McCall Park Rincon, GA

Lighting System

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1	60'	60'	1	TLC-LED-550	0.54 kW	В
		60'	1	TLC-LED-900	0.88 kW	A
		60'	2	TLC-LED-550	1.08 kW	A
		16'	1	TLC-BT-575	0.57 kW	A
A2	60'	60'	1	TLC-LED-900	0.88 kW	А
		60'	2	TLC-LED-550	1.08 kW	A
		16'	1	TLC-BT-575	0.57 kW	A
B1-B2	70'	70'	1	TLC-LED-900	0.88 kW	A
		70'	3	TLC-LED-1200	3.51 kW	A
		16'	1	TLC-BT-575	0.57 kW	A
P1-P2	20'	20'	1	Cree OSQ	0.10 kW	В
6			21		15.74 kW	

Circuit Sumn	nary		
Circuit	Description	Load	Fixture Qty
A	Softball	15.00 kW	18
В	Walkway	0.74 kW	3

Fixture Type Summary

The sum of							
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity
Cree OSQ	LED 5700K - 70 CRI	100W	8,463				2
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	4
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	6
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	5
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	4

Single Luminaire Amperage	Oraw (Chart					
Driver Specifications		Lin	e Ampe	rage Pei	^r Lumina	ire	
(.90 min power factor)			(r	nax drav	N)		
Cingle Dhase Veltage	208	220	240	277	347	380	480
Single Phase Voltage	(60)	(60)	(60)	(60)	(60)	(60)	(60)
CREE OSQ	-	-	-	-	0.3	-	0.2
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric			Illumina	tion		Circuits	Fixture
Ghù Name	Calculation Wethe	Ave	Min	Max	Max/Min	Ave/Min	Circuits	Qty
Softball (Infield)	Horizontal Illuminance	32.55	23	38	1.68	1.45	A	18
Softball (Outfield)	Horizontal Illuminance	21.85	15	31	2.07	1.48	A	18
Softball Spill	Horizontal Illuminance	0.0196	0.00	0.07	-	-	A	18
Softball Spill	Max Vertical Illuminance Metric	0.0632	0.00	0.20	928.575	293.246	A	18
Softball Spill Max Candela	Max Candela (by Fixture)	2759.5906	6.14	8081.84	1316.669	449.584	A	18
Walkway	Horizontal	1.23	0	7	8134.32	1386.97	В	3



From Hometown to Professional



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PROJECT SUMMARY

ipme	ent Lis Pole		Areas	Shown	Luminaire	es																
	ATION	SIZE 60'	GRADE ELEVATION	ABOVE GRADE LEVEL 60'	LUMINAIRE TYPE TLC-LED-550	QTY/POLE		OTHER GRIDS 1														
				60' 15.5'	TLC-LED-900 TLC-BT-575	1	1	0														
	A2	60'	-	60' 60'	TLC-LED-550 TLC-LED-900	2	2	0	1	154.5	1.78	100	122	200	120	23	14		1	11.8	100	
B1	1-B2	70'	-	15.5' 70' 70'	TLC-BT-575 TLC-LED-1200 TLC-LED-900	1 3 1	1 3 1	0 0 0				22			264		22		100	a. 8		
				15.5' Totals	TLC-BT-575	1 19	1	0			5.1	-		6.12						1100	237	
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o' 40' 80' ENGINEERED DESIGN By: C.Lapaczonek • File #234559A • 28-Mar-24 Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) \bigotimes

McCall Park Rincon, GA

Grid Summary

Name Softball Size 225'/225'/225' - basepath 60' Spacing 20.0' x 20.0' Height 3.0' above grade

Illumination Summary

		MAINTAINED HORIZONTAL FOOTCANDLES
	Infield	Outfield
Guaranteed Average	30	20
Scan Average	32.55	21.85
Maximum	38	31
Minimum	23	15
Avg/Min	1.45	1.48
Guaranteed Max/Min	2.5	2
Max/Min	1.68	2.07
UG (adjacent pts)	1.34	1.44
CU	0.65	
No. of Points	25	94
LUMINAIRE INFORMATION		
Applied Circuits	A	
No. of Luminaires	18	
Total Load	15.00 kW	

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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										
Pole GRADE ABOVE GRADE	Luminaires	THIS OTHER								
QTY LOCATION SIZE ELEVATION LEVEL		GRID GRIDS								
1 A1 60' - 60' 60'	TLC-LED-550 3 TLC-LED-900 1	1 2 0 1								
2 P1-P2 20' - 20'	TLC-BT-575 1 CREE OSQ 1	0 1 1	-							
3 Totals	7	3 4	100							
*Above Grade level relative to the field	ALC: NO. OF	A1 \oplus	10.4							
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0' 60' 30' ENGINEERED DESIGN By: C.Lapaczonek • File #234559A • 28-Mar-24

SCALE IN FEET 1:30

Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) 🚫

McCall Park Rincon, GA

Grid Summary

Name Walkway Spacing 10.0' x 10.0' Height 3.0' above grade

Illumination Summa	ry
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average	1.23
Maximum	7
Minimum	0
Avg/Min	1386.97
Max/Min	8134.32
UG (adjacent pts)	5.89
CU	0.62
No. of Points	340
LUMINAIRE INFORMATION	
Applied Circuits	В
No. of Luminaires	3
Total Load	0.74 kW

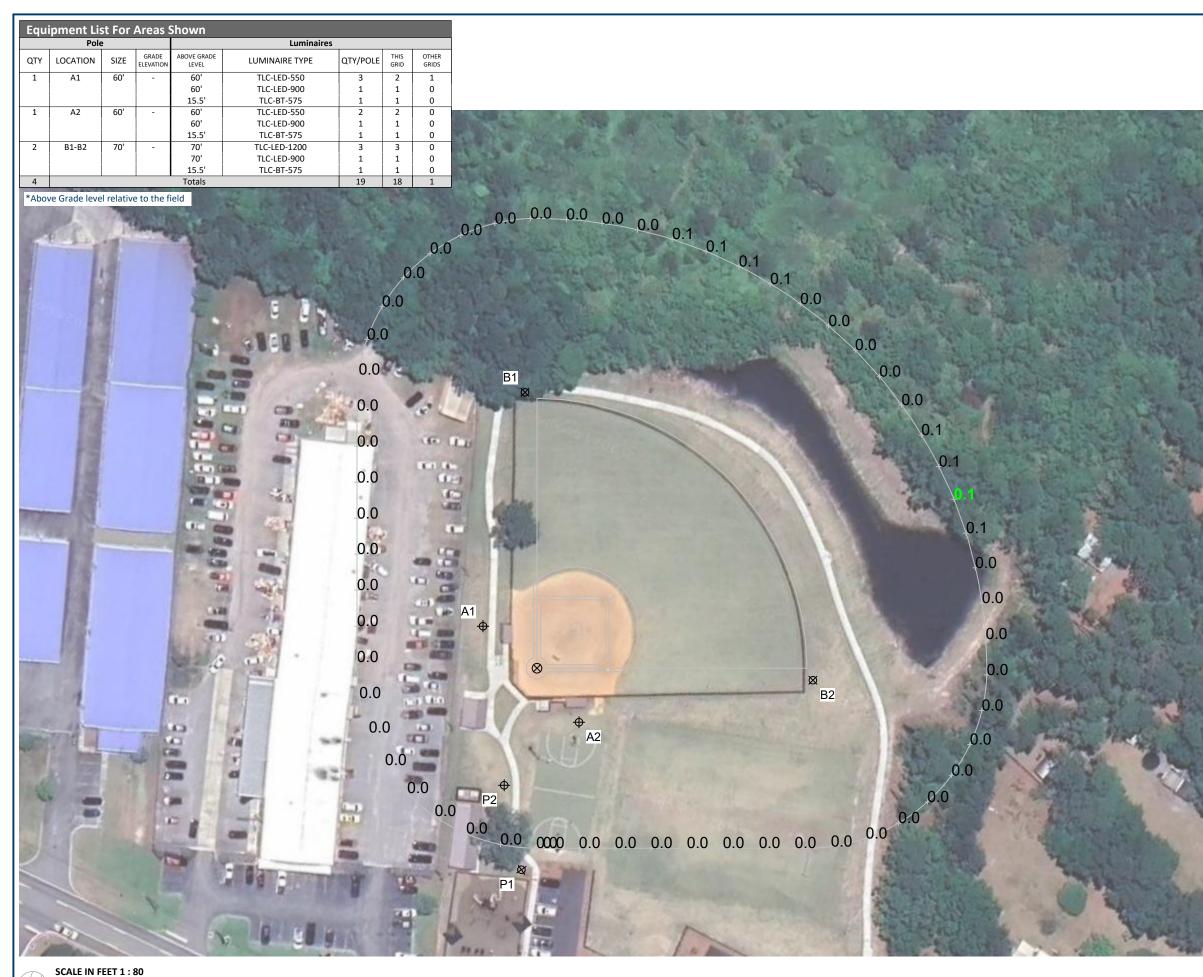
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.





o' 80' 160' ENGINEERED DESIGN By: C.Lapaczonek • File #234559A • 28-Mar-24

Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) \bigotimes

McCall Park Rincon, GA

Grid Summary

Name Softball Spill Spacing 30.0' x 30.0' Height 3.0' above grade

Illumination Summa	ry
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average	0.0196
Maximum	0.07
Minimum	0.00
CU	0.00
No. of Points	59
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	18
Total Load	15.00 kW

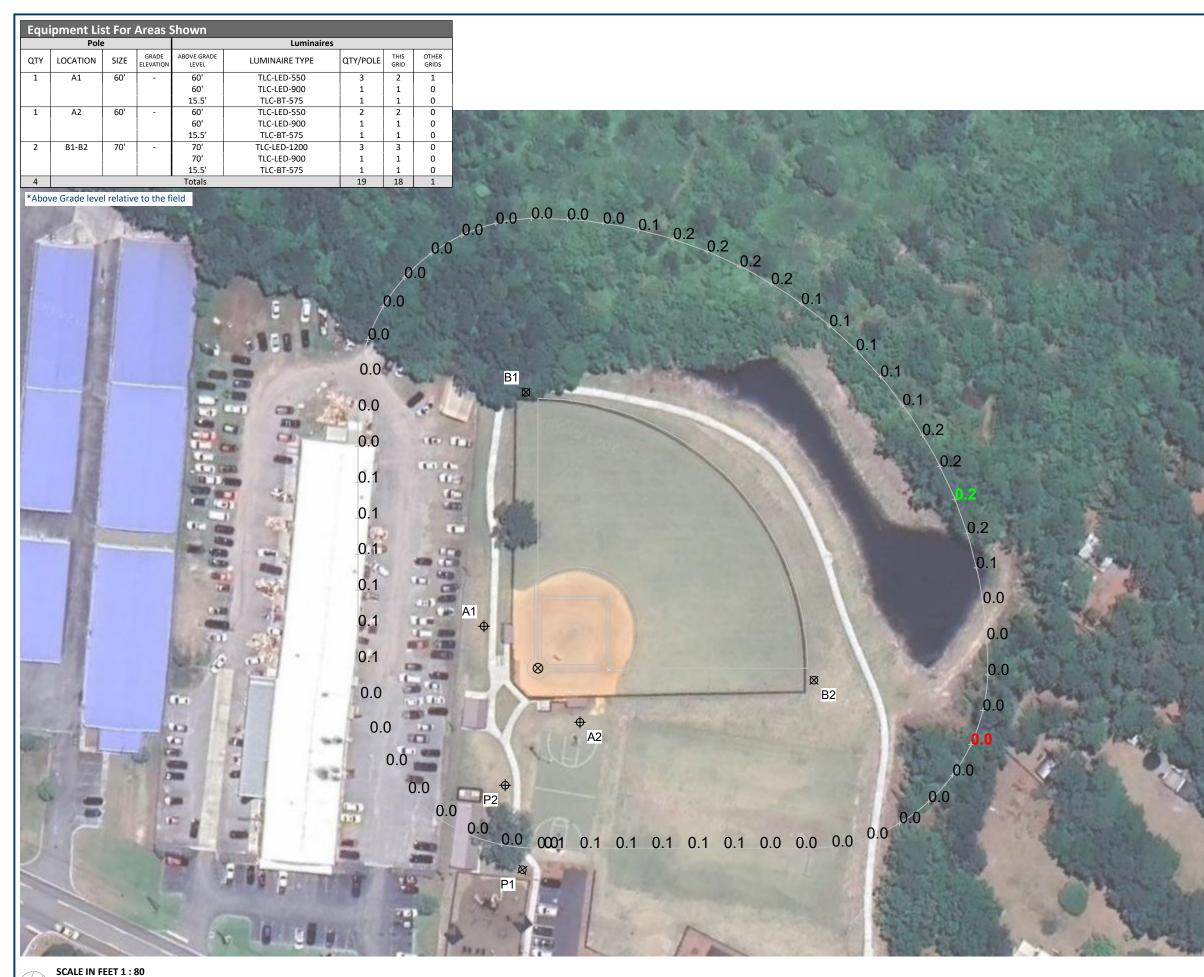
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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o' 80' 160' ENGINEERED DESIGN By: C.Lapaczonek • File #234559A • 28-Mar-24

Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) \bigotimes

McCall Park Rincon, GA

Grid Summary

Name Softball Spill Spacing 30.0' x 30.0' Height 3.0' above grade

llumination Summa	ry
	MAINTAINED MAX VERTICAL FOOTCANDLES
	Entire Grid
Scan Average	0.0632
Maximum	0.20
Minimum	0.00
CU	0.00
No. of Points	59
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	18
Total Load	15.00 kW

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Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.





160' 80' ENGINEERED DESIGN By: C.Lapaczonek • File #234559A • 28-Mar-24

Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) 🚫

McCall Park Rincon, GA

Grid Summary

Name Softball Spill Max Candela Spacing 30.0' x 30.0' Height 5.0' above grade

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Illumination Summary								
		MAINTAINED CANDELA (PER LIGHTBANK)						
	Entire Grid							
Scan Average	2759.5906							
Maximum	8081.84							
Minimum	6.14							
CU	0.00							
No. of Points	59							
LUMINAIRE INFORMATION								
Applied Circuits	А							
No. of Luminaires	18							
Total Load	15.00 kW							
Total Load	15.00 kW							

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





ENGINEERED DESIGN By: C.Lapaczonek • File #234559A • 28-Mar-24

Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) \bigotimes

McCall Park Rincon, GA

Equipment Layout

INCLUDES: · Softball

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									
	Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE			
1	A1	60'	-	60'	TLC-LED-550	3			
				60'	TLC-LED-900	1			
				15.5'	TLC-BT-575	1			
1	A2	60'	-	60'	TLC-LED-550	2			
				60'	TLC-LED-900	1			
				15.5'	TLC-BT-575	1			
2	B1-B2	70'	-	70'	TLC-LED-1200	3			
				70'	TLC-LED-900	1			
				15.5'	TLC-BT-575	1			
2	P1-P2	20'	-	20'	CREE OSQ	1			
6	6 Totals					21			

Single Luminaire Amperage Draw Chart										
Line Amperage Per Luminaire										
(max draw)										
208	220	240	277	347	380	480				
(60)	(60)	(60)	(60)	(60)	(60)	(60)				
-	-	-	-	0.3	-	0.2				
3.3	3.2	2.9	2.5	2.0	1.8	1.5				
6.9	6.5	6.0	5.2	4.2	3.8	3.0				
3.2	3.0	2.8	2.4	1.9	1.8	1.4				
5.2	4.9	4.5	3.9	3.1	2.9	2.3				
	208 (60) - 3.3 6.9 3.2	Line A 208 220 (60) (60) 3.3 3.2 6.9 6.5 3.2 3.0	Line Ampera (m 208 220 240 (60) (60) 3.3 3.2 2.9 6.9 6.5 6.0 3.2 3.0 2.8	Line Amperage Per (max dra 208 220 240 277 (60) (60) (60) (60) 3.3 3.2 2.9 2.5 6.9 6.5 6.0 5.2 3.2 3.0 2.8 2.4	Line Amperage Per Lum (max draw) 208 220 240 277 347 (60) (60) (60) (60) 0.3 3.3 3.2 2.9 2.5 2.0 6.9 6.5 6.0 5.2 4.2 3.2 3.0 2.8 2.4 1.9	Line Amperage Per Luminaire (max draw) 208 220 240 277 347 380 (60) (60) (60) (60) (60) (60) - - 0.3 - 0.3 - 3.3 3.2 2.9 2.5 2.0 1.8 6.9 6.5 6.0 5.2 4.2 3.8 3.2 3.0 2.8 2.4 1.9 1.8				



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EQUIPMENT LAYOUT