2Z5362514 (All Other States) 2P5362514 (Florida) 2M5362514 (New Jersey)	07/01/13 07/01/13 07/01/13 07/01/13	07/01/14 07/01/14 07/01/14 07/01/14	☒ WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT \$ 500,000 E.L. DISEASE - EA EMPLOYEE \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Re: RFP #13/14-8, Various Equipment and Amenities for Parks and Playgrounds
Clay County, a political subdivision of the State of Florida, the Board of County Commissioners, Clay County, Florida and all public agencies of Clay County, as their interests may appear are included as Additional Insureds on General Liability for work performed by the named insured when required by written contract or agreement.

CERTIFICATE HOLDER

CANCELLATION

Clay County Purchasing Division

x 1366

Green Cove Springs, FL 32043-1366

USA

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Laure Guisinger

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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR
CONTRACTORS – AUTOMATIC STATUS FOR OTHER
PARTIES WHEN REQUIRED IN WRITTEN
CONSTRUCTION AGREEMENT**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

A. SECTION II – Who Is An Insured is amended to include as an additional insured:

1. Any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy; and
2. Any other person or organization you are required to add as an additional insured under the contract or agreement described in Paragraph 1. above.

Such person(s) or organization(s) is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

- a. Your acts or omissions; or
- b. The acts or omissions of those acting on your behalf;

in the performance of:

- (1) Your ongoing operations for an additional insured; or
- (2) "Your work" for the additional insured and included in the "products-completed operations hazard" but only if:
 - (a) A written contract requires you to provide such coverage to such additional insured; and
 - (b) The coverage form to which this endorsement is attached provides coverage for "bodily injury" or "property damage" included within the "products-completed operations hazard".

However, the insurance afforded to such additional insured described above:

- c. Only applies to the extent permitted by law; and
- d. Will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

- B.** There is no coverage for the additional insured for "bodily injury", "property damage" or "personal and advertising injury" arising out of the sole negligence of the additional insured or by those acting on behalf of the additional insured. If, however, a written contract requires you to defend or indemnify the additional insured for the additional insured's sole negligence, then the coverage for the additional insured shall conform to what is required in such written contract and to the extent permitted by law.

- C.** With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to:

1. "Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:
 - a. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
 - b. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of, or the failure to render, any professional architectural, engineering or surveying services.

2. "Bodily injury", "property damage" or "personal and advertising injury" arising out of any premises or work for which the additional insured is specifically listed as an additional insured on another endorsement attached to this coverage form.

D. Any coverage provided hereunder shall be excess over any other valid and collectible insurance available to the additional insured whether that insurance is primary, excess, contingent or on any other basis, unless you have specifically agreed in a written contract that this insurance be primary.

When coverage is provided to an additional insured on a primary basis pursuant to the terms in this endorsement, we will not seek contribution from any other insurance available to the additional insured if a written contract requires that this insurance be noncontributory.

E. With respect to the insurance afforded to these additional insureds, the following is added to **SECTION III – Limits Of Insurance:**

The most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement described in Paragraph A.1.; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

F. All other terms and conditions of this policy remain unchanged.



STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ELECTRICAL CONTRACTORS LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

(850) 487-1395

FLESNER, MARK J
MUSCO SPORTS LIGHTING, LLC.
100 1ST AVE W
OSKALOOSA IA 52577

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Commission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



STATE OF FLORIDA AC# 6189722
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION

ECA000891 07/06/12 128003235

CERTIFIED ELECTRICAL CONTRACTOR
FLESNER, MARK J
MUSCO SPORTS LIGHTING, LLC.

IS CERTIFIED under the provisions of Ch.489 FS
Expiration date: AUG 31, 2014 L12070601308

DETACH HERE

THIS DOCUMENT HAS A COLORED BACKGROUND • MICROPRINTING • LINE MARK™ PATENTED PAPER

AC# 6189722

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ELECTRICAL CONTRACTORS LICENSING BOARD

SEQ# L12070601308

DATE	BATCH NUMBER	LICENSE NBR
07/06/2012	128003235	ECA000891 Additional Business Qualification

The ELECTRICAL CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2014

FLESNER, MARK J
MUSCO SPORTS LIGHTING, LLC.
1601 9TH AVENUE EAST
OSKALOOSA IA 52577

RICK SCOTT
GOVERNOR

DISPLAY AS REQUIRED BY LAW

KEN LAWSON
SECRETARY

**Request for Taxpayer
Identification Number and Certification**

**Give Form to the
requester. Do not
send to the IRS.**

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return) Musco Corporation	
	Business name/disregarded entity name, if different from above Musco Sports Lighting, LLC	
	Check appropriate box for federal tax classification: ☐ Individual/sole proprietor ☐ C Corporation ☒ S Corporation ☐ Partnership ☐ Trust/estate ☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ ☐ Other (see instructions) ▶ _____	
	Exemptions (see instructions): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____	
	Address (number, street, and apt. or suite no.) 100 1st Ave West; PO Box 808 City, state, and ZIP code Oskaloosa IA 52577 List account number(s) here (optional)	
Requester's name and address (optional)		

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number								
			-					
Employer identification number								
4	2	-	1	1	0	7	4	5 2

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below), and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here	Signature of U.S. person ▶ <i>Debra H. Blunt</i>	Date ▶ <i>10-14-2013</i>
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. The IRS has created a page on www.irs.gov/w9 for information about Form W-9, at www.irs.gov/w9. Information about any future developments affecting Form W-9 (such as legislation enacted after we release it) will be posted on that page.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, payments made to you in settlement of payment card and third party network transactions, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the

withholding tax on foreign partners' share of effectively connected income, and

4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct.

Note. If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

RECEIVED
PURCHASING DIVISION

2014 JAN -3 P 1:19

CLAY COUNTY BOARD OF
COMMISSIONERS

Musco Sports Lighting

Clay County Purchasing Division

477 Houston Street

P.O. Box 1366

Green Cove Springs, FL 32043

904-278-3761

Receipt for Bid #: 13/14-8