

Lighting System

Pole/Fixture Summary

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	70'	70'	1	TLC-LED-1200	1.17 kW	A
		70'	2	TLC-LED-900	1.76 kW	A
		16'	1	TLC-BT-575	0.57 kW	A
B1-B2	70'	70'	4	TLC-LED-1200	4.68 kW	A
		16'	1	TLC-BT-575	0.57 kW	A
4			18		17.52 kW	

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Jet Field	17.52 kW	18

Fixture Type Summary

Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
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	10
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	4

Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)		Line Amperage Per Luminaire (max draw)						
		208	220	240	277	347	380	480
Single Phase Voltage		(60)	(60)	(60)	(60)	(60)	(60)	(60)
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

Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Jet Field (Infield)	Horizontal Illuminance	53.44	40	68	1.71	1.35	A	18
Jet Field (Outfield)	Horizontal Illuminance	31.04	20	42	2.10	1.55	A	18
Spill @ 3ft.	Horizontal Illuminance	0.0213	0.00	0.09	-	-	A	18
Spill @ 5ft.	Max Candela Metric	1519.5188	0.00	6341.62	-	-	A	18
Spill @ 5ft.	Max Vertical Illuminance Metric	0.0513	0.00	0.21	-	-	A	18

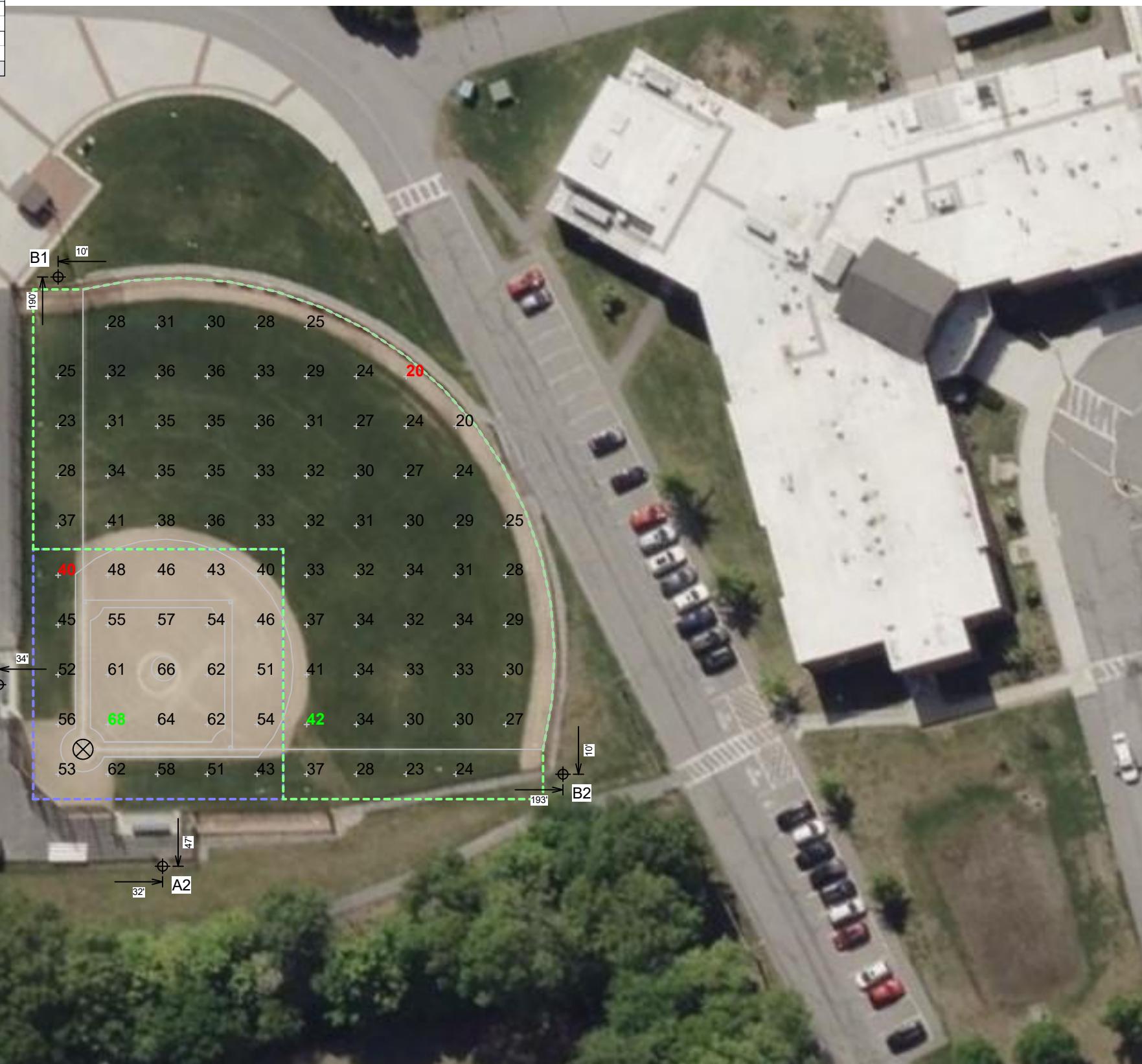
From Hometown to Professional



Equipment List For Areas Shown

QTY	LOCATION	SIZE	GRADE ELEVATION	Luminaires				
				ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-900	2	2	0
1	B1	70'	-	70'	TLC-LED-1200	4	4	0
				15.5'	TLC-BT-575	1	1	0
1	B2	70'	3'	73'	TLC-LED-1200	4	4	0
				18.5'	TLC-BT-575	1	1	0
4				Totals		18	18	0

*Above Grade level relative to the field


Jet Field

Littleton, MA

Grid Summary

Name: Jet Field
Size: 185'/205'/185' - basepath 60'
Spacing: 20.0' x 20.0'
Height: 3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	53.44	31.04
Maximum:	68	42
Minimum:	40	20
Avg/Min:	1.35	1.55
Guaranteed Max/Min:	2	2.5
Max/Min:	1.71	2.10
UG (adjacent pts):	1.26	1.37
CU:	0.64	
No. of Points:	25	65
LUMINAIRE INFORMATION		
Applied Circuits:	A	
No. of Luminaires:	18	
Total Load:	17.52 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.

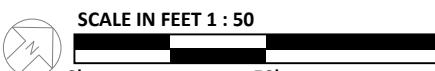
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



We Make It Happen

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ENGINEERED DESIGN By: T.Lanphier • File #198613D • 03-Feb-25

SCALE IN FEET 1 : 50
 0' 50' 100'
 Pole location(s) \oplus dimensions are relative
 to 0,0 reference point(s) \otimes

ILLUMINATION SUMMARY

Jet Field

Littleton, MA

Grid Summary

Name: Spill @ 3ft.
Spacing: 30.0'
Height: 3.0' above grade

Illumination Summary

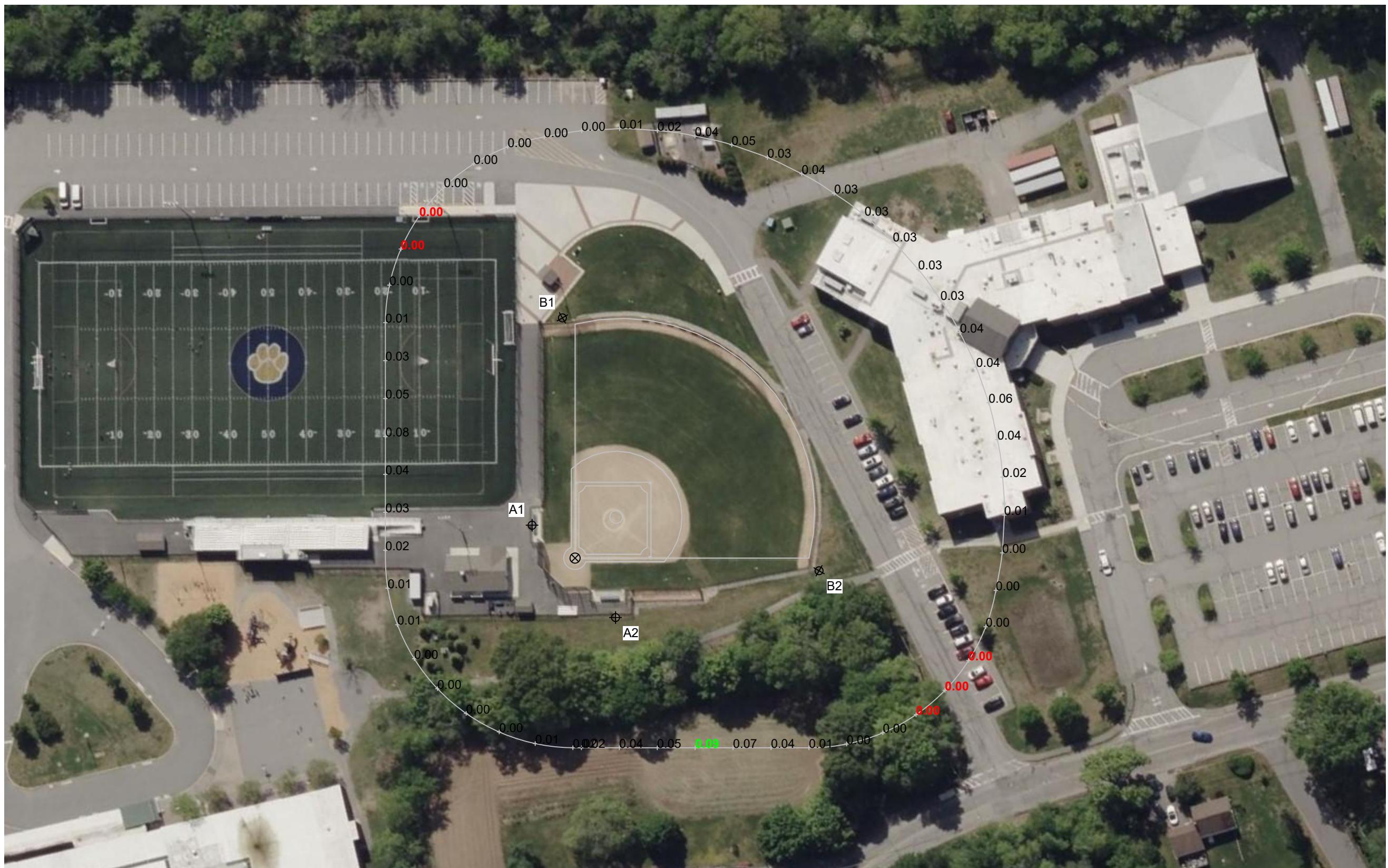
INITIAL HORIZONTAL FOOTCANDLES
Entire Grid
Scan Average: 0.0213
Maximum: 0.09
Minimum: 0.00
CU: 0.00
No. of Points: 55
LUMINAIRE INFORMATION
Applied Circuits: A
No. of Luminaires: 18
Total Load: 17.52 kW

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SCALE IN FEET 1 : 80
0' 80' 160'
ENGINEERED DESIGN

By: T.Lanphier • File #198613D • 03-Feb-25

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

ILLUMINATION SUMMARY

Jet Field

Littleton, MA

Grid Summary

Name: Spill @ 5ft.
Spacing: 30.0'
Height: 5.0' above grade

Illumination Summary

		INITIAL CANDELA (PER FIXTURE)
Scan Average:	1519.5188	Entire Grid
Maximum:	6341.62	
Minimum:	0.00	
CU:	0.00	
No. of Points:	55	
LUMINAIRE INFORMATION		
Applied Circuits:	A	
No. of Luminaires:	18	
Total Load:	17.52 kW	

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A scale bar diagram for a map. It features a circle with a diagonal line from top-left to bottom-right. To its right is the text "SCALE IN FEET 1 : 80". Below this is a horizontal bar divided into four equal segments by black vertical lines. The first segment is labeled "0'" at its left end. The fourth segment is labeled "80'" at its left end, with a tick mark inside the segment.

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

Jet Field

Littleton, MA

Grid Summary

Name: Spill @ 5ft.
Spacing: 30.0'
Height: 5.0' above grade

Illumination Summary

INITIAL MAX VERTICAL FOOTCANDLES

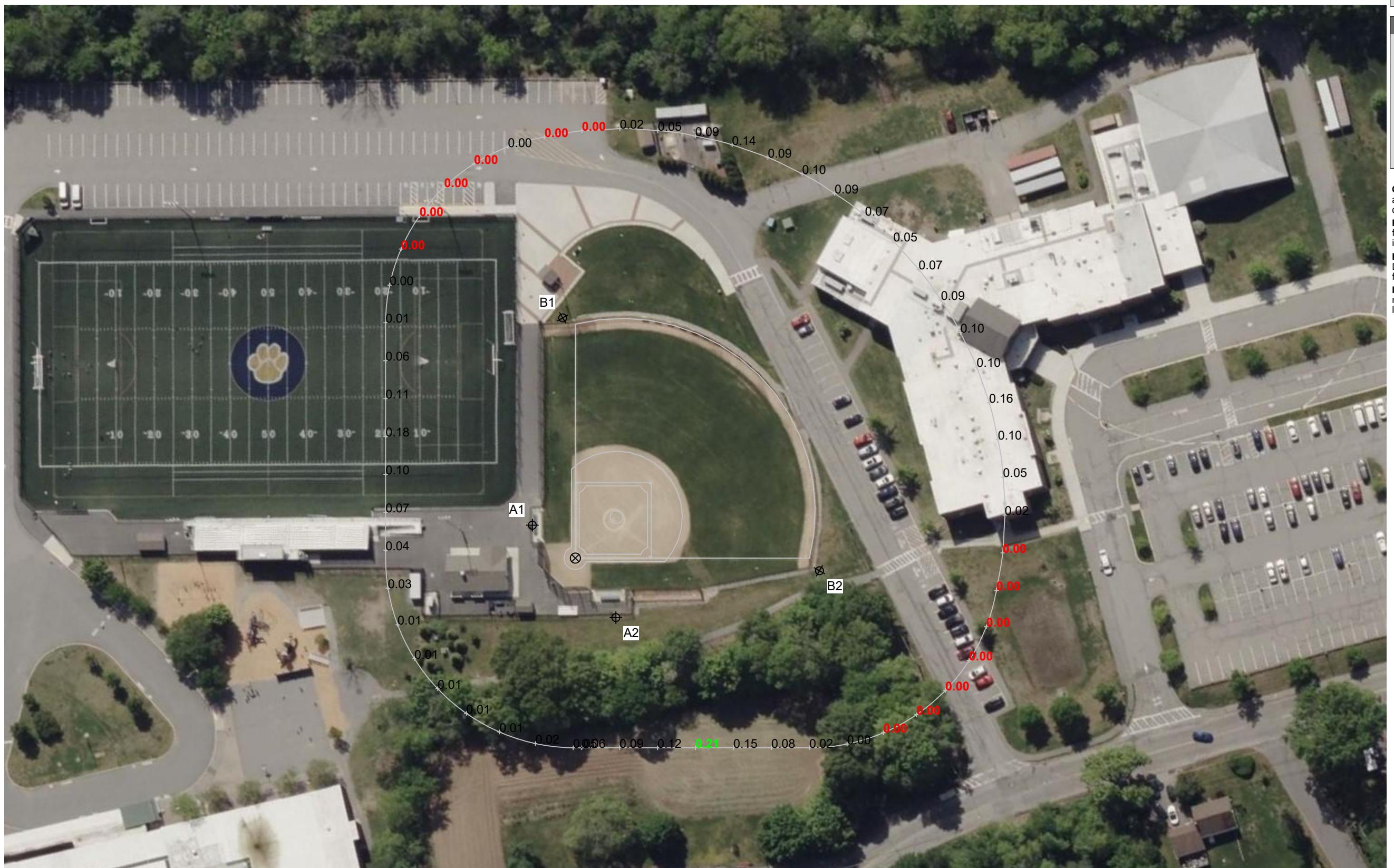
Scan Average: 0.0513
Maximum: 0.21
Minimum: 0.00
CU: 0.00
No. of Points: 55
LUMINAIRE INFORMATION
Applied Circuits: A
No. of Luminaires: 18
Total Load: 17.52 kW

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0' 80' 160'

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musco
lighting

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ILLUMINATION SUMMARY

Jet Field

Littleton, MA

Equipment Layout

INCLUDES:
· Softball

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

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Equipment List For Areas Shown

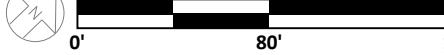
QTY	LOCATION	SIZE	GRADE ELEVATION	Pole		Luminaires	
				ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	
2	A1-A2	70'	-	70'	TLC-LED-1200	1	
				70'	TLC-LED-900	2	
				15.5'	TLC-BT-575	1	
1	B1	70'	-	70'	TLC-LED-1200	4	
				15.5'	TLC-BT-575	1	
1	B2	70'	3'	73'	TLC-LED-1200	4	
				18.5'	TLC-BT-575	1	
Totals						18	

Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)					
	208	220	240	277	347	380
Single Phase Voltage	(60)	(60)	(60)	(60)	(60)	(60)
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8
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TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8
	3.0	2.3				1.5



SCALE IN FEET 1 : 80



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Pole location(s) dimensions are relative
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EQUIPMENT LAYOUT