Benning Park Community Center Baseball Washington,DC

Lighting System

Pole / Fixture	Summary					
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	60'	60'	2	TLC-LED-1200	2.34 kW	Α
		30'	1	CREE OSQ	0.13 kW	В
B1-B2	60'	60'	3	TLC-LED-1200	3.51 kW	А
		16'	1	TLC-BT-575	0.58 kW	А
		30'	1	CREE OSQ	0.13 kW	В
C1	60'	60'	4	TLC-LED-1200	4.68 kW	Α
		16'	3	TLC-BT-575	1.73 kW	Α
		30'	2	CREE OSQ	0.26 kW	В
5			25		20.04 kW	

Circuit Summary								
Circuit	Description	Load	Fixture Qty					
Α	Baseball	19.25 kW	19					
В	Walkway	0.78 kW	6					

Fixture Type Summary							
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	14
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	5
CREE OSQ	LED 5700K - 70 CRI	130W	16,599				6

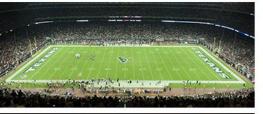
Light Level Summary

alculation Grid Summary										
Grid Name	Calculation Metric			Illumination			Circuits	Fixture Qty		
Cria Haine	Galculation Metric	Ave	Min	Max	Max/Min	Ave/Min	Oncuita	Tixture Qty		
150' Spill	Horizontal Illuminance	0.02	0	0.11	37.69		A,B	25		
150' Spill	Max Candela Metric	1363	196	3402	17.39	6.97	A,B	25		
150' Spill	Max Vertical Illuminance Metric	0.08	0.02	0.41	22.24	4.11	A,B	25		
Baseball (Infield)	Horizontal Illuminance	52.1	40	65	1.62	1.30	Α	19		
Baseball (Outfield)	Horizontal Illuminance	32.9	21	50	2.38	1.57	Α	19		
Walkway	Horizontal	1.50	0.02	5.28	278.40	74.93	В	6		

From Hometown to Professional

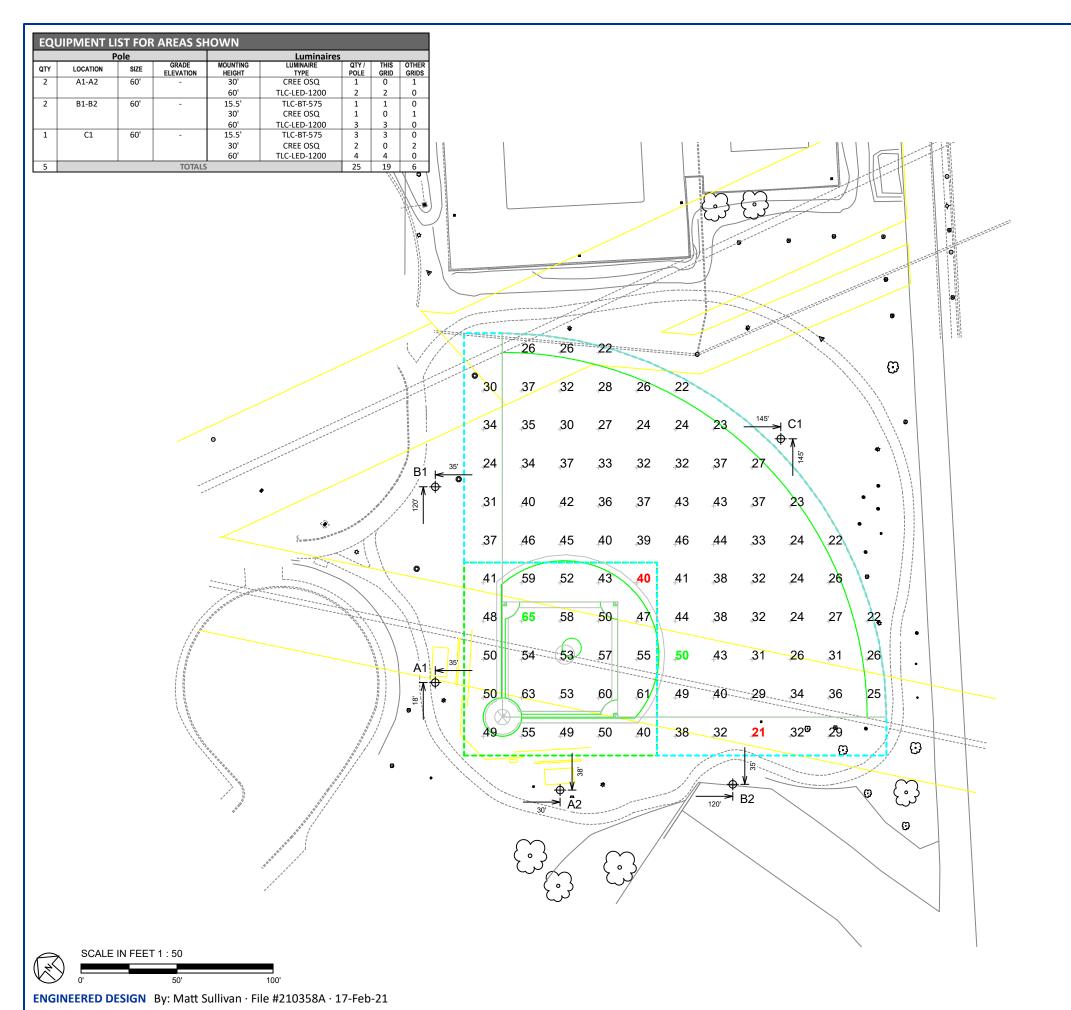












Benning Park Community Center Baseball Washington,DC

GRID SUMMARY

Name: Baseball
Size: 200'/200'/200' - basepath 60'
Spacing: 20.0' x 20.0'
Height: 3.0' above grade

ILLUMINATION S	ILLUMINATION SUMMARY						
MAINTAINED HORIZONTA	AL FOOTCANDLI	ES					
	Infield	Outfield					
Guaranteed Average:	50	30					
Scan Average:	52.10	32.87					
Maximum:	65	50					
Minimum:	40	21					
Avg / Min:	1.29	1.55					
Guaranteed Max / Min:	2	2.5					
Max / Min:	1.62	2.38					
UG (adjacent pts):	1.50	1.61					
CU:	0.69						
No. of Points:	25	71					
LUMINAIRE INFORMATIO	LUMINAIRE INFORMATION						
Applied Circuits:	Α						
No. of Luminaires:	19						
Total Load:	19.26 kW						

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

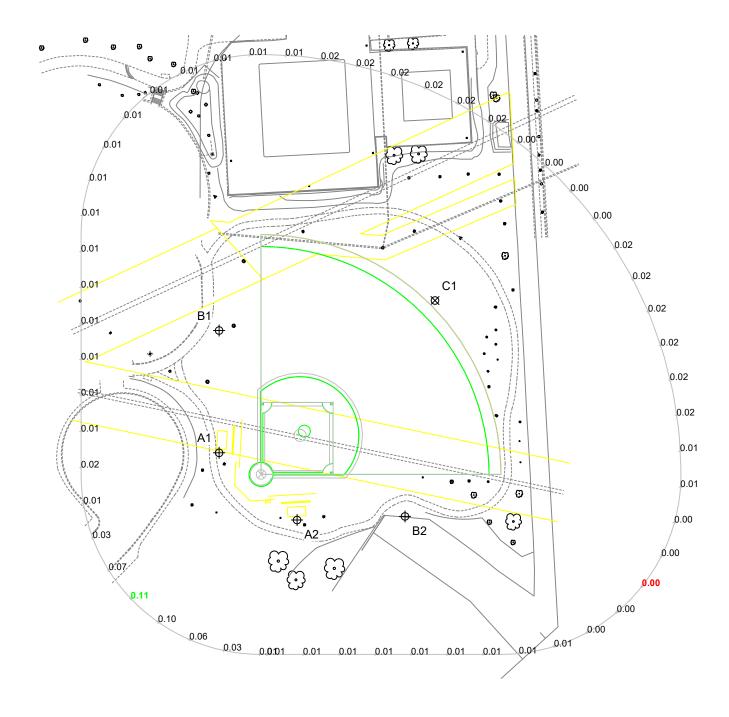
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

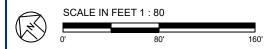
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



EQI	EQUIPMENT LIST FOR AREAS SHOWN										
	P	ole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING LUMINAIRE QTY / THIS HEIGHT TYPE POLE GRID							
2	A1-A2	60'	-	30'	CREE OSQ	1	1	0			
				60'	TLC-LED-1200	2	2	0			
2	B1-B2	60'	-	15.5'	TLC-BT-575	1	1	0			
				30'	CREE OSQ	1	1	0			
				60'	TLC-LED-1200	3	3	0			
1	C1	60'	-	15.5'	TLC-BT-575	3	3	0			
				30'	CREE OSQ	2	2	0			
				60'	TLC-LED-1200	4	4	0			
5	TOTALS						25	0			





ENGINEERED DESIGN By: Matt Sullivan · File #210358A · 17-Feb-21

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

Benning Park Community Center Baseball Washington,DC

GRID SUMMARY Name: Spacing: Height: 30.0' 3.0' above grade

ILLUMINATION S	UMMARY	
HORIZONTAL FOOTCAND	LES	
	Entire Grid	
Scan Average:	0.0177	
Maximum:	0.11	
Minimum:	0.00	
No. of Points:	56	
LUMINAIRE INFORMATIO	N	
Applied Circuits:	A, B	
No. of Luminaires:	25	
Total Load:	20.04 kW	

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

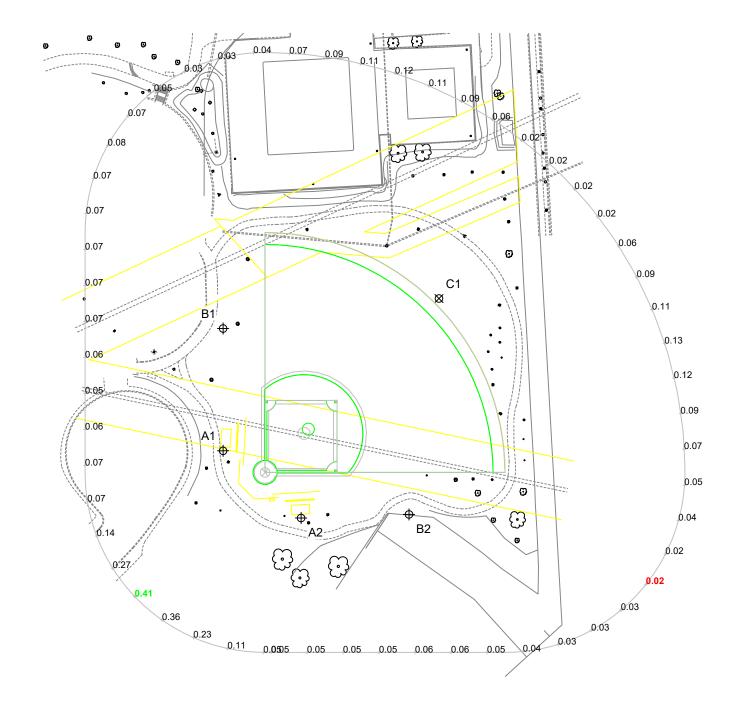
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

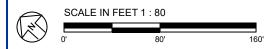
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



EQI	EQUIPMENT LIST FOR AREAS SHOWN										
	P	ole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING LUMINAIRE QTY / THIS HEIGHT TYPE POLE GRID							
2	A1-A2	60'	-	30'	CREE OSQ	1	1	0			
				60'	TLC-LED-1200	2	2	0			
2	B1-B2	60'	-	15.5'	TLC-BT-575	1	1	0			
				30'	CREE OSQ	1	1	0			
				60'	TLC-LED-1200	3	3	0			
1	C1	60'	-	15.5'	TLC-BT-575	3	3	0			
				30'	CREE OSQ	2	2	0			
				60'	TLC-LED-1200	4	4	0			
5	TOTALS							0			





ENGINEERED DESIGN By: Matt Sullivan · File #210358A · 17-Feb-21

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

Benning Park Community Center Baseball Washington,DC

Name: 150' Spill
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION S	UMMARY	
MAX VERTICAL FOOTCAN	IDLES	
	Entire Grid	
Scan Average:	0.0821	
Maximum:	0.41	
Minimum:	0.02	
No. of Points:	56	
LUMINAIRE INFORMATIO	N	
Applied Circuits:	A, B	
No. of Luminaires:	25	
Total Load:	20.04 kW	

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

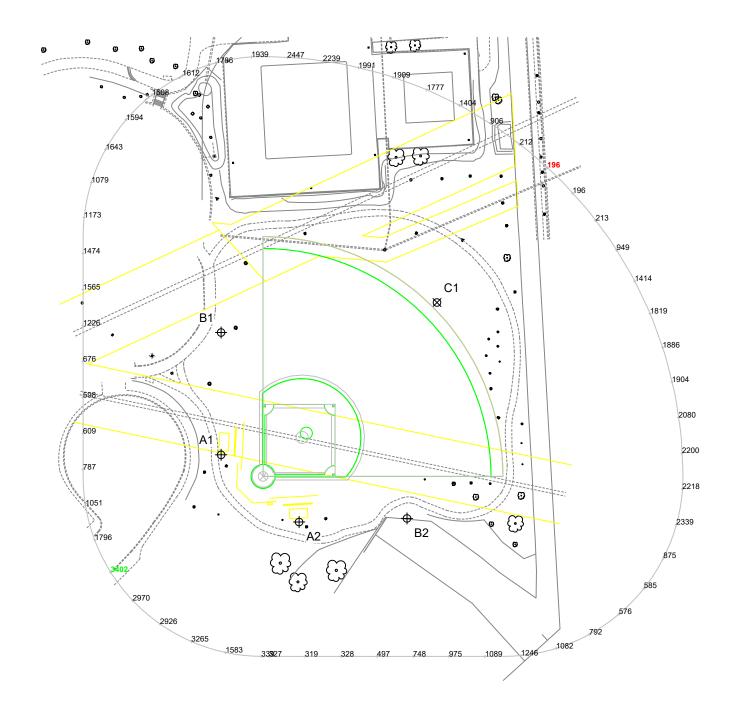
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



EQI	EQUIPMENT LIST FOR AREAS SHOWN										
	P	ole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING LUMINAIRE QTY / THIS HEIGHT TYPE POLE GRID							
2	A1-A2	60'	-	30'	CREE OSQ	1	1	0			
				60'	TLC-LED-1200	2	2	0			
2	B1-B2	60'	-	15.5'	TLC-BT-575	1	1	0			
				30'	CREE OSQ	1	1	0			
				60'	TLC-LED-1200	3	3	0			
1	C1	60'	-	15.5'	TLC-BT-575	3	3	0			
				30'	CREE OSQ	2	2	0			
				60'	TLC-LED-1200	4	4	0			
5	TOTALS 25 25										





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

Benning Park Community Center Baseball Washington,DC

ILLUMINATION SUMMARY

GRID SUMMARY Name: 150' Spill Spacing: 30.0' Height: 3.0' above grade

CANDELA (PER FIXTURE)

Entire Grid
1363.2137

Maximum: 3402.11

Minimum: 195.63

No. of Points: 56

LUMINAIRE INFORMATION

Applied Circuits: A, B

No. of Luminaires: 25

Total Load: 20.04 kW

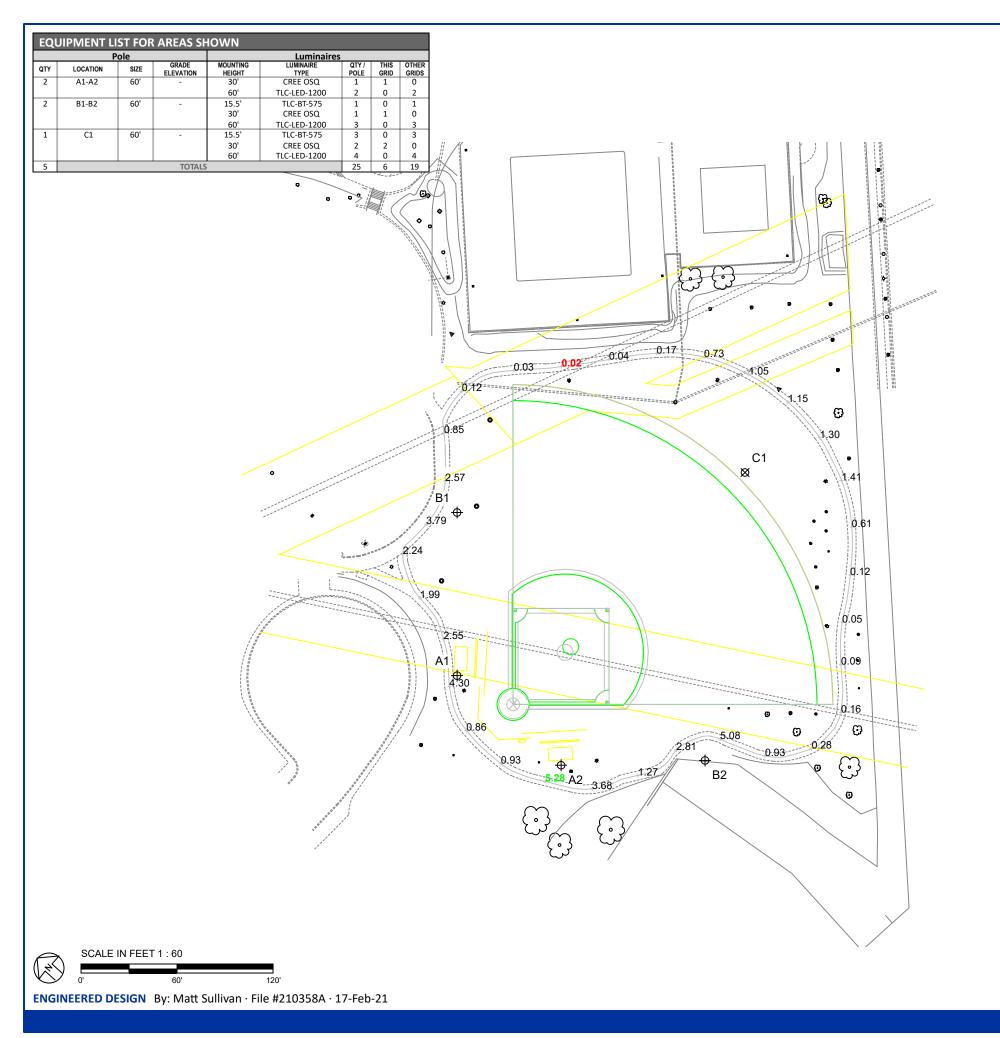
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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





Benning Park Community Center Baseball Washington,DC

RRID SUMMARY Name: Walkway Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION S	UMMARY
HORIZONTAL FOOTCAND	LES
Scan Average:	Entire Grid 1.4986
Maximum: Minimum: No. of Points:	5.28 0.02 31
LUMINAIRE INFORMATIO	N
Applied Circuits: No. of Luminaires: Total Load:	6

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

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.

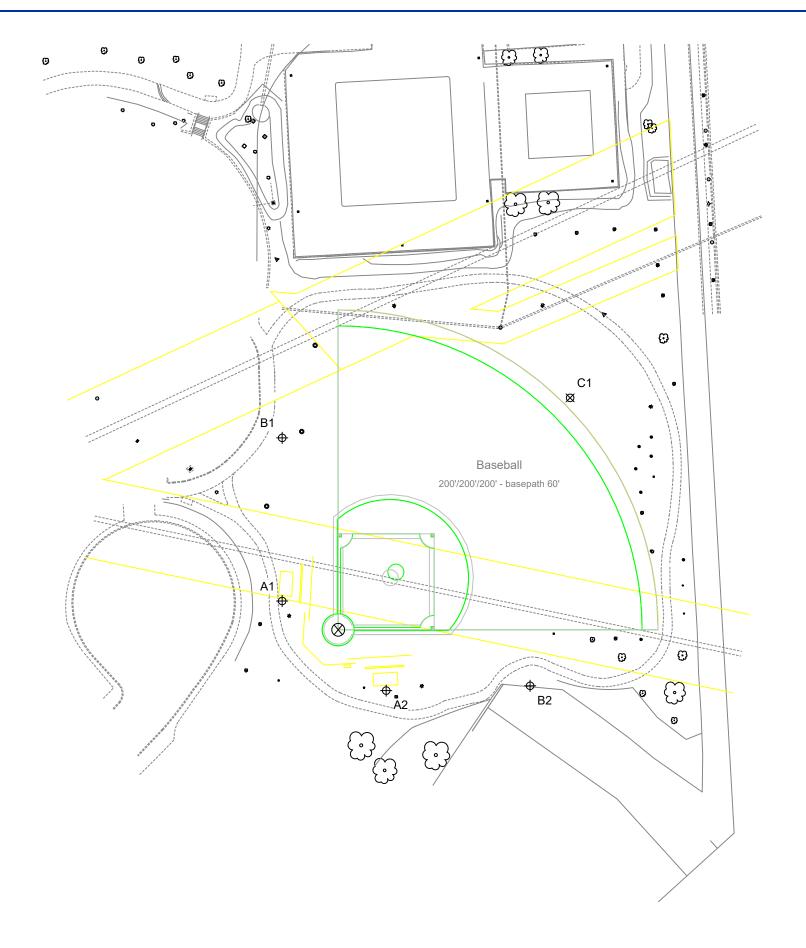
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



to 0,0 reference point(s)

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

Benning Park Community Center Baseball Washington,DC

EQUIPMENT LAYOUT

INCLUDES:

· Baseball

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	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE			
2	A1-A2	60'	-	30'	CREE OSQ	1			
				60'	TLC-LED-1200	2			
2	B1-B2	60'	-	15.5'	TLC-BT-575	1			
				30'	CREE OSQ	1			
				60'	TLC-LED-1200	3			
1	C1	60'	-	15.5'	TLC-BT-575	3			
				30'	CREE OSQ	2			
				60'	TLC-LED-1200	4			
5			TOTAL	S		25			

SINGLE LUMINAIRE AMPERAGE DRAW CHART							
Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208	220 (60)	240 (60)	277	347 (60)	380	480 (60)
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5
Cree OSQ	-	-	-	-	0.4	-	0.3



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SCALE IN FEET 1:60