

Exhibit A: “Scope of Work and Requirements”

The scope of work and requirements provided in Exhibit-A shall be included in the Vendor’s Basic Services. The descriptions in this document shall not reduce the level of services provided.

PROJECT SCOPE OF WORK

- This scope of work includes equipment, permitting, and wiring associated with light poles, fixtures, and foundations. In addition, provide layout, pole locations and aiming diagram. Light pole layout is based on a 4 pole system per field for both softball fields.
 - Musco will provide ‘Light-Structure Green’ – engineered from foundation to pole top in 5 easy pieces – control-Link systems.
 - In case additional spread footings are required Musco will supply the design and construction of spread footing as necessary to accommodate structural and wind design load criteria of lights and poles.
 - Musco will supply the electrical drawings: calculations, light distribution design, fixture calibration, fabrication, pole erections, associated underground wiring, service connections, operational programming, training and warranties for the lighting systems associated with both softball fields at C.M Herndon Park.
 - Musco will provide equipment and materials to off load equipment at jobsite per scheduled delivery.
 - Musco to assist and coordinate with the City to locate underground utilities not covered by ‘One Call’ and irrigation systems and sprinkler heads.
 - Musco will provide storage containers for material, (including ballast boxes) as necessary and waste disposal.
 - Musco will provide adequate security to protect Musco delivered products from theft, vandalism or damage during installation.
 - Musco will provide design, drawings and calculations necessary to acquire the permits required for construction and installation.
 - Musco will provide materials and equipment for electrical service panels as required or necessary based on the existing equipment.
 - Musco will provide materials and equipment to install all underground conduit, wiring, pull boxes etc. and terminate wiring as required per electrical design utilizing directional boring where possible.
 - Musco will confirm the existing underground utilities and irrigation systems have been located and are clearly marked so as to avoid damage from construction equipment.
 - Musco to provide materials and equipment to install foundations.
 - Musco to remove spoils to owner designated location at jobsite.
 - Musco to provide materials and equipment to assemble LSG fixtures and terminate all necessary wiring.
 - Musco is responsible for commissioning Control Link by contacting Control Link Central at (877-347-3319) to activate controls through the necessary administrative steps.
 - Musco is responsible for power company fees and requirements related to service panel modifications during the installation only.
 - Musco is responsible for checking all Zones to make sure they are operational in both auto and manual mode.
 - Musco is responsible for setting base line for the Diagnostic Acquisition System (DAS)

- Musco to provide startup and aiming as required to provide complete and operate sports lighting system.
- Musco will repair, replace and reestablish existing conditions (i.e. landscaping, site furnishings, fencing and concrete flatwork) in accordance to owner's approval.
- Musco to provide as-built drawings; close out documents, training, and executed warranties.

TECHNICAL SERVICE PROVISIONS

General Requirements

- This quote includes lighting equipment, installation and underground. Musco will provide our Light-Structure Green™ – engineered from foundation-to-pole top in 5 Easy Pieces™ – and Control-Link® systems.
- *Light-Structure Green System Benefits* - Musco's Light Structure Green System provides 25 years of safe, guaranteed light levels at the lowest operating cost in a hassle free manner by eliminating 100% of the maintenance and communication costs for your field lighting.
- Musco is the manufacturer and directly responsible for the production and performance of their lighting systems.
- This is a quality UL Listed lighting system designed for 25+ year life expectancy –designed to all applicable lighting standards, with engineered foundations, enclosed wiring, and remote ballasts for maintenance and easy fuse inspection.
- This system maintains the integrity of the light for 25 years (10,000 hours) of guaranteed maintained light levels with our patented Constant Light Technology.
- Engineered signed and sealed foundations by a licensed North Carolina Structural Engineer with concrete below grade to eliminate corrosion are provided with Musco's system.
- All maintenance associated with the lighting system including fixture repair, spot and group relamping covered by Musco's Constant 25 warranty.
- Musco provides specifically funded reserves to assure owners of their ability to back up the performance claims and maintenance.
- Musco provides testing and accountability throughout warranty period
- Light Structure Green provides the lowest cost of ownership over an expected 30-40 year life cycle of this lighting system as compared to conventional depreciating technology.
- Musco Sports Lighting is the only manufacturer with dedicated field service/maintenance staff with a local office.
- Control Link internet based control and monitoring system provides the most comprehensive values/features. All communication costs are included during the 25 year warranty period.
- Glare and spill light control is reduced by at least 50% compared to conventional light
- technology as specified through improved photometric and proper mounting height

Technical Criteria

- 480 Volt, 3 Phase copper in HDPE conduit (directional boring to minimize site impact where possible)
- Structural code and wind speed = IBC 2009, 90 MPH Exp C
- Signed and sealed foundation drawings
- Signed and sealed electrical drawings

SCHEDULE

Within one week of notice to proceed, the contractor shall submit a project schedule, with the due dates of the deliverables identified. Contractor shall have 90 days from notice to proceed (after signed submittal review) for construction. Scheduled due dates will be based upon completing the project before the April 1st deadline which have been mutually agreed upon with the Supplier. If the Supplier cannot commit to completion, construction will be postponed to the summer of 2016. The Contractor must note the critical path to 100% substantial completion on the schedule. The schedule shall be updated monthly to reflect contract progress over the construction period. If completion of a task on the schedule is extended or delayed, the updated schedule shall reflect those changes. If the extended task is on the critical path, then a recovery schedule shall be provided for the Owner's acceptance. The updated schedule shall be submitted monthly with pay applications. The City of Durham Subcontractor Monthly Record of Payment report shall also be submitted with monthly invoices.

Preliminary Milestone Schedule:

- Approval of Award 1/4/16
- Contract Execution
- Submittal review
- Notice to Proceed
- Permitting
- Material Fabrication
- Site preparation and Mobilization
- Lighting Foundation preparation
- Wiring installation
- Pole and fixture assembly
- Programming and operations
- Site Clean-up (landscaping, grading) 4/1/16

COST BREAKDOWN

Turnkey Product Provisions

- Submittal Preparation and review
- Design and Electrical Permitting requirements and fees
- Material Cost
 - (7) Light poles, foundations and associated Fixtures
 - Site preparation and access materials
 - Underground wiring materials
 - Service Panel materials
 - Site repairs, replacement and cleanup materials
- General Conditions (Equipment, storage, security)
- Labor Cost
 - (7) Light poles, foundations and fixtures installation
 - Site preparation, coordination and access
 - Underground installation
 - Service panel, light aiming and programming
 - Site repairs, replacement and cleanup
- **Total** **216,000**