

St. Anne's-Belfield School Multiuse
Charlottesville, VA

Lighting System

Pole / Fixture Summary				
Pole ID	Pole Height	Fixture Qty	Luminaire Type	Load
S1-S4	70'	6	TLC-LED-1500	8.55 kW
4		24		34.32 kW

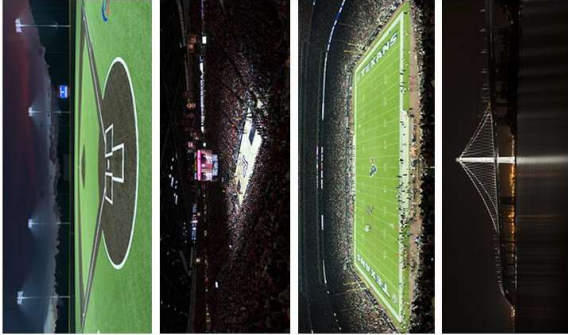
Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Lacross/Field Hockey	34.32 kW	24

Fixture Type Summary						
Type	Source	Wattage	Lumens	L50	L80	L70
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000
						24

Light Level Summary

Calculation Grid Summary									
Grid Name	Calculation Metric	Illumination			Max/Min			Circuits	Fixture Qty
		Ave	Min	Max	Ave	Min	Max		
Multipurpose	Horizontal Illuminance	50.1	42.9	60.5	1.41	1.17		A	24
Spill/Glare - Highway	Horizontal Illuminance	0	0	0	0.00			A	24
Spill/Glare - Highway	Max Candela Metric	10.7	0	168	0.00			A	24
Spill/Glare - Highway	Max Vertical Illuminance Metric	0	0	0	0.00			A	24
Spill/Glare - Roadway	Horizontal Illuminance	0.12	0	0.47	0.00			A	24
Spill/Glare - Roadway	Max Candela Metric	3352	1.14	9230	8123.04	2950.96		A	24
Spill/Glare - Roadway	Max Vertical Illuminance Metric	0.21	0	0.79	0.00			A	24
Zero Grid	Horizontal Illuminance	14.4	0	63.8	0.00			A	24

From Hometown to Professional



Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2022 Musco Sports Lighting, LLC.

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	Pole SIZE	GRAB ELEVATION	MOUNTING HEIGHT	Luminaires		
					TYPE	Pole GRID	OTHER GRID
4	S1-S4	70'		70'	TLC-LED-1500	24	24
4						24	0
TOTALS						24	24

St. Anne's-Belfield School Multiuse
Charlottesville, VA

GRID SUMMARY	
Name:	Multiuse
Size:	330' x 180'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	50.14
Maximum:	60.5
Minimum:	42.9
Avg / Min:	1.17
Guaranteed Max / Min:	1.5
Max / Min:	1.41
UG (adjacent pts):	1.31
CU:	0.77
No. of Points:	66
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	24
Total Load:	34.32 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.



Pole location(s) Ⓢ dimensions are relative to 0.0 reference point(s) Ⓢ



SCALE IN FEET 1 : 30

0' 30' 60'

ENGINEERED DESIGN By: File #2079648 - 20-Oct-22



We Make It Happen.

Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2022 Musco Sports Lighting, LLC.

ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

QTY	Pole	LOCATION	SIZE	GRABCE ELEVATION	MOUNTING HEIGHT	Luminaires		
						TYPE	QTY / POLE	THIS GRID
4	51-54	70'			70'	TL-C-LED 1500	24	24
4							24	24
								0

St. Anne's-Belfield School Multiuse
Charlottesville, VA

GRID SUMMARY	
Name:	Zero Grid
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

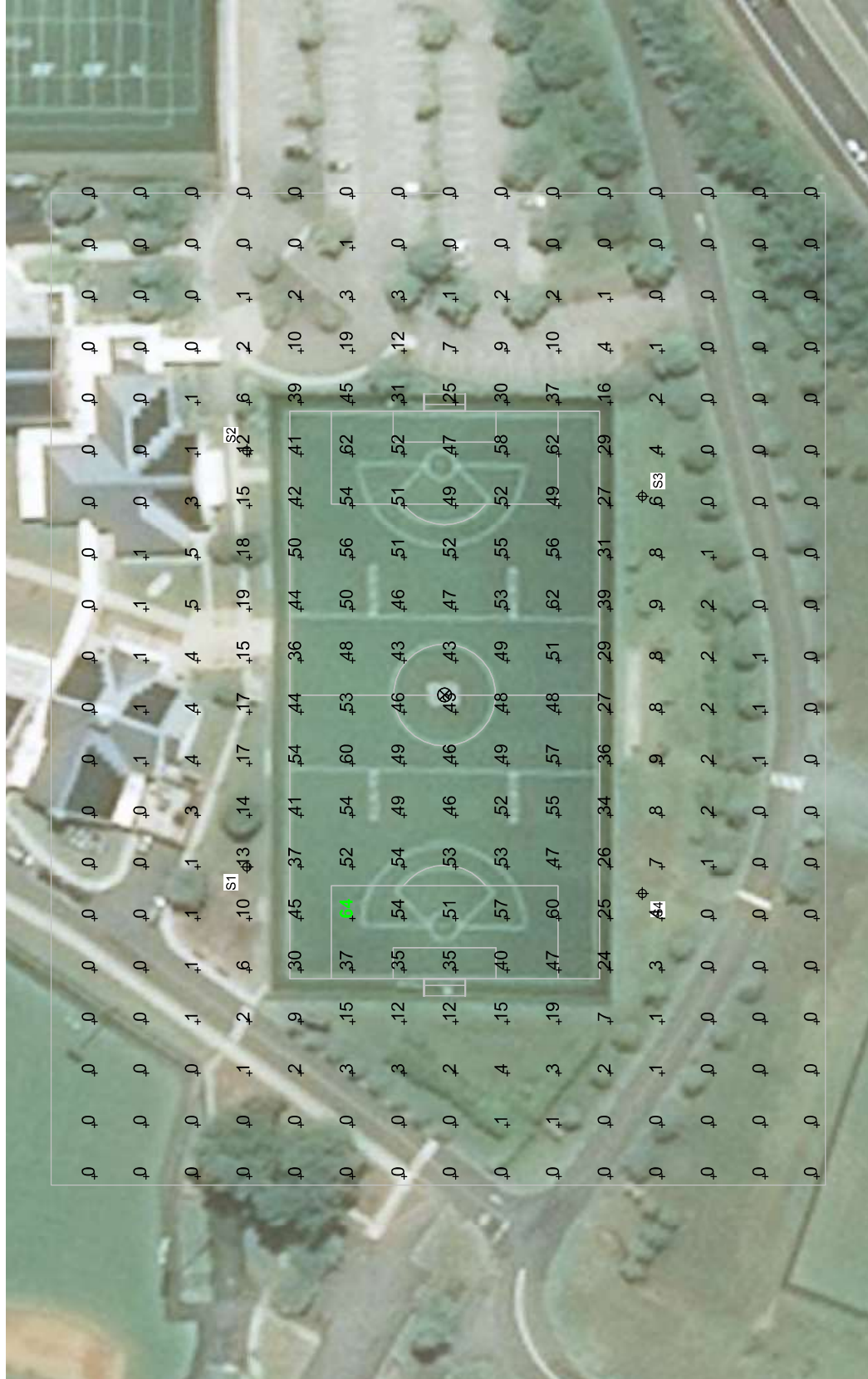
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOT CANDLES	
Scan Average:	14.38
Maximum:	63.8
Minimum:	0.0
No. of Points:	300
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	24
Total Load:	34.32 kW

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

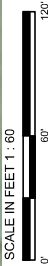
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



Pole location(s) Ⓢ dimensions are relative to 0.0 reference point(s) Ⓢ



ENGINEERED DESIGN By: File #2079648 20-Oct-22



Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2022 Musco Sports Lighting, LLC.

ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

QTY	Pole	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	Luminaires			OTHER GRIDS
						TYPE	QTY / POLE	THIS GRID	
4	S1-S4	-51-54	-70'		-70'	TLC-LED-1500	24	24	0
4						TOTALS	24	24	0

St. Anne's-Belfield School Multiuse
Charlottesville, VA

GRID SUMMARY	
Name:	Spill/Glare - Highway
Spacing:	30.0'
Height:	3.0' above grade

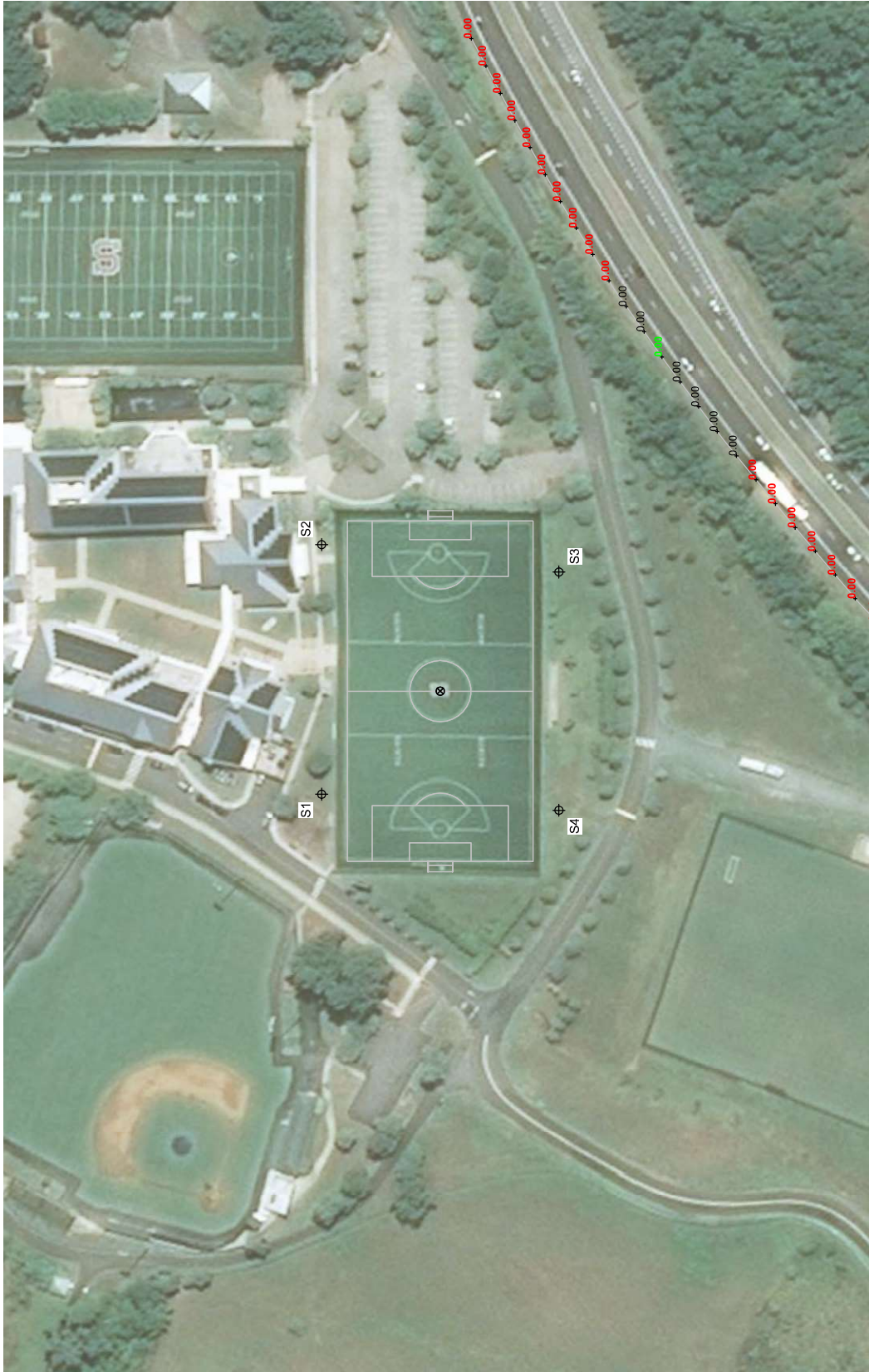
ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0001
Maximum:	0.001
Minimum:	0.000
No. of Points:	31
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	24
Total Load:	34.32 kW

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.



Pole location(s) ⓧ dimensions are relative to 0.0 reference point(s)

SCALE IN FEET 1 : 100



ENGINEERED DESIGN By: - File #2079648 - 20-Oct-22



Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2022 Musco Sports Lighting, LLC.

ILLUMINATION SUMMARY

St. Anne's-Belfield School Multiuse
Charlottesville, VA

EQUIPMENT LAYOUT

INCLUDES:

- Multipurpose

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

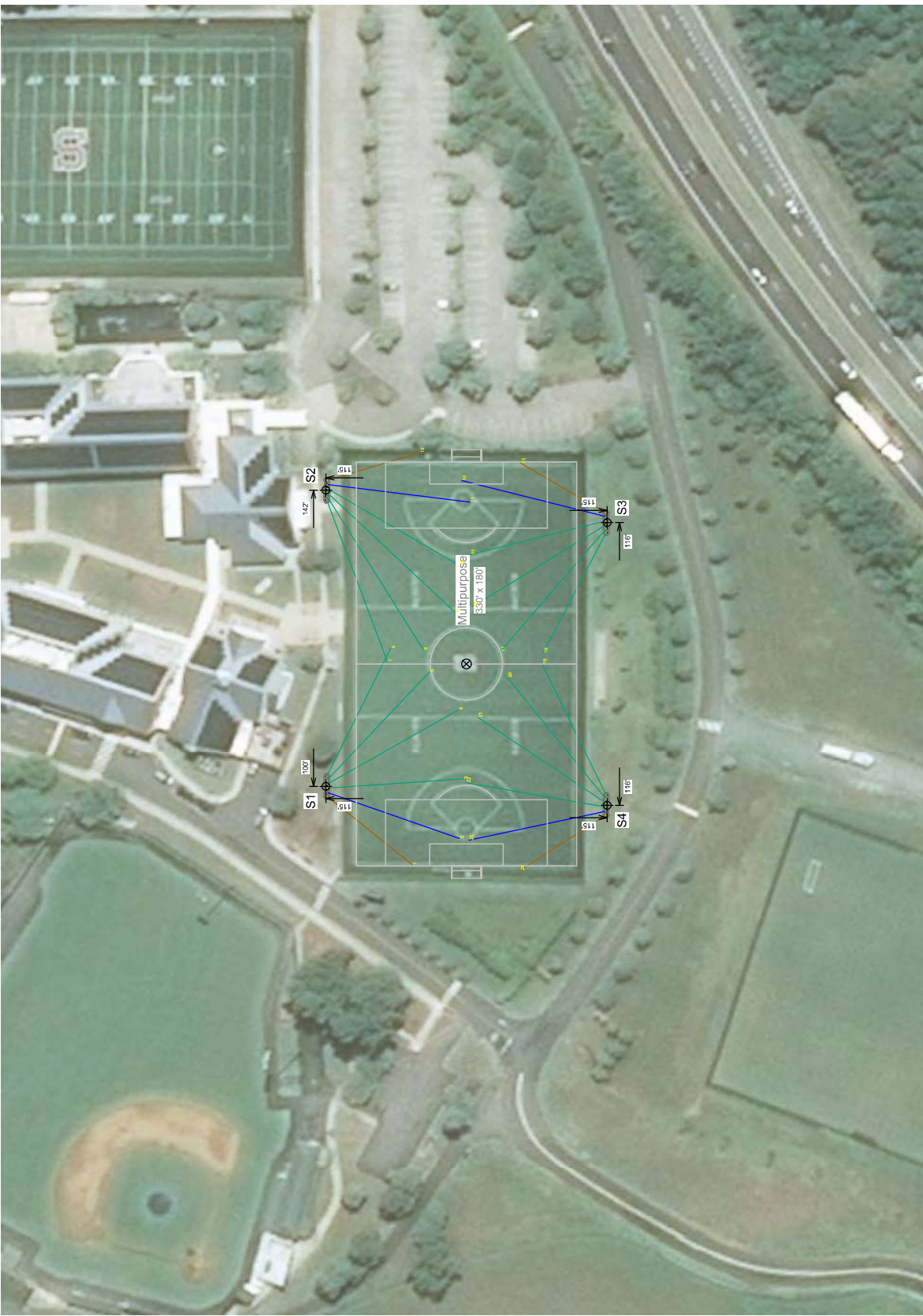
Installation Requirements: Results assume $\pm$ 3%
nominal voltage at line side of the driver and structures
located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

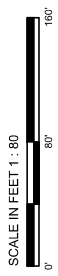
QTY	LOCATION	CLASS	SPACE ELEVATION (ft)	LUMINAIRE TYPE	MOUNTING HEIGHT (ft)	DAY BEAM ANGLE	LUMINAIRE WATTAGE	TOTALS
4	S1-S4	LS570C	70'	TLC-LED-1500	5		24	

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (Minimum Voltage)	Line Amperage Per Luminaire							
	208	220	240	277	347	380	480	
Single Phase Voltage	8.5	8.3	7.8	6.4	5.1	4.7	3.7	
TLC-LED-1500								



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



SCALE IN FEET 1 : 80

ENGINEERED DESIGN By: File #2079648 20-Oct-22



Not to be reproduced in whole or part without the written consent of Musco
Sports Lighting, LLC. ©1981, 2022 Musco Sports Lighting, LLC.

EQUIPMENT LAYOUT