

TOWNSHIP OF LOWER MERION

PARKS & RECREATION COMMITTEE

**WEDNESDAY, JANUARY 14, 2026
6:45 PM (Approximately)**

Chairperson: Michael Daly

Vice Chairperson: Shelby Sparrow, Charles Gregory

AGENDA

1. **AUTHORIZATION TO EXECUTE A MEMORANDUM OF UNDERSTANDING WITH LOWER MERION LITTLE LEAGUE TO CONSTRUCT AND OPERATE LIGHTS AT ASHBURN FIELD**



Township of Lower Merion
A FIRST CLASS TOWNSHIP

AGENDA ITEM INFORMATION

COMMITTEE: Parks & Recreation

ITEM: **AUTHORIZATION TO EXECUTE A MEMORANDUM OF UNDERSTANDING WITH LOWER MERION LITTLE LEAGUE TO CONSTRUCT AND OPERATE LIGHTS AT ASHBURN FIELD**

Consider for recommendation to the Board of Commissioners authorizing the Township Manager to execute a Memorandum of Understanding (MOU) with Lower Merion Little League (LMLL) to establish terms and conditions under which LMLL will engage in a project comprising the construction and operation of lights at Richie Ashburn Field.

PUBLIC COMMENT

ATTACHMENT(S):

[Issue Briefing - LMLL Ashburn Lighting](#)

[Draft MOU - LMLL Ashburn Lighting](#)

[LMLL Ashburn - Lighting Plan](#)

TOWNSHIP OF LOWER MERION

Parks & Recreation Committee

Issue Briefing

Topic: Lighting Richie Ashburn Field

Prepared By: Donna L. Heller

Date: January 9, 2026

- I. **Action To Be Considered By The Board:** Authorizing the Township Manager to execute a Memorandum of Understanding (MOU) with Lower Merion Little League (LMLL) to establish terms and conditions under which LMLL will engage in a project comprising the construction and operation of lights at Richie Ashburn Field in Gladwyne.
- II. **Why This Issue Requires Board Consideration:** Projects of this nature require Board approval.
- III. **Current Policy Or Practice (If Applicable):** N/A
- IV. **Other Relevant Background Information:** Richie Ashburn Field is a 60-foot base path baseball diamond, dedicated on April 14, 2000, located at 1799 Youngs Ford Road, Gladwyne in Ward 2. This is the newest athletic field in the Township. The Township's system of active, developed parks is older, with many of them having been built in the 1930s and 40s in developing neighborhoods. Essentially neighborhood parks have been asked to accommodate community uses. The Township has looked for additional athletic fields for years, but the municipality is largely built out and the cost to acquire a large parcel of relatively flat land for an athletic field complex is prohibitively expensive.

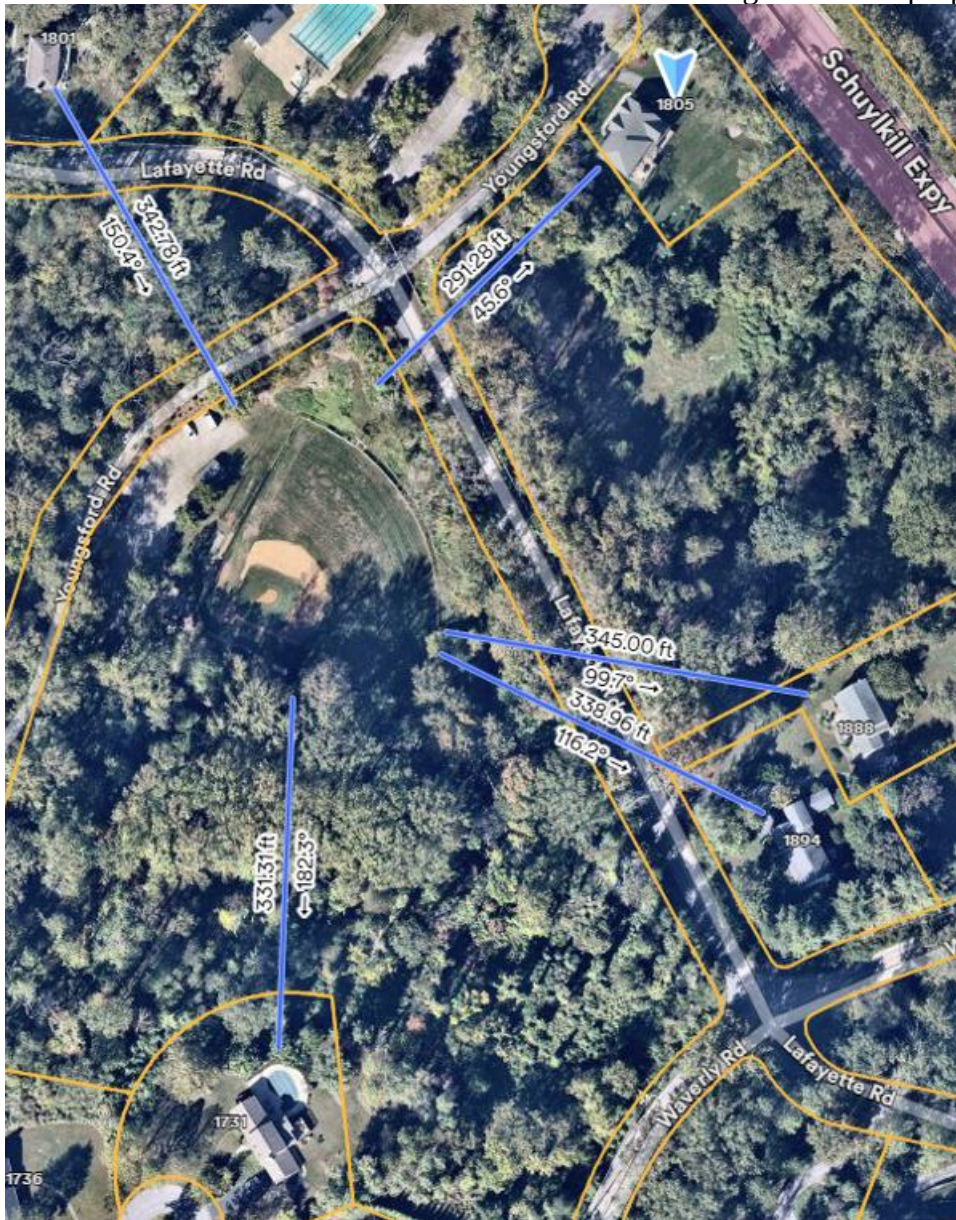
LMLL is the primary user group on this field and has approached the Township with this proposal to install lighting to extend the ability to play beyond natural light, especially in the spring and fall seasons. The lights would expand the usable field time. The Township Solicitor has reviewed the draft agreement and has taken no exception. The Township Zoning Officer has reviewed the initial lighting plan and has also taken no exception. He referred the Musco lighting plan to the Township's Lighting Consultant for review, since this is a Township owned property used for municipal purposes. The Lighting Consultant returned questions regarding footcandle spill at the property line on Youngs Ford Road., which LMLL addressed in a revised lighting plan (attached). The revised plan complies with the lighting ordinance.

Key points of the agreement are as follows:

- The Term of the Agreement shall be 5 years, and shall automatically renew on the same terms for an additional period of one (1) year and thereafter from year-to-year unless and until the Township wishes to terminate this lease at the expiration of the then current term.
- The lighting shall be the property of the Township and shall be insured as such.

- LMLL will be responsible for funding and completing the installation and operation of the lighting.
- LMLL shall ensure that any and all maintenance costs associated with the project are covered for not less than 25 years, or until such time as the Term is not renewed.
- LMLL will schedule Ashburn field with enough time for the Fielding lot to clear, before the arrival of the next user group, to reduce the impact on vehicular Fielding in the area.
- The field lights will not be permitted to be on past 10:00 PM daily and any egress or periphery lighting will not be permitted to be on past 10:30 PM, absent an advance approval of a time extension by the Township.
 - This follows the timing of Vernon V. Young Park, our only other lit outdoor athletic facility.
 -

Below is an ariel view with the distance to the surrounding residential properties.



Process

LMLL brought this idea to the Ward Commissioner and the Parks & Recreation Department at the end of 2023. To further investigate the feasibility of the lighting project, LMLL met with the Gladwyne Civic Association (GCA) at the firehouse in November of 2023. The concept of lights was not opposed but additional information and specifics were requested before considering further. LMLL had several email exchanges with the leadership of GCA over the following months. LMLL sent out mailings to the neighbors who border the park which yielded no response or a response of no concern from the neighbors. LMLL met with GCA leadership in early September of 2025 and attended the GCA meeting in September of 2025. At the end of September 2025, LMLL shared the submitted agreement and the plans concurrently with the Township and GCA so that input could be had from the GCA and the Township. The general consensus was supportive of the plan.

- V. **Impact On Township Finances:** The installation and operation of the lighting will be funded by LMLL.
- VI. **Staff Recommendation:** Staff recommends authorizing the Township Manager to execute a MOU with LMLL to establish terms and conditions under which LMLL will engage in a project comprising construction of lighting and the operation of the installed lights at Richie Ashburn Field.

**Memorandum of Understanding
RE: Ashburn Field Lighting**

**Between:
Lower Merion Little
League And
Lower Merion Township**

1. Parties

This Memorandum of Understanding (MOU) is made and entered into by and between **Lower Merion Little League** (LMLL), currently located at 1308 Gainsboro Circle, Bala Cynwyd, Pennsylvania, 19004 and the **Township of Lower Merion** (Township), with offices located at 75 East Lancaster Ave, Ardmore, Pennsylvania 19003.

2. Purpose

The purpose of this MOU is to establish terms and conditions under which LMLL will engage in a project ("Project") comprising construction of improvements at Richie Ashburn Field, which Field improvements will consist of lighting on the baseball field and the batting cage adjacent to the baseball field, and on the ingress/egress pathway from the Fielding lot, as well as any other necessary improvements related thereto ("Project Phase 1"), and operation of the installed lights in accordance with all subject Ordinances and directives from the Township and the Board of Commissioners ("Project Phase 2").

3. Term

This MOU ("Agreement") is in effect upon execution by authorized representatives of LMLL and the Township and shall remain in full force and effect through satisfactory completion of Project Phase 1 as described above, at which time this Agreement will be in force for Project Phase 2. The full Term of this Agreement shall be 5 years. Following the initial term, this lease shall automatically renew on the same terms for an additional period of one (1) year and thereafter from year-to-year unless and until the Township wishes to terminate this lease at the expiration of the then current term; provided, however that any such notice of termination must be given at least one hundred eighty (180) days prior to the end of the then current term.

4. LMLL Obligations

- A. LMLL shall contract with a licensed contractor approved by the Township in order to construct the proposed Project.
- B. LMLL shall make applications for all applicable Township permits and shall comply with such permits once approved and issued by the Township.
- C. LMLL shall require its contractor to be registered by the Township in order to guarantee the satisfactory completion of the Project.

- D. LMLL shall name the Township as an additional insured and shall secure a certificate of insurance in amounts acceptable to the Township.
- E. The Project shall be designed and constructed in accordance with all codes and regulations for the Township.
- F. LMLL shall ensure that any and all maintenance costs associated with any constructed feature in Project Phase 1 are covered for not less than 25 years, or until such time as the Term is not renewed.
- G. LMLL shall be responsible for payment of any and all costs and fees associated with the construction and installation of the lights in Project Phase 1.
- H. LMLL shall be responsible for operation of the lights in accordance with all Ordinances, rules or rulings, directives from the Township's Board of Commissioners, and requests and instructions from the Township.
- I. All operational and/or utility costs shall become the sole responsibility of LMLL for the duration of the Term, either by responsibility transfer to LMLL or reimbursement by LMLL, at the discretion of the Township.
- J. LMLL shall operate the lights only during the LMLL season(s) and only for baseball- or softball-related activities.
- K. LMLL shall operate the lights at other times and/or for other purposes as directed by the Township, including for but not limited to Township functions held at Richie Ashburn Field.
- L. LMLL shall provide remote access and control to the lighting as well as share contact information for all corresponding individuals for use by Township personnel, in case of emergency, as directed by the Township.

5. Township Obligations

- A. The Township will provide inspection and approval of all improvements and in order to guarantee compliance with Township code.
- B. The Township has the right to provide such personnel, services, equipment, or other assistance for the Project, at its sole discretion, if and as indicated and approved by the Township Manager.

6. Indemnification

LMLL agrees to indemnify and hold harmless the Township, its elected officials, its employees, their successors and assigns from any and all claims, actions, causes of actions, damages, attorney's fees or other obligations of any kind, including but not limited

to claims for damages to persons or property that may arise against the Township, as a result of the proposed project performed by LMLL.

7. Ownership and Use of Improvements

- A. All improvements to the property, including the lighting, shall be the property of the Township and shall be insured as such.
- B. Should LMLL become unable to perform its obligations under this agreement, or cease to exist as an organization, its rights and obligations hereunder shall be freely assignable and/or revert entirely to the Township.
- C. LMLL's rights and obligations under this agreement shall be assignable only upon receipt of express written permission from the Township.
- D. LMLL shall have primary use of the lighting from March to mid-November of each year, except for Township activities and at other times as directed by the Township.
- E. LMLL will operate the lights in accordance with all Township Ordinances and Policies with regard to operation and use. The field lights will not be permitted to be on past 10:00 PM daily and any egress or periphery lighting will not be permitted to be on past 10:30 PM, absent an advance approval of a time extension by Township personnel.
- F. LMLL will schedule Ashburn field with enough time for the Fielding lot to clear, before the arrival of the next user group, to reduce the impact on vehicular Fielding in the area.
- G. LMLL will not be charged any additional "use fee" for the use of the facilities when lit, except so as to cover costs as indicated above.
- H. The Township shall maintain and winterize the facilities and structures at Richie Ashburn Field other than the lighting as indicated herein, which will be maintained, including any necessary winterization, by LMLL.
- I. LMLL shall perform any additional renovations needed so as to use and maintain the lighting for the Term, and LMLL agrees that any such improvements and renovations at Ashburn field shall be reviewed and approved in advance by the Township.

On behalf of Lower Merion Township:

Ernie B. McNeely, Township Manager

Date

On behalf of Lower Merion Little League:

Steve Wally Orlov, President

Date



Brien McMahon High School, Norwalk, Connecticut, USA



Lakeside High School, Lake Elsinore, California, USA



Mount Mercy University Athletic Complex, Cedar Rapids, Iowa, USA



James Madison University, Harrisonburg, Virginia, USA

Lower Merion Little League

Gladwyne, PA

Sales Representative: Andrew O'Connell · Designed By: Vashon Alexander · Design No.: 171751C_R1 · January 07, 2026

Lower Merion Little League
Gladwyne,PA

LIGHTING SYSTEM

Structure/Fixture Summary						
Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Load	Circuit
A1	60'	60'	1	TLC-LED-1200	1.17 kW	A
		60'	2	TLC-LED-900	1.76 kW	A
		60'	3	TLC-LED-550	1.62 kW	B
		16'	1	TLC-BT-575	0.57 kW	A
A2	60'	60'	1	TLC-LED-1200	1.17 kW	A
		60'	2	TLC-LED-900	1.76 kW	A
		16'	1	TLC-BT-575	0.57 kW	A
B1-B2	70'	70'	1	TLC-LED-1200	1.17 kW	A
		70'	5	TLC-LED-900	4.40 kW	A
		16'	1	TLC-BT-575	0.57 kW	A
4			25		20.92 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Ashburn Field	19.30 kW	22
B	Parking/Playground	1.62 kW	3

Fixture Type Summary								
Type	Circuit	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	A	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	4
TLC-LED-1200	A	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	4
TLC-LED-550	B	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	3
TLC-LED-900	A	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	14

Single Fixture Amperage Draw Chart								
Driver Specifications (.90 min power factor)			Line Amperage Per Fixture (max draw)					
Single Phase Voltage			208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)
TLC-LED-1200			6.9	6.5	6.0	5.2	4.2	3.0
TLC-LED-900			5.2	4.9	4.5	3.9	3.1	2.3
TLC-BT-575			3.3	3.2	2.9	2.5	2.0	1.5
TLC-LED-550			3.2	3.0	2.8	2.4	1.9	1.4

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Ashburn Field (Infield)	Horizontal Illuminance	51.39	39	64	1.61	1.30	A	22
Ashburn Field (Outfield)	Horizontal Illuminance	32.96	21	45	2.12	1.55	A	22
Batting Cage	Horizontal	20.44	15	25	1.63	1.34	A	22
Parking	Horizontal	6.54	1	15	15.65	6.77	B	3
Playground	Horizontal	7.48	4	10	2.77	1.99	B	3
Property Line Spill @ 3ft	Horizontal Illuminance	0.0209	0.00	0.17	-	-	A,B	25

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Equipment List For Areas Shown								
Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-550	3*	0	3
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	A2	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
2	B1-B2	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-900	5	5	0
				15.5'	TLC-BT-575	1	1	0
4	Totals					25	22	3

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



Lower Merion Little League

Gladwyne,PA

Grid Summary

Name: Ashburn Field

Size: 200'/200'/200' - basepath 60'

Spacing: 20.0' x 20.0'

Height: 3.0' above grade

	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	51.39	32.96
Maximum:	64	45
Minimum:	39	21
Avg/Min:	1.30	1.55
Guaranteed Max/Min:	2	2.5
Max/Min:	1.61	2.12
UG (adjacent pts):	1.22	1.36
CU:	0.67	
No. of Points:	25	73
FIXTURE INFORMATION		
Applied Circuits:	A	
No. of Fixtures:	22	
Total Load:	19.30 kW	

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Equipment List For Areas Shown								
Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-550	3*	0	3
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	A2	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
2	B1-B2	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-900	5	5	0
				15.5'	TLC-BT-575	1	1	0
4	Totals					25	22	3

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration





SCALE IN FEET 1 : 20

0'

20'

40'

ENGINEERED DESIGN By: Vashon Alexander • File #171751C_R1 • 07-Jan-26

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

Lower Merion Little League

Gladwyne,PA

Grid Summary	
Name:	Batting Cage
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	20.44
Maximum:	25
Minimum:	15
Avg/Min:	1.34
Max/Min:	1.63
UG (adjacent pts):	1.52
CU:	0.02
No. of Points:	12
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	22
Total Load:	19.30 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

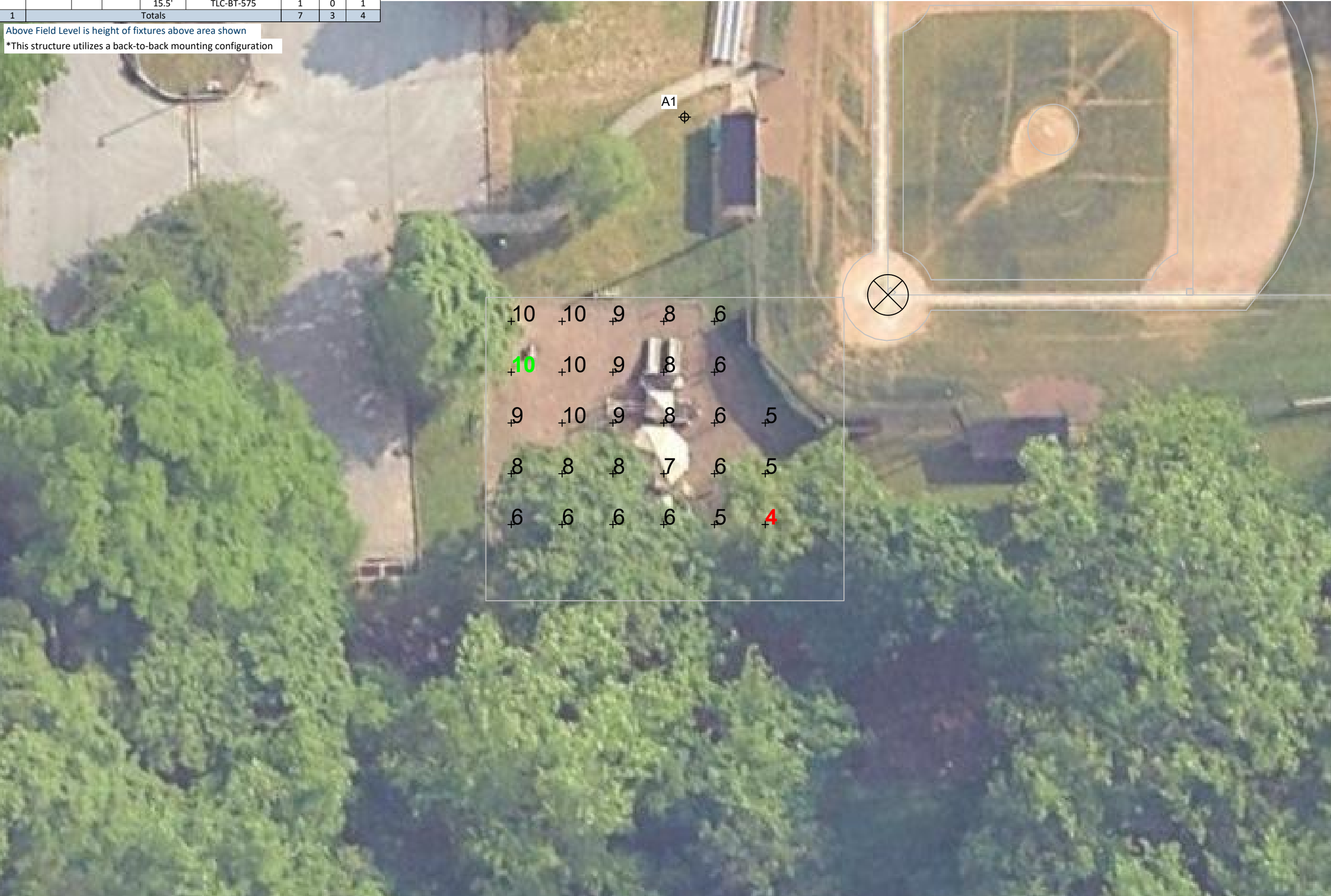
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Equipment List For Areas Shown							
Structure				Fixtures			
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID
1	A1	60'	-	60'	TLC-LED-1200	1	0
				60'	TLC-LED-550	3*	3
				60'	TLC-LED-900	2	0
				15.5'	TLC-BT-575	1	0
1	Totals					7	3

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



Lower Merion Little League

Gladwyne,PA

Grid Summary	
Name:	Playground
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	7.48
Maximum:	10
Minimum:	4
Avg/Min:	1.99
Max/Min:	2.77
UG (adjacent pts):	1.33
CU:	0.11
No. of Points:	28
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	3
Total Load:	1.62 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

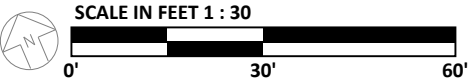
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Equipment List For Areas Shown								
Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-1200	1	0	1
				60'	TLC-LED-550	3*	3	0
				60'	TLC-LED-900	2	0	2
				15.5'	TLC-BT-575	1	0	1
1	Totals					7	3	4

*This structure utilizes a back-to-back mounting configuration



ENGINEERED DESIGN By: Vashon Alexander • File #171751C_R1 • 07-Jan-26

Grid Summary	
	Name: Parking Spacing: 10.0' x 10.0' Height: 6.0' above grade

MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	6.54
Maximum:	15
Minimum:	1
Avg/Min:	6.77
Max/Min:	15.65
UG (adjacent pts):	2.24
CU:	0.27
No. of Points:	79
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	3
Total Load:	1.62 kW

ILLUMINATION SUMMARY ¹⁴

Lower Merion Little League

Gladwyne,PA

Grid Summary	
Name:	Property Line Spill @ 3ft
Spacing:	30.0'
Height:	3.0' above grade

Illumination Summary	
	INITIAL HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	0.0209
Maximum:	0.17
Minimum:	0.00
CU:	0.00
No. of Points:	28
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	25
Total Load:	20.92 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.





Lower Merion Little League

Gladwyne,PA

Equipment Layout

INCLUDES:

· Ashburn Field

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown

Structure				Fixtures		
QTY	STRUCTURE ID	SIZE	GLOBAL ELEVATION	ABOVE GLOBAL LEVEL	FIXTURE TYPE	QTY/POLE
1	A1	60'	-	60'	TLC-LED-1200	1
				60'	TLC-LED-550	3*
				60'	TLC-LED-900	2
				15.5'	TLC-BT-575	1
1	A2	60'	-	60'	TLC-LED-1200	1
				60'	TLC-LED-900	2
				15.5'	TLC-BT-575	1
2	B1-B2	70'	-	70'	TLC-LED-1200	1
				70'	TLC-LED-900	5
				15.5'	TLC-BT-575	1
4	Totals					25

*This structure utilizes a back-to-back mounting configuration

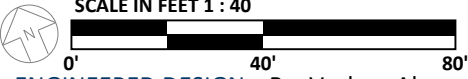
Above Global Level is height of fixtures above design (0,0,0)

Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage							
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4



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Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

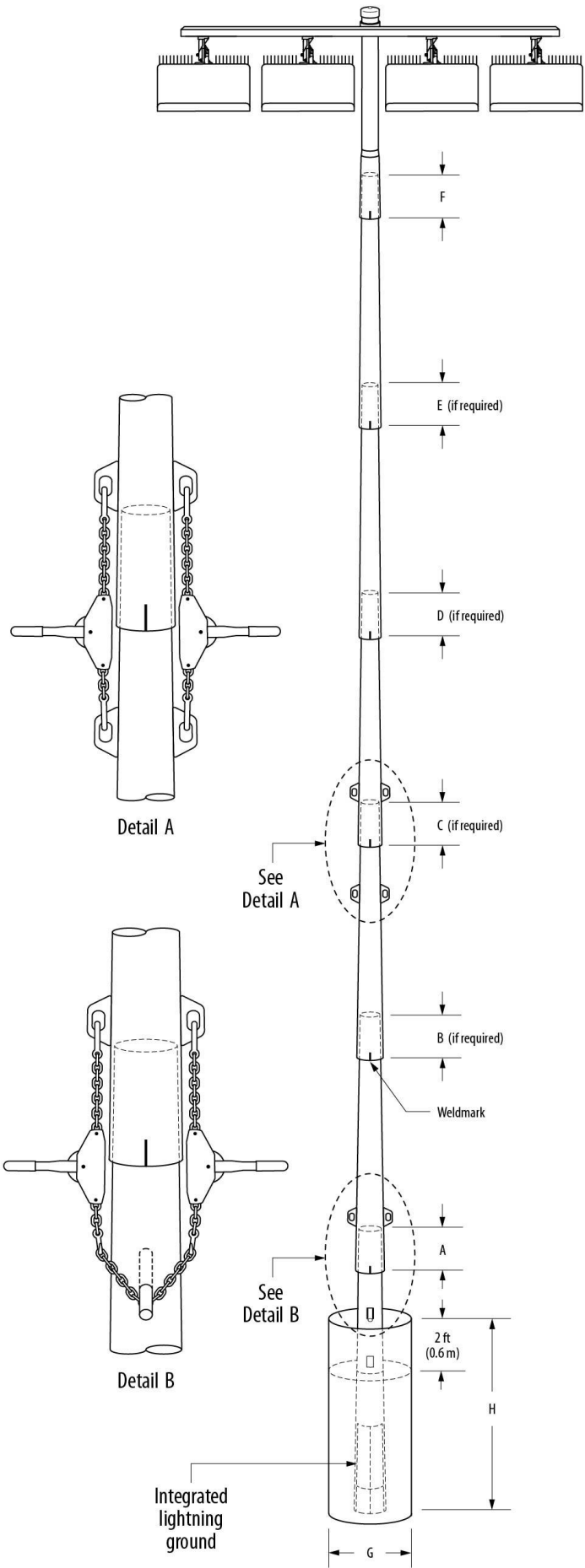
PRELIMINARY FOUNDATION AND POLE ASSEMBLY DRAWING

TABLE 1: POLE ASSEMBLY			
POLE ID	POLE HEIGHT ft (m)	# OF LUMINAIRES	ASSEMBLED POLE WEIGHT ³ lb (kg)
A1	60 (18.3)	6	1336 (606)
A2	60 (18.3)	4	1042 (473)
B1	70 (21.3)	6	1663 (754)
B2	70 (21.3)	6	1636 (742)

- Pole Assembly Notes:
- Steel pole should overlap concrete base and be seated tight with 1 1/2 ton come-alongs (contractor provided).
 - Align weldmarks on steel sections before assembling.
 - Assembled pole weight includes steel sections, crossarms, luminaires, and electrical components enclosures. If pole has stamped structural design then use pole weight (listed as vertical force) on stamped structural design document.
 - Section overlap must be pulled together until tight. Overlap measurement should be +/- 6 in (150 mm).
 - This document is not intended for use as an assembly instruction. See *Installation Instructions: Light-Structure System™ Lighting System* for complete assembly procedure.

TABLE 2: FOUNDATION DETAILS							
POLE ID	CONCRETE BASE WEIGHT lb(kg)	BURIAL INFORMATION ^{3,4}		CONCRETE BACKFILL ^{1,2} yd ³ (m ³)	CUT BASE	LIGHTNING GROUND ⁵	
		G in (mm)	H ft (m)			TYPE	SUPPLEMENTAL INSTRUCTION
A1	1840 (835)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED ⁶	N/A
A2	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED ⁶	N/A
B1	2720 (1234)	30 (762)	12 (3.7)	1.5 (1.1)	NO	INTEGRATED ⁶	N/A
B2	2720 (1234)	30 (762)	12 (3.7)	1.5 (1.1)	NO	INTEGRATED ⁶	N/A

- Foundation Notes:
- Concrete backfill is calculated to 2 ft (0.6m) below grade (no overage included). Top 2 ft (0.6m) to be class 5 soil compacted to 95% density of surrounding undisturbed soil unless otherwise specified in stamped structural design.
 - Concrete backfill required 3000 lb/in² (20 MPa) minimum.
 - Foundation design per 2018 IBC, 115 mph, exposure category C, variation STD (Risk Category II).
 - Assumes IBC class 5 soils.
 - Standard bases include integrated lightning protection. If bases are cut, supplemental lightning protection is required. Contact Musco for materials and instruction.
 - Lightning protection is a manufacturer installed concrete encased electrode and connector. Ground connection is made when concrete base is installed and footing is poured. No additional steps required.



R60-62-00-en04-01_B

Lower Merion Little League Richie Ashburn Field - Gladwyne, PA, USA

Date: 01/02/2024 Scale: Not to Scale
Representative: Andrew O'Connell Page: 1 of 1
Project: 171751 PRELIMINARY



System Requirements: Control System Summary

Project Name: Lower Merion Little League | Project #: 171751

Control System ID: 1 of 1

Distribution Panel Location/ID: Service #1

Project Information

Control System

Control System ID: 1 of 1
Control System Type: Control-Link ® Control and Monitoring System
Communication Type: PowerLine-ST

Project Notes:

Power Requirements

Control cabinet(s):

Control voltage (phase to neutral) 120/60
VA loading - Inrush 1798.0
VA loading - Sealed 206.0

Lighting Circuits:

Voltage/Hertz/Phase 240/60/1

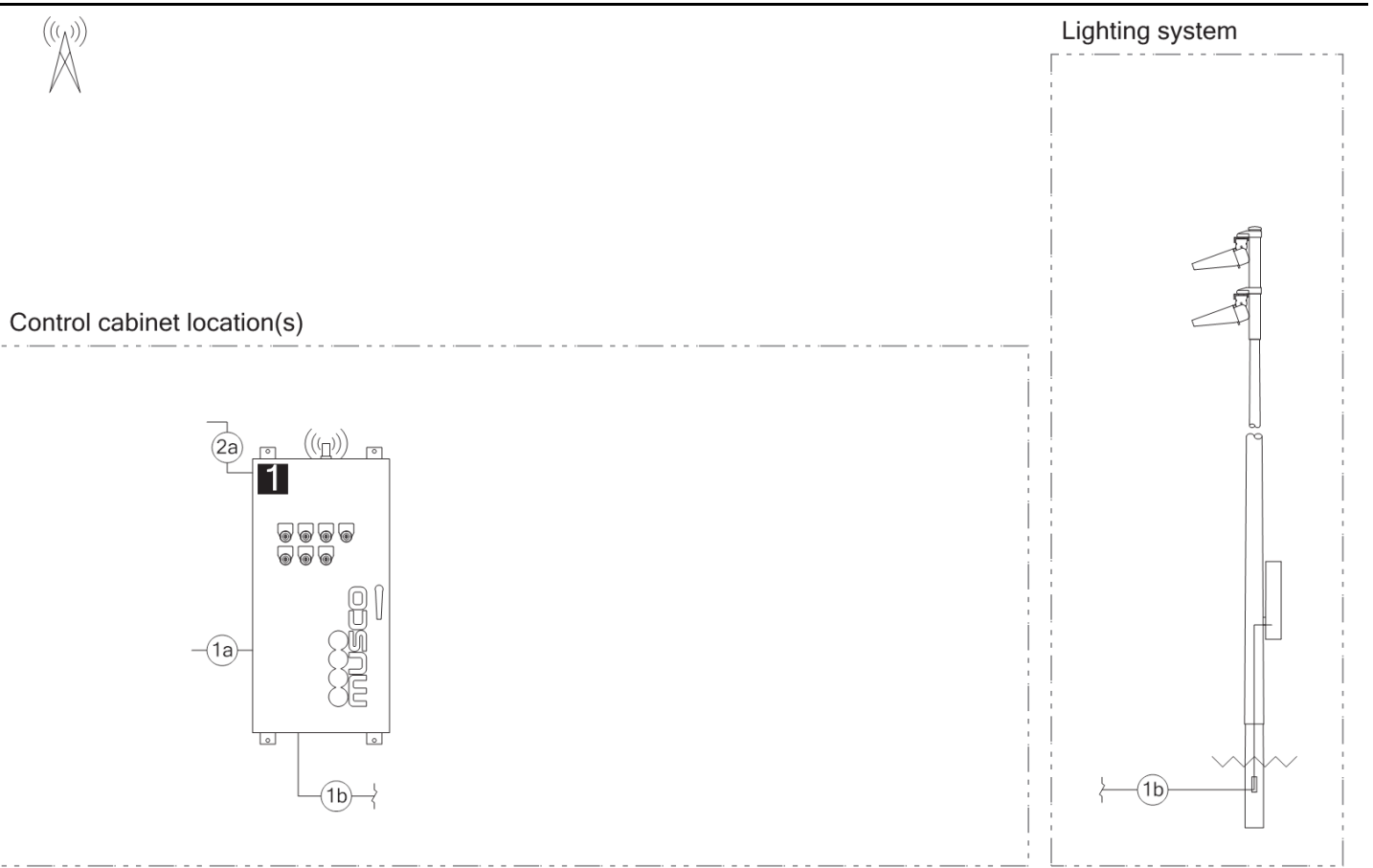
Equipment Listing

Description	Qty	Size (in)
Control and monitoring cabinet - primary	1	24 X 48
Contactors, 30 amperes	3	-
Contactors, 60 amperes	2	-
Off/On/Auto switches	2	-

Important Notes:

1. Please confirm that the lighting circuit voltage listed above is accurate for this facility. This is the voltage/phase being connected and utilized at each lighting pole's electrical components enclosure disconnect. Inaccurate voltage/phase can result in additional costs and delays. Contact your Musco sales representative to confirm this item.
2. In a 3 phase design, all 3 phases are to be run to each pole location. Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
3. One contactor is required for each circuit at each pole location. Contactors are 3 pole and 100% rated for the published continuous load.
4. If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
5. Size overcurrent devices using the full load amps column of the Circuit Summary by Switch chart (Minimum power factor is 0.9). Size conduit per code unless otherwise specified as larger to allow for harness connectors.
6. Avoid use of in-ground junction/pull boxes when possible. If used, the following best practices must be followed:
 - Underground handholes (pull boxes) must be supported to prevent settling. Boxes buried directly in soil, without support, are not allowed.
 - Use polymer concrete lids marked with ELECTRIC for underground handholes. Steel lids are not allowed.
 - Avoid underground connections when possible. If used, all wire connectors must be UL listed for Wet Locations to prevent leakage current.
7. Control power wiring must be in separate conduit from line or load power wiring. Communication cables must be in separate conduit from any power wiring.
8. Test wire per ANSI/NETA ATS-2021. Wires with insulation resistance less than 100 MOhms, in water-filled conduit, must be replaced.
9. Refer to Installation Instructions for more details on equipment information and the installation requirements.

Equipment Layout and Connection Details



Connection Details	
ID	Description
1a	Line power to contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
1b	Load power from contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
2a	Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.

Equipment	
ID	Description
1	Control and monitoring cabinet - primary

System Requirements: Control System Summary

Project Name: Lower Merion Little League | Project #: 171751

Control System ID: 1 of 1

Distribution Panel Location/ID: Service #1

Circuit Summary

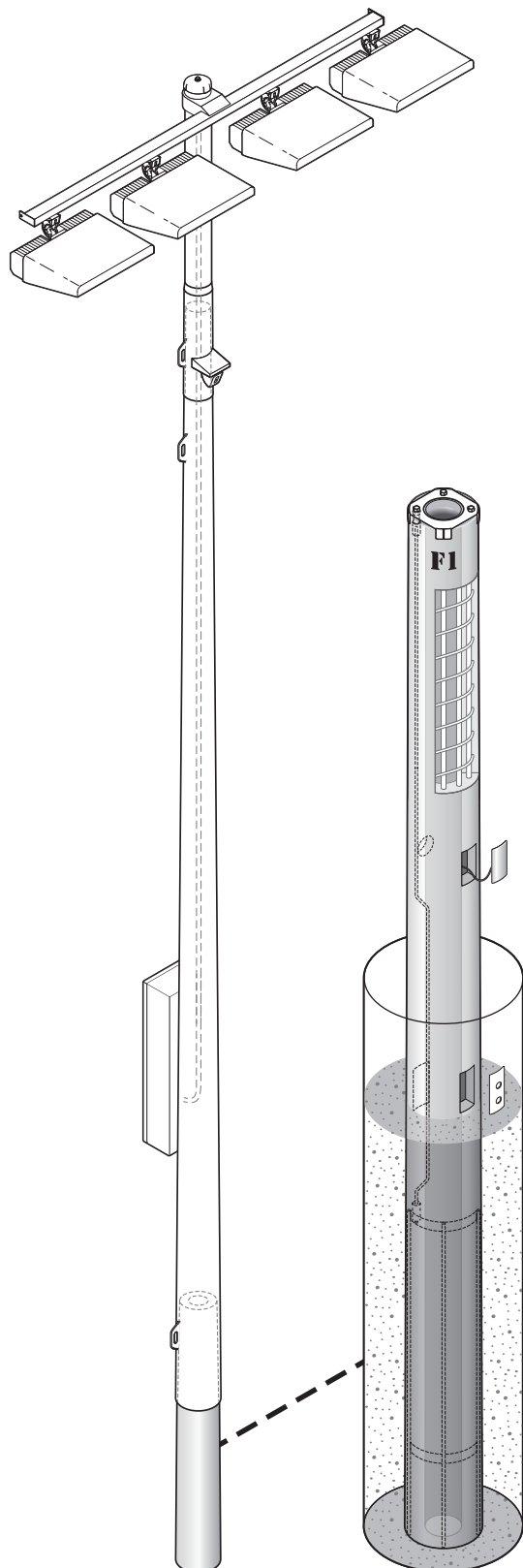
Switching Schedule	
Field/Switch Description	Switches
Ashburn Field	1
Security	2

Control Module ID: 1

Lighting Circuit Voltage: 240/60/1

Circuit Summary by Switch							
Switch	Zone Description	Pole ID	Qty of Fixtures	Full load amperes	Contactor Size (Amps)	Cabinet #	Contactor ID
1	Ashburn Field	A1	4	17.94	30	1	C1
	Ashburn Field	A2	4	17.94	30	1	C2
	Ashburn Field	B1	7	31.5	60	1	C3
	Ashburn Field	B2	7	31.5	60	1	C4
2	Security	A1	3	8.31	30	1	C5

TLC for LED® – Precast Concrete Base



Overview

The precast concrete base is set directly into the ground and backfilled with concrete. The base includes an integrated lightning ground system.

Features

Base

- Set pole on base in 24 hours
- Tapered upper section for slip-fit steel pole
- Access holes for wire entry
- Epoxy-coated ends prevent water intrusion
- Lifting hole accepts load-rated steel rod provided by Musco

Integrated Lightning Ground System

- Complies with NFPA 780, UL 96A, and EN 62305 standards when installed per Musco installation instructions
- UL Listed, Class II Lightning Protection, file number E337467
- Tested up to 100 kA by independent laboratory
- Steel pole interfaces with integrated grounding system by means of the pole grounding connector
- 2/0 AWG (crosssectional area of 67.4 mm²) grounding electrode conductor
- Concrete-encased grounding electrode, 20 ft (6.1 m) total length, 1/2 in (12.7 mm) diameter

Technical Specifications

Base dimensions vary. For measurements refer to project-specific *Foundation and Pole Assembly Drawing*.

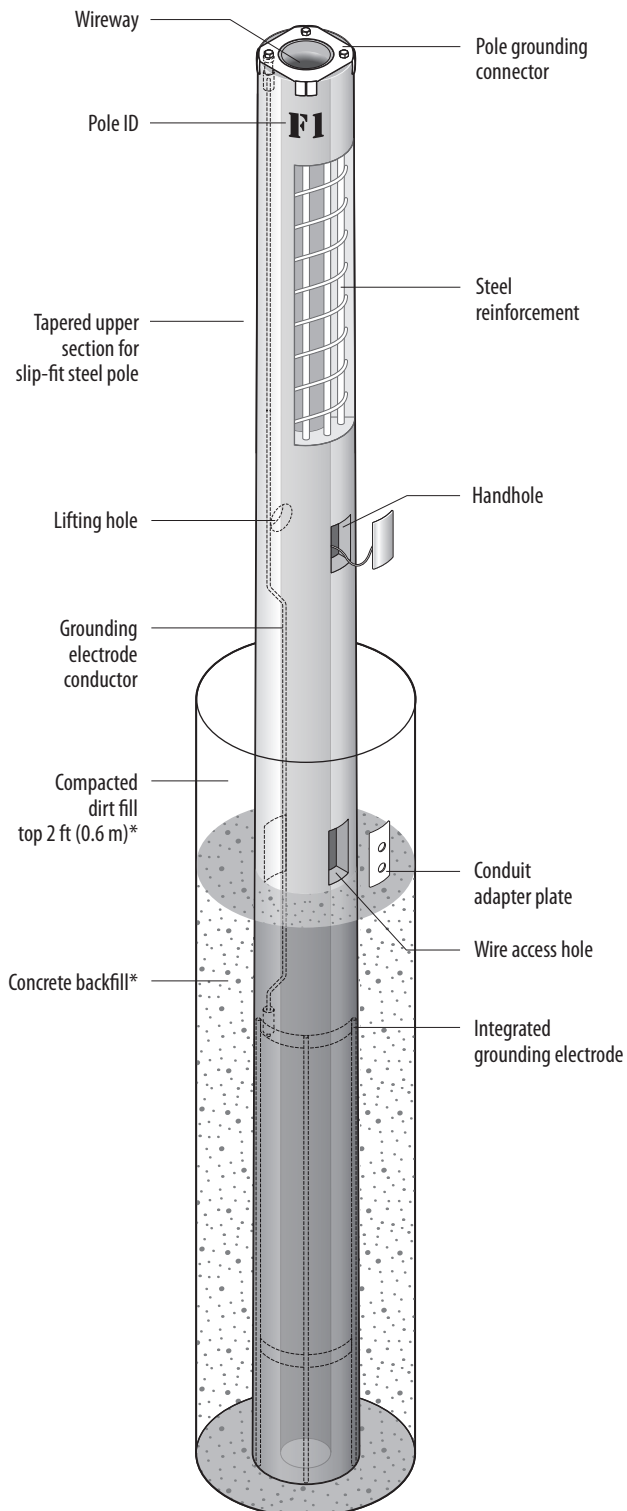
Construction

- Spun concrete construction
- Prestressed steel vertical strands and coil spiral for strength throughout base
- Minimum design strength is 9500 lb/in² (65.5 MPa) at 28 days
- Meets ASTM C1804 design requirements

Quality Assurance Tests

- 28-day compressive strength test on sample cylinder
- Bending moment capacity test on sample base
- Grounding system continuity
- Independent evaluation by ICC Evaluation Service, report #ESR-3765

TLC for LED® – Precast Concrete Base



*Standard pier foundation shown. Foundation and/or backfill may vary per alternate foundation design.